ООО "УРАЛ-ИНСТРУМЕНТ-ПУМОРИ"

ИНСТРУМЕНТ ДЛЯ ФРЕЗЕРНОЙ ОБРАБОТКИ



车削、铣削、螺纹及孔加工刀具夹具系统化解决方案！

Systematic Solution For Turning, Milling, Threading, and Hole Machining Tool Fixtures!


C32
ER25UM
ER16M





ISO-GSK	NBT-GSK	BT-GSK	BT-SK	C-GSK	C-SK	BT30	BT50
C05	C05	C06	C07	C08	C08	C09	C10
SK高速高精度 ISO-GSK 铣床刀柄	SK高速高精度 NBT-GSK 铣床刀柄	SK高速高精度 BT-GSK 铣床刀柄	SK高速高精度 BT-SK 铣床刀柄	SK高速高精度 C-GSK 铣床刀柄	SK高速高精度 C-SK 铣床刀柄	液压刀柄 BT 铣床刀柄	液压刀柄 BT 铣床刀柄
HSK63A	**HSK100A**	**BT30-SR**	**BT30-SRS**	**BT40-SR**	**BT40-SR**	**BT50-SR**	**BBT40R-SR**
C11	C12	C13	C13	C14	C14	C15	C16
液压刀柄 BT 铣床刀柄	液压刀柄 BT 铣床刀柄	热胀刀柄（厚壁型） BT 铣床刀柄	热胀刀柄（薄壁型） BT 铣床刀柄	热胀刀柄（厚壁型） BT 铣床刀柄	热胀刀柄（薄壁型） BT 铣床刀柄	热胀刀柄（厚壁型） BT 铣床刀柄	热胀刀柄（厚壁型） BT 铣床刀柄
BBT40R-SRS	**ISO20-SRS**	**ISO25-SRS**	**HSK32E-SRSRS**	**HSK40E-SR**	**HSK40E-SRS**	**HSK50E-SRS**	**HSK50E-SR**
C16	C17	C17	C18	C19	C19	C19	C20
热胀刀柄（薄壁型） BT 铣床刀柄	热胀刀柄（薄壁型） BT 铣床刀柄	热胀刀柄（薄壁型） BT 铣床刀柄	热胀刀柄（厚/薄壁型） BT 铣床刀柄	热胀刀柄（厚壁型） BT 铣床刀柄	热胀刀柄（薄壁型） BT 铣床刀柄	热胀刀柄（薄壁型） BT 铣床刀柄	热胀刀柄厚壁型） BT 铣床刀柄

HSK50A-SR	HSK50A-SRS	HSK50A-SRS	HSK63A-SRS	HSK100A-SR	BT40-SRC	BT40-SRV	HSK63A-SRC
C20 	C21 	C21 	C22 	C22 	C23 	C23 	C24 
热胀刀柄厚壁型）	热胀刀柄（薄壁型）	热胀刀柄（厚壁型）	热胀刀柄（薄壁型）	热胀刀柄（厚壁型）	热胀刀柄（强力型）	热胀刀柄（增强型）	热胀刀柄（强力型）
BT	BT	BT	BT	BT	BT	BT	BT
铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄

HSK63A-SRV	SW12/16/20/25-SRS	ST12-SRS	ST16-SRS	ST20-SRS	ST16-SRS	薄壁型热胀机	热胀机
C24 	C25 	C25 	C26 	C26 	C27 	C27 	C28 
热胀刀柄（增强型）	钨钢抗震热胀延长杆（薄壁型）	热胀延长杆（薄壁型）	热胀延长杆（薄壁型）	热胀延长杆（薄壁型）	热胀延长杆（薄壁型）	可烧结柄径为φ3-φ12	可烧结柄径为φ3-φ20
BT	BT	BT	BT	BT	BT	H2800	H2800A
铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	热胀机	热胀机

全自动智能水冷热胀机	BT-ADS	C-ADS	HSK-ADS	SK-ADS	BT-C	DAT-C	BT-MLT
C28 	C29 	C30 	C31 	C32 	C33 	C34 	C35 
智能加热水冷一体设计	高精度后拉式刀柄	高精度后拉式刀柄	高精度后拉式刀柄	高精度后拉式刀柄	强力型筒夹刀柄	强力型筒夹刀柄	强力型筒夹刀柄
FAX-15	BT-ADS	C-ADS	HSK-ADS	SK-ADS	BT-C	DAT-C	BT-MLT
热胀机	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄

DAT-MLT	HSK-MLT	NT-MLC	NT-MCST	BT-MCST	DAT-MCST	MCST套装	ISO-ER
C36 	C37 	C37 	C38 	C38 	C39 	C40 	C41 
强力型筒夹刀柄	强力型筒夹刀柄	强力型筒夹刀柄	强力型筒夹刀柄	强力型筒夹刀柄	强力型筒夹刀柄	强力型筒夹刀柄	ER精密筒夹刀柄
DAT-MLT	HSK-MLT	NT-MLC	NT-MCST	BT-MCST	DAT-MCST	MCST套装	ISO-ER
铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄

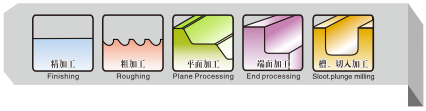
BT-GER	BT-ER	BT-ER-M	BT-ER套装	DAT-ER	HSK-ER	NT-ER	MT-ER
C42 	C43 	C44 	C45 	C46 	C47 	C47 	C48 
ER精密筒夹刀柄	ER精密筒夹刀柄	ER精密筒夹刀柄	ER精密筒夹刀柄	ER精密筒夹刀柄	ER精密筒夹刀柄	ER精密筒夹刀柄	ER精密筒夹刀柄
BT-GER	BT-ER	BT-ER-M	BT-ER套装	DAT-ER	HSK-ER	NT-ER	MT-ER
铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄

R8-ER	C-ER-M	ER延长杆	直柄延长杆	OZ	OZ套装	BT-TC	BT-G
C48 	C50 	C50 	C51 	C53 	C54 	C55 	C56 
ER精密筒夹刀柄	ER筒夹延长杆	ER筒夹延长杆	ER精密筒夹刀柄	OZ重切削刀柄	OZ重切削刀柄	攻牙刀柄	攻牙刀柄
R8-ER	C-ER-M	C-ER-M	直柄延长杆	OZ	OZ套装	BT-TC	BT-G
铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄	铣床刀柄

GT	悬臂套装	TP	APU	JM钻夹头	自紧式钻夹头	扳手式钻夹头	三面刃刀柄
C56	C57	C58	C59	C60	C61	C62	C62
							
攻丝夹套 GT 铣床刀柄	攻牙刀柄 悬臂套装 铣床刀柄	直柄伸缩ER攻牙器 TER 铣床刀柄	钻夹头 APU 铣床刀柄	钻夹头 APU钻夹头 铣床刀柄	钻夹头 自紧式钻夹头 铣床刀柄	钻夹头 扳手式钻夹头 铣床刀柄	三面刃铣刀柄 锯片铣刀柄 铣床刀柄
钻夹头接杆	钻夹头接杆	BT-FMA	BT-FMB	HSK-FMB	DAT-FMB	NT-FMA	BT-MTA
C63	C63	C65	C66	C67	C68	C69	C71
							
钻夹头 钻夹头接杆 铣床刀柄	钻夹头 钻夹头接杆 铣床刀柄	平面铣削刀柄 BT-FMA 铣床刀柄	平面铣削刀柄 BT-FMB 铣床刀柄	平面铣削刀柄 HSK-FMB 铣床刀柄	平面铣削刀柄 DAT-FMB 铣床刀柄	平面铣削刀柄 NT-FMA 铣床刀柄	莫氏刀柄 BT-MTA 铣床刀柄
NT-MTA	DAT-MTA	HSK-MTA	MTA-MTA	R8-MTA	BT-MTB	BT-SLN	DAT-SLN
C72	C73	C73	C74	C74	C75	C77	C78
							
莫氏刀柄 NT-MTA 铣床刀柄	莫氏刀柄 DAT-MTA 铣床刀柄	莫氏刀柄 HSK-MTA 铣床刀柄	莫氏刀柄 MTA-MTA 铣床刀柄	莫氏刀柄 R8-MTA 铣床刀柄	莫氏刀柄 BT-MTB 铣床刀柄	侧固式刀柄 ISO-GSK 铣床刀柄	侧固式刀柄 DAT-SLN 铣床刀柄
NT-SLN	HSK-SLN	BT-OHER	BT-OSL	变径套	固定座	DIN228-B	MT5-YLDB
C79-80	C81	C83	C84	C85	C85	C86	C86
							
侧固式刀柄 NT-SLN 铣床刀柄	侧固式刀柄 HSK-SLN 铣床刀柄	ER筒夹式油路刀柄 BT-OHER 铣床刀柄	侧固式油路刀柄 BT-OSL 铣床刀柄	ER筒夹式油路刀柄 变径套 铣床刀柄	连接于主轴端面 固定座	柄长：204 DIN228-B 莫氏转换柄	柄长：227 MT5-YLDB 莫氏转换柄

PXT	BJT
C86	C86
	
柄长：47 BJT 偏心套	柄长：62 BJT 变径套

ISO-GSK 高速SK筒夹刀柄
ISO-GSK HIGH SPEED SK COLLET CHUCK

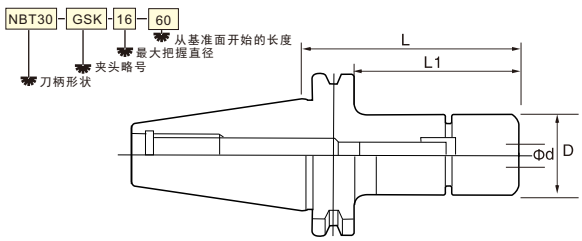


- 高速雕铣机专用刀柄。
- SK筒夹（4°），重复装夹精度更高。
- 全圆螺帽，噪音低、风阻小。

- High-speed engraving and milling machine specific tool holders.
- SK Collet(4°), higher repeat clamping accuracy.
- Full Circle nuts,low nosie,little wind resistance.



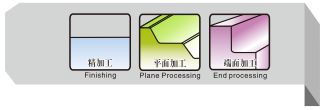
型号说明 Model explanation



G2.5 MAX.40,000min^{-1}

订购编号 Order No.	型号 Cat.No	Φd把握直径 Chucking Dia	D	L1	L	螺母 Nut	筒夹 Collet	筒夹拆卸器 COLLET PULLER	扳手 Spanner	锁刀座	单价 PRICE (RMB)
301100	ISO20-GSK6-45	2-6	20	32	45	LMGSK06	SK06	CX06	BSGSK06	SDZISO20	1200
301102	-GSK10-45	2-10	27	32	45	LMGSK10	SK10	CX10	BSGSK10	SDZISO20	1200
301104	ISO25-GSK6-45	2-6	20	32	45	LMGSK06	SK06	CX06	BSGSK06	SDZISO25	1200
301106	-GSK10-45	2-10	27	32	45	LMGSK10	SK10	CX10	BSGSK10	SDZISO25	1200
301108	-GSK16-45	2-16	40	32	45	LMGSK16	SK16	CX16	BSGSK16	SDZISO25	1200
301110	ISO30-GSK06-60	2-6	20	46	60	LMGSK06	SK06	CX06	BSGSK06	SDZISO30	1200
301112	-GSK10-60	2-10	27	46	60	LMGSK10	SK10	CX10	BSGSK10	SDZISO30	800
301114	-GSK16-60	2-16	40	46	60	LMGSK16	SK16	CX16	BSGSK16	SDZISO30	900

NBT-GSK （无键槽）

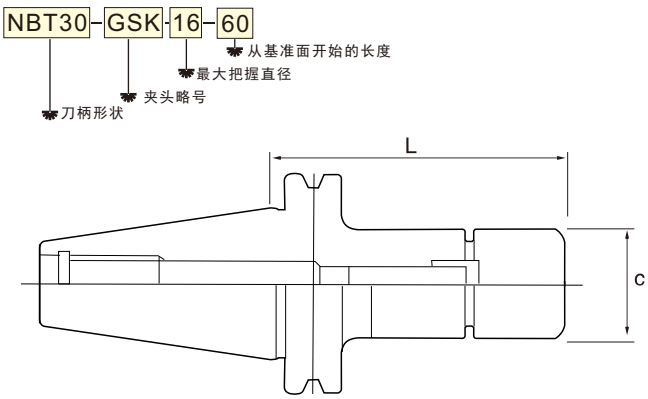


- 高速雕铣机专用刀柄。
- 非偏心全平衡
- 噪音低、风阻小。

- High-speed carving and milling machine for tool holder
- Non-eccentric full balanced round nut.
- low noise, little wind resistance.



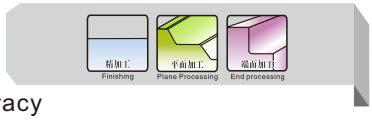
型号说明 Model explanation



G2.5 MAX.30,000min^{-1}

订购编号 Order No.	型号 Cat.No	把握直径 Chucking Dia	C	L	螺母 Nut	筒夹 Collet	标配品 筒夹拆卸器 COLLET PULLER	扳手 Spanner	锁刀座	单价 PRICE (RMB)
301200	NBT30-GSK10-60	3.0~10.0	27.1	60	GSK10	SK10	CX10	GSK10	NBT30	800
301202	-GSK16-60	3.0~16.0	40	60	GSK16	SK16	CX16	GSK16	NBT30	900

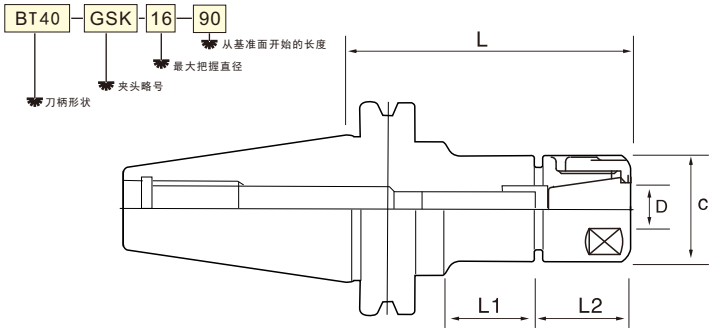
BT-GSK 高速刀柄
BT-GSK HIGH SPEED SK COLLET CHUCK



- SK筒夹(4°)，重复装夹精度更高。
  Sk Collet(4°), higher repeat clamping accuracy
- 全圆螺帽，噪音低、风阻小。
  Full Circle nuts, low noise,little wind resistance.



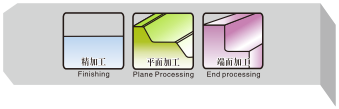
型号说明 Model explanation



G2.5 MAX.30,000min^{-1}

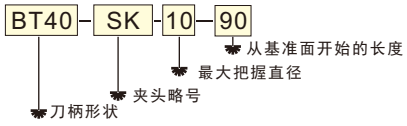
订购编号 Order No.	型号 Cat.No	D	L	C	最高旋转数 MAX.min^{-1}	螺帽 nut	筒夹 collet	筒夹拆卸器 COLLET PULLER	扳手 Spanner	重量 Weight(KG)	单价 PRICE (RMB)
301300	BT30-GSK6-60	2~6.0	60	19.5	30,000	GSK6	SK6	CX6	GSK6	0.7	950
301302	-GSK6-90		90							0.7	1000
301304	-GSK10-60	3~10.0	60	27.1	30,000	GSK10	SK10	CX10	GSK10	0.9	950
301306	-GSK10-90		90							1.0	1000
301308	-GSK10-120		120							1.2	1125
301310	-GSK16-60	3~16.0	60	40	25,000	GSK16	SK16	CX16	GSK16	1.1	1000
301312	-GSK16-90		90							1.2	1125
301314	-GSK16-120		120							1.4	1250
301316	BT40-GSK6-60	2~6.0	60	19.5	30,000	GSK6	SK6	CX6	GSK6	1.0	950
301318	-GSK6-90		90							1.1	1000
301320	-GSK6-120		120							1.3	1125
301322	-GSK10-60	3~10.0	60	27.1	25,000	GSK10	SK10	CX10	GSK10	1.1	950
301324	-GSK10-90		90							1.2	1000
301326	-GSK10-120		120							1.4	1125
301328	-GSK16-60	3~16.0	60	40	25,000	GSK16	SK16	CX16	GSK16	1.3	1000
301330	-GSK16-90		90							1.5	1125
301332	-GSK16-120		120							1.7	1250
301334	-GSK25-90	6~25	90	55	20,000	GSK25	SK25	CX25	GSK25	1.8	1250
301336	-GSK25-120		120							2.0	1375
301338	BT50-GSK6-105	2~6.0	105	19.5	20,000	GSK6	SK6	CX6	GSK6	3.8	1750
301340	-GSK10-105	3~10.0	105	27.1	20,000	GSK10	SK10	CX10	GSK10	4.2	1750
301342	-GSK10-135		135							4.4	2000
301344	-GSK16-105	3~16.0	105	40	15,000	GSK16	SK16	CX16	GSK16	4.7	1875
301346	-GSK16-135		135							4.9	2125
301348	-GSK25-105	6~25	105	55	15,000	GSK25	SK25	CX25	GSK25	5.2	2000
301350	-GSK25-135		135							5.5	2250

BT-SK弹性刀柄
BT-SK SK COLLET CHUUCK



SK筒夹(4°)，重复装夹精度更高。
Sk Collet(4°)，higher repeat clamping accuracy.

型号说明 Model explanation

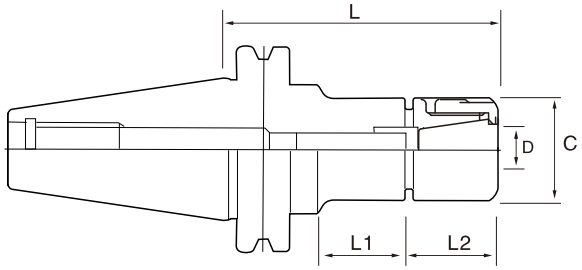


特　点：

- GSK系列适用于高转速、高精密切削，增加刀具寿命。
- 切削性稳定、减少震动。
- 刀具置入筒夹内孔，必须超出筒夹内孔有效夹持长度，避免不当锁固，造成损坏。
- 精密平衡校正可校正在：G2.5，15000RPM~25000RPM。



G2.5 MAX.15,000min^{-1}



Spanner

订购编号 Order No.	型号 Cat No.	D	L	C	螺帽 nut	Sk筒夹 COLLET	筒夹拆卸器 COLLET PULLER 标配品	扳手 Spanner	重量 Weight(KG)	单价 PRICE (RMB)
301400	BT30-TSK06-60	1.8~6.00	60	20	LMTSK06	SK06	CX06	BSTSK06	0.7	500
301402	TSK06-100	1.8~6.00	100	20					0.9	500
301404	TSK10-60	1.8~10.00	60	30	LMTSK10	SK10	CX10	BSTSK10	0.9	500
301406	TSK10-100	1.8~10.00	100	30					1.0	500
301408	TSK16-60	2.75~16.00	60	40	LMTSK16	SK16	CX16	BSTSK16	1.0	500
301410	TSK16-100	2.75~16.00	100	40					1.1	500
301412	BT40-TSK06-60	1.8~6.00	60	20	LMTSK06	SK06	CX06	BSTSK06	1.1	600
301414	TSK06-100	1.8~6.00	100	20					1.2	600
301416	TSK10-60	1.8~10.00	60	30	LMTSK10	SK10	CX10	BSTSK10	1.1	600
301418	TSK10-100	1.8~10.00	100	30					1.2	600
301420	TSK16-60	2.75~16.00	60	40	LMTSK16	SK16	CX16	BSTSK16	1.3	600
301422	TSK16-100	2.75~16.00	100	40					1.5	600
301424	TSK25-80	8.00~25.00	80	55	LMTSK25	SK25	CX25	BSTSK25	1.6	700
301426	TSK25-120	8.00~25.00	120	55					1.9	700
301428	BT50-TSK10-100	1.8~10.00	100	30	LMTSK10	SK10	CX10	BSTSK10	4.2	900
301430	TSK10-150	1.8~10.00	150	30					4.4	1000
301432	TSK16-100	2.75~16.00	100	40	LMTSK16	SK16	CX16	BSTSK16	4.5	900
301434	TSK16-150	2.75~16.00	150	40					4.7	1000
301436	TSK25-120	8.00~25.00	120	55	LMTSK25	SK25	CX25	BSTSK25	4.8	1000
301438	TSK25-200	8.00~25.00	200	55					5.3	1200

C-GSK 直柄SK筒夹延长杆
C-GSK STRAIGHT SHANK SK COLLET CHUCK HOLDER



型号说明 Model explanation

C20 – GSK – 10 – 150
- C20: 刀柄形状
- GSK: 夹头略号
- 10: 最大把握直径
- 150: 从基准面开始的长度

订购编号 Order No.	型号 Cat No.	把握直径 Chucking Dia	L	L1	D	螺帽 nut	筒夹 Collet	筒夹拆卸器 COLLET PULLER 标配品	扳手 Spanner	单价 PRICE (RMB)
301500	C20-GSK6-100									500
301502	-GSK6-150					GSK6		CX6	GSK6	550
301504	-GSK10-100	3~10								500
301506	-GSK10-150					GSK10		CX10	GSK10	550
301508	C25-GSK10-100	3~10								550
301510	-GSK10-150					GSK10		CX10	GSK10	600
301512	-GSK16-100									550
301514	-GSK16-150					GSK16		CX16	GSK16	600
301516	C32-GSK10-120	3~10								600
301518	-GSK10-150					GSK10		CX10	GSK10	650
301520	-GSK16-120									700
301522	-GSK16-150					GSK16		CX16	GSK16	750
301524	-GSK16-180									850
301526	-GSK25-150					GSK25		CX25	GSK25	800

C-SK 直柄SK筒夹延长杆
C-SK STRAIGHT SHANK SK COLLET CHUCK HOLDER



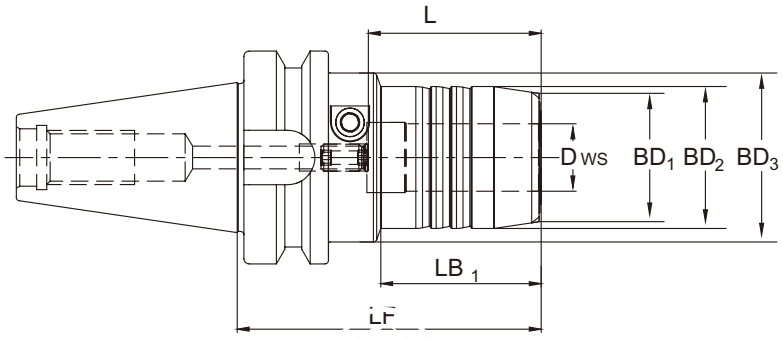
型號說明 Model explanation

C20 – SK – 10 – 150
- C20: 刀柄形狀
- SK: 夾頭略號
- 10: 最大把握直徑
- 150: 從基準面開始的長度

订购编号 Order No.	型号 Cat No.	把握直径 Chucking Dia	L	L1	D	螺帽 nut	筒夹 Collet	筒夹拆卸器 COLLET PULLER 标配品	扳手 Spanner	单价 PRICE (RMB)
301600	C20-SK6-100									500
301602	-SK6-150					SK6		CX6	TSK6	550
301604	-SK10-100	3~10								500
301606	-SK10-150					SK10		CX10	TSK10	550
301608	C25-SK10-100	3~10								550
301610	-SK10-150					SK10		CX10	TSK10	600
301612	-SK16-100									550
301614	-SK16-150					SK16		CX16	TSK16	600
301616	C32-SK10-120	3~10								600
301618	-SK10-150					SK10		CX10	TSK10	650
301620	-SK16-120									700
301622	-SK16-150					SK16		CX16	TSK16	750
301624	-SK16-180									850
301626	-SK25-150					SK25		CX25	TSK25	800

BT30 液压刀柄
BT30 Hydraulic Chucks



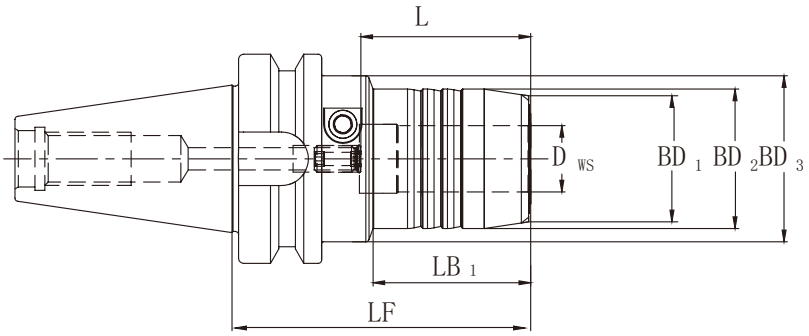


订购编号 Order No.	型号 Cat No. JIS B6339-AD	DMS	D WS	BD1	BD2	BD3	LF	L	LB1	螺钉 Screw	卡簧 Collets
	BT30-EHC06 -50.8	30	6	23	26	46	50.8	37	15.6	HM05014C	-
	BT30-EHC08 -50.8	30	8	25	28	46	50.8	37	15.6	HM06014C	-
	BT30-EHC10 -50.8	30	10	27	30	46	50.8	41	15.6	HM08014C	-
	BT30-EHC12 -50.8	30	12	29	32	46	50.8	46	15.6	HM08014C	HC12
	BT30-EHC16 -90	30	16	34	38	50	90	49	50	HM08014C	-
	BT30-EHC20 -90	30	20	38	42	50	90	51	50	HM08014C	HC20
	BT40-EHC06 -90	40	6	22	26	50	90	37	43	HM05014C	-
	-120	40	6	22	26	50	120	37	73	HM05014C	-
	-150	40	6	22	26	50	150	37	103	HM05014C	-
	-200	40	6	22	26	50	200	37	153	HM05014C	-
	BT40-EHC08 -90	40	8	24	28	50	90	37	44.5	HM06014C	-
	-120	40	8	24	28	50	120	37	74.5	HM06014C	-
	-150	40	8	24	28	50	150	37	104.5	HM06014C	-
	-200	40	8	24	28	50	200	37	154.5	HM06014C	-
	BT40-EHC10 -90	40	10	26	30	50	90	41	44.5	HM08014C	-
	-120	40	10	26	30	50	120	41	74.5	HM08014C	-
	-150	40	10	26	30	50	150	41	104.5	HM08014C	-
	-200	40	10	26	30	50	200	41	154.5	HM08014C	-
	BT40-EHC12 -90	40	12	28	32	50	90	46	44.5	HM08014C	HC12
	-120	40	12	28	32	50	120	46	74.5	HM08014C	HC12
	-150	40	12	28	32	50	150	46	104.5	HM08014C	HC12
	-200	40	12	28	32	50	200	46	154.5	HM08014C	HC12
	BT40-EHC14 -90	40	14	30	34	50	90	46	44.5	HM08014C	-
	-150	40	14	30	34	50	150	46	104.5	HM08014C	-
	BT40-EHC16 -90	40	16	34	38	50	90	49	47.5	HM08014C	-
	-120	40	16	34	38	50	120	49	77.5	HM08014C	-
	-150	40	16	34	38	50	150	49	107.5	HM08014C	-
	-200	40	16	34	38	50	200	49	157.5	HM08014C	-
	BT40-EHC18 -90	40	18	36	40	50	90	49	47.5	HM08014C	-
	-150	40	18	36	40	50	150	49	107.5	HM08014C	-
	BT40-EHC20 -90	40	20	38	42	50	90	51	47.5	HM08014C	HC20
	-120	40	20	38	42	50	120	51	77.5	HM08014C	HC20
	-150	40	20	38	42	50	150	51	107.5	HM08014C	HC20
	-200	40	20	38	42	50	200	51	157.5	HM08014C	HC20
	BT40-EHC25 -83	40	25	53	57	62	83	57	44	HM12014C	-
	BT40-EHC32 -83	40	32	60	63	80	83	61	24.9	HM12014C	-

附件 Accessories	D WS= 6	D WS= 8	D WS= 10	D WS= 12	D WS= 16	D WS= 20	D WS= 32
扳手 Hex Wrench	TS5						TS6

BT 液压刀柄
BT50 Hydraulic Chucks



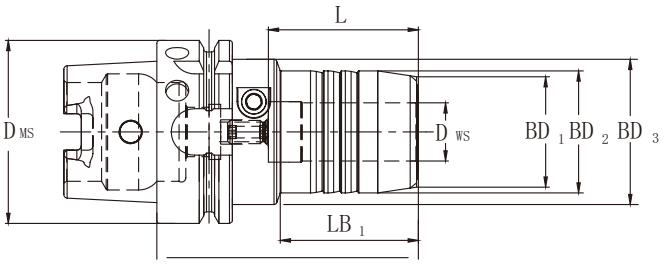


订购编号 Order No.	型号 Cat No. JIS B6339-AD	DMS	DWS	BD1	BD2	BD3	LF	L	LB1	螺钉 Screw	卡簧 Collets
	BT50-EHC06 -90	50	6	22	26	50	90	37	29.5	HM08014C	-
	-150	50	6	22	26	50	150	37	89.5	HM08014C	-
	BT50-EHC08 -90	50	8	24	28	50	90	37	30	HM08014C	-
	-150	50	8	24	28	50	150	37	80	HM08014C	-
	BT50-EHC10 -90	50	10	26	30	50	90	41	31	HM08014C	-
	-150	50	10	26	30	50	150	41	93	HM08014C	-
	BT50-EHC12 -90	50	12	28	32	44.5	90	46	34	HM08014C	HC12
	-120	50	12	28	32	44.5	120	46	64	HM08014C	HC12
	150	50	12	28	32	50	150	46	94	HM08014C	HC12
	200	50	12	28	32	50	200	46	145	HM08014C	HC12
	BT50-EHC14 -90	50	14	30	34	44.5	90	46	34	HM08014C	-
	-100	50	14	30	34	44.5	100	46	44	HM08014C	-
	BT50-EHC16 -90	50	16	34	38	44.5	90	49	34	HM08014C	-
	-100	50	16	34	38	44.5	100	49	44	HM08014C	-
	BT50-EHC18 -90	50	18	36	40	44.5	90	49	34	HM08014C	-
	-100	50	18	36	40	44.5	100	49	44	HM08014C	-
	BT50-EHC20 -90	50	20	38	42	44.5	90	51	34	HM08014C	HC20
	-105	50	20	38	42	44.5	105	51	47.5	HM08014C	HC20
	-120	50	20	38	42	44.5	120	51	62.5	HM08014C	HC20
	-150	50	20	38	42	50	150	51	92.5	HM08014C	HC20
	-200	50	20	38	42	50	200	51	142.5	HM08014C	HC20
	BT50-EHC25 -90	50	25	53	57	66	90	57	34	HM12014C	-
	-110	50	25	53	57	66	110	57	54	HM12014C	-
	BT50-EHC32 -90	50	32	60	64	72	90	61	34	HM12014C	HC32
	-115	50	32	60	64	72	115	46	59	HM12014C	HC32

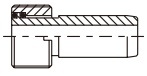
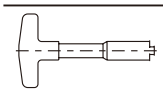
附件 Accessories	DWS= 6	DWS= 8	DWS= 10	DWS= 12	DWS= 16	DWS= 20	DWS= 32
扳手 Hex Wrench	TS5						TS6

HSK 液压刀柄
HSK Hydraulic Chucks



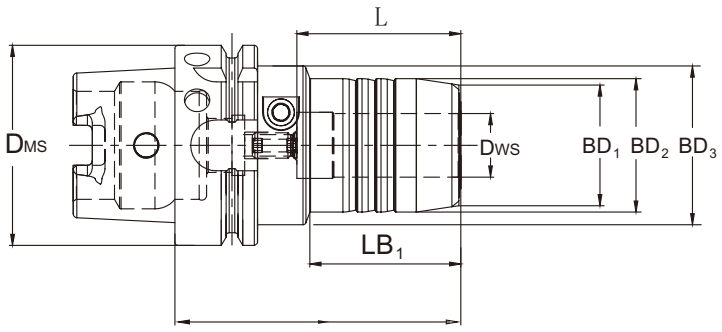


订购编号 Order No.	型号 Cat No.		D MS	D WS	BD1	BD2	BD3	LF	L	LB1	螺钉 Screw	卡簧 Collets
	HSK63A-EHC06-70	HSK-A63	63	6	22	26	50	70	37	24	HM05014C	-
	-90	HSK-A63	63	6	22	26	50	80	37	44	HM05014C	-
	-120	HSK-A63	63	6	22	26	50	120	37	74	HM05014C	-
	-150	HSK-A63	63	6	22	26	50	150	37	104	HM05014C	-
	-200	HSK-A63	63	6	22	26	50	200	37	154	HM05014C	-
	HSK63A-EHC08-70	HSK-A63	63	8	24	28	50	70	37	25	HM06014C	-
	-90	HSK-A63	63	8	24	28	50	90	37	45	HM06014C	-
	-120	HSK-A63	63	8	24	28	50	120	37	75	HM06014C	-
	-150	HSK-A63	63	8	24	28	50	150	37	105	HM06014C	-
	-200	HSK-A63	63	8	24	28	50	200	37	155	HM06014C	-
	HSK63A-EHC10-80	HSK-A63	63	10	26	30	50	80	41	35	HM08014C	-
	-120	HSK-A63	63	10	26	30	50	120	41	75	HM08014C	-
	-150	HSK-A63	63	10	26	30	50	150	41	105	HM08014C	-
	-200	HSK-A63	63	10	26	30	50	200	41	155	HM08014C	-
	HSK63A-EHC12-85	HSK-A63	63	12	28	32	50	85	46	40	HM08014C	HC12
	-120	HSK-A63	63	12	28	32	50	120	46	75	HM08014C	HC12
	-150	HSK-A63	63	12	28	32	50	150	46	105	HM08014C	HC12
	-200	HSK-A63	63	12	28	32	50	200	46	155	HM08014C	HC12
	HSK63A-EHC14-85	HSK-A63	63	14	30	34	50	85	46	40	HM08014C	-
	-150	HSK-A63	63	14	30	34	50	150	46	105	HM08014C	-
	HSK63A-EHC16-90	HSK-A63	63	16	34	38	50	90	49	46	HM08014C	-
	-120	HSK-A63	63	16	34	38	50	120	49	76	HM08014C	-
	-150	HSK-A63	63	16	34	38	50	150	49	106	HM08014C	-
	-200	HSK-A63	63	16	34	38	50	200	49	156	HM08014C	-
	HSK63A-EHC18-90	HSK-A63	63	18	36	40	50	90	49	47	HM08014C	-
	-150	HSK-A63	63	18	36	40	50	150	49	107	HM08014C	-
	HSK63A-EHC20-90	HSK-A63	63	20	38	42	50	90	51	48	HM08014C	HC20
	-120	HSK-A63	63	20	38	42	50	120	51	78	HM08014C	HC20
	-150	HSK-A63	63	20	38	42	50	150	51	108	HM08014C	HC20
	-200	HSK-A63	63	20	38	42	50	200	51	158	HM08014C	HC20
	HSK63A-EHC25-120	HSK-A63	63	25	53	57	63	120	57	59	HM12014C	-
	HSK63A-EHC32-125	HSK-A63	63	32	60	64	75	125	61	63	HM12014C	HC32

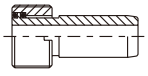
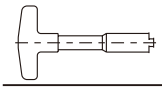
附件 Accessories		D WS= 6	D WS= 8	D WS= 10	D WS= 12	D WS= 14	D WS= 16	D WS= 18	D WS= 20	D WS= 25	D WS= 32
	扳手 Hex Wrench	TS5								TS6	
	冷却液套管 Coolant tubes	TU-HSK63									
	扳手 Coolant tubeWrench	W-HSK63									

HSK 液压刀柄
HSK Hydraulic Chucks





订购编号 Order No.	型号 Cat No.		D MS	D WS	BD1	BD2	BD3	LF	L	LB1	螺钉 Screw	卡簧 Collets
	HSK100A-EHC06-75	HSK-A100	100	6	22	26	50	75	37	26	HM05014C	—
	-90	HSK-A100	100	6	22	26	50	90	37	41	HM05014C	—
	-120	HSK-A100	100	6	22	26	50	120	37	71	HM05014C	—
	-150	HSK-A100	100	6	22	26	50	150	37	101	HM05014C	—
	HSK100A-EHC08-75	HSK-A100	100	8	24	28	50	75	37	26	HM06014C	—
	-90	HSK-A100	100	8	24	28	50	90	37	41	HM06014C	—
	-120	HSK-A100	100	8	24	28	50	120	37	71	HM06014C	—
	-150	HSK-A100	100	8	24	28	50	150	37	101	HM06014C	—
	HSK100A-EHC10-90	HSK-A100	100	10	26	30	50	90	41	42	HM08014C	—
	-120	HSK-A100	100	10	26	30	50	120	41	72	HM08014C	—
	-150	HSK-A100	100	10	26	30	50	150	41	102	HM08014C	—
	HSK100A-EHC12-95	HSK-A100	100	12	28	32	50	95	46	47	HM08014C	HC12
	-120	HSK-A100	100	12	28	32	50	120	46	72	HM08014C	HC12
	-150	HSK-A100	100	12	28	32	50	150	46	102	HM08014C	HC12
	-200	HSK-A100	100	12	28	32	50	200	46	152	HM08014C	HC12
	HSK100A-EHC14-95	HSK-A100	100	14	30	34	50	95	46	53	HM08014C	—
	-150	HSK-A100	100	14	30	34	50	150	46	103	HM08014C	—
	HSK100A-EHC16-100	HSK-A100	100	16	34	38	50	100	49	53	HM08014C	—
	-120	HSK-A100	100	16	34	38	50	120	49	73	HM08014C	—
	-150	HSK-A100	100	16	34	38	50	150	49	103	HM08014C	—
	HSK100A-EHC18-100	HSK-A100	100	18	36	40	50	100	49	58	HM08014C	—
	-150	HSK-A100	100	18	36	40	50	150	49	108	HM08014C	—
	HSK100A-EHC20-105	HSK-A100	100	20	38	42	50	105	51	59	HM08014C	HC20
	-120	HSK-A100	100	20	38	42	50	120	51	74	HM08014C	HC20
	-150	HSK-A100	100	20	38	42	50	150	51	104	HM08014C	HC20
	-200	HSK-A100	100	20	38	42	50	200	51	154	HM08014C	HC20
	HSK100A-EHC25-110	HSK-A100	100	25	53	57	63	110	57	62	HM12014C	—
	-150	HSK-A100	100	25	53	57	63	150	57	112	HM12014C	—
	HSK100A-EHC32-110	HSK-A100	100	32	60	64	75	110	61	62	HM12014C	HC32
	-150	HSK-A100	100	32	60	64	75	150	61	102	HM12014C	HC32

附件 Accessories	Dws=6	Dws=8	Dws=10	Dws=12	Dws=14	Dws=16	Dws=18	Dws=20	Dws=25	Dws=32
 扳手 Hex Wrench	TS5								TS6	
 冷却液套管 Coolant tubes	TU-HSK100									
 扳手 Coolant tube Wrench	W-HSK100									

热胀刀柄 ShrInk fit chuCk



命名规则 Naming Rule

BT	40	-	SR	20	-	90	TRN
主轴形式	主轴大小		夹持方式	夹持直径		基准面长度	生产工艺

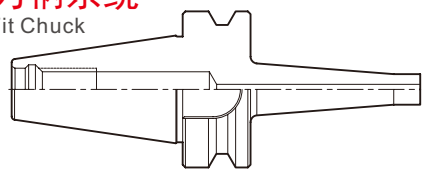
SR 厚壁型 | SRS 薄壁型 | SRC 强力型 | SRV 增强型

热胀延长杆命名规则
Shrink Fit Extension Naming Rule

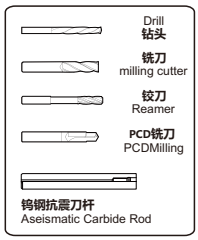
S	T	20	-	SR	S	08	-	110	TE
直柄型	材料	柄径		热胀夹持	壁厚	夹持直径		总长度	生产工艺

T 钨钢 | W 钨钢 | S 薄壁型 | 无 厚壁型

热胀刀柄系统
Shrink Fit Chuck

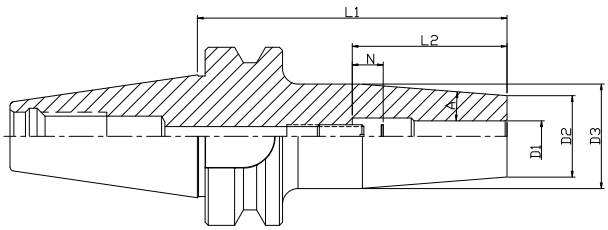


热胀刀柄
Shrink Fit Chuck



BT30-SR热胀刀柄(厚壁型)
BT30-SR Shrink Fit Chuck

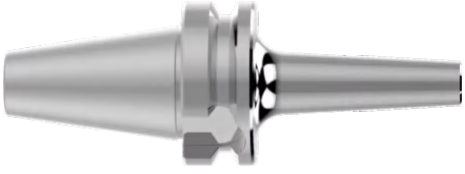


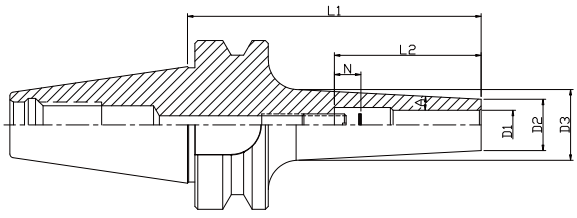


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BT30-SR03-80TRN	3	10	17	80	/	/	4.5°	○	●	
BT30-SR04-80TRN	4	15	20	80	/	/	4.5°	●	●	
BT30-SR05-80TRN	5	15	20	80	/	/	4.5°	○	●	
BT30-SR06-80TRN	6	21	27	80	/	/	4.5°	●	●	
BT30-SR08-80TRN	8	21	27	80	45	18	4.5°	●	●	
BT30-SR10-80TRN	10	24	32	80	52	20	4.5°	●	●	
BT30-SR12-80TRN	12	24	32	80	60	28	4.5°	●	●	
BT30-SR14-80TRN	14	27	34	80	60	24	4.5°	○	●	
BT30-SR16-80TRN	16	27	34	80	65	25	4.5°	●	●	
BT30-SR18-80TRN	18	33	42	80	65	25	4.5°	○	●	

BT30-SRS 热胀刀柄(薄壁型)
BT30-SRS Shrink Fit Chuck



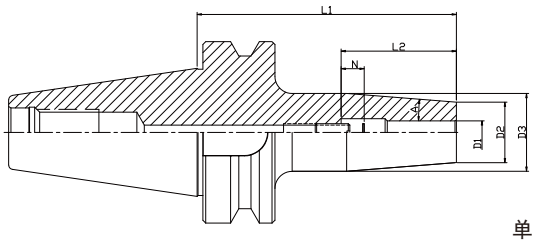


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BT30-SRS03-60TRN	3	8	11	60	/	/	3°	○	●	
BT30-SRS04-60TRN	4	10	13	60	/	/	3°	●	●	
BT30-SRS06-80TRN	6	12	17	80	/	/	3°	○	●	
BT30-SRS08-80TRN	8	14	19	80	45	18	3°	●	●	
BT30-SRS10-80TRN	10	16	21	80	52	20	3°	●	●	
BT30-SRS12-80TRN	12	18	23	80	60	28	3°	●	●	

BT40-SR 热胀刀柄(厚壁型)
BT40-SR Shrink Fit Chuck

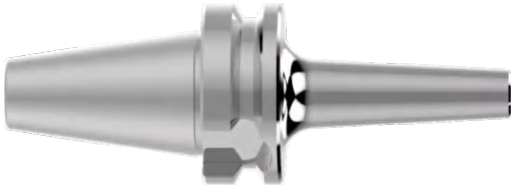


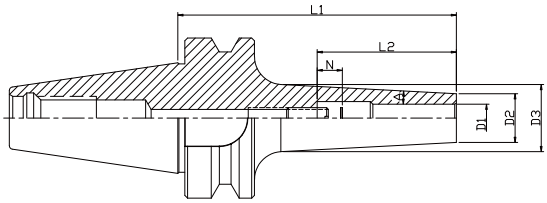


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BT40-SR03-90TRN	3	10	17	90	/	/	4.5°	○	●	
BT40-SR04-90TRN	4	15	20	90	/	/	4.5°	●	●	
BT40-SR04-120TRN	4	15	20	120	/	/	4.5°	●	●	
BT40-SR04-160TRN	4	15	25	160	/	/	4.5°	●	●	
BT40-SR05-90TRN	5	15	20	90	/	/	4.5°	○	●	
BT40-SR06-90TRN	6	21	27	90	/	/	4.5°	●	●	
BT40-SR06-120TRN	6	21	27	120	/	/	4.5°	●	●	
BT40-SR06-160TRN	6	21	32	160	/	/	4.5°	●	●	
BT40-SR08-90TRN	8	21	27	90	45	18	4.5°	●	●	
BT40-SR08-120TRN	8	21	27	120	45	18	4.5°	●	●	
BT40-SR08-160TRN	8	21	32	160	45	18	4.5°	●	●	
BT40-SR10-90TRN	10	24	32	90	52	20	4.5°	●	●	
BT40-SR10-120TRN	10	24	32	120	52	20	4.5°	●	●	
BT40-SR10-160TRN	10	24	34	160	52	20	4.5°	●	●	
BT40-SR12-90TRN	12	24	32	90	60	28	4.5°	●	●	
BT40-SR12-120TRN	12	24	32	120	60	28	4.5°	●	●	
BT40-SR12-160TRN	12	24	34	160	60	28	4.5°	●	●	
BT40-SR14-90TRN	14	27	34	90	60	24	4.5°	○	●	
BT40-SR14-120TRN	14	27	34	120	60	24	4.5°	○	●	
BT40-SR14-160TRN	14	27	42	160	60	24	4.5°	○	●	
BT40-SR16-90TRN	16	27	34	90	65	25	4.5°	●	●	
BT40-SR16-120TRN	16	27	34	120	65	25	4.5°	●	●	
BT40-SR16-160TRN	16	27	42	160	65	25	4.5°	●	●	
BT40-SR18-90TRN	18	33	42	90	65	25	4.5°	○	●	
BT40-SR18-120TRN	18	33	42	120	65	25	4.5°	○	●	
BT40-SR18-160TRN	18	33	51	160	65	25	4.5°	○	●	
BT40-SR20-90TRN	20	33	42	90	65	25	4.5°	●	●	
BT40-SR20-120TRN	20	33	42	120	65	25	4.5°	●	●	
BT40-SR20-160TRN	20	33	51	160	65	25	4.5°	●	●	

BT40-SRS 热胀刀柄(薄壁型)
BT40-SRS Shrink Fit Chuck

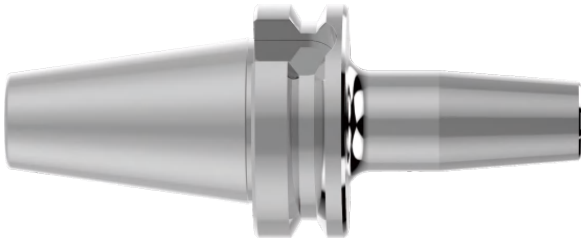


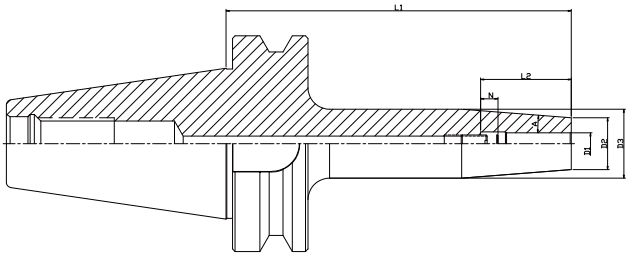


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BT40-SRS03-90TRN	3	8	13	90	/	/	3°	○	●	
BT40-SRS04-90TRN	4	10	16	90	/	/	3°	●	●	
BT40-SRS04-120TRN	4	10	19	120	/	/	3°	●	●	
BT40-SRS04-160TRN	4	10	23	160	/	/	3°	●	●	
BT40-SRS06-90TRN	6	12	18	90	/	/	3°	●	●	
BT40-SRS06-120TRN	6	12	21	120	/	/	3°	●	●	
BT40-SRS06-160TRN	6	12	25	160	/	/	3°	●	●	
BT40-SRS08-90TRN	8	14	20	90	45	18	3°	●	●	
BT40-SRS08-120TRN	8	14	23	120	45	18	3°	●	●	
BT40-SRS08-160TRN	8	14	27	160	45	18	3°	●	●	
BT40-SRS10-90TRN	10	16	22	90	52	20	3°	●	●	
BT40-SRS10-120TRN	10	16	25	120	52	20	3°	●	●	
BT40-SRS10-160TRN	10	16	29	160	52	20	3°	●	●	
BT40-SRS12-90TRN	12	18	24	90	60	28	3°	●	●	
BT40-SRS12-120TRN	12	18	27	120	60	28	3°	●	●	
BT40-SRS12-160TRN	12	18	31	160	60	28	3°	●	●	

BT50-SR 热胀刀柄（厚壁型）
BT50-SR Shrink Fit Chuck



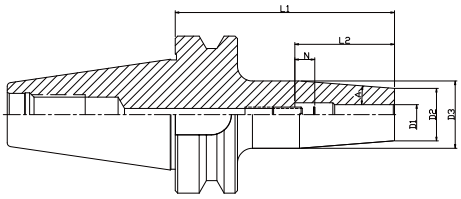


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BT50-SR06-100TRN	6	21	27	100	/	/	4.5°	●	●	
BT50-SR06-120TRN	6	21	27	120	/	/	4.5°	●	●	
BT50-SR06-160TRN	6	21	32	160	/	/	4.5°	●	●	
BT50-SR08-100TRN	8	21	27	100	45	18	4.5°	●	●	
BT50-SR08-120TRN	8	21	27	120	45	18	4.5°	●	●	
BT50-SR08-160TRN	8	21	32	160	45	18	4.5°	●	●	
BT50-SR10-100TRN	10	24	32	100	52	20	4.5°	●	●	
BT50-SR10-120TRN	10	24	32	120	52	20	4.5°	●	●	
BT50-SR10-160TRN	10	24	34	160	52	20	4.5°	●	●	
BT50-SR12-100TRN	12	24	32	100	60	28	4.5°	●	●	
BT50-SR12-120TRN	12	24	32	120	60	28	4.5°	●	●	
BT50-SR12-160TRN	12	24	34	160	60	28	4.5°	●	●	
BT50-SR14-100TRN	14	27	34	100	60	24	4.5°	○	●	
BT50-SR14-120TRN	14	27	34	120	60	24	4.5°	○	●	
BT50-SR14-160TRN	14	27	42	160	60	24	4.5°	○	●	
BT50-SR16-100TRN	16	27	34	100	65	25	4.5°	●	●	
BT50-SR16-120TRN	16	27	34	120	65	25	4.5°	●	●	
BT50-SR16-160TRN	16	27	42	160	65	25	4.5°	●	●	
BT50-SR18-100TRN	18	33	42	100	65	25	4.5°	○	●	
BT50-SR18-120TRN	18	33	42	120	65	25	4.5°	○	●	
BT50-SR18-160TRN	18	33	51	160	65	25	4.5°	○	●	
BT50-SR20-100TRN	20	33	42	100	65	25	4.5°	●	●	
BT50-SR20-120TRN	20	33	42	120	65	25	4.5°	●	●	
BT50-SR20-160TRN	20	33	51	160	65	25	4.5°	●	●	

BBT40-SR 热胀刀柄(厚壁型)
BBT40-SR Shrink Fit Chuck

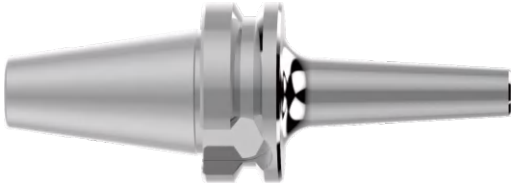


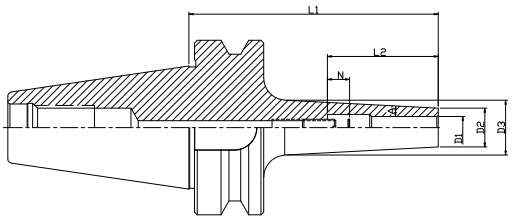


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BBT40-SR03-90TRN	3	10	17	90	/	/	4.5°	○	●	
BBT40-SR04-90TRN	4	15	20	90	/	/	4.5°	●	●	
BBT40-SR05-90TRN	5	15	20	90	/	/	4.5°	○	●	
BBT40-SR06-90TRN	6	21	27	90	/	/	4.5°	●	●	
BBT40-SR06-120TRN	6	21	27	120	/	/	4.5°	●	●	
BBT40-SR06-160TRN	6	21	32	160	/	/	4.5°	●	●	
BBT40-SR08-90TRN	8	21	27	90	/	/	4.5°	●	●	
BBT40-SR08-120TRN	8	21	27	120	45	18	4.5°	●	●	
BBT40-SR08-160TRN	8	21	32	160	45	18	4.5°	●	●	
BBT40-SR10-90TRN	10	24	32	90	45	18	4.5°	●	●	
BBT40-SR10-120TRN	10	24	32	120	52	20	4.5°	●	●	
BBT40-SR10-160TRN	10	24	34	160	52	20	4.5°	●	●	
BBT40-SR12-90TRN	12	24	32	90	52	20	4.5°	●	●	
BBT40-SR12-120TRN	12	24	32	120	52	28	4.5°	●	●	
BBT40-SR12-160TRN	12	24	34	160	60	28	4.5°	●	●	
BBT40-SR14-90TRN	14	27	34	90	60	28	4.5°	○	●	
BBT40-SR14-120TRN	14	27	34	120	60	24	4.5°	○	●	
BBT40-SR14-160TRN	14	27	42	160	60	24	4.5°	○	●	
BBT40-SR16-90TRN	16	27	34	90	60	24	4.5°	●	●	
BBT40-SR16-120TRN	16	27	34	120	60	25	4.5°	●	●	
BBT40-SR16-160TRN	16	27	42	160	60	25	4.5°	●	●	
BBT40-SR18-90TRN	18	33	42	90	65	25	4.5°	○	●	
BBT40-SR18-120TRN	18	33	42	120	65	25	4.5°	○	●	
BBT40-SR18-160TRN	18	33	51	160	65	25	4.5°	○	●	
BBT40-SR20-90TRN	20	33	42	90	65	25	4.5°	●	●	
BBT40-SR20-120TRN	20	33	42	120	65	25	4.5°	●	●	
BBT40-SR20-160TRN	20	33	51	160	65	25	4.5°	●	●	
					65	25				
					65					
					65					

BBT40-SRS 热胀刀柄(薄壁型)
BBT40-SRS Shrink Fit Chuck



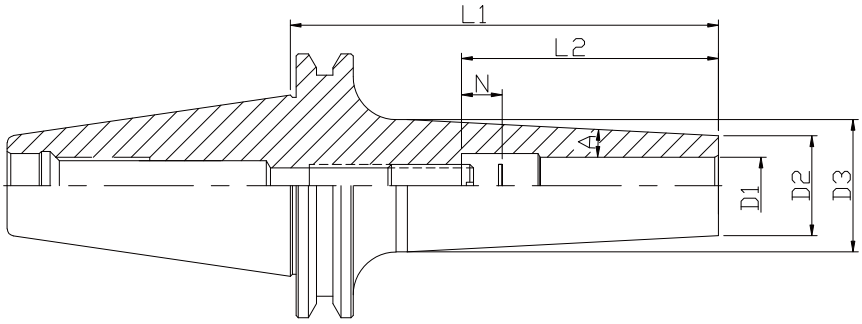


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BBT40-SRS03-90TRN	3	8	13	90	/	/	3°	○	●	
BBT40-SRS04-90TRN	4	10	16	90	/	/	3°	●	●	
BBT40-SRS04-120TRN	4	10	19	120	/	/	3°	●	●	
BBT40-SRS04-160TRN	4	10	23	160	/	/	3°	●	●	
BBT40-SRS06-90TRN	6	12	18	90	/	/	3°	●	●	
BBT40-SRS06-120TRN	6	12	21	120	/	/	3°	●	●	
BBT40-SRS06-160TRN	6	12	25	160	/	/	3°	●	●	
BBT40-SRS08-90TRN	8	14	20	90	45	18	3°	●	●	
BBT40-SRS08-120TRN	8	14	23	120	45	18	3°	●	●	
BBT40-SRS08-160TRN	8	14	27	160	45	18	3°	●	●	
BBT40-SRS10-90TRN	10	16	22	90	52	20	3°	●	●	
BBT40-SRS10-120TRN	10	16	25	120	52	20	3°	●	●	
BBT40-SRS10-160TRN	10	16	29	160	52	20	3°	●	●	
BBT40-SRS12-90TRN	12	18	24	90	60	28	3°	●	●	
BBT40-SRS12-120TRN	12	18	27	120	60	28	3°	●	●	
BBT40-SRS12-160TRN	12	18	31	160	60	28	3°	●	●	

ISO20-SRS 热胀刀柄（薄壁型）
ISO20-SRS Shrink Fit Chuck



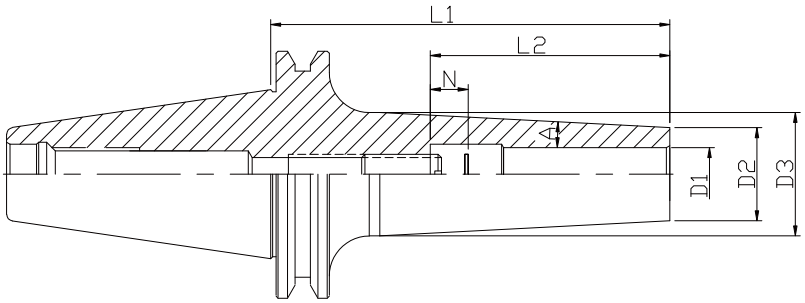


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
ISO20-SRS04-45TRN	4	10	13	45	/	/	3°	●	●	
ISO20-SRS06-45TRN	6	12	15	45	/	/	3°	●	●	
ISO20-SRS08-45TRN	8	14	17	45	45	18	3°	●	●	
ISO20-SRS10-50TRN	10	16	20	45	52	20	3°	●	●	

ISO25-SRS 热胀刀柄（薄壁型）
ISO25-SRS Shrink Fit Chuck



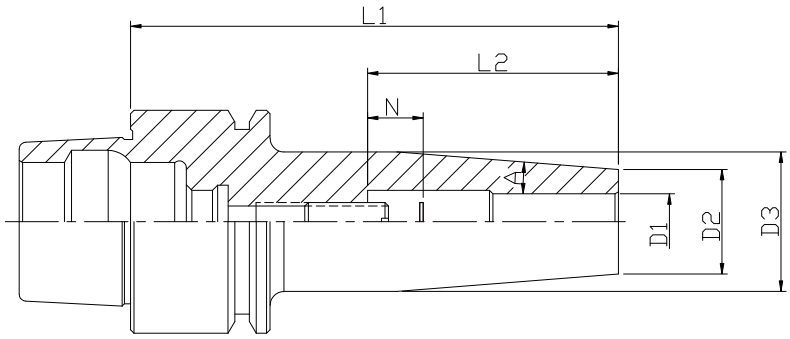


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
ISO25-SRS04-60TRN	4	10	14	60	/	/	3°	●	●	
ISO25-SRS04-90TRN	4	10	17	90	/	/	3°	●	●	
ISO25-SRS06-60TRN	6	12	16	60	/	/	3°	●	●	
ISO25-SRS06-90TRN	6	12	20	90	/	/	3°	●	●	
ISO25-SRS08-60TRN	8	14	18	60	45	18	3°	●	●	
ISO25-SRS08-90TRN	8	14	22	90	45	18	3°	●	●	
ISO25-SRS10-60TRN	10	16	20	60	52	20	3°	●	●	
ISO25-SRS10-90TRN	10	16	24	90	52	20	3°	●	●	
ISO25-SRS12-60TRN	12	18	23	60	60	28	3°	●	●	
ISO25-SRS12-90TRN	12	18	26	90	60	28	3°	●	●	

HSK32E-SR/SRS 热胀刀柄(厚壁型/薄壁型)
HSK32E-SR/SRS Shrink Fit Chuck

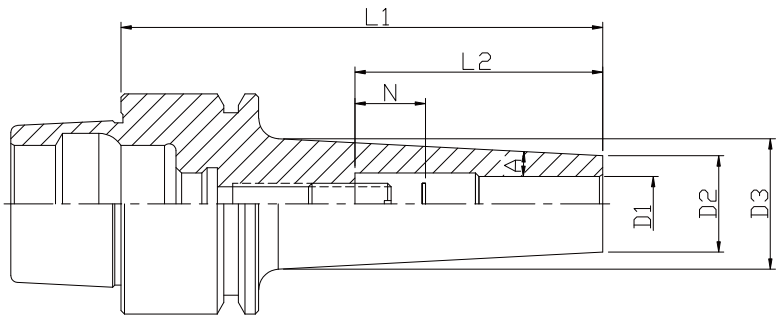




单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK32E-SR03-60TRN	3	10	17	60	/	/	4.5°	○	●	
HSK32E-SR04-60TRN	4	15	20	60	/	/	4.5°	●	●	
HSK32E-SR05-60TRN	5	15	20	60	/	/	4.5°	○	●	
HSK32E-SR06-70TRN	6	20	26	70	/	/	4.5°	●	●	
HSK32E-SR08-70TRN	8	20	26	70	45	18	4.5°	●	●	
HSK32E-SR10-70TRN	10	24	29	70	52	20	4.5°	●	●	
HSK32E-SR12-70TRN	12	24	29	70	60	28	4.5°	●	●	



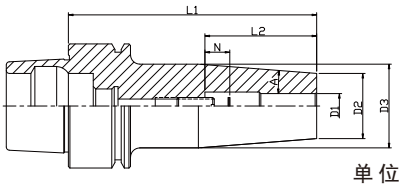


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK32E-SRS03-60TRN	3	8	11	60	/	/	3°	●	●	
HSK32E-SRS04-60TRN	4	10	14	60	/	/	3°	●	●	
HSK32E-SRS06-70TRN	6	12	17	60	/	/	3°	●	●	
HSK32E-SRS08-70TRN	8	14	19	70	45	18	3°	●	●	
HSK32E-SRS10-80TRN	10	16	22	80	52	20	3°	●	●	

HSK40E-SR 热胀刀柄(厚壁型)
HSK40E-SR Shrink Fit Chuck



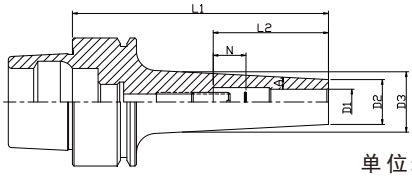


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK40E-SR03-60TRN	3	10	17	60	/	/	4. 5°	○	●	
HSK40E-SR03-80TRN	3	10	19	80	/	/	4.5°	○	●	
HSK40E-SR04-60TRN	4	15	20	60	/	/	4.5°	●	●	
HSK40E-SR04-80TRN	4	15	20	80	/	/	4.5°	●	●	
HSK40E-SR05-60TRN	5	15	20	60	/	/	4.5°	○	●	
HSK40E-SR05-80TRN	5	15	20	80	/	/	4.5°	○	●	
HSK40E-SR06-65TRN	6	21	27	65	/	/	4.5°	●	●	
HSK40E-SR06-80TRN	6	21	27	80	/	/	4.5°	●	●	
HSK40E-SR08-65TRN	8	21	27	65	45	18	4.5°	●	●	
HSK40E-SR08-80TRN	8	21	27	80	45	18	4.5°	●	●	
HSK40E-SR10-65TRN	10	24	30	65	52	20	4.5°	●	●	
HSK40E-SR10-80TRN	10	24	32	80	52	20	4.5°	●	●	
HSK40E-SR12-65TRN	12	24	30	65	60	28	4.5°	●	●	
HSK40E-SR12-90TRN	12	24	32	90	60	28	4.5°	●	●	
HSK40E-SR16-90TRN	16	27	34	90	65	25	4.5°	○	●	

HSK40E-SRS 热胀刀柄(薄壁型)
HSK40E-SRS Shrink Fit Chuck



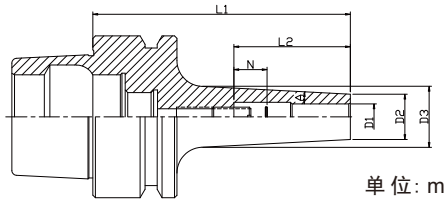


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK40E-SRS03-60TRN	3	8	11	60	/	/	3°	○	●	
HSK40E-SRS04-60TRN	4	10	14	60	/	/	3°	●	●	
HSK40E-SRS06-60TRN	6	12	16	60	/	/	3°	●	●	
HSK40E-SRS06-80TRN	6	12	18	80	/	/	3°	●	●	
HSK40E-SRS08-60TRN	8	14	18	60	45	18	3°	●	●	
HSK40E-SRS08-80TRN	8	14	20	80	45	18	3°	●	●	
HSK40E-SRS10-60TRN	10	16	20	60	52	20	3°	●	●	
HSK40E-SRS10-90TRN	10	16	23	90	52	20	3°	●	●	
HSK40E-SRS12-60TRN	12	18	22	60	60	28	3°	●	●	
HSK40E-SRS12-90TRN	12	18	25	90	60	28	3°	●	●	

HSK50E-SRS 热胀刀柄(薄壁型)
HSK50E-SRS Shrink Fit Chuck



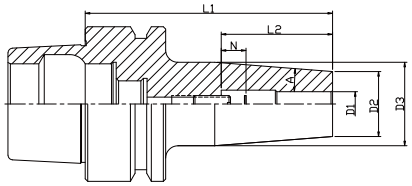


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK50E-SRS03-70TRN	3	8	11	70	/	/	3°	○	●	
HSK50E-SRS03-100TRN	3	8	15	100	/	/	3°	○	●	
HSK50E-SRS04-60TRN	4	10	13	60	/	/	3°	○	●	
HSK50E-SRS04-80TRN	4	10	15	80	/	/	3°	○	●	
HSK50E-SRS04-120TRN	4	10	19	120	/	/	3°	●	●	
HSK50E-SRS04-160TRN	4	10	23	160	/	/	3°	●	●	
HSK50E-SRS06-80TRN	6	12	17	80	/	/	3°	●	●	
HSK50E-SRS06-120TRN	6	12	21	120	/	/	3°	●	●	
HSK50E-SRS06-160TRN	6	12	25	160	/	/	3°	●	●	
HSK50E-SRS08-80TRN	8	14	19	80	45	18	3°	●	●	
HSK50E-SRS08-120TRN	8	14	23	120	45	18	3°	●	●	
HSK50E-SRS08-160TRN	8	14	27	160	45	18	3°	●	●	
HSK50E-SRS10-85TRN	10	16	22	85	52	20	3°	●	●	
HSK50E-SRS10-120TRN	10	16	25	120	52	20	3°	●	●	
HSK50E-SRS10-160TRN	10	16	29	160	52	20	3°	●	●	
HSK50E-SRS12-90TRN	12	18	24	90	60	28	3°	●	●	
HSK50E-SRS12-120TRN	12	18	27	120	60	28	3°	●	●	
HSK50E-SRS12-160TRN	12	18	31	160	60	28	3°	●	●	

HSK50E-SR 热胀刀柄(厚壁型)
HSK50E-SR Shrink Fit Chuck



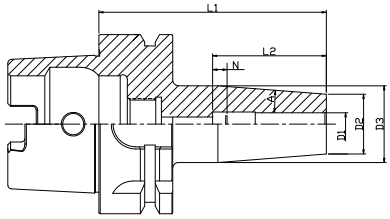


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK50E-SR03-80TRN	3	10	17	80	/	/	4. 5°	●	●	
HSK50E-SR04-60TRN	4	15	20	60	/	/	4.5°	○	●	
HSK50E-SR04-80TRN	4	15	20	80	/	/	4.5°	●	●	
HSK50E-SR04-120TRN	4	15	20	120	/	/	4.5°	●	●	
HSK50E-SR04-160TRN	4	15	25	160	/	/	4.5°	●	●	
HSK50E-SR05-80TRN	5	15	20	80	/	/	4.5°	●	●	
HSK50E-SR05-120TRN	5	15	20	120	/	/	4.5°	○	●	
HSK50E-SR05-160TRN	5	15	25	160	/	/	4.5°	○	●	
HSK50E-SR06-80TRN	6	21	27	80	/	/	4.5°	○	●	
HSK50E-SR06-120TRN	6	21	27	120	/	/	4.5°	●	●	
HSK50E-SR06-160TRN	6	21	32	160	/	/	4.5°	●	●	
HSK50E-SR08-80TRN	8	21	27	80	45	18	4.5°	●	●	
HSK50E-SR08-120TRN	8	21	27	120	45	18	4.5°	●	●	
HSK50E-SR08-160TRN	8	21	32	160	45	18	4.5°	●	●	
HSK50E-SR10-85TRN	10	24	32	85	52	20	4.5°	●	●	
HSK50E-SR10-120TRN	10	24	32	120	52	20	4.5°	●	●	
HSK50E-SR10-160TRN	10	24	34	160	52	20	4.5°	●	●	
HSK50E-SR12-90TRN	12	24	32	90	60	28	4.5°	●	●	
HSK50E-SR12-120TRN	12	24	32	120	60	28	4.5°	●	●	
HSK50E-SR12-160TRN	12	24	34	160	60	28	4.5°	●	●	
HSK50E-SR14-90TRN	14	27	34	90	60	24	4.5°	○	●	
HSK50E-SR14-120TRN	14	27	34	120	60	24	4.5°	○	●	
HSK50E-SR14-160TRN	14	27	34	160	60	24	4.5°	○	●	
HSK50E-SR16-95TRN	16	27	34	95	65	25	4.5°	●	●	
HSK50E-SR16-120TRN	16	27	34	120	65	25	4.5°	●	●	
HSK50E-SR16-160TRN	16	27	34	160	65	25	4.5°	●	●	
HSK50E-SR18-95TRN	18	33	42	95	65	25	4.5°	○	●	
HSK50E-SR20-100TRN	20	33	42	100	65	25	4.5°	●	●	

HSK50A-SR 热胀刀柄(厚壁型)
HSK50A-SR Shrink Fit Chuck



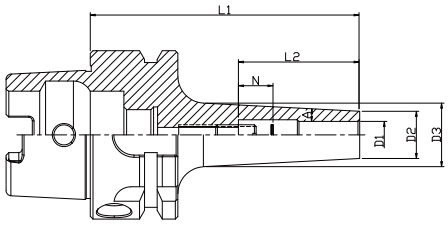


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK50A-SR03-80TRN	3	10	17	80	/	/	4.5°	○	●	
HSK50A-SR04-80TRN	4	15	20	80	/	/	4.5°	●	●	
HSK50A-SR04-120TRN	4	15	20	120	/	/	4.5°	●	●	
HSK50A-SR05-80TRN	5	15	20	80	/	/	4.5°	○	●	
HSK50A-SR06-80TRN	6	21	27	80	/	/	4.5°	●	●	
HSK50A-SR06-120TRN	6	21	27	120	/	/	4.5°	●	●	
HSK50A-SR08-80TRN	8	21	27	80	45	18	4.5°	●	●	
HSK50A-SR08-120TRN	8	21	27	120	45	18	4.5°	●	●	
HSK50A-SR10-85TRN	10	24	32	85	52	20	4.5°	●	●	
HSK50A-SR10-120TRN	10	24	32	120	52	20	4.5°	●	●	
HSK50A-SR12-90TRN	12	24	32	90	60	28	4.5°	●	●	
HSK50A-SR12-120TRN	12	24	32	120	60	28	4.5°	●	●	
HSK50A-SR14-90TRN	14	27	34	90	60	24	4.5°	○	●	
HSK50A-SR14-120TRN	14	27	34	120	60	24	4.5°	○	●	
HSK50A-SR16-95TRN	16	27	34	95	65	25	4.5°	●	●	
HSK50A-SR16-120TRN	16	27	34	120	65	25	4.5°	●	●	
HSK50A-SR18-95TRN	18	33	42	95	65	25	4.5°	○	●	
HSK50A-SR20-100TRN	20	33	42	100	65	25	4.5°	●	●	

HSK50A-SRS 热胀刀柄(薄壁型)
HSK50A-SRS Shrink Fit Chuck



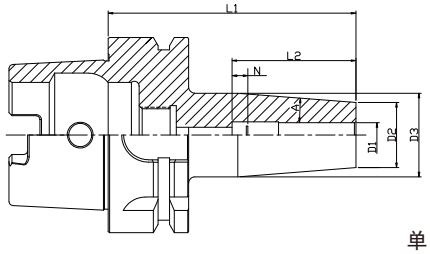


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK50A-SRS04-80TRN	4	10	15	80	/	/	3°	●	●	
HSK50A-SRS04-120TRN	4	10	19	120	/	/	3°	○	●	
HSK50A-SRS04-160TRN	4	10	23	160	/	/	3°	○	●	
HSK50A-SRS06-80TRN	6	12	17	80	/	/	3°	●	●	
HSK50A-SRS06-120TRN	6	12	21	120	/	/	3°	○	●	
HSK50A-SRS06-160TRN	6	12	25	160	/	/	3°	○	●	
HSK50A-SRS08-80TRN	8	14	19	80	45	18	3°	●	●	
HSK50A-SRS08-120TRN	8	6	23	120	45	18	3°	○	●	
HSK50A-SRS08-160TRN	8	6	27	160	45	18	3°	○	●	
HSK50A-SRS10-85TRN	10	16	22	85	52	20	3°	●	●	
HSK50A-SRS10-120TRN	10	16	25	120	52	20	3°	○	●	
HSK50A-SRS10-160TRN	10	16	29	160	52	20	3°	○	●	
HSK50A-SRS12-90TRN	12	18	24	90	60	28	3°	●	●	
HSK50A-SRS12-120TRN	12	18	27	120	60	28	3°	○	●	
HSK50A-SRS12-160TRN	12	18	31	160	60	28	3°	○	●	

HSK63A-SR 热胀刀柄(厚壁型)
HSK63A-SR Shrink Fit Chuck



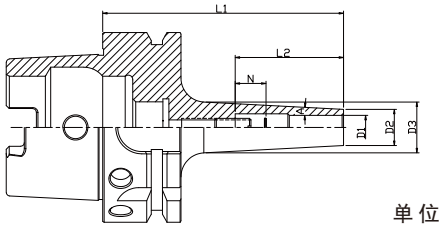


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK63A-SR03-80TRN	3	10	17	80	/	/	4.5°	○	●	
HSK63A-SR04-80TRN	4	15	20	80	/	/	4.5°	●	●	
HSK63A-SR04-120TRN	4	15	20	120	/	/	4.5°	●	●	
HSK63A-SR04-160TRN	4	15	25	160	/	/	4.5°	●	●	
HSK63A-SR05-80TRN	5	15	20	80	/	/	4.5°	○	●	
HSK63A-SR06-80TRN	6	21	27	80	/	/	4.5°	●	●	
HSK63A-SR06-120TRN	6	21	27	120	/	/	4.5°	●	●	
HSK63A-SR06-160TRN	6	21	32	160	/	/	4.5°	●	●	
HSK63A-SR08-80TRN	8	21	27	80	45	18	4.5°	●	●	
HSK63A-SR08-120TRN	8	21	27	120	45	18	4.5°	●	●	
HSK63A-SR08-160TRN	8	21	32	160	45	18	4.5°	●	●	
HSK63A-SR10-85TRN	10	24	32	85	52	20	4.5°	●	●	
HSK63A-SR10-120TRN	10	24	32	120	52	20	4.5°	●	●	
HSK63A-SR10-160TRN	10	24	34	160	52	20	4.5°	●	●	
HSK63A-SR12-90TRN	12	24	32	90	60	28	4.5°	●	●	
HSK63A-SR12-120TRN	12	24	32	120	60	28	4.5°	●	●	
HSK63A-SR12-160TRN	12	24	34	160	60	28	4.5°	●	●	
HSK63A-SR14-90TRN	14	27	34	90	60	24	4.5°	○	●	
HSK63A-SR14-120TRN	14	27	34	120	60	24	4.5°	○	●	
HSK63A-SR14-160TRN	14	27	42	160	60	24	4.5°	○	●	
HSK63A-SR16-95TRN	16	27	34	95	65	25	4.5°	●	●	
HSK63A-SR16-120TRN	16	27	34	120	65	25	4.5°	●	●	
HSK63A-SR16-160TRN	16	27	42	160	65	25	4.5°	●	●	
HSK63A-SR18-95TRN	18	33	42	95	65	25	4.5°	○	●	
HSK63A-SR18-120TRN	18	33	42	120	65	25	4.5°	○	●	
HSK63A-SR18-160TRN	18	33	51	160	65	25	4.5°	○	●	
HSK63A-SR20-100TRN	20	33	42	100	65	25	4.5°	●	●	
HSK63A-SR20-120TRN	20	33	42	120	65	25	4.5°	●	●	
HSK63A-SR20-160TRN	20	33	51	160	65	25	4.5°	●	●	

HSK63A-SRS 热胀刀柄（薄壁型）
HSK63A-SRS Shrink Fit Chuck



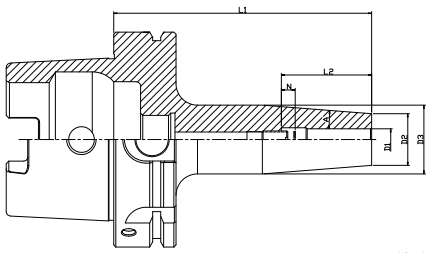


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK63A-SRS03-70TRN	3	8	11	70	/	/	3°	○	●	
HSK63A-SRS03-100TRN	3	8	15	100	/	/	3°	○	●	
HSK63A-SRS03-130TRN	3	8	18	130	/	/	3°	○	●	
HSK63A-SRS04-80TRN	4	10	15	80	/	/	3°	●	●	
HSK63A-SRS04-120TRN	4	10	19	120	/	/	3°	●	●	
HSK63A-SRS04-160TRN	4	10	24	160	/	/	3°	○	●	
HSK63A-SRS06-80TRN	6	12	17	80	/	/	3°	●	●	
HSK63A-SRS06-120TRN	6	12	21	120	/	/	3°	●	●	
HSK63A-SRS06-160TRN	6	12	26	160	/	/	3°	○	●	
HSK63A-SRS08-80TRN	8	14	19	80	45	18	3°	●	●	
HSK63A-SRS08-120TRN	8	14	23	120	45	18	3°	●	●	
HSK63A-SRS08-160TRN	8	14	28	160	45	18	3°	○	●	
HSK63A-SRS10-85TRN	10	16	22	85	52	20	3°	●	●	
HSK63A-SRS10-120TRN	10	16	25	120	52	20	3°	●	●	
HSK63A-SRS10-160TRN	10	16	30	160	52	20	3°	○	●	
HSK63A-SRS12-90TRN	12	18	24	90	60	28	3°	●	●	
HSK63A-SRS12-120TRN	12	18	27	120	60	28	3°	●	●	
HSK63A-SRS12-160TRN	12	18	32	160	60	28	3°	○	●	

HSK100A-SR 热胀刀柄（厚壁型）
HSK100A-SR Shrink Fit Chuck



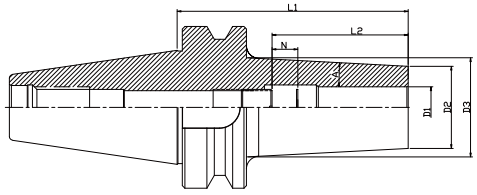


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK100A-SR06-85TRN	6	21	27	85	/	/	4.5°	●	●	
HSK100A-SR06-120TRN	6	21	27	120	/	/	4.5°	●	●	
HSK100A-SR06-160TRN	6	21	32	160	/	/	4.5°	●	●	
HSK100A-SR08-85TRN	8	21	27	85	45	18	4.5°	●	●	
HSK100A-SR08-120TRN	8	21	27	120	45	18	4.5°	●	●	
HSK100A-SR08-160TRN	8	21	32	160	45	18	4.5°	●	●	
HSK100A-SR10-90TRN	10	24	32	90	52	20	4.5°	●	●	
HSK100A-SR10-120TRN	10	24	32	120	52	20	4.5°	●	●	
HSK100A-SR10-160TRN	10	24	34	160	52	20	4.5°	●	●	
HSK100A-SR12-95TRN	12	24	32	95	60	28	4.5°	●	●	
HSK100A-SR12-120TRN	12	24	32	120	60	28	4.5°	●	●	
HSK100A-SR12-160TRN	12	24	34	160	60	28	4.5°	●	●	
HSK100A-SR14-95TRN	14	27	34	95	60	24	4.5°	○	●	
HSK100A-SR14-120TRN	14	27	34	120	60	24	4.5°	○	●	
HSK100A-SR14-160TRN	14	27	42	160	60	24	4.5°	○	●	
HSK100A-SR16-100TRN	16	27	34	100	65	25	4.5°	●	●	
HSK100A-SR16-120TRN	16	27	34	120	65	25	4.5°	●	●	
HSK100A-SR16-160TRN	16	27	42	160	65	25	4.5°	●	●	
HSK100A-SR18-100RN	18	33	42	100	65	25	4.5°	○	●	
HSK100A-SR18-120TRN	18	33	42	120	65	25	4.5°	○	●	
HSK100A-SR18-160TRN	18	33	51	160	65	25	4.5°	○	●	
HSK100A-SR20-105TRN	20	33	42	105	65	25	4.5°	●	●	
HSK100A-SR20-120TRN	20	33	42	120	65	25	4.5°	●	●	
HSK100A-SR20-160TRN	20	33	51	160	65	25	4.5°	●	●	

BT40-SRC 热胀刀柄(强力型)
BT40-SRC Shrink Fit Chuck





BT40-SRC

单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BT40-SRC12-95	12	26	33.13	95	60	28	3°	●	●	
BT40-SRC12-125	12	26	36.27	125	60	28	3°	○	●	
BT40-SRC12-155	12	26	39.42	155	60	28	3°	○	●	
BT40-SRC16-95	16	32	39.13	95	65	25	3°	●	●	
BT40-SRC16-125	16	32	42.27	125	65	25	3°	○	●	
BT40-SRC16-155	16	32	45.42	155	65	25	3°	○	●	
BT40-SRC20-95	20	38	45.13	95	65	25	3°	●	●	
BT40-SRC20-125	20	38	48.27	125	65	25	3°	○	●	
BT40-SRC20-155	20	38	51.42	155	65	25	3°	○	●	
BT40-SRC25-95	25	45	52.13	95	70	25	3°	●	●	
BT40-SRC25-125	25	45	55.27	125	70	25	3°	○	●	
BT40-SRC25-155	32	54	58.42	155	75	25	3°	○	●	

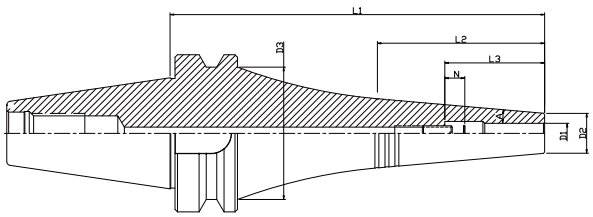
BT50-SRC

单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BT50-SRC12-110	12	26	33.55	110	60	28	3°	●	●	
BT50-SRC12-135	12	26	36.17	135	60	28	3°	○	●	
BT50-SRC12-165	12	26	39.31	165	60	28	3°	○	●	
BT50-SRC16-110	16	32	39.55	110	65	25	3°	●	●	
BT50-SRC16-135	16	32	42.17	135	65	25	3°	○	●	
BT50-SRC16-165	16	32	45.31	165	65	25	3°	○	●	
BT50-SRC20-110	20	38	45.55	110	65	25	3°	●	●	
BT50-SRC20-135	20	38	48.17	135	65	25	3°	○	●	
BT50-SRC20-165	20	38	51.31	165	65	25	3°	○	●	
BT50-SRC25-110	25	45	52.55	110	70	25	3°	●	●	
BT50-SRC25-140	25	45	55.69	140	70	25	3°	○	●	
BT50-SRC25-170	25	45	58.84	170	70	25	3°	○	●	
BT50-SRC32-110	32	54	61.55	110	75	25	3°	●	●	
BT50-SRC32-140	32	54	64.69	140	75	25	3°	○	●	
BT50-SRC32-170	32	54	67.84	170	75	25	3°	○	●	

BT40-SRV 热胀刀柄(增强型)
BT40-SRV Shrink Fit Chuck



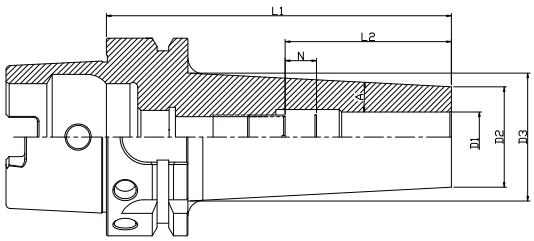


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
BT40-SRV04-150	4	12	53	150	67	/	/	●	●	
BT40-SRV04-180	4	12	53	180	67	/	/	○	●	
BT40-SRV04-210	4	12	53	210	67	/	/	○	●	
BT40-SRV06-150	6	14	53	150	67	/	/	●	●	
BT40-SRV06-180	6	14	53	180	67	/	/	○	●	
BT40-SRV06-210	6	14	53	210	67	/	/	○	●	
BT40-SRV08-150	8	16	53	150	67	45	18	●	●	
BT40-SRV08-180	8	16	53	180	67	45	18	○	●	
BT40-SRV08-210	8	16	53	210	67	45	18	○	●	
BT40-SRV10-150	10	18	53	150	67	52	20	●	●	
BT40-SRV10-180	10	18	53	180	67	52	20	○	●	
BT40-SRV10-210	10	18	53	210	67	52	20	○	●	
BT40-SRV12-150	12	20	53	150	67	60	28	●	●	
BT40-SRV12-180	12	20	53	180	67	60	28	○	●	
BT40-SRV12-210	12	20	53	210	67	60	28	○	●	

HSK63A-SRC 热胀刀柄(强力型)
HSK63A-SRC Shrink Fit Chuck

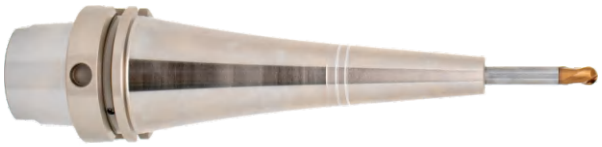


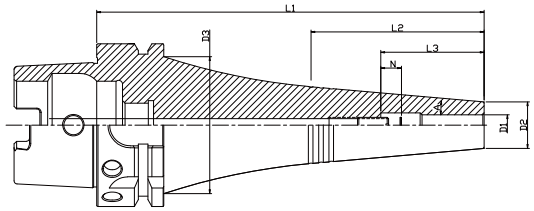


单位: mm

型 号 Model	D1	D2	D3	L1	L2	N	A	stock R	stock L	order Number
HSK63A-SRC12-105	12	26	34.28	105	60	28	3°	●	●	
HSK63A-SRC12-135	12	26	37.42	135	60	28	3°	○	●	
HSK63A-SRC12-155	12	26	39.52	155	60	28	3°	○	●	
HSK63A-SRC16-105	16	32	40.28	105	65	25	3°	●	●	
HSK63A-SRC16-135	16	32	43.42	135	65	25	3°	○	●	
HSK63A-SRC16-155	16	32	45.52	155	65	25	3°	○	●	
HSK63A-SRC20-120	20	38	47.85	120	65	25	3°	●	●	
HSK63A-SRC20-155	20	38	51.52	155	65	25	3°	○	●	
HSK63A-SRC25-125	25	45	55.38	125	70	25	3°	●	●	
HSK63A-SRC25-155	25	45	58.52	155	70	25	3°	○	●	
HSK100A-SRC12-110	12	26	34.49	110	60	28	3°	●	●	
HSK100A-SRC12-135	12	26	37.11	135	60	28	3°	○	●	
HSK100A-SRC12-165	12	26	40.25	165	60	28	3°	○	●	
HSK100A-SRC16-110	16	32	40.49	110	65	25	3°	●	●	
HSK100A-SRC16-135	16	32	43.11	135	65	25	3°	○	●	
HSK100A-SRC16-165	16	32	46.25	165	65	25	3°	○	●	
HSK100A-SRC20-110	20	38	46.49	110	65	25	3°	●	●	
HSK100A-SRC20-135	20	38	49.11	135	65	25	3°	○	●	
HSK100A-SRC20-165	20	38	52.25	165	65	25	3°	○	●	
HSK100A-SRC25-110	25	45	53.49	110	70	25	3°	●	●	
HSK100A-SRC25-170	25	45	59.78	170	70	25	3°	○	●	
HSK100A-SRC32-110	32	54	62.49	110	75	25	3°	●	●	
HSK100A-SRC32-170	32	54	68.78	170	75	25	3°	○	●	

HSK63A-SRV 热胀刀柄(增强型)
HSK63A-SRV Shrink Fit Chuck



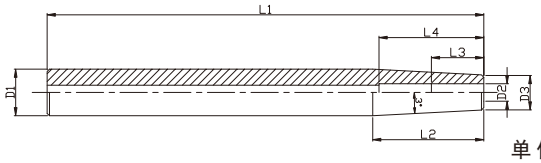


单位: mm

型 号 Model	D1	D2	D3	L1	L2	L3	N	A	stock R	stock L	order Number
HSK63A-SRV04-150	4	12	53	150	67	/	/	5°	●	●	
HSK63A-SRV04-180	4	12	53	180	67	/	/	5°	○	●	
HSK63A-SRV04-210	4	12	53	210	67	/	/	5°	○	●	
HSK63A-SRV06-150	6	14	53	150	67	/	/	5°	●	●	
HSK63A-SRV06-180	6	14	53	180	67	/	/	5°	○	●	
HSK63A-SRV06-210	6	14	53	210	67	/	/	5°	○	●	
HSK63A-SRV08-150	8	16	53	150	67	45	18	5°	●	●	
HSK63A-SRV08-180	8	16	53	180	67	45	18	5°	○	●	
HSK63A-SRV08-210	8	16	53	210	67	45	18	5°	○	●	
HSK63A-SRV10-150	10	18	53	150	67	52	20	5°	●	●	
HSK63A-SRV10-180	10	18	53	180	67	52	20	5°	○	●	
HSK63A-SRV10-210	10	18	53	210	67	52	20	5°	○	●	
HSK63A-SRV12-150	12	20	53	150	67	60	28	5°	●	●	
HSK63A-SRV12-180	12	20	53	180	67	60	28	5°	○	●	
HSK63A-SRV12-210	12	20	53	210	67	60	28	5°	○	●	

SW12/16/20/25-SRS钨钢抗震热胀延长杆（薄壁型）
SW12/16/20/25-SRS Aseismatic Shrink Fit Carbide Rod





SW12-SRS

单位: mm

型 号 Model	D1	D2	D3	L1	L2	L3	L4	stock R	stock L	order Number
SW12-SRS04-150TRE	12	4	10	150	19	12	35	○	●	
SW12-SRS04-200TRE	12	4	10	200	19	12	35	○	●	
SW12-SRS04-250TR	12	4	10	250	19	12	35	○	●	

SW16-SRS

型 号 Model	D1	D2	D3	L1	L2	L3	L4	stock R	stock L	order Number
SW16-SRS04-150TRE	16	4	10	150	57	12	47	○	●	
SW16-SRS04-200TRE	16	4	10	200	57	12	47	○	●	
SW16-SRS04-250TRE	16	4	10	250	57	12	47	○	●	
SW16-SRS04-300TRE	16	4	10	300	57	12	47	○	●	
SW16-SRS06-150TRE	16	6	12	150	38	18	35	○	●	
SW16-SRS06-200TRE	16	6	12	200	38	18	35	○	●	
SW16-SRS06-250TRE	16	6	12	250	38	18	35	○	●	
SW16-SRS06-300TRE	16	6	12	300	38	18	35	○	●	
SW16-SRS08-150TRE	16	8	14	150	19	24	40	○	●	
SW16-SRS08-200TRE	16	8	14	200	19	24	40	○	●	
SW16-SRS08-250TRE	16	8	14	250	19	24	40	○	●	
SW16-SRS08-300TRE	16	8	14	300	19	24	40	○	●	

SW20-SRS

型 号 Model	D1	D2	D3	L1	L2	L3	L4	stock R	stock L	order Number
SW20-SRS08-150TRE	20	8	14	150	57	24	45	○	●	
SW20-SRS08-200TRE	20	8	14	200	57	24	45	○	●	
SW20-SRS08-250TRE	20	8	14	250	57	24	45	○	●	
SW20-SRS08-300TRE	20	8	14	300	57	24	45	○	●	
SW20-SRS10-150TRE	20	10	16	150	38	30	45	○	●	
SW20-SRS10-200TRE	20	10	16	200	38	30	45	○	●	
SW20-SRS10-250TRE	20	10	16	250	38	30	45	○	●	
SW20-SRS10-300TRE	20	10	16	300	38	30	45	○	●	
SW20-SRS12-150TRE	20	12	18	150	19	32	50	○	●	
SW20-SRS12-200TRE	20	12	18	200	19	32	50	○	●	
SW20-SRS12-250TRE	20	12	18	250	19	32	50	○	●	
SW20-SRS12-300TRE	20	12	18	300	19	32	50	○	●	

SW25-SRS

型 号 Model	D1	D2	D3	L1	L2	L3	L4	stock R	stock L	order Number
SW25-SRS12-150TRE	25	12	18	150	67	32	54	○	●	
SW25-SRS12-200TRE	25	12	18	200	67	32	54	○	●	
SW25-SRS12-250TRE	25	12	18	250	67	32	54	○	●	
SW25-SRS12-300TRE	25	12	18	300	67	32	54	○	●	

ST12-SRS 热胀延长杆（薄壁型）
ST12-SRS Shrink Fit Extension

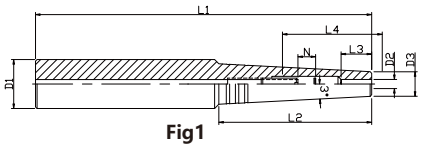


Fig1

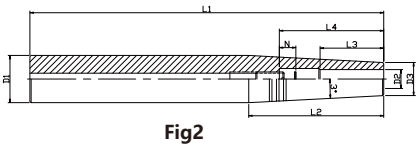


Fig2

单位: mm

型 号 Model	D1	D2	D3	L1	L2	L3	L4	N	Fig	stock R	stock L	order Number
ST12-SRS03-110TE	12	3	8	110	38	9	/	/	FIG2	●	●	
ST12-SRS03-150TE	12	3	8	150	38	9	/	/	FIG2	●	●	
ST12-SRS3.175-110TE	12	3. 175	8	110	38	10	/	/	FIG2	●	●	
ST12-SRS3.175-150TE	12	3. 175	8	150	38	10	/	/	FIG2	●	●	
ST12-SRS04-110TE	12	4	8	110	38	12	/	/	FIG2	●	●	
ST12-SRS04-150TE	12	4	8	150	38	12	/	/	FIG2	●	●	

ST16-SRS 热胀延长杆（薄壁型）
ST16-SRS Shrink Fit Extension



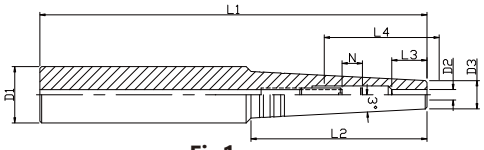


Fig1

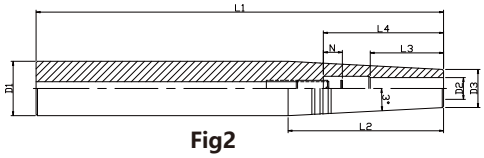


Fig2

单位：mm

型 号 Model	D1	D2	D3	L1	L2	L3	L4	N	Fig	stock R	stock L	order Number
ST16-SRS03-110TE	16	3	8	110	50	9	/	/	FIG1	●	●	
ST16-SRS03-150TE	16	3	8	150	76	9	/	/	FIG2	●	●	
ST16-SRS03-200TE	16	3	8	200	76	9	/	/	FIG2	●	●	
ST16-SRS3.175-110TE	16	3.175	8	110	50	10	/	/	FIG1	●	●	
ST16-SRS3.175-150TE	16	3.175	8	150	76	10	/	/	FIG2	●	●	
ST16-SRS3.175-200TE	16	3.175	8	200	76	10	/	/	FIG2	●	●	
ST16-SRS04-110TE	16	4	10	110	57	12	/	/	FIG2	●	●	
ST16-SRS04-150TE	16	4	10	150	57	12	/	/	FIG2	●	●	
ST16-SRS04-200TE	16	4	10	200	57	12	/	/	FIG2	●	●	
ST16-SRS06-110TE	16	6	12	110	38	18	/	/	FIG2	●	●	
ST16-SRS06-150TE	16	6	12	150	38	18	/	/	FIG2	●	●	
ST16-SRS06-200TE	16	6	12	200	38	18	/	/	FIG2	●	●	
ST16-SRS08-110TE	16	8	14	110	19	24	/	/	FIG2	●	●	
ST16-SRS08-150TE	16	8	14	150	19	24	/	/	FIG2	●	●	
ST16-SRS08-200TE	16	8	14	200	19	24	/	/	FIG2	●	●	

ST20-SRS 热胀延长杆（薄壁型）
ST20-SRS Shrink Fit Extension



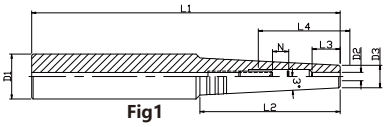


Fig1

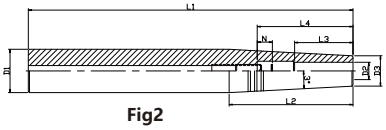


Fig2

单位：mm

型 号 Model	D1	D2	D3	L1	L2	L3	L4	N	Fig	stock R	stock L	order Number
ST20-SRS03-110TE	20	3	8	110	50	9	/	/	FIG1	●	●	
ST20-SRS03-150TE	20	3	8	150	90	9	/	/	FIG1	●	●	
ST20-SRS03-200TE	20	3	8	200	114	9	/	/	FIG2	●	●	
ST20-SRS03-250TE	20	3	8	250	114	9	/	/	FIG2	●	●	
ST20-SRS3.175-110TE	20	3.175	8	110	50	10	/	/	FIG1	●	●	
ST20-SRS3.175-150TE	20	3.175	8	150	90	10	/	/	FIG1	●	●	
ST20-SRS3.175-200TE	20	3.175	8	200	114	10	/	/	FIG2	●	●	
ST20-SRS3.175-250TE	20	3.175	8	250	114	10	/	/	FIG2	●	●	
ST20-SRS04-110TE	20	4	10	110	50	12	/	/	FIG1	●	●	
ST20-SRS04-150TE	20	4	10	150	95	12	/	/	FIG2	●	●	
ST20-SRS04-200TE	20	4	10	200	95	12	/	/	FIG2	●	●	
ST20-SRS04-250TE	20	4	10	250	95	12	/	//	FIG2	●	●	
ST20-SRS06-110TE	20	6	12	110	50	18	/	/	FIG1	●	●	
ST20-SRS06-150TE	20	6	12	150	76	18	/	/	FIG2	●	●	
ST20-SRS06-200TE	20	6	12	200	76	18	/	/	FIG2	●	●	
ST20-SRS06-250TE	20	6	12	250	76	18	/	/	FIG2	●	●	
ST20-SRS08-110TE	20	8	14	110	57	24	45	18	FIG2	●	●	
ST20-SRS08-150TE	20	8	14	150	57	24	45	18	FIG2	●	●	
ST20-SRS08-200TE	20	8	14	200	57	24	45	18	FIG2	●	●	
ST20-SRS08-250TE	20	8	14	250	57	24	45	18	FIG2	●	●	
ST20-SRS10-110TE	20	10	16	110	38	30	52	20	FIG2	●	●	
ST20-SRS10-150TE	20	10	16	150	38	30	52	20	FIG2	●	●	
ST20-SRS10-200TE	20	10	16	200	38	30	52	20	FIG2	●	●	
ST20-SRS10-250TE	20	10	16	250	38	30	52	20	FIG2	●	●	
ST20-SRS12-110TE	20	12	18	110	19	32	60	28	FIG3	●	●	
ST20-SRS12-150TE	20	12	18	150	19	32	60	28	FIG3	●	●	
ST20-SRS12-200TE	20	12	18	200	19	32	60	28	FIG3	●	●	
ST20-SRS12-250TE	20	12	18	250	19	32	60	28	FIG3	●	●	

ST16-SRS 热胀延长杆（薄壁型）
ST16-SRS Shrink Fit Extension

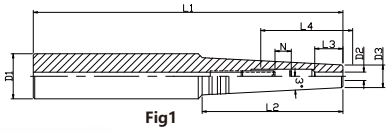


Fig1

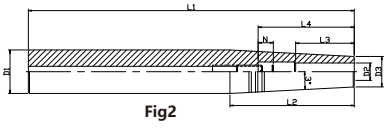


Fig2



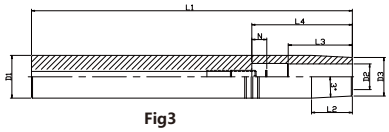


Fig3

单位：mm

型 号 Model	D1	D2	D3	L1	L2	L3	L4	N	Fig	stock R	stock L	order Number
ST25-SRS06-110TE	25	6	12	110	50	18	/	/	FIG1	●	●	
ST25-SRS06-150TE	25	6	12	150	90	18	/	/	FIG1	●	●	
ST25-SRS06-200TE	25	6	12	200	124	18	/	/	FIG2	●	●	
ST25-SRS06-250TE	25	6	12	250	124	18	/	/	FIG2	●	●	
ST25-SRS08-110TE	25	8	14	110	50	24	45	18	FIG1	●	●	
ST25-SRS08-150TE	25	8	14	150	90	24	45	18	FIG1	●	●	
ST25-SRS08-200TE	25	8	14	200	105	24	45	18	FIG2	●	●	
ST25-SRS08-250TE	25	8	14	250	105	24	45	18	FIG2	●	●	
ST25-SRS10-110TE	25	10	16	110	50	30	52	20	FIG1	●	●	
ST25-SRS10-150TE	25	10	16	150	85	30	52	20	FIG2	●	●	
ST25-SRS10-200TE	25	10	16	200	85	30	52	20	FIG2	●	●	
ST25-SRS10-250TE	25	10	16	250	85	30	52	20	FIG2	●	●	
ST25-SRS12-110TE	25	12	18	110	50	32	60	28	FIG1	●	●	
ST25-SRS12-150TE	25	12	18	150	67	32	60	28	FIG2	●	●	
ST25-SRS12-200TE	25	12	18	200	67	32	60	28	FIG2	●	●	
ST25-SRS12-250TE	25	12	18	250	67	32	60	28	FIG2	●	●	

薄壁型热胀机
Shrink Fit Heating Machine

H2800



单位：mm

型 号 Model	加热能力 Heatingrang	尺寸 Size	刀柄最大外径 Maximum diameter	电源 Supply	电流 Current	重量 Weight	stock R	stock L	order Number
H2800	3-12mm	480x435x870mm	20mm	AC220	12.5A	22KG	●	●	

特 点: Features:

- 机身轻便，占地空间小；
- AC 220V电压；
- 操作简便，性价比高；
- 可烧结柄径为 φ3-φ12

- Easy to operate, highly cost-effective;
- AC 220V voltage;
- The body is light and covers a small space;
- Sinterable shank diameter φ3-φtwelve

选配件 Options:

类型 TYPE	型号 MODEL	D	
刀具卡簧 Clamp Spring	HSB-D	3/4/5/6/8/10/12	 φ3-φ20 铣刀尺寸
装刀钳 Cutter tongs	HEM-LH6		
卡簧钳 Circlip Pliers	HEM-KH6		
隔热手套 Oven Glove	HEM-GT		
转换套 Conversion Sleeve	HEM-BT15 HEM-BT30 HEM-BT50-HSK100 HEM-HSK32-HSK25 HEM-HSK50-HSK40 HEM-HSK63-BT40 HEM-ISO10 HEM-ISO25-ISO20 HEM-YCG HEM-XKP		 

热胀机
Shrink Fit Heating Machine

H2800A



单位: mm

型 号 Model	加热能力 Heatingrange	尺寸 Size	刀柄最大外径 Maximum diameter	电源 Supply	电流 Current	重量 Weight	stock R	stock L	order Number
H2800	3-12mm	480x435x870mm	42mm	AC220	12.5A	22KG	●	●	

选配件 Options:

类型 TYPE	型号 MODEL	D
刀具卡簧 Clamp Spring	HSB-D	3/4/5/6/8/10/12
装刀钳 Cutter tongs	HEM-LH6	
卡簧钳 Circlip Pliers	HEM-KH6	
隔热手套 Oven Glove	HEM-GT	
转换套 Conversion Sleeve	HEM-BT30 HEM-BT50-HSK100 HEM-HSK32-ISO10 HEM-HSK50-HSK40 HEM-HSK63-BT40 HEM-ISO25-ISO20 HEM-YCG HEM-XKP	

特 点: Features:

- 操作简便,性价比高;
- AC 220V~240V电压;
- 机身轻便，占地空间小;
- 可烧结柄径为 ϕ3-ϕ20
- Easy to operate, highly cost-effective;
- AC 220V~240V voltage;
- The body is light and covers a small space;
- Sinterable shank diameter ϕ3-ϕ20twelve

全自动智能水冷热胀机
Shrink Fit Heating Machine



单位: mm

型 号 Model	加热能力 Heatingrange	尺寸 Size	电源 Supply	电流 Current	重量 Weight	stock R	stock L	order Number
FAX-15	3-20mm	950x710x930mm	AC220	12.5A	22KG	●	●	

选配件 Options:

类型 TYPE	型号 MODEL	说明 ACCOUNTFOR
装刀钳 Cutter tongs	HEM-LH6	标配
隔热手套 Oven Glove	HEM-GT	标配
转换套 Conversion Sleeve	FAX-BT50 FAX-BT40/BT30 FAX-HSK100/HSK63/HSK50/HSK40	标配 选配 选配
定位环 Locating Ring	SR3-5.9 SR6-12 SR12.1-22 SR22.1-32	标配 标配 标配 选配
刀长限位器 Position Limiter	DCXW3-6 DCXW6.1-12	标配 标配

适用于厚壁型、强力型

特 点: Features:

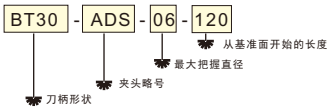
- 全自动智能加热水冷一体设计;
- 合金钢材、不锈钢材一机通烧;
- 精准加热千次不发黑，有效减少积碳，保证夹持精度延长刀柄使用寿命;
- 机头自带冷却模块，可二十四小时连续工作;
- 2秒加热，15秒冷却;
- 操作更安全、更智能。
- Integrated Design of automatic intelligent heating andwater cooling
- Alloy steel and stainless steel are burned in one machine.
- Accurate heating 1000 times without blackening,effectively reduce carbon deposition, ensure clamping accuracy to extend the service life of the tool holder.
- The head comes with its own cooling module, which canwork continuously for twenty-four 24 hours
- Two seconds to heat,15 seconds to cool.
- Safer and more intelligent operation.

BT-ADS 后拉式刀柄
BT-ADS COLLET CHUCK



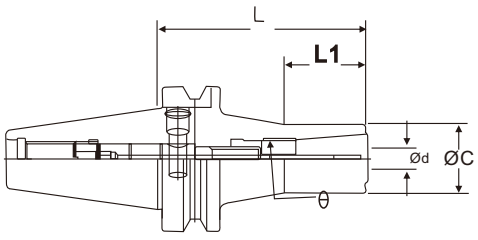
◆ 侧面锁紧，免卸拉钉，方便实用
◆ Side of the lock,to avoid dumping pull nails, convenient and practical

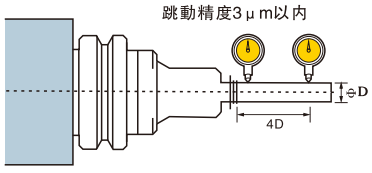
型号说明 Model explanation

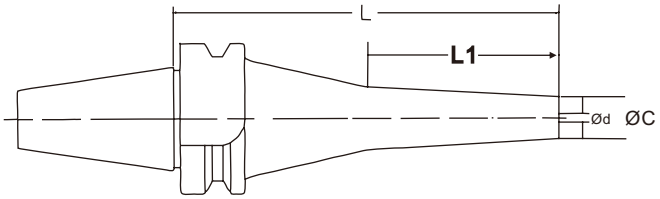


G2.5 MAX.30,000min⁻¹
◆ 跳动精度 0. 003mmm
◆ beating accuracy 0. 003mmm





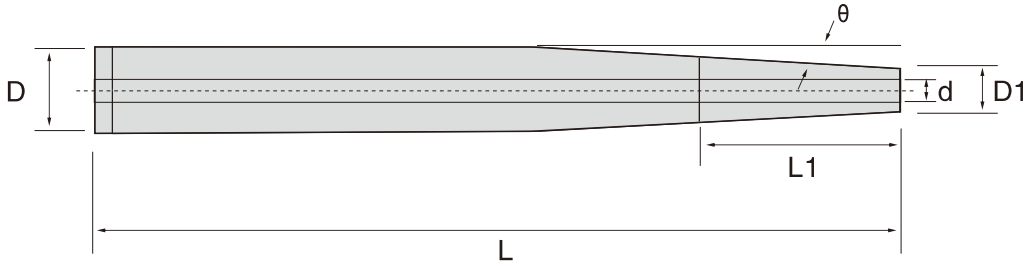




订购编号 Order No.	型号 Cat No.	d	L	C	L1	筒夹 Collet	扳手 Spsmmer 标配品	θ	重量 Weight(KG)	单价 PRICE (RMB)
301900	BT30-ADS06-60	2.0-6.0	60	13	-	ADS06	T4	6°	0.45	900
301902	-ADS06-90		90		-				0.55	950
301904	-ADS06-120		120		-				0.7	1000
301906	-ADS10-90	3.0-10.0	90	22	36	ADS10	T4	6°	0.6	1000
301908	-ADS10-105		105		35				0.7	1200
301910	-ADS12-80	3.0-12.0	80	30	35	ADS12	T4	6°	0.8	1000
301912	-ADS20-80	3.0-20.0	80	-	35	ADS20	T6	6°	0.8	1100
301914	-ADS20-100		100		50				1.2	1300
301916	BT40-ADS06-90	2.0-6.0	90	13	-	ADS06	T4	6°	1.2	1200
301918	-ADS06-120		120		-				1.5	1400
301920	-ADS06-150		150		-				1.9	1600
301922	-ADS08-90	2.0-8.0	90	13	-	ADS08	T4	6°	1.2	1200
301924	-ADS08-120		120		-				1.5	1400
301926	-ADS10-85	3.0-10.0	85	22	35	ADS10	T4	6°	1.3	1200
301928	-ADS10-120		120		40				1.6	1400
301930	-ADS12-70	3.0-12.0	70	30	35	ADS12	T4	6°	1.2	1200
301932	-ADS12-90		90		40				1.6	1300
301934	-ADS12-120		120		50				1.9	1400
301936	-ADS16-95	3.0-16.0	95	-	35	ADS16	T5	6°	1.7	1250
301938	-ADS16-125		125		40				2.0	1500
301940	-ADS20-80	3.0-20.0	80	-	35	ADS20	T6	6°	1.9	1300
301942	-ADS20-100		100		40				2.2	1600
301944	BT50-ADS08-95	2.0-8.0	95	13	-	ADS08	T4	6°	4.1	2200
301946	-ADS08-110		110		-				4.5	2700
301948	-ADS10-105	3.0-10.0	105	22	35	ADS10	T4	6°	4.1	2200
301950	-ADS10-135		135		40				4.4	2700
301952	-ADS10-165		165		50				4.8	2900
301954	-ADS12-105	3.0-12.0	105	30	35	ADS12	T4	6°	4.2	2200
301956	-ADS12-135		135		40				4.5	2700
301958	-ADS12-165		165		50				4.9	2900
301960	-ADS16-100	3.0-16.0	100	-	35	ADS16	T5	6°	4.3	2200
301962	-ADS16-125		125		40				4.6	2700
301964	-ADS20-80	3.0-20.0	80	-	35	ADS20	T6	6°	4.5	2200
301966	-ADS20-100		100		40				4.9	2700

后拉式延长杆
EXTENSION ROD AFTER PULL





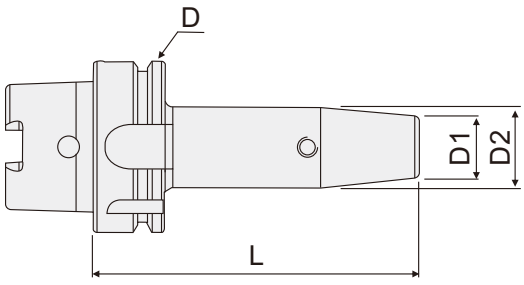
订购编号 Order No.	型号 Cat. No	d	L	L1	D	D1	θ	筒夹 Collet	扳手 Spsmmer 标配品	单价 PRICE (RMB)
302100	C08-CS04-100	2-4	100	36	8	8.0	6°	CS04	T4	2100
302102	C10-CE04-100	2-4	100	36	10	10.0	6°	CE04	T4	2200
302104	150	2-4	150	36	10	10.0				2500
302106	150S	2-4	150	36	10	8.2				2500
302108	C12-CE04-150S	2-4	150	36	12	9.7				3000
302110	C12-ADS06-100	2-6	100	36	12	12.0	6°	ADS06	T4	2600
302112	150	2-6	150	36	12	12.0				2800
302114	150L	2-6	150	36	12	12.0				2800
302116	C16-ADS06-150S	2-6	150	50	16	12.4				4000
302118	150L	2-6	150	50	16	12.4				4000
302120	200S	2-6	200	50	16	12.4				4600
302122	200L	2-6	200	50	16	12.4				4600
302124	C20-ADS10-150	3-10	150	50	20	20.0	6°	ADS10	T4	5600
302126	200	3-10	200	50	20	20.0				6600

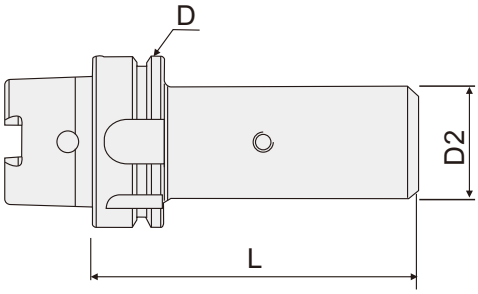
HSK-ADS后拉式刀柄
HSK-ADS COLLET CHUCK



特　点：

- 后拉式刀把采用后拉式筒夹夹持，适用于高速精密之加工。
- 刀具置入筒夹内孔，必须超出筒夹内孔有效夹持长度，避免不当锁固，造成损坏。
- 搭配HSK两面拘束，可增加侧向加工的稳定性。





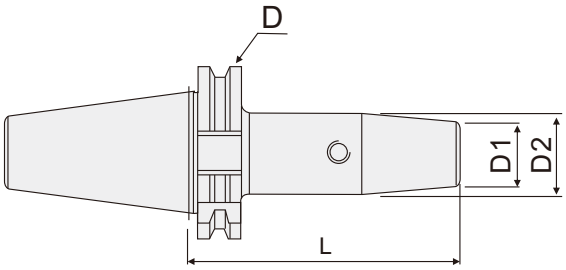
订购编号 Order No.	型 号 Cat. No	L	ØD	ØD1	ØD2	FIG.图	价格 Price
302200	HSK50A-ADS06-105	105	50	23	30	1	2050
302202	HSK50A-ADS06-120	120	50	23	30	1	2080
302204	HSK50A-ADS12-120	120	50	-	34	2	2110
302206	HSK50A-ADS12-120	130	50	-	34	2	2150
302208	HSK50A-ADS20-130	130	50	-	42	2	2180
302210	HSK50A-ADS20-150	150	50	-	42	2	2210
302212	HSK63A-ADS06-110	110	63	23	30	1	2050
302214	HSK63A-ADS06-120	120	63	23	30	1	2080
302216	HSK63A-ADS12-120	120	63	-	42	2	2110
302218	HSK63A-ADS12-150	150	63	-	42	2	2150
302220	HSK63A-ADS20-130	130	63	-	42	2	2180
302222	HSK63A-ADS20-140	140	63	-	42	2	2210

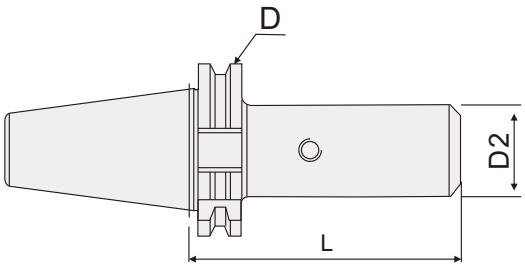
SK-ADS后拉式刀柄
SK-ADS COLLET CHUCK



特　点：

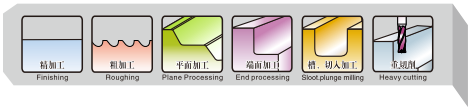
- 后拉式刀把采用后拉式筒夹夹持，适用于高速精密之加工。
- 刀具置入筒夹内孔，必须超出筒夹内孔有效夹持长度，避免不当锁固，造成损坏。





订购编号 Order No.	型 号 Cat. No	L	ØD	ØD1	ØD2	FIG.图	价格 Price
302300	SK30-ADS06-70	70	50	23	30	1	1860
302302	SK30-ADS06-100	100	50	23	30	1	2050
302304	SK30-ADS12-80	80	50	-	34	2	1760
302306	SK30-ADS12-100	100	50	–	34	2	1910
302308	SK30-ADS20-80	80	50	–	42	2	1780
302310	SK30-ADS20-100	100	50	–	42	2	1930
302312	SK40-ADS06-70	70	63.55	23	30	1	2060
302314	SK40-ADS06-100	100	63.55	23	30	1	2260
302316	SK40-ADS12-80	80	63.55	-	34	2	1950
302318	SK40-ADS12-100	100	63.55	–	34	2	2110
302320	SK40-ADS20-80	80	63.55	–	42	2	1980
302322	SK40-ADS20-100	100	63.55	–	42	2	2150
302324	SK50-ADS06-70	70	97.5	23	30	1	3810
302326	SK50-ADS06-100	100	97.5	23	30	1	4210
302328	SK50-ADS12-70	70	97.5	-	34	2	3660
302330	SK50-ADS12-100	100	97.5	–	34	2	4030
302332	SK50-ADS20-80	80	97.5	–	42	2	3710
302334	SK50-ADS20-100	100	97.5	–	42	2	4100

BT-C强力型刀柄
BT-C MULTI-LOCK MILL CHUCK



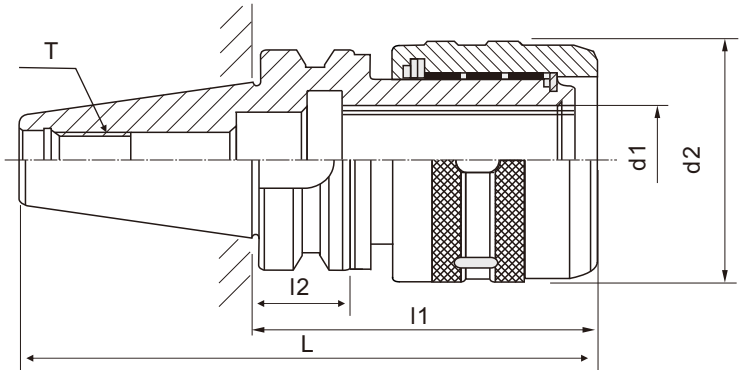
特　点：

- 开槽:刀杆内孔开槽(分割6槽)，以防止滑动，并加大夹持力。
- 滚针轴承：采用两线装置，确保滑动至针锥面时滚动摩擦及脱落减至最小。
- 防水及防尘，夹紧后端面接触。
- 此设计结构不会过分紧固而损伤夹头。
- 密封式结构，以消除污垢和碎片损害夹头。
  动平衡可以达到G6.3，8000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。



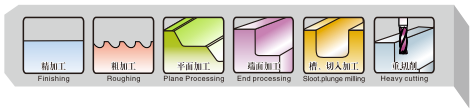






订购编号 Order No.	型 号 Model	L	l1	l2	d1	d2	T	价格 Price
302400	BT30-C20-80	128.4	80	20	20	55	M12x1.75	1200
302402	BT40-C20-80	145.4	80	25	32	68.5	M16x2.0	1200
302404	BT40-C20-100	165.4	100	25	32	68.5		1200
302406	BT40-C20-135	200.4	135	25	32	68.5		1500
302408	BT40-C20-80	145.4	80	25	32	68.5		1200
302410	BT40-C25-100	165.4	100	25	32	68.5		1200
302412	BT40-C32-90	155.4	90	25	32	68.5		1200
302414	BT40-C32-105	170.4	105	25	32	68.5		1200
302416	BT40-C32-135	200.4	135	25	32	68.5		1500
302418	BT50-C32-110	211.8	110	35	32	68.5	M24x3.0	1875
302420	BT50-C32-135	236.8	135	35	32	68.5		2175
302422	BT50-C32-165	266.8	165	35	32	68.5		2625
302424	BT50-C32-200	301.8	200	35	32	68.5		3750
302426	BT50-C42-110	211.8	110	35	42	92		2250

DAT-C强力型刀柄
DAT-C MULTI-LOCK MILL CHUCK

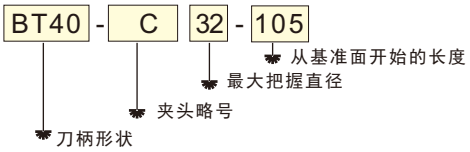


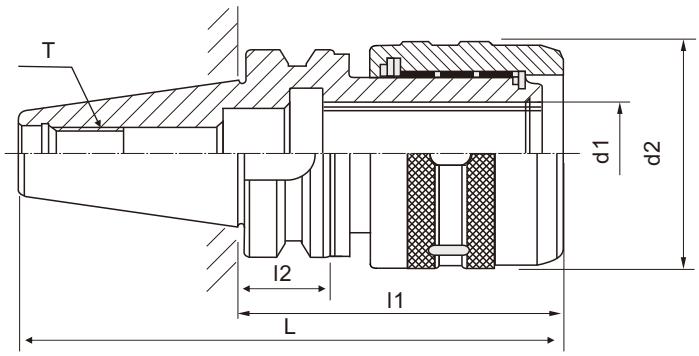
特 点：

- 高精确的工作流程，即使使用加长型钻头，同心度仍然在0.015mm。
- 适用于扁尾型莫氏锥柄钻头。



型号说明 Model explanation



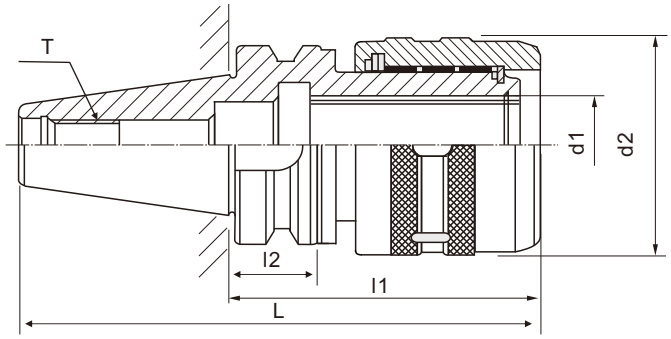


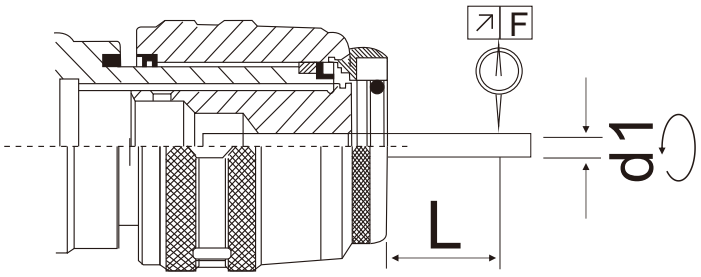
订购编号 Order No.	型 号 Model	L	l1	l2	d1	d2	T	价格 Price
302500	DAT30-C20-80	127.8	80	19.1	20	55	M12x1.75	3188
302502	DAT40-C20-80	148.4	80	19.1	32	68.5	M16x2.0	3269
302504	DAT40-C20-100	168.4	100	19.1	32	68.5		
302506	DAT40-C20-135	203.4	135	19.1	32	68.5		
302508	DAT40-C25-80	148.4	80	19.1	32	68.5		3269
302510	DAT40-C25-100	168.4	100	19.1	32	68.5		
302512	DAT40-C32-90	158.4	90	19.1	32	68.5		
302514	DAT40-C32-105	173.4	105	19.1	32	68.5		3556
302516	DAT40-C32-135	203.4	135	19.1	32	68.5		4806
302518	DAT50-C32-110	211.75	110	19.1	32	68.5	M24x3.0	
302520	DAT50-C32-135	236.75	135	19.1	32	68.5		
302522	DAT50-C32-165	266.75	165	19.1	32	68.5		
302524	DAT50-C32-200	301.75	200	19.1	32	68.5		
302526	DAT50-C42-110	211.75	110	19.1	42	92		5238

BT-MLT强力型刀柄

BT-MLT MULTI-LOCK MILL CHUCK







特　点：

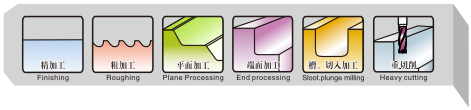
- 防水及防尘，夹紧后端面接触。
- 此设计结构不会过分紧固而损伤夹头。
- 密封式结构，以消除污垢和碎片损害夹头。
- 动平衡可以达到G6.3，8000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

d1 END MILL DIAMETER	6	8	10	12	16	20	25	32	42
L END MILLLENGTH	25	30	30	40	40	50	50	60	60
F CONCENTRICITY	0.02								

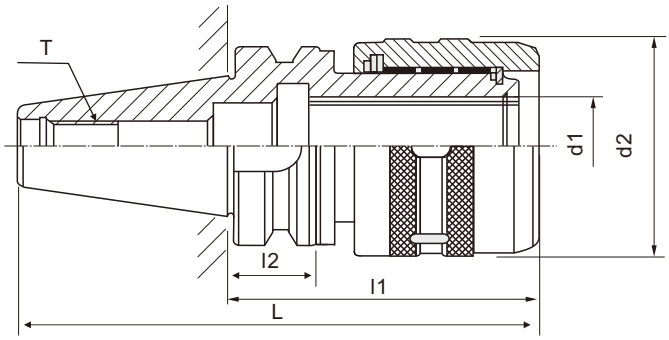
L	MLT20	60
	MLT32	80
	MLT40	100
F CONCENTRICITY		0.001-0.005

订购编号 Order No.	型 号 Model	L	l1	d1	d2	重量 WG	价格 Price
302600	BT30-MLT20-75	123.4	75	20	55	1.8kg	2244
302602	BT30-MLT20-90	138.4	90			2.0kg	2294
302604	BT40-MLT20-80	145.4	80	20	55	2.3kg	2769
302606	BT40-MLT20-100	165.4	100			2.5kg	2844
302608	BT40-MLT20-135	200.4	135			2.7kg	3056
302610	BT40-MLT32-90	155.4	90	32	73	2.7kg	3050
302612	BT40-MLT32-105	170.4	105			3.0kg	3131
302614	BT40-MLT32-135	200.4	135			3.0kg	3338
302616	BT50-MLT20-105	206.4	105	20	55	4.5kg	4038
302618	BT50-MLT20-150	251.8	150			4.9kg	4556
302620	BT50-MLT32-110	211.8	110	32	73	5.2kg	4331
302622	BT50-MLT32-135	236.8	135			5.9kg	4594
302624	BT50-MLT32-165	266.8	165			6.6kg	4956
302626	BT50-MLT42-110	211.8	110	42	95	6.0kg	4756
302628	BT50-MLT42-130	231.8	130			6.5kg	5000
302630	BT50-MLT42-165	266.8	165			7.4kg	5425

DAT-MLT强力型刀柄
DAT-MLT MULTI-LOCK MILL CHUCK







特　点：

- 防水及防尘，夹紧后端面接触
- 此设计结构不会过分紧固而损伤夹头
- 密封式结构，以消除污垢和碎片损害夹头
- 动平衡可以达到G6.3，8000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

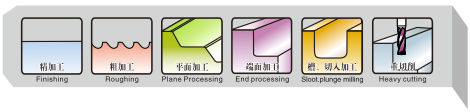
d1 END MILL DIAMETER	6	8	10	12	16	20	25	32	42
L END MILLLENGTH	25	30	30	40	40	50	50	60	60
F CONCENTRICITY	0.02								

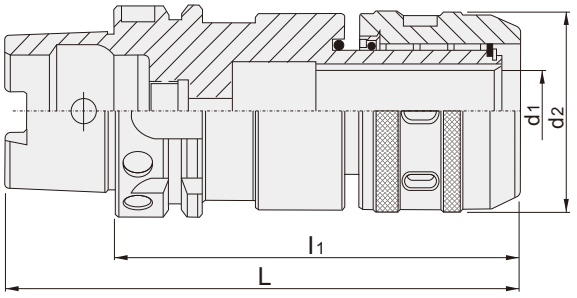
L	MLT20	60
	MLT32	80
	MLT40	100
F CONCENTRICITY		0.001~0.005

订购编号 Order No.	型 号 Model	L	l1	d1	d2	重量 WG	价格 Price
302700	DAT30-MLT20-85	132.8	85	20	55	1.9kg	2150
302702	DAT30-MLT20-100	147.8	100			2.1kg	2188
302704	DAT40-MLT20-85	153.4	85			2.4kg	2413
302706	DAT40-MLT20-100	168.4	100			2.5kg	2519
302708	DAT40-MLT20-135	203.4	135			2.8kg	2663
302710	DAT40-MLT32-105	173.4	105	32	73	2.7kg	2806
302712	DAT40-MLT32-135	203.4	135			3.0kg	2919
302714	DAT50-MLT20-105	206.75	105	20	55	4.5kg	3069
302716	DAT50-MLT20-150	251.75	150			4.9kg	3369
302718	DAT50-MLT32-105	206.75	105	32	73	5.1kg	3294
302720	DAT50-MLT32-135	236.75	135			5.9kg	3331
302722	DAT50-MLT40-110	211.75	110	42	95	6.0kg	3788

HSK-MLT强力型刀柄
HSK-MLT MULTI-LOCK MILL CHUCK







特　点：

- 防水及防尘，夹紧后端面接触
- 此设计结构不会过分紧固而损伤夹头
- 密封式结构，以消除污垢和碎片损害夹头
- 刀具置入筒夹内孔，必须超出筒夹内孔有效夹持长度，避免不当锁固，造成损坏。
- 务必使用正确扳手来装置，不可任意改变，避免不当锁固，造成损坏。
- 动平衡可以达到G6.3，8000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

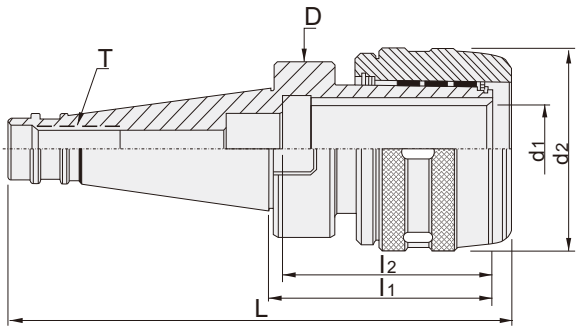
d1 END MILL DIAMETER	6	8	10	12	16	20	25	32	42
L END MILLLENGTH	25	30	30	40	40	50	50	60	60
F CONCENTRICITY	0.02								

L	MLT20	60
	MLT32	80
	MLT40	100
F CONCENTRICITY		0.001~0.005

订购编号 Order No.	型 号 Model	L	l1	d1	d2	重量 WG	价格 Price
302800	HSK50A-MLT20-120	140	120	20	55	1.62kg	2388
302802	HSK63A-MLT20-90	122	90			1.52kg	2556
302804	HSK63A-MLT20-120	152	120			1.68kg	2663
302806	HSK63A-MLT32-105	137	105	32	73	1.60kg	2838
302808	HSK63A-MLT32-120	152	120			1.76kg	2931
302810	HSK63A-MLT32-150	182	150			1.92kg	3025
302812	HSK63A-MLT42-135	167	135	42	95	1.82kg	4919

NT-MLC强力型刀柄
NT-MLC MULTI-LOCK MILL CHUCK





特　点：

- 固定器：采用高力黄铜固定器引导滚针轴承，使滑动更完美。
- 油脂：使用了特殊的液压油，不会凝固。

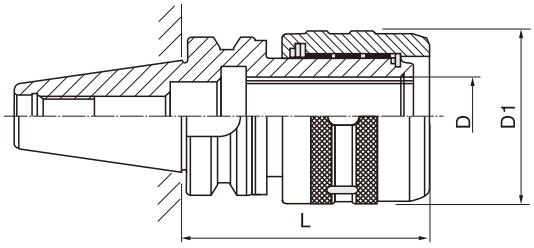
订购时，请确认拉杆螺丝规格为公制或英制。

单位：mm

订购编号 Order No.	型 号 Model	L	l2	D	d1	d2	T	重量 WG	价格 Price
302900	NT30-MLC20-62.5	130.9	65	49	20	55	M12(M12*1.75P),A04(1/2"-12)	1.9kg	1781
302902	NT40-MLC20-62.5	155.9	70	63			M16(M16*2.0P),A06(5/8"-11)	2.3kg	2031
302904	R8-MLC20-62.5	163.5	85	55			7/16"-20	1.9kg	1806
302906	MTB4-MLC32-90	192.5	90	73	32	73	M16(M16*2.0P),A06(5/8"-11)	2.1kg	2381
302908	MTB5-MLC32-85	214.5	90	73			M24(M24*3.0P),A07(1"-8)	3.8kg	2506
302910	NT40-MLC32-79.6	173	90	63			M16(M16*2.0P),A06(5/8"-11)	2.6kg	2300
302912	NT50-MLC32-87.2	214	90	97.5			M24(M24*3.0P),A07(1"-8)	4.9kg	3413
302914	MTB4-MLC42-95	197.5	110	95	42	95	M16(M16*2.0P),A06(5/8"-11)	2.8kg	3481
302916	MTB5-MLC42-95	224.5	110	95			M24(M24*3.0P),A07(1"-8)	4.0kg	3888
302918	NT50-MLC42-86.2	213	110	97.5				5.8kg	3925

NT-MCST强力型刀柄
NT-MCST MILLING COLLETS CHUCK HOLDER

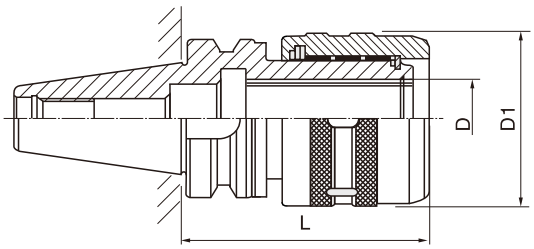




订购编号 Order No.	型 号 Model	D	D1	L	筒夹	拉杆螺纹	重 量 N. W.	价格 Price
303100	NT30-MCST20-80	20	52	80	ST20	M12(M12*1.75P) A04(1/2"-12)	1.5kg	2988
303102	NT30-MCST25-85	25	58	85	ST25		1.5kg	2988
303104	NT40-MCST20-80	20	52	80	ST20	M16(M16*2.0P) A06(5/8"-11)	2.0kg	3031
303106	NT40-MCST25-85	25	58	85	ST25		2.0kg	3031
303108	NT40-MCST32-95	32	75	95	ST32		2.6kg	3219
303110	NT50-MCST32-100	32	75	100	ST32	M24(M24*3.0P) A07(1"-8)	4.5kg	3869
303112	NT50-MCST42-110	42	87	110	ST42		5.5kg	4694

BT-MCST强力型刀柄
BT-MCST MILLING COLLETS CHUCK HOLDER



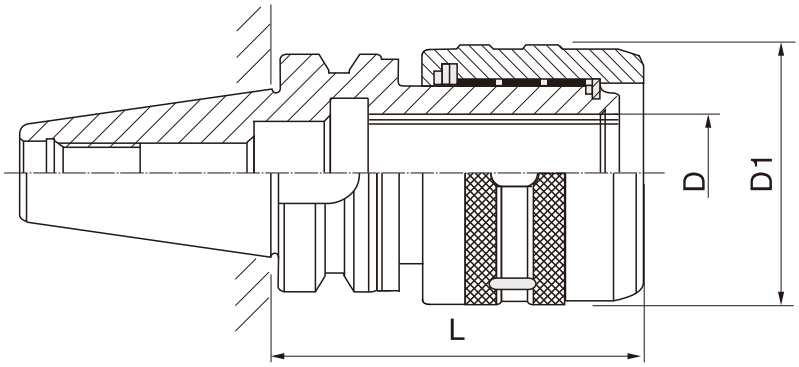


订购编号 Order No.	型 号 Model	D	D1	L	筒夹	重 量 N. W.	价格 Price
303200	BT30-MCST20-85	20	52	85	ST20	1.5kg	3056
303202	BT40-MCST20-80	20	52	80	ST20	2.0kg	3069
303204	BT40-MCST20-120	20	52	120	ST20	2.8kg	3288
303206	BT40-MCST25-90	25	58	90	ST25	2.2kg	3069
303208	BT40-MCST25-135	25	58	135	ST32	2.9kg	3288
303210	BT40-MCST32-105	32	75	105	ST32	3.0kg	3294
303212	BT40-MCST32-150	32	75	150	ST32	3.5kg	3706
303214	BT50-MCST32-110	32	75	110	ST32	5.2kg	4150
303216	BT50-MCST32-150	32	75	150	ST32	7.0kg	4600
303218	BT50-MCST42-115	42	87	115	ST42	7.0kg	5000
303220	BT50-MCST42-150	42	87	150	ST42	8.5kg	5238

DAT-MCST强力型刀柄

DAT-MCST MILLING COLLETS CHUCK HOLDER





订购编号 Order No.	型 号 Model	D	D1	L	筒夹	重量 N. W.	价格 Price
303300	DAT30-MCST20-95	20	52	90	ST20	1.5kg	3188
303302	DAT40-MCST20-80	20	52	80	ST20	2.0kg	3269
303304	DAT40-MCST25-90	25	58	90	ST25	2.0kg	3269
303306	DAT40-MCST32-100	32	75	100	ST32	2.7kg	3556
303308	DAT50-MCST32-105	32	75	105	ST32	4. 5kg	4806
303310	DAT50-MCST42-110	42	87	110	ST42	5. 7kg	5238

MCST强力型刀柄套装
COLLETS CHUCK KIT

套装公制筒夹型号	Set metric collet model
ST20 6PCS	4 , 6 , 8 , 10 , 12 , 16
ST25 7PCS	4 , 6 , 8 , 10 , 12 , 16 , 20
ST32 7PCS	6 , 8 , 10 , 12 , 16 , 20 , 25
ST42 8PCS	6 , 8 , 10 , 12 , 16 , 20 , 25 , 32

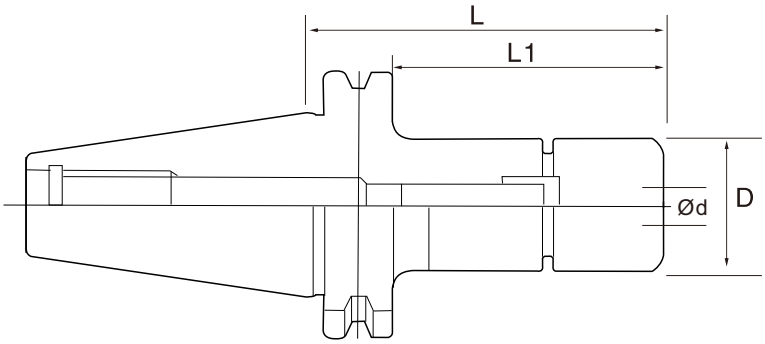


订购编号 Order No.	型 号 Model	筒夹 Collet	拉杆螺纹 Pull rod thread	重 量 N. W.	价格 Price
303400	NT30-MCST20-80-6PCS	ST20 6PCS	M12(M12*1.75P) A04(1/2"-12)	4.0kg	4188
303402	NT30-MCST25-85-7PCS	ST25 7PCS		4.0kg	4388
303404	NT40-MCST20-80-6PCS	ST20 6PCS	M16(M16*2.0P) A06(5/8"-11)	4.5kg	4269
303406	NT40-MCST25-85-7PCS	ST25 7PCS		4.5kg	4469
303408	NT40-MCST32-95-7PCS	ST32 7PCS		7.0kg	5069
303410	NT50-MCST32-100-7PCS	ST32 7PCS	M24(M24*3.0P) A07(1"-8)	9.0kg	5719
303412	NT50-MCST42-110-8PCS	ST42 8PCS		12.0kg	8075
303414	BT30-MCST20-85-6PCS	ST20 6PCS		4.0kg	4256
303416	BT40-MCST20-80-6PCS	ST20 6PCS		4.5kg	4269
303418	BT40-MCST20-120-6PCS	ST20 6PCS		5.0kg	4481
303420	BT40-MCST25-90-7PCS	ST25 7PCS		4.7kg	4475
303422	BT40-MCST25-135-7PCS	ST25 7PCS		5.2kg	4688
303424	BT40-MCST32-105-7PCS	ST32 7PCS		7.0kg	5131
303426	BT50-MCST32-110-7PCS	ST32 7PCS		9.5kg	5869
303428	BT50-MCST42-115-8PCS	ST42 8PCS		13.0kg	8369
303430	DAT30-MCST20-95-6PCS	ST20 6PCS		4.0kg	4388
303432	DAT40-MCST20-80-6PCS	ST20 6PCS		4.5kg	4469
303434	DAT40-MCST25-90-7PCS	ST25 7PCS		4.8kg	4681
303436	DAT40-MCST32-100-7PCS	ST32 7PCS		7.2kg	5344
303438	DAT50-MCST32-105-7PCS	ST32 7PCS		9.1kg	6056
303440	DAT50-MCST42-110-8PCS	ST42 8PCS		12.0kg	8544

ISO-ER雕刻机高速刀柄
ISO-ER ENGRAVING MACHINE HIGH SPEED CHUCK

特　点：

- 无键槽适用于高转速下使用
- 刀具置入筒夹内孔，必须超出筒夹内孔有效夹持长度，避免不当锁固，造成损坏。
- 精密平衡校正可校正在：G2. 5，25000RPM。动平衡G2. 5，40000RPM（需另外加价）。



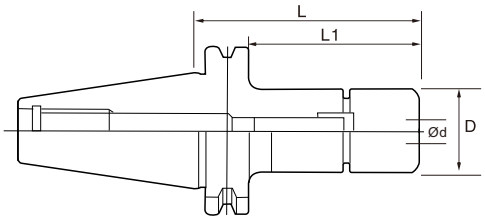


G2.5 MAX.30,000min^{-1}

订购编号 Order No.	型 号 Model	夹持范围 Clamping Range	D	L	价格 Price
303600	ISO25-GER16	2~10	27.5	42	1000
303602	ISO25-GER20	2~13	30	42	1000
303604	ISO30-GER16	2~10	27.5	55	700
303606	ISO30-GER20	2~13	30	55	700

订购编号 Order No.	型 号 Model	夹持范围 Clamping Range	D	L	价格 Price
303610	ISO15-ER16-035MS	0.5~10	22	35	1000
303612	ISO20-ER16-035MS	0.5~10	22	35	1000
303614	ISO25-ER20-035MS	1~13	28	35	1000
303616	ISO30-ER32-042UM	2~20	50	42	700
303618	ISO30-ER32-060UM	2~20	50	60	700

NBT-ER木工机高速刀柄
ISO-ER WOODWORKING MACHINE HIGH SPEED TOOLHOLDER



G2.5 MAX.30,000min^{-1}

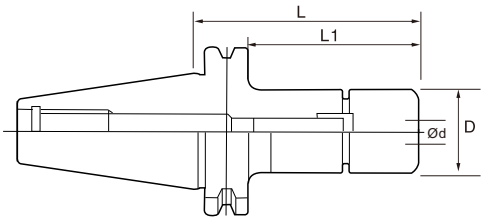
订购编号 Order No.	型 号 Model	夹持范围 Clamping Range	D	L	价格 Price
303620	NBT30-ER16-60A	0.5~10	28	60	400
303622	NBT30-ER20-60A	1~13	34	60	400
303624	NBT30-ER20-60MS	1~13	28	60	700
303626	NBT30-ER25-60UM	1~16	42	60	400
303628	NBT30-ER25-60MS	1~16	40	60	700
303630	NBT30-ER32-60UM	2~20	50	60	500

BT-GER高速刀柄
BT-GER HIGH SPEED CHUCK





G2.5 MAX.30,000min^{-1}



- ◆ 高速雕铣机专用刀柄
- ◆ 非偏心全平衡圆螺帽。
- ◆ 噪音低、风阻小。

- ◆ High-speed carving and milling machine for tool holder
- ◆ Non-eccentric full balanced round nut.
- ◆ low noise,little wind resistance

订购编号 Order No.	型 号 Model	Ød	D	L	价格 Price
303500	BT30-GER16-70	0.5-10.0	27.5	70	600
303502	BT30-GER20-70	1.0-13.0	30	70	600
303504	BT30-GER25-70	1.0-16.0	40	70	600
303506	BT30-GER16-100	0.5-10.0	27.5	100	600
303508	BT30-GER20-100	1.0-13.0	30	100	600
303510	BT30-GER25-100	1.0-16.0	40	100	600
303512	BT40-GER16-70	0.5-10.0	27.5	70	700
303514	BT40-GER20-70	1.0-13.0	30	70	700
303516	BT40-GER25-70	1.0-16.0	40	70	700
303518	BT40-GER16-100	0.5-10.0	27.5	100	700
303520	BT40-GER20-100	1.0-13.0	30	100	700
303522	BT40-GER25-100	1.0-16.0	40	100	700

BT-ER立铣刀刀柄A型

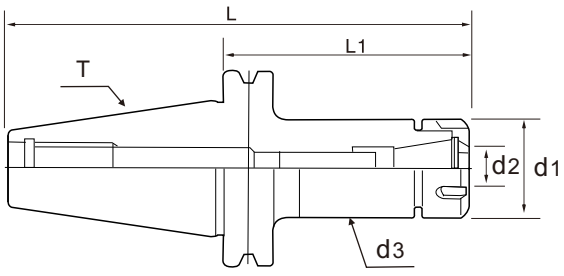
BT-ER COLLET CHUCK A TYPE



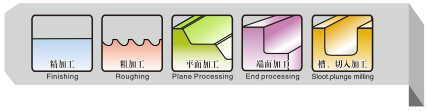








特　点：



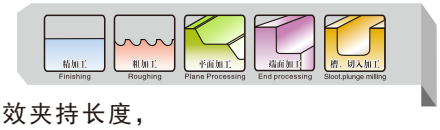
- 螺纹经精密磨削。
- ER16，ER20紧固螺母为外六角螺母。
- 可以额外购买强力螺母。
- 动平衡可以达到G6. 3，10000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

订购编号 Order No.	型 号 Model	L	d1	d2	d3	T	夹持范围 Clamping range	重量 WG	价格 Price
303900	BT30-ER16A-50	98.4	28	16	28	M10x1.5P	0.5-10.0	0.45kg	400
303902	BT30-ER16A-70	118.4	28	16	28			0.55kg	400
303904	BT30-ER16A-60	108.4	28	16	28			0.66kg	400
303906	BT30-ER16A-100	148.4	28	16	28			0.80kg	400
303908	BT30-ER16A-120	168.4	28	16	28			0.95kg	500
303910	BT30-ER20A-50	98.4	34	20	34	M12x1.75P	1.0-13.0	0.48kg	400
303912	BT30-ER20A-70	118.4	34	20	34			0.75kg	400
303914	BT30-ER20A-135	183.4	34	20	34			1.15kg	400
303916	BT30-ER25-70	118.4	42	25	42	M16x2.0P	1.0-16.0	0.70kg	400
303918	BT30-ER25-135	183.4	42	25	42			1.45kg	500
303920	BT30-ER32-70	118.4	50	32	45		2.0-20.0	0.85kg	400
303922	BT30-ER32-100	148.4	50	32	45			1.00kg	400
303924	BT30-ER40-80	128.4	63	40	53		3.0-26.0	1.10kg	500
303926	BT40-ER16A-70	135.4	28	16	28	M10x1.5P	0.5-10.0	1.20kg	400
303928	BT40-ER16A-100	165.4						1.30kg	400
303930	BT40-ER16A-125	190.4						1.36kg	450
303932	BT40-ER16A-150	215.4						1.54kg	500
303934	BT40-ER16A-180	245.4						2.00kg	550
303936	BT40-ER20A-70	135.4	34	20	34	M12x1.75P	1.0-13.0	1.40kg	400
303938	BT40-ER20A-100	165.4						1.50kg	400
303940	BT40-ER20A-135	200.4						1.70kg	450
303942	BT40-ER20A-150	215.4						1.80kg	500
303944	BT40-ER25-70	135.4	42	25	42	M16x2.0P	1.0-16.0	1.30kg	400
303946	BT40-ER25-100	165.4						1.50kg	400
303948	BT40-ER25-125	190.4						1.90kg	450
303950	BT40-ER25-150	215.4						2.25kg	500
303952	BT40-ER32-70	135.4	50	32	45		2.0-20.0	1.30kg	400
303954	BT40-ER32-100	165.4						1.70kg	400
303956	BT40-ER32-150	215.4						2.05kg	500
303958	BT40-ER40-80	145.4	63	40	53		3.0-26.0	1.50kg	500
303960	BT40-ER40-100	165.4				M20x2.0P		2.06kg	500
303962	BT40-ER40-120	185.4						2.5kg	550
303964	BT40-ER40-150	215.4						3.10kg	600
303966	BT40-ER50-85	150.4	78	50	60	M24x2.0P	5.0-34.0	1.70kg	700
303968	BT40-ER50-100	165.4						2.10kg	700
303970	BT50-ER16A-70	171.8	28	16	28	M10x1.5P	0.5-10.0	4.05kg	700
303972	BT50-ER16A-90	191.8						4.20kg	700
303974	BT50-ER16A-105	206.8						4.30kg	700
303976	BT50-ER16A-135	236.8						4.40kg	800
303978	BT50-ER16A-150	251.8						4.50kg	850
303980	BT50-ER16A-165	266.8						4.50kg	900
303982	BT50-ER20A-70	171.8	34	20	34	M12x1.75P	1.0-13.0	4.20kg	700
303984	BT50-ER20A-90	191.8						4.25kg	700
303986	BT50-ER20A-105	206.8						4.30kg	700
303988	BT50-ER20A-135	236.8						4.55kg	800
303990	BT50-ER20A-150	251.8						4.70kg	850
303992	BT50-ER20A-165	266.8						4.80kg	900
303994	BT50-ER20A-200	301.8						4.90kg	1000
303996	BT50-ER25-70	171.8	42	25	42		1.0-16.0	4.20kg	700
303998	BT50-ER25-105	206.8						4.40kg	700
304000	BT50-ER25-135	236.8						4.70kg	800
304002	BT50-ER25-165	266.8						5.00kg	850
304004	BT50-ER32-80	181.8	50	40	50	M16x2.0P	2.0-20.0	4.70kg	700
304006	BT50-ER32-100	201.8						4.80kg	700
304008	BT50-ER32-120	221.8						4.90kg	800
304010	BT50-ER32-150	251.8						5.30kg	800
304012	BT50-ER32-200	301.8						5.50kg	1000
304014	BT50-ER40-80	181.8	63	40	63	M20x2.0P	3.0-26.0	4.30kg	800
304016	BT50-ER40-100	201.8						4.40kg	800
304018	BT50-ER40-120	221.8						5.20kg	900
304020	BT50-ER40-135	236.8						5.50kg	1000
304022	BT50-ER50-90	191.8	78	50	78	M24x2.0P	5.0-34.0	4.60kg	1000
304024	BT50-ER50-120	221.8						5.50kg	1100
304026	BT50-ER50-165	266.8						6.10kg	1200

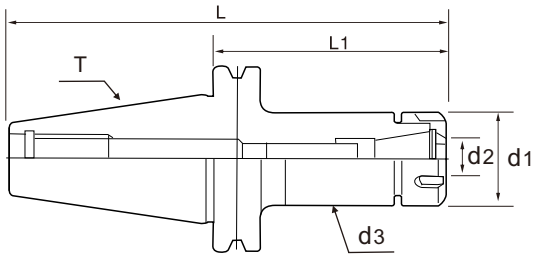
BT-ER立铣刀刀柄M型
BT-ER COLLET CHUCK M TYPE



特　点：



- M型刀杆采用小径螺帽，避免干涉。
- 刀具置入筒夹内孔，必须超出筒夹内孔有效夹持长度，避免不当锁固，造成损坏。
- 务必使用正确扳手来装置，不可任意改变，避免不当锁固，造成损坏。
- 动平衡可以达到G6. 3，10000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。



订购编号 Order No.	型 号 Model	L	L1	d1	d2	d3	T	夹持范围 Clamping range	重量 WG	价格 Price
304100	BT30-ER11M-70	118.4	6.6	16	11	15	M6x1.0P	0.5~7.0	0.50kg	500
304102	BT30-ER11M-100	148.4							0.60kg	535
304104	BT30-ER11M-120	168.4							0.70kg	580
304106	BT30-ER16M-70	118.4	10.6	22	16	21	M10x1.5P	0.5~10.0	0.55kg	500
304108	BT30-ER16M-100	148.4							0.65kg	535
304110	BT30-ER16M-120	168.4							0.75kg	600
304112	BT30-ER20M-70	118.4	11.5	28	20	27	M12x1.75P	1.0~13.0	0.65kg	505
304114	BT30-ER20M-100	148.4							0.70kg	540
304116	BT30-ER20M-120	168.4							0.80kg	615
304118	BT30-ER20M-150	198.4							1.00kg	700
304120	BT40-ER11M-70	135.4	6.6	16	11	15	M6x1.0P	0.5~7.0	1.10kg	545
304122	BT40-ER11M-100	165.4							1.20kg	585
304124	BT40-ER11M-125	190.4							1.40kg	880
304126	BT40-ER11M-150	215.4							1.50kg	960
304128	BT40-ER16M-70	135.4	10.6	22	16	21	M10x1.5P	0.5~10.0	1.20kg	550
304130	BT40-ER16M-100	165.4							1.30kg	585
304132	BT40-ER16M-125	190.4							1.50kg	900
304134	BT40-ER16M-150	215.4							1.60kg	995
304136	BT40-ER20M-70	135.4	11.5	28	20	27	M12x1.75P	1.0~13.0	1.20kg	550
304138	BT40-ER20M-100	165.4							1.55kg	590
304140	BT40-ER20M-125	190.4							1.70kg	930
304142	BT40-ER20M-150	215.4							1.80kg	1,030
304144	BT50-ER11M-70	171.8	6.6	16	11	15	M6x1.0P	0.5~7.0	3.80kg	1,585
304146	BT50-ER11M-90	191.8							3.90kg	1,635
304148	BT50-ER11M-105	206.8							4.00kg	1,705
304150	BT50-ER11M-135	236.8							4.10kg	1,560
304152	BT50-ER11M-165	266.8							4.20kg	1,615
304154	BT50-ER16M-70	171.8	10.6	22	16	21	M10x1.5P	0.5~10.0	3.90kg	1,580
304156	BT50-ER16M-90	191.8							4.00kg	1,645
304158	BT50-ER16M-105	206.8							4.10kg	1,735
304160	BT50-ER16M-135	236.8							4.20kg	1,590
304162	BT50-ER16M-165	266.8							4.30kg	1,635
304164	BT50-ER20M-90	191.8	11.5	28	20	27	M12x1.75P	1.0~13.0	4.10kg	1,655
304166	BT50-ER20M-105	206.8							4.20kg	1,750
304168	BT50-ER20M-135	236.8							4.40kg	1,605
304170	BT50-ER20M-165	266.8							4.60kg	1,655

BT-ER刀柄套装

BT-ER COLLET CHUCK GROUP



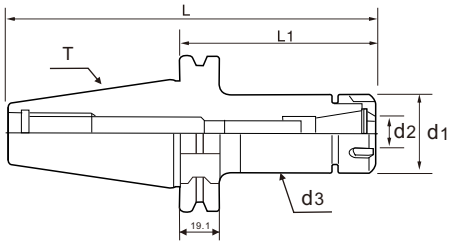


订购编号 Order No.	型 号 Model	Set Range	Collet	重 量 N. W.	价格 Price
304200	BT30-ER16-60-10PCS	1-10	ER16 10PCS	1.90kg	
304202	BT30-ER16-100-10PCS	1-10	ER16 10PCS	2.00kg	
304204	BT30-ER20-60-12PCS	2-13	ER20 12PCS	2.50kg	
304206	BT30-ER20-100-12PCS	2-13	ER20 12PCS	2.60kg	
304208	BT30-ER25-60-15PCS	2-16	ER25 15PCS	2.50kg	
304210	BT30-ER25-60-7PCS	4-16	ER25 7PCS	2.80kg	
304212	BT30-ER32-60-18PCS	3-20	ER32 18PCS	4.40kg	
304214	BT30-ER32-60-11PCS	4-20	ER32 11PCS	3.80kg	
304216	BT30-ER32-60-6PCS	6-20	ER32 6PCS	3.40kg	
304218	BT40-ER16-70-10PCS	1-10	ER16 10PCS	2.30kg	
304220	BT40-ER16-100-10PCS	1-10	ER16 10PCS	2.70kg	
304222	BT40-ER20-70-12PCS	2-13	ER20 12PCS	2.80kg	
304224	BT40-ER20-100-12PCS	2-13	ER20 12PCS	3.00kg	
304226	BT40-ER25-70-15PCS	2-16	ER25 15PCS	3.20kg	
304228	BT40-ER25-70-7PCS	4-16	ER25 7PCS	3.00kg	
304230	BT40-ER32-70-18PCS	3-20	ER32 18PCS	5.20kg	
304232	BT40-ER32-70-11PCS	4-20	ER32 11PCS	4.20kg	
304234	BT40-ER32-70-6PCS	6-20	ER32 6PCS	3.80kg	
304236	BT40-ER40-80-23PCS	4-26	ER40 23PCS	8.90kg	
304238	BT40-ER40-80-15PCS	4-26	ER40 15PCS	7.60kg	
304240	BT40-ER40-80-7PCS	6-25	ER40 7PCS	4.50kg	
304242	BT40-ER50-90-12PCS	12-34	ER50 12PCS	9.00kg	
304244	BT50-ER32-100-18PCS	3-20	ER32 18PCS	7.50kg	
304246	BT50-ER40-100-23PCS	4-26	ER40 23PCS	11.3kg	
304248	BT50-ER40-100-15PCS	4-26	ER40 15PCS	10.0kg	
304250	BT50-ER50-100-12PCS	12-34	ER50 12PCS	12.0kg	

DAT-ER立铣刀刀柄
DAT-ER COLLET CHUCK

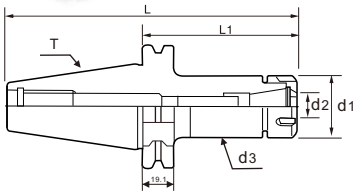


特　点：
- 螺纹经精密磨削，可以夹直柄和工具
- ER16，ER20紧固螺帽为外六角螺帽
- ER25，ER32，ER40，ER50附有一个标准螺母，可以额外购买强力螺母
- 动平衡可以达到G6.3，10000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。



订购编号 Order No.	型 号 Model	L	d1	d2	T	夹持范围 Clamping range	重量 WG	价格 Price
304300	DAT30-ER11A-80	127.8	19	11	M6x1.0P	0.5~7.0	0.60kg	605
304302	DAT30-ER16A-63	110.8	28	16	M10x1.5P	0.5~10.0	0.70kg	600
304304	DAT30-ER16A-120	167.8					0.85kg	680
304306	DAT30-ER20A-63	110.8	34	20	M12x1.75P	1.0~13	0.80kg	615
304308	DAT30-ER20A-120	167.8					1.05kg	690
304310	DAT30-ER25-63	110.8	42	25	M16x2.0P	1.0~16	0.85kg	640
304312	DAT30-ER32-63	110.8	50	32		2.0~20	0.90kg	695
304400	DAT40-ER11A-80	148.4	19	11	M16x1.0P	0.5~7.0	1.05kg	750
304402	DAT40-ER11A-125	193.4					1.15kg	810
304404	DAT40-ER16A-70	138.4	28	16	M10x1.5P	0.5~10.0	1.30kg	690
304406	DAT40-ER16A-100	168.4					1.40kg	795
304408	DAT40-ER16A-125	193.4					1.60kg	845
304410	DAT40-ER16A-150	218.4					1.65kg	910
304412	DAT40-ER16A-180	248.4					1.85kg	935
304414	DAT40-ER20A-70	138.4	34	20	M12x1.75P	1.0~13	1.40kg	850
304416	DAT40-ER20A-100	168.4					1.50kg	810
304418	DAT40-ER20A-135	203.4					1.95kg	880
304420	DAT40-ER20A-160	228.4					2.20kg	970
304422	DAT40-ER25-70	138.4	42	25	M16x2.0P	1.0~16.0	1.60kg	825
304424	DAT40-ER25-100	168.4					1.85kg	870
304426	DAT40-ER25-150	218.4					2.25kg	980
304428	DAT40-ER25-180	248.4					2.45kg	1065
304430	DAT40-ER25-200	268.4					2.55kg	1115
304432	DAT40-ER32-70	138.4	50	32	M16x2.0P	2.0~20.0	1.60kg	855
304434	DAT40-ER32-100	168.4					2.00kg	915
304436	DAT40-ER32-135	203.4					2.15kg	980
304438	DAT40-ER32-150	218.4					2.65kg	1025
304440	DAT40-ER40-70	138.4	53	40	M20x2.0P	3.0~26.0	1.50kg	950
304442	DAT40-ER40-100	168.4					2.00kg	1005
304444	DAT40-ER40-135	218.4					2.30kg	1075
304446	DAT40-ER50-100	168.4	78	50	M24x2.0P	5.0~34.0	1.70kg	1200
304500	DAT50-ER16A-100	201.75	28	16	M10x1.5P	0.5~10.0	3.20kg	1475
304502	DAT50-ER16A-135	236.75					4.30kg	1605
304504	DAT50-ER16A-160	261.75					4.50kg	1725
304506	DAT50-ER16A-180	281.75					4.80kg	1830
304508	DAT50-ER20A-100	201.75	34	20	M12x1.75P	1.0~13.0	3.40kg	1445
304510	DAT50-ER20A-135	236.75					3.60kg	1605
304512	DAT50-ER20A-160	261.75					3.80kg	1725
304514	DAT50-ER25-70	171.75	42	25	M16x2.0P	1.0~16.0	3.40kg	1355
304516	DAT50-ER25-100	201.75					4.15kg	1480
304518	DAT50-ER25-150	251.75					4.50kg	1750
304520	DAT50-ER25-200	301.75					4.70kg	1965
304522	DAT50-ER32-80	181.75	50	32	M20x2.0P	2.0~20.0	3.60kg	1430
304524	DAT50-ER32-120	221.75					4.60kg	1650
304526	DAT50-ER32-160	261.75					4.75kg	1820
304528	DAT50-ER32-200	301.75					4.90kg	2005
304530	DAT50-ER40-80	181.75	63	40	M20x2.0P	3.0~26.0	3.65kg	1525
304532	DAT50-ER40-120	221.75					4.80kg	1745
304534	DAT50-ER40-160	261.75					5.20kg	1925
304536	DAT50-ER40-200	301.75					5.40kg	2105
304538	DAT50-ER50-80	181.75	78	50	M24x2.0P	5.0~34.0	4.85kg	1690
304540	DAT50-ER50-120	221.75					5.45kg	1895
304542	DAT50-ER50-160	261.75					5.55kg	2065
304544	DAT50-ER50-200	301.75					5.70kg	2250





特　点：
- M型刀杆采用小径螺帽，避免干涉。
- 刀具置入筒夹内孔，必须超出筒夹内孔有效夹持长度，避免不当锁固，造成损坏。
- 务必使用正确扳手来装置，不可任意改变，避免不当锁固，造成损坏。
- 动平衡可以达到G6.3，10000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

订购编号 Order No.	型 号 Model	L	d1	d2	d3	T	夹持范围 Clamping range	重量 WG	价格 Price
304600	DAT30-ER11M-70	117.8	16	11	15	M6x1.0P	0.5~7.0	0.50kg	875
304602	DAT30-ER11M-100	147.8						0.60kg	945
304604	DAT30-ER11M-120	167.8						0.70kg	995
304606	DAT30-ER16M-70	117.8	22	16	21	M10x1.5P	0.5~10.0	0.55kg	900
304608	DAT30-ER16M-100	147.8						0.65kg	975
304610	DAT30-ER16M-120	167.8						0.75kg	1025
304612	DAT30-ER20M-100	147.8	28	20	27	M12x1.75P	1.0~13.0	0.70kg	985
304614	DAT30-ER20M-120	167.8						0.80kg	1040
304616	DAT30-ER20M-150	197.8						1.00kg	1175
304618	DAT40-ER11M-70	138.4	16	11	15	M6x1.0P	0.5~7.0	1.10kg	1100
304620	DAT40-ER11M-100	168.4						1.20kg	1190
304622	DAT40-ER11M-125	193.4						1.40kg	1300
304624	DAT40-ER11M-150	218.4						1.50kg	1420
304626	DAT40-ER16M-70	138.4	22	16	21	M10x1.5P	0.5~10.0	1.20kg	1160
304628	DAT40-ER16M-100	168.4						1.30kg	1250
304630	DAT40-ER16M-125	193.4						1.50kg	1355
304632	DAT40-ER16M-150	218.4						1.60kg	1415
304634	DAT40-ER20M-70	138.4	28	20	27	M12x1.75P	1.0~13.0	1.20kg	1135
304636	DAT40-ER20M-100	168.4						1.55kg	1245
304638	DAT40-ER20M-125	193.4						1.70kg	1340
304640	DAT40-ER20M-150	218.4						1.80kg	1470
304700	DAT50-ER11M-70	171.75	16	11	15	M6x1.0P	0.5~7.0	3.8kg	2010
304702	DAT50-ER11M-90	191.75						3.9kg	2140
304704	DAT50-ER11M-105	206.75						4.0kg	2020
304706	DAT50-ER11M-135	236.75						4.1kg	2210
304708	DAT50-ER11M-165	266.75						4.2kg	2410
304710	DAT50-ER16M-70	171.75	22	16	21	M10x1.5P	0.5~10.0	3.9kg	2020
304712	DAT50-ER16M-90	191.75						4.0kg	2155
304714	DAT50-ER16M-105	206.75						4.1kg	2025
304716	DAT50-ER16M-135	236.75						4.2kg	2220
304718	DAT50-ER16M-165	266.75						4.3kg	2445
304720	DAT50-ER20M-90	191.75	28	20	27	M12x1.75P	1.0~13.0	4.1kg	2145
304722	DAT50-ER20M-105	206.75						4.2kg	2040
304724	DAT50-ER20M-135	236.75						4.4kg	2235
304726	DAT50-ER20M-165	266.75						4.6kg	2435

DAT/ER　铣床夹头组　Milling chuck group

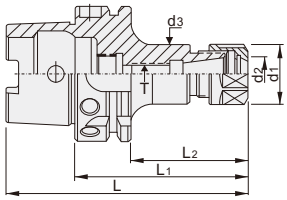


订购编号 Order No.	型 号 Model	Set Range	Collet	重量 N. W.	价格 Price
304800	DAT30-ER16-60-10PCS	1-10	ER16 10PCS	1. 80kg	
304802	DAT30-ER20-60-12PCS	2-13	ER20 12PCS	2. 40kg	
304804	DAT30-ER25-60-15PCS	2-16	ER25 15PCS	2. 70kg	
304806	DAT30-ER32-60-18PCS	3-20	ER32 18PCS	4.20kg	
304808	DAT40-ER16-70-10PCS	1-10	ER16 10PCS	2. 20kg	
304810	DAT40-ER20-70-12PCS	2-13	ER20 12PCS	2. 70kg	
304812	DAT40-ER25-70-15PCS	2-16	ER25 15PCS	3.10kg	
304814	DAT40-ER32-70-18PCS	3-20	ER32 18PCS	5.20kg	
304816	DAT40-ER40-80-23PCS	4-26	ER40 23PCS	8.90kg	
304818	DAT40-ER40-80-15PCS	4-26	ER40 15PCS	7.00kg	
304820	DAT50-ER32-100-18PCS	3-20	ER32 18PCS	7.00kg	
304822	DAT50-ER40-100-15PCS	4-26	ER40 15PCS	9.50kg	
304824	DAT50-ER50-100-23PCS	4-26	ER50 23PCS	11.3kg	

HSK-ER立铣刀刀柄
HSK-ER COLLET CHUCK



特　点：
- 刀杆的旋转都经平衡机检测。
- 刀杆的旋转动平衡可以达到G2.5，25000RPM。
- 可以夹持任何一种直径刀具和工具。
- 平衡等级和转速可以根据客户的要求，但需另行报价。



订购编号 Order No.	型 号 Model	L	L2	d1	d2	d3	T	重量 WG	价格 Price
304900	HSK40A-ER20A-80	100	60	34	20	32	M10x1.5P	0.35kg	1010
304902	HSK40A-ER25-80	100	60	42	25			0.40kg	1035
304904	HSK50A-ER16A-80	105	54	28	16	42	M10x1.5P	0.50kg	1145
304906	HSK50A-ER16A-100	125	74					0.55kg	1225
304908	HSK50A-ER16A-120	145	94					0.70kg	1295
304910	HSK50A-ER20A-80	105	54	34	20		M12x1.75P	0.60kg	1165
304912	HSK50A-ER20A-100	125	74					0.65kg	1240
304914	HSK50A-ER20A-120	145	94					0.70kg	1335
304916	HSK50A-ER25-80	105	54	42	25		M16x2.0P	0.70kg	1205
304918	HSK50A-ER25-100	125	74					0.80kg	1270
304920	HSK50A-ER25-135	160	109					0.90kg	1370
304922	HSK50A-ER32-100	125	74	50	32		M16x2.0P	1.35kg	1330
304924	HSK50A-ER32-135	160	109					1.50kg	1445
304926	HSK50A-ER32-160	185	134					1.70kg	1550
304928	HSK63A-ER16A-80	112	54	28	16	53	M10x1.5P	1.50kg	1395
304930	HSK63A-ER16A-100	132	74					1.55kg	1490
304932	HSK63A-ER16A-120	152	94					1.70kg	1580
304934	HSK63A-ER16A-160	192	134					1.90kg	1790
304936	HSK63A-ER20A-80	112	54	34	20		M12x1.75P	1.60kg	1405
304938	HSK63A-ER20A-100	132	74					1.70kg	1505
304940	HSK63A-ER20A-120	152	94					1.80kg	1605
304942	HSK63A-ER20A-160	192	134					2.00kg	1810
304944	HSK63A-ER25-80	112	54	42	25		M16x2.0P	1.70kg	1440
304946	HSK63A-ER25-100	132	74					1.80kg	1525
304948	HSK63A-ER25-120	152	94					2.00kg	1610
304950	HSK63A-ER25-150	182	124					2.30kg	1780
305000	HSK63A-ER32-80	112	54	50	32	53	--	2.50kg	1495
305002	HSK63A-ER32-100	132	74				M16x2.0P	2.55kg	1595
305004	HSK63A-ER32-145	177	119					2.70kg	1805
305006	HSK63A-ER32-160	192	134					3.10kg	1890
305008	HSK63A-ER40-80	112	54	63	40		--	2.65kg	1620
305010	HSK63A-ER40-100	132	74				M20x2.0P	2.70kg	1710
305012	HSK63A-ER40-120	152	94					2.77kg	1810
305014	HSK63A-ER40-150	182	124					2.95kg	1940
305016	HSK63A-ER40-170	202	144					3.10kg	2055
305018	HSK63A-ER50-120	152	94	78	50		M24x2.0P	3.50kg	2050
305020	HSK100A-ER16A-80	130	51	28	16	85	M10x1.5P	2.90kg	2670
305022	HSK100A-ER16A-100	150	71					2.95kg	2885
305024	HSK100A-ER16A-160	210	131					3.45kg	3555
305026	HSK100A-ER20A-80	130	51	34	20		M12x1.75P	2.90kg	2660
305028	HSK100A-ER20A-100	150	71					3.00kg	2890
305030	HSK100A-ER20A-80	210	131					3.30kg	3770
305032	HSK100A-ER25-100	150	71	42	25		M16x2.0P	3.00kg	2915
305034	HSK100A-ER25-130	180	101					3.20kg	3255
305036	HSK100A-ER32-100	150	71	50	32		M16x2.0P	3.15kg	2975
305038	HSK100A-ER32-130	185	106					3.35kg	3420
305040	HSK100A-ER32-160	200	121					3.50kg	3525
305042	HSK100A-ER40-80	130	51	63	40		M20x2.0P	3.30kg	2870
305044	HSK100A-ER40-120	170	91					3.38kg	3295
305046	HSK100A-ER40-175	225	146					4.20kg	3935
305048	HSK100A-ER50-100	150	71	78	50		M24x2.0P	4.50kg	3185
305050	HSK100A-ER50-120	170	91					5.00kg	3410

HSK-E型雕刻机高速刀柄

订购编号 Order No.	型 号 Model	夹持范围 Clamping Range	d1	L1	价格 Price
305060	HSK25E-ER16A	0.5~10	28	40	1300
305062	HSK32E-ER16A	0.5~10	28	40	1300
305064	HSK32E-ER20A	1~13	34	50	1300
305066	HSK32E-ER25UM	1~16	42	60	1300
305068	HSK40E-ER16A	0.5~10	28	60	1300
305070	HSK40E-ER20A	1~13	34	60	1300
305072	HSK40E-ER25UM	1~16	42	70	1300
305074	HSK40E-ER32UM	2~20	50	70	1300

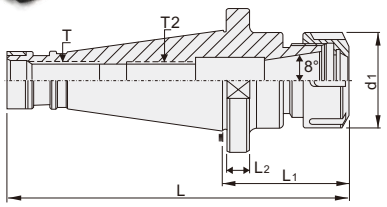
HSK-F型车铣复合机高速刀柄

订购编号 Order No.	型 号 Model	夹持范围 Clamping Range	d1	L1	价格 Price
305080	HSK63F-ER32-70	2~20	50	60	1500
305082	HSK63F-ER40-70	3~26	63	60	1500

NT-ER立铣刀刀柄
NT-ER COLLET CHUCK



特　点：
- 钢材：SCM-21
- 主体的末端，有一个塑料环保护主轴免受损害。
  可以单独购买，每只锁有一个夹紧螺帽，但不附扳手。



订购时,请确认拉杆螺丝规格为公制或英制。　　单位:mm

订购编号 Order No.	型 号 Model	L	L2	d1	t2	T	重量 WG	价格 Price
305100	NT30-ER16A-45	111.4	8	28	M10x1.5P	M12(M12*1.75P) A04(1/2"-12)	0.50kg	635
305102	NT30-ER20A-45	113.4		34	M12x1.75P		0.60kg	645
305104	NT30-ER25-55	123.4		42	M16x2.0P		0.65kg	695
305106	NT30-ER32-60	128.4		50			0.80kg	750
305108	NT30-ER40-75	143.4		63			0.90kg	870
305110	NT40-ER16A-45	138.4	10	28	M10x1.5P	M16(M16*2.0P) A06(5/8"-11)	0.95kg	785
305112	NT40-ER20A-45	138.4		34	M12x1.75P		1.20kg	805
305114	NT40-ER25-55	148.4		42	M16x2.0P		1.25kg	850
305116	NT40-ER32-60	153.4		50			1.30kg	870
305118	NT40-ER40-70	163.4		63	M20x2.0P		1.35kg	1,020
305120	NT40-ER50-80	173.4		78	M24x2.0P		2.00kg	1,255
305122	NT50-ER32-75	201.8	12	50	M16x2.0P	M24(M24*3.0P) A07(1"-8)	3.20kg	1,635
305124	NT50-ER40-80	206.8		63	M20x2.0P		3.40kg	1,815
305126	NT50-ER50-80	206.8		78	M24x2.0P		3.70kg	2,270

NT/ER　铣床夹头组　Milling chuck group

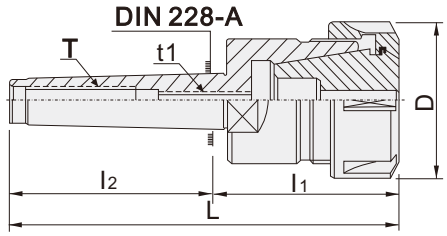




订购编号 Order No.	型 号 Model	Set Range	Collet	Draw Bar	重量 N. W.	价格 Price
305200	NT30-ER16-76-10PCS	1-10	ER16 10PCS	M12(M12*1.75P) A04(1/2"-12)	1.70kg	
305202	NT30-ER16-76-12PCS	2-13	ER16 12PCS		1.80kg	
305204	NT30-ER25-55-15PCS	2-16	ER25 15PCS		2.80kg	
305206	NT30-ER25-55-7PCS	4-16	ER25 7PCS		2.40kg	
305208	NT30-ER32-55-18PCS	3-20	ER32 18PCS	M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13)	4.20kg	
305210	NT30-ER32-55-11PCS	4-20	ER32 11PCS		3.20kg	
305212	NT30-ER32-55-6PCS	6-20	ER32 6PCS		2.80kg	
305214	NT30-ER40-70-23PCS	4-26	ER40 23PCS		7.30kg	
305216	NT30-ER40-70-15PCS	4-26	ER40 15PCS		6.00kg	
305218	NT30-ER40-70-7PCS	6-25	ER40 7PCS		4.60kg	
305220	NT40-ER16-76-10PCS	1-10	ER16 10PCS	M16(M16*2.0P) A06(5/8"-11)	2.40kg	
305222	NT40-ER20-76-12PCS	2-13	ER20 12PCS		2.50kg	
305224	NT40-ER25-50-15PCS	2-16	ER25 15PCS		3.30kg	
305226	NT40-ER25-50-7PCS	4-16	ER25 7PCS		3.00kg	
305228	NT40-ER32-50-18PCS	3-20	ER32 18PCS		4.80kg	
305230	NT40-ER32-50-11PCS	4-20	ER32 11PCS		3.80kg	
305232	NT40-ER32-50-6PCS	6-20	ER32 6PCS		3.40kg	
305234	NT40-ER40-60-23PCS	4-26	ER40 23PCS		8.20kg	
305236	NT40-ER40-60-15PCS	4-26	ER40 15PCS		6.90kg	
305238	NT40-ER40-60-7PCS	6-25	ER40 7PCS		5.20kg	
305240	NT40-ER50-80-12PCS	12-34	ER50 12PCS		10.0kg	
305242	NT50-ER32-60-18PCS	3-20	ER32 18PCS	M24(M24*3.0P) A07(1"-8)	6.40kg	
305244	NT50-ER32-60-11PCS	4-20	ER32 11PCS		5.40kg	
305246	NT50-ER32-60-6PCS	6-20	ER32 6PCS		5.00kg	
305248	NT50-ER40-65-23PCS	4-26	ER40 23PCS		9.80kg	
305250	NT50-ER40-65-15PCS	4-26	ER40 15PCS		8.50kg	
305252	NT50-ER40-65-7PCS	6-25	ER40 7PCS		7.00kg	
305254	NT50-ER50-65-12PCS	12-34	ER50 12PCS		11.0kg	

MT-ER立铣刀刀柄
MT-ER COLLET CHUCK





单位:mm

订购编号 Order No.	型 号 Model	L	D	l2	t1	T 拉杆规格	重量 N.W.	价格 Price
305300	MTB2-ER20A-52	116	35	64	M10x1.5P	M10(M10*1.5P) A02(3/8"-16)	0.45kg	590
305302	MTB2-ER25-55	119	42				0.50kg	685
305304	MTB3-ER25-55	136	42	81	M12x1.75P	M12(M12*1.75P) A04(1/2"-12)	0.60kg	705
305306	MTB3-ER32-60	141	50				0.80kg	825
305308	MTB3-ER40-70	151	63				1.30kg	1130
305310	MTB4-ER32-60	162.5	50	102.5	M16x2.0P	M16(M16*2.0P) A06(5/8"-11)	0.95kg	885
305312	MTB4-ER40-70	172.5	63				1.50kg	1205

MT/ER 铣床夹头组 Milling chuck group



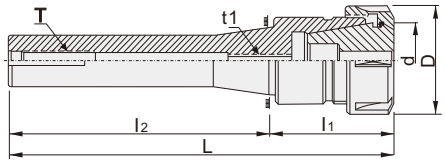


订购编号 Order No.	型 号 Model	Set Range	Collet	Draw Bar	重量 N. W.	价格 Price
305400	MTB2-ER16-40-10PCS	1-10	ER16 10PCS	M10(M10*1.5P) A02(3/8"-16)	1.05kg	
305402	MTB2-ER20-43-12PCS	2-13	ER20 12PCS		1.30kg	
305404	MTB2-ER25-47-15PCS	2-16	ER25 15PCS		2.40kg	
305406	MTB2-ER25-47-7PCS	4-16	ER25 7PCS		2.00kg	
305408	MTB3-ER16-40-10PCS	1-10	ER16 10PCS	M10(M10*1.5P) M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13) A02(3/8"-16)	1.15kg	
305410	MTB3-ER20-43-12PCS	2-13	ER20 12PCS		1.35kg	
305412	MTB3-ER25-47-15PCS	2-16	ER25 15PCS		2.50kg	
305414	MTB3-ER25-47-7PCS	4-16	ER25 7PCS		2.10kg	
305416	MTB3-ER32-70-18PCS	3-20	ER32 18PCS		4.10kg	
305418	MTB3-ER32-70-11PCS	4-20	ER32 11PCS		3.00kg	
305420	MTB3-ER32-70-6PCS	6-20	ER32 6PCS		2.70kg	
305422	MTB3-ER40-80-23PCS	4-26	ER40 23PCS		7.20kg	
305424	MTB3-ER40-80-15PCS	4-26	ER40 15PCS		6.00kg	
305426	MTB3-ER40-80-7PCS	6-25	ER40 7PCS		4.50kg	
305428	MTB4-ER32-60-18PCS	3-20	ER32 18PCS	M16(M16*2.0P) A06(5/8"-11)	4.30kg	
305430	MTB4-ER32-60-11PCS	4-20	ER32 11PCS		3.20kg	
305432	MTB4-ER32-60-6PCS	6-20	ER32 6PCS		2.90kg	
305434	MTB4-ER40-82-23PCS	4-26	ER40 23PCS		7.30kg	
305436	MTB4-ER40-82-15PCS	4-26	ER40 15PCS		6.10kg	
305438	MTB4-ER40-82-7PCS	6-25	ER40 7PCS		4.60kg	
305440	MTB5-ER40-82-23PCS	4-26	ER40 23PCS	M24(M24*3.0P) A07(1"-8)	8.20kg	
305442	MTB5-ER40-82-15PCS	4-26	ER40 15PCS		6.90kg	
305444	MTB5-ER40-82-7PCS	6-25	ER40 7PCS		5.40kg	
305446	MTB5-ER50-85-12PCS	12-34	ER50 12PCS		9.50kg	

R8-ER立铣刀刀柄
R8-ER COLLET CHUCK

R8/ER 铣床夹头柄 Collet Holder





单位: mm

订购编号 Order No.	型 号 Model	L	D	d	l2	t1	T拉杆规格	重量 N. W.	价格 Price
305500	R8-ER16A-38	135	28	16	102	M10x1.5P	7/16"-20	0.65kg	755
305502	R8-ER32-60	162	50	32		M12x1.75P		0.90kg	895
305504	R8-ER40-65	168	63	40		M16x2. 0P		1.10kg	1120

ST/ER 铣床夹头组 Milling chuck group

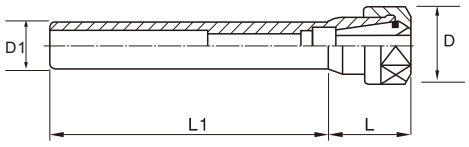




订购编号 Order No.	型 号 Model	Set Range	Collet	重量 N. W.	价格 Price
305600	R8-ER16-38-10PCS	1-10	ER16 10PCS	1. 50kg	
305602	R8-ER32-40-18PCS	3-20	ER32 18PCS	4. 30kg	
305604	R8-ER32-40-11PCS	4-20	ER32 11PCS	3. 20kg	
305606	R8-ER32-40-6PCS	6-20	ER32 6PCS	2. 90kg	
305608	R8-ER40-70-23PCS	4-26	ER40 23PCS	7. 30kg	
305610	R8-ER40-70-15PCS	4-26	ER40 15PCS	6. 10kg	
305612	R8-ER40-70-7PCS	6-25	ER40 7PCS	4. 60kg	

ER延长杆(经济型)
ER STRAIGHT SHANK

C/ER 直柄弹性筒夹本体（A型） Straight Shank



单位: mm

订购编号 Order No.	型 号 Model	L1	D1	L	D	型式	价格 Price
305700	C20-ER16-50	50	20	30	28	ER16	485
305702	C20-ER16-100	100					535
305704	C20-ER16-150	150					645
305706	C20-ER20-50	50		36	34	ER20	485
305708	C20-ER20-100	100					535
305710	C20-ER25-50	50		46	42	ER25	590
305712	C20-ER25-100	100					645
305714	C20-ER25-150	150					755
305716	C25-ER16-100	100	25	30	28	ER16	535
305718	C25-ER16-150	150					645
305720	C25-ER20-150	150		36	34	ER20	645
305722	C25-ER25-100	100		46	42	ER25	645
305724	C25-ER25-150	150					755
305726	C25-ER32-80	80		54	50	ER32	700
305728	C25-ER40-100	100		55	63	ER40	965
305730	C32-ER25-60	60	32	46	42	ER25	645
305732	C32-ER32-100	100		54	50	ER32	755
305734	C32-ER40-100	100		55	63	ER40	965
305736	C40-ER32-100	100	40	54	50	ER32	805
305738	C40-ER40-100	100		55	63	ER40	965

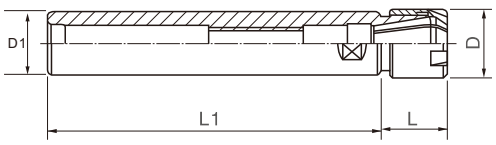
ST/ER 铣床夹头组 Milling chuck group





订购编号 Order No.	型 号 Model	Set Range	Collet	重量 N. W.	价格 Price
305900	ST16-ER11-50-13PCS	1-7	ER11 13PCS	0.60kg	
305902	ST16-ER11-50-7PCS	1-7	ER11 7PCS	0.50kg	
305904	ST16-ER11-100-13PCS	1-7	ER11 13PCS	1.70kg	
305906	ST16-ER11-100-7PCS	1-7	ER11 7PCS	1.60kg	
305908	ST16-ER16-100-10PCS	1-10	ER16 10PCS	1.00kg	
305910	ST16-ER16-100-8PCS	3-10	ER16 8PCS	1.00kg	
305912	ST20-ER16-50-10PCS	1-10	ER16 10PCS	1.05kg	
305914	ST20-ER16-50-8PCS	3-10	ER16 8PCS	1.00kg	
305916	ST20-ER16-100-10PCS	1-10	ER16 10PCS	1.10kg	
305918	ST20-ER16-100-8PCS	3-10	ER16 8PCS	1.05kg	
305920	ST20-ER16-150-10PCS	1-10	ER16 10PCS	1.20kg	
305922	ST20-ER16-150-8PCS	3-10	ER16 8PCS	1.15kg	
305924	ST25-ER16-50-10PCS	1-10	ER16 10PCS	1.10kg	
305926	ST25-ER16-50-8PCS	3-10	ER16 8PCS	1.05kg	
305928	ST25-ER16-100-10PCS	1-10	ER16 10PCS	1.20kg	
305930	ST25-ER16-100-8PCS	3-10	ER16 8PCS	1.15kg	
305932	ST25-ER16-150-10PCS	1-10	ER16 10PCS	1.35kg	
305934	ST25-ER16-150-8PCS	3-10	ER16 8PCS	1.30kg	
305936	ST20-ER20-50-12PCS	2-13	ER20 12PCS	1.20kg	
305938	ST20-ER20-50-10PCS	4-13	ER20 10PCS	1.15kg	
305940	ST20-ER20-100-12PCS	2-13	ER20 12PCS	1.30kg	
305942	ST20-ER20-100-10PCS	4-13	ER20 10PCS	1.25kg	
305944	ST20-ER20-150-12PCS	2-13	ER20 12PCS	1.40kg	
305946	ST20-ER20-150-10PCS	4-13	ER20 10PCS	1.35kg	
305948	ST25-ER20-50-12PCS	2-13	ER20 12PCS	1.30kg	
305950	ST25-ER20-50-10PCS	4-13	ER20 10PCS	1.25kg	
305952	ST25-ER20-100-12PCS	2-13	ER20 12PCS	1.40kg	
305954	ST25-ER20-100-10PCS	4-13	ER20 10PCS	1.35kg	
305956	ST25-ER20-150-12PCS	2-13	ER20 12PCS	1.50kg	
305958	ST25-ER20-150-10PCS	4-13	ER20 10PCS	1.45kg	
305960	ST20-ER25-50-15PCS	2-16	ER25 15PCS	2.40kg	
305962	ST20-ER25-50-7PCS	4-16	ER25 7PCS	1.90kg	
305964	ST20-ER25-100-15PCS	2-16	ER25 15PCS	2.40kg	
305966	ST20-ER25-100-7PCS	4-16	ER25 7PCS	1.90kg	
305968	ST20-ER25-150-15PCS	2-16	ER25 15PCS	2.50kg	
305970	ST20-ER25-150-7PCS	4-16	ER25 7PCS	2.00kg	
305972	ST25-ER25-100-15PCS	2-16	ER25 15PCS	2.50kg	
305974	ST25-ER25-100-7PCS	4-16	ER25 7PCS	2.00kg	
305976	ST25-ER25-150-15PCS	2-16	ER25 15PCS	2.65kg	
305978	ST25-ER25-150-7PCS	4-16	ER25 7PCS	2.20kg	
305980	ST32-ER25-60-15PCS	2-16	ER25 15PCS	2.50kg	
305982	ST32-ER25-60-7PCS	4-16	ER25 7PCS	2.00kg	
305984	ST25-ER32-80-18PCS	3-20	ER32 18PCS	4.10kg	
305986	ST25-ER32-80-11PCS	4-20	ER32 11PCS	3.00kg	
305988	ST25-ER32-80-6PCS	6-20	ER32 6PCS	2.70kg	
305990	ST32-ER32-100-18PCS	3-20	ER32 18PCS	4.30kg	
305992	ST32-ER32-100-11PCS	4-20	ER32 11PCS	3.20kg	
305994	ST32-ER32-100-6PCS	6-20	ER32 6PCS	2.90kg	
305996	ST40-ER32-100-18PCS	3-20	ER32 18PCS	4.50kg	
305998	ST40-ER32-100-11PCS	4-20	ER32 11PCS	3.40kg	
306000	ST40-ER32-100-6PCS	6-20	ER32 6PCS	3.10kg	
306002	ST32-ER40-100-23PCS	4-26	ER40 23PCS	7.30kg	
306004	ST32-ER40-100-15PCS	4-26	ER40 15PCS	6.10kg	
306006	ST32-ER40-100-7PCS	6-25	ER40 7PCS	4.60kg	
306008	ST40-ER40-100-23PCS	4-26	ER40 23PCS	7.60kg	
306010	ST40-ER40-100-15PCS	4-26	ER40 15PCS	6.50kg	
306012	ST40-ER40-100-7PCS	6-25	ER40 7PCS	5.00kg	

C/ER 直柄弹性筒夹本体（M型） Straight Shank



单位:mm

订购编号 Order No.	型 号 Model	L1	D1	L	D	型式	价格 Price
305800	C16-ER11-50M	50	16	12	28	ER11	485
305802	C16-ER11-100M	100					535
305804	C20-ER16-50M	50	20	18	22	ER16	485
305806	C20-ER16-100M	100					535
305808	C20-ER16-150M	150			28		645
305810	C20-ER20-50M	50		19		ER20	485
305812	C20-ER20-100M	100					535
305814	C20-ER20-150M	150					645
305816	C25-ER20-50M	50	25	19	28	ER20	485
305818	C25-ER20-100M	100					535
305820	C25-ER20-150M	150					645

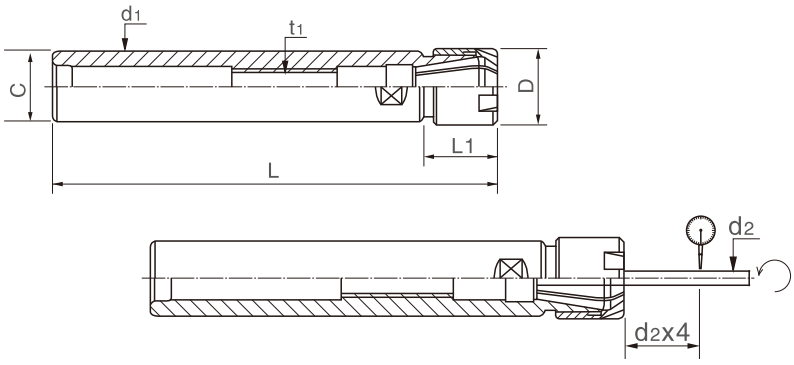
ST/ER 铣床夹头组 Milling chuck group



订购编号 Order No.	型 号 Model	Set Range	Collet	重量 N.W.	价格 Price
306100	ST16-ER11M-50-13PCS	1-7	ER11 13PCS	0.60kg	
306102	ST16-ER11M-100-13PCS	1-7	ER11 13PCS	0.70kg	
306104	ST16-ER16M-100-10PCS	1-10	ER16 10PCS	1.00kg	
306106	ST20-ER16M-50-10PCS	1-10	ER16 10PCS	1.05kg	
306108	ST20-ER16M-100-10PCS	1-10	ER16 10PCS	1.10kg	
306110	ST20-ER16M-150-10PCS	1-10	ER16 10PCS	1.20kg	
306112	ST25-ER16M-100-10PCS	1-10	ER16 10PCS	1.20kg	
306114	ST25-ER16M-150-10PCS	1-10	ER16 10PCS	1.35kg	
306116	ST20-ER20M-50-12PCS	2-13	ER20 12PCS	1.20kg	
306118	ST20-ER20M-100-12PCS	2-13	ER20 12PCS	1.30kg	
306120	ST20-ER20M-150-12PCS	2-13	ER20 12PCS	1.40kg	
306122	ST25-ER20M-100-12PCS	2-13	ER20 12PCS	1.40kg	
306124	ST25-ER20M-150-12PCS	2-13	ER20 12PCS	1.50kg	

C-ER-M直柄ER筒夹延长杆
C-ER-M STRAICHT SHANK ER COLLET CHUCK HOLDER





型号说明 Model explanation

C20 - SK - 10 - 150
- C20：刀柄形状
- SK：夹头略号
- 10：最大把握直径
- 150：从基准面开始的长度

订购编号 Order No.	型 号 Model	把握直径 Chucking Dia	D	C	L1	L	螺帽 nut	筒夹 Collet	扳手 spanner	单价 PRICE (RMB)
306200	C12-ER11-100M	2.0～7.0	16	12	16.6	100	ER11M	ER11	ER11M	350
306202	-ER11-150M				16.6	150				400
306204	C16-ER11-100M	2.0～7.0	16	16	16.6	100	ER11M	ER11	ER11M	350
306206	-ER11-150M				16.6	150				400
306208	-ER16-100M	3.0~10	22		25	100	ER16M	ER16	ER16M	300
306210	-ER16-150M				25	150				350
306212	-ER16-200M				25	200				400
306214	-ER20-100M	3.0~13	28		40	100	ER20M	ER20	ER20M	300
306216	-ER20-150M				40	150				350
306218	C20-ER16-100M	3.0~10	22	20	40	100	ER16M	ER16	ER16M	300
306220	-ER16-150M				40	150				350
306222	-ER20-100M	3.0~13	28		40	100	ER20M	ER20	ER20M	300
306224	-ER20-150M				40	150				350
306226	-ER25-100M	3.0～16.0	35		40	100	ER25UM	ER25	ER25UM	400
306228	-ER25-150M				50	150				450
306230	C25-ER20-100M	3.0~13	28	25	40	100	ER20M	ER20	ER20M	350
306232	-ER20-150M				40	150				400
306234	-ER25-100M	3.0～16.0	35		50	100	ER25UM	ER25	ER25UM	400
306236	-ER25-150M				50	150				450

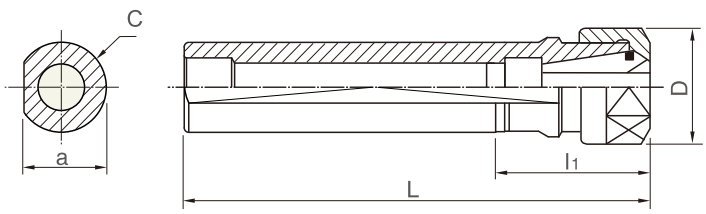
ER延长杆(车床用)
ER EXTENSION(FOR LATHE)

C20 – ER 16 –100



型号说明 Model explanation

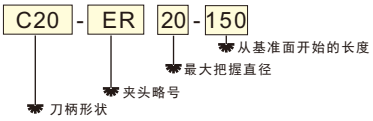
C20 - ER - 16 - 100
- C20：刀柄形状
- ER：夹头略号
- 16：最大把握直径
- 100：从基准面开始的长度



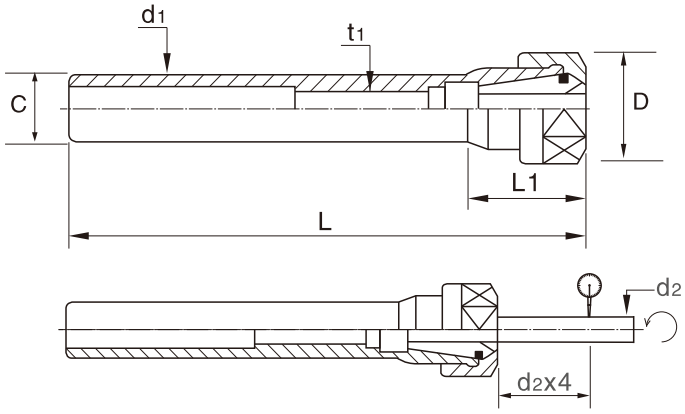
订购编号 Order No.	型 号 Model	尺寸Size					螺帽 nut	筒夹 Colletnut	扳手 Spanner	单价 PRICE (RMB)
		L	L1	a	D	C				
306300	C20-ER16-100A	100	30	19	28	20	ER16A	ER16	ER16A	350
306302	C20-ER20-100A	100	30	19	34	20	ER20A	ER20	ER20A	350
306304	C25-ER20-100A	100	30	24	34	25	ER20A	ER20	ER20A	400
306306	C20-ER11-100A	100	30	19	19	20	ER11A	ER11	ER11A	400
306308	C25-ER11-100A	100	30	29	19	25	ER11A	ER11	ER11A	450
306310	C25-ER16-100M	100	30	19	22	20	ER16M	ER16	ER16M	400
306312	C32-ER20-100M	100	30	19	28	20	ER20M	ER20	ER20M	450
306314	C25-ER20-100M	100	30	24	28	25	ER20M	ER20	ER20M	400

C-ER-A直柄ER筒夹延长杆
C-ER-A STRAICHT SHANK ER COLLET CHUCK HOLDER

型号说明 Model explanation



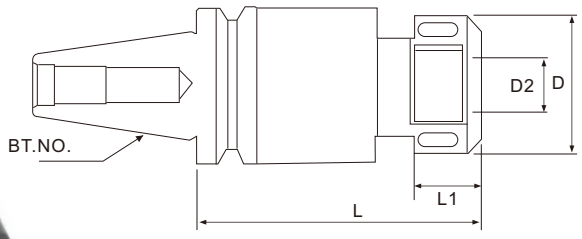




订购编号 Order No.	型 号 Model	把握直径 Chucking Dia	D	C	L1	L	螺帽 nut	筒夹 Collet	扳手 spanner	单价 PRICE (RMB)
306400	C12-ER11-50	2.0~7	16.8	12	16.6	50	ER11A	ER11	ER11A	350
306402	-ER11-100				16.6	100				350
306404	C16-ER11-50	2.0~7	16.8	16	16.6	50	ER11A	ER11	ER11A	350
306406	-ER11-100				16.6	100				350
306408	-ER11-150				16.6	150				400
306410	-ER16-100	3.0~10	24.9		40.0	100	ER16A	ER16	ER16A	300
306412	-ER16-150				40.0	150				350
306414	-ER16-200				40.0	200				400
306416	-ER20-100	3.0~13	29.8		40.0	100	ER20A	ER20	ER20A	300
306418	-ER20-150				40.0	150				350
306420	C20-ER11-100	2.0~7	16.8	20	16.6	100	ER11A	ER11	ER11A	400
306422	-ER11-150				16.6	150				400
306424	-ER11-200				16.6	200				500
306426	-ER16-100	3.0~10	24.9		40.0	100	ER16A	ER16	ER16A	300
306428	-ER16-150				40.0	150				350
306430	-ER16-200				40.0	200				400
306432	-ER20-100	3.0~13	29.8		40.0	100	ER20A	ER20	ER20A	300
306434	-ER20-150				40.0	150				350
306436	-ER20-200				40.0	200				400
306438	-ER25-100	3.0~16	42		50.0	100	ER25UM	ER25	ER25UM	350
306440	-ER25-150				50.0	150				400
306442	C25-ER16-100	3.0~10	249	25	40.0	100	ER16A	ER16	ER16A	350
306444	-ER16-150				40.0	150				400
306446	-ER16-200				40.0	200				450
306448	-ER20-100	3.0~13	29.8		40.0	100	ER20A	ER20	ER20A	400
306450	-ER20-150				40.0	150				450
306452	-ER20-200				40.0	200				500
306454	-ER25-100	3.0~16	42		50.0	100	ER25UM	ER25	ER25UM	400
306456	-ER25-150				50.0	150				450
306458	-ER25-200				50.0	200				500
306460	C25-ER20-150	3.0~13	29.8	32	40.0	150	ER20A	ER20	ER20A	450
306462	-ER20-200				40.0	200				500
306464	-ER25-150	3.0~16	42		50.0	150	ER25UM	ER25	ER25UM	500
306466	-ER25-200				50.0	200				550
306468	-ER32-150	3.0~20	50		65.0	150	ER32UM	ER32	ER32UM	550
306470	-ER32-200				65.0	200				600
306472	-ER40-150	6.0~26	63		65.0	150	ER40UM	ER40	ER40UM	600
306474	C42-ER32-100	3.0~20	50	42	65.0	100	ER32UM	ER32	ER32UM	600
306476	-ER40-100	6.0~26	63		65.0	100	ER40UM	ER40	ER40UM	650

OZ立铣刀刀柄
OZ COLLET CHUCK





OZ25

订购时,请确认拉杆螺丝规格为公制或英制。

单位:mm

订购编号 Order No.	型 号 Model	L	D	Collet	Draw Bar	重 量 N. W.	价格 Price
306500	NT30-OZ25-70	70	60	OZ25	M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13)	1.00kg	925
306502	NT40-OZ25-70	70	60	OZ25	M16(M16*2.0P) A06(5/8"-11)	1.30kg	925
306504	NT50-OZ25-73	73	60	OZ25	M24(M24*3.0P) A07(1"-8)	3.20kg	1300
306506	MTB2-OZ25-85	85	60	OZ25	M10(M10*1.5P)	1.00kg	925
306508	MTB3-OZ25-70	70	60	OZ25	M10(M10*1.5P) M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13) A02(3/8"-16)	1.00kg	925
306510	MTB4-OZ25-70	70	60	OZ25	M16(M16*2.0P) A06(5/8"-11)	1.20kg	925
306512	MTB5-OZ25-65	65	60	OZ25	M24(M24*3.0P) A07(1"-8)	2.00kg	1165
306514	R8-OZ25-70	70	60	OZ25	7/16"-20	1.20kg	925
306516	BT30-OZ25-70	70	60	OZ25	M12*1.75P	0.90kg	1085
306518	BT40-OZ25-80	80	60	OZ25	M16*2.0P	1.50kg	1100
306520	BT50-OZ25-100	100	60	OZ25	M24*3.0P	4.30kg	1795
306522	SK40-OZ25-80	80	60	OZ25	M16*2.0P	1.90kg	1220
306524	SK50-OZ25-100	100	60	OZ25	M24*3.0P	4.20kg	1855
306526	CAT40-OZ25-3"	3"	60	OZ25	5/8"-11	1.90kg	1220
306528	CAT50-OZ25-31/2"	31/2"	60	OZ25	1"-8	4.00kg	1850

OZ32

306600	NT30-OZ32-100	100	78	OZ32	M12(M12*1.75P) A04(1/2"-12)	2.00kg	1455
306602	NT40-OZ32-85	85	78	OZ32	M16(M16*2.0P) A06(5/8"-11)	2.20kg	1455
306604	NT50-OZ32-80	80	78	OZ32	M24(M24*3.0P) A07(1"-8)	4.80kg	1650
306606	MTB5-OZ32-100	100	78	OZ32	M24(M24*3.0P) A07(1"-8)	3.00kg	1500
306608	BT40-OZ32-90	90	78	OZ32	M16*2.0P	2.30kg	1520
306610	BT50-OZ32-100	100	78	OZ32	M24*3.0P	5.00kg	2285
306612	BT50-OZ32-150	150	78	OZ32	M24*3.0P	6.00kg	2595
306614	SK40-OZ32-80	80	78	OZ32	M16*2.0P	2.30kg	1580
306616	SK50-OZ32-100	100	78	OZ32	M24*3.0P	5.00kg	2345
306618	CAT40-OZ32-3"	3"	78	OZ32	5/8"-11	2.30kg	1580
306620	CAT50-OZ32-31/2"	31/2"	78	OZ32	1"-8	5.00kg	2345

OZ25 铣床夹
Collets Chuck Kit



套装公制筒夹型号

7PCS:6，8，10，12，16，20，25

15PCS:3，4，5，6，7，8，9，10，11，12，13，16，18，20，25

订购编号 Order No.	型 号 Model	个数 Number	拉杆螺纹	重量 N.W.	价格 Price
306700	NT30-OZ25	7	M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13)	3.7kg	
306702	NT30-OZ25	15		5.2kg	
306704	NT40-OZ25	7	M16(M16*2.0P)A06(5/8"-11)	4.0kg	
306706	NT40-OZ25	15		5.5kg	
306708	NT50-OZ25	7	M24(M24*3.0P)A07(1"-8)	6.5kg	
306710	NT50-OZ25	15		8.5kg	
306712	MTB2-OZ25	7	M10(M10*1.5P)A02(3/8"-16)	3.6kg	
306714	MTB2-OZ25	15		5.1kg	
306716	MTB3-OZ25	7	M10(M10*1.5P) M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13) A02(3/8"-16)	3.7kg	
306718	MTB3-OZ25	15		5.2kg	
306720	MTB4-OZ25	7	M16(M16*2.0P) A06(5/8"-11)	3.9kg	
306722	MTB4-OZ25	15		5.4kg	
306724	MTB5-OZ25	7	M24(M24*3.0P)A07(1"-8)	4.7kg	
306726	MTB5-OZ25	15		6.2kg	
306728	R8-OZ25	7	7/16"-20	3.7kg	
306730	R8-OZ25	15		5.2kg	
306732	BT40-OZ25	7		4.4kg	
306734	BT40-OZ25	15		5.9kg	
306736	BT50-OZ25	7		7.5kg	
306738	BT50-OZ25	15		9.5kg	
306740	SK40-OZ25	7	DIN69871A40 M16*2.0P	4.2kg	
306742	SK40-OZ25	15		5.7kg	
306744	SK50-OZ25	7	DIN69871A50 M24*3.0P	7.3kg	
306746	SK50-OZ25	15		9.3kg	

OZ32 铣床夹头组
Collets Chuck Kit



套装公制筒夹型号

8PCS:6，8，10，12，16，20，25，32

15PCS:6，8，10，12，13，14，15，16，18，20，22，25，26，30，32

订购编号 Order No.	型 号 Model	个数 Number	拉杆螺纹	重量 N. W.	价格 Price
306800	NT30-OZ32	8	M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13)	7. 0kg	
306802	NT30-OZ32	15		9. 0kg	
306804	NT40-OZ32	8	M16(M16*2.0P)A06(5/8"-11)	7. 2kg	
306806	NT40-OZ32	15		9. 2kg	
306808	NT50-OZ32	8	M24(M24*3.0P)A07(1"-8)	9. 8kg	
306810	NT50-OZ32	15		11. 8kg	
306812	MTB5-OZ32	8	M24(M24*3.0P)A07(1"-8)	8. 0kg	
306814	MTB5-OZ32	15		10. 0kg	
306816	BT40-OZ32	8		7. 4kg	
306818	BT40-OZ32	15		9. 4kg	
306820	BT50-OZ32	8		10. 0kg	
306822	BT50-OZ32	15		12. 0kg	
306824	SK40-OZ32	8	DIN69871A40 M16*2.0P	7. 2kg	
306826	SK40-OZ32	15		9.2kg	
306828	SK50-OZ32	8	DIN69871A50 M24*3.0P	9. 8kg	
306830	SK50-OZ32	15		11. 8kg	

FDER径向浮动铰孔刀柄
Radial Floating Reaming Tool Holder

C20-FDER16-55-D39
- 柄部 Shank No.
- 外径 Outside Diameter
- 长度 Length
- 筒夹 Collet





径向浮动攻牙刀柄
Radial Floating Tapping Tool Holder



型号 Model No .	单价 Price
C10-FDER11-50-D22	
C12-FDER11-50-D22	
C16-FDER11-50-D22	
C16-FDER16-55-D39	
C16-FDER16-65-D58	
C16-FDER20-55-D39	
C16-FDER20-65-D58	
C16-FDER25-65-D58	
C20-FDER11-25-D19	
C20-FDER11-50-D22	
C20-FDER16-55-D39	
C20-FDER16-65-D58	
C20-FDER20-55-D39	
C20-FDER20-65-D58	
C20-FDER25-65-D58	
C20-FDER32-75-D66	
C22-FDER11-25-D19	
C22-FDER11-50-D22	
C25-FDER11-25-D19	
C25-FDER16-65-D58	
C25-FDER20-65-D58	
C25-FDER25-65-D58	
C25-FDER32-75-D66	
C32-FDER16-65-D58	
C32-FDER20-65-D58	
C32-FDER25-65-D58	
C32-FDER32-75-D66	

型号 Model No .	单价 Price
C3/4"-FDER11-25-D19	
C3/4"-FDER11-50-D22	
C3/4"-FDER16-55-D39	
C3/4"-FDER20-55-D39	
C1"-FDER11-25-D19	
B16-FDER16-65-D58	
B16-FDER20-65-D58	
B16-FDER25-65-D58	
B18-FDER16-65-D58	
B18-FDER20-65-D58	
B18-FDER25-65-D58	
JT6-FDER16-65-D58	
JT6-FDER20-65-D58	
JT6-FDER25-65-D58	
BT30-FDER16-76-D39	
BT30-FDER20-76-D39	
BT30-FDER32-86-D66	
BT40-FDER20-86-D58	
BT40-FDER25-86-D58	
BT40-FDER32-86-D66	

通水型

型号 Model No .	单价 Price
BT30-FDER32T-130-D69	
BT40-FDER32T-135-D69	
C16-FDER11T-50-D25	
C16-FDER16T-60-D39	
C16-FDER20T-60-D39	
C20-FDER11T-50-D25	
C20-FDER16T-60-D39	
C20-FDER20T-60-D39	
C22-FDER11T-50-D25	
C22-FDER16T-60-D39	
C22-FDER20T-60-D39	
C25-FDER16T-60-D39	
C25-FDER20T-60-D39	
C25-FDER32T-90-D69	

侧固式

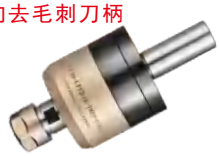


型号 Model No .	单价 Price
C20-FDCG20-83-D66	
C20-FDCG25-83-D66	
C25-FDCG20-83-D66	
C25-FDCG25-83-D66	
C32-FDCG20-83-D66	
C32-FDCG25-83-D66	
BT30-FDCG20-113-D66	
BT30-FDCG25-113-D66	
BT40-FDCG20-115-D66	
BT40-FDCG25-115-D66	

攻牙刀柄

型号 Model No .	单价 Price
C16-FDG3-80-D58	
C20-FDG3-80-D58	
C25-FDG3-80-D58	
JT6-FDG3-80-D58	
B16-FDG3-80-D58	
B18-FDG3-80-D58	

万向去毛刺刀柄



型号 Model No .	单价 Price
C20-UFER16-100-D62	
C25-UFER16-100-D62	



型号 Model No .	单价 Price
BT30-UFER16-135-D62	
BT40-UFER16-140-D62	
BT50-UFER16-150-D62	
JT40-UFER16-135-D62	

GTP 扭力伸缩攻牙保护刀柄
Torsion Telescopic Tapping Protection Holder

BT30 - GTP 3 - 80
- 柄部 Shank No.
- 长度 Length
- 筒夹 Collet
- 功能 Function





型号 Model No .	单价 Price
MTA3-GTP3-90	
MTA4-GTP3-90	
MTA4-GTP12-110	
MTA5-GTP12-110	
MTA5-GTP24-140	

型号 Model No .	单价 Price
JT30-GTP3-60	
JT40-GTP3-58	
JT40-GTP12-138	
JT50-GTP3-58	
JT50-GTP12-89	
JT50-GTP24-150	









型号 Model No .	单价 Price
BT30-GTP3-80	
BT40-GTP3-85	
BT40-GTP12-122	
BT50-GTP3-95	
BT50-GTP12-132	
BT50-GTP24-150	

型号 Model No .	单价 Price
HSK63A-GTP3-105	
HSK63A-GTP12-140	
HSK100A-GTP3-110	
HSK100A-GTP12-120	
HSK100A-GTP24-140	

型号 Model No .	单价 Price
CAT30-GTP3-65	
CAT40-GTP3-65	
CAT40-GTP12-135	
CAT50-GTP3-70	
CAT50-GTP12-150	
CAT50-GTP24-150	

型号 Model No .	单价 Price
C16-GTP3-86	
C20-GTP3-86	
C25-GTP3-86	
C32-GTP3-86	
C25-GTP12-130	
C32-GTP12-130	

G 柔性伸缩攻牙保护刀柄

Flexible Telescopic Tapping Protection Tool Holder

BT30 - G - 3 - 105 - D19

- BT30 → 柄部 Shank No.
- G → 功能 Function
- 3 → 筒夹 Collet
- 105 → 长度 Length
- D19 → 外径 Outside Diameter









型号 Model No .	单价 Price
BT30-G3-105-D19	
BT40-G3-90-D19	
BT40-G3-180-D19	
BT50-G3-100-D19	
BT50-G3-200-D19	
BT40-G12-145-D30	
BT40-G12-145-D31	
BT50-G12-140-D30	
BT50-G12-140-D31	
BT50-G12-210-D30	
BT50-G12-210-D31	
BT50-G24-175-D45	

型号 Model No .	单价 Price
C16-60-G3-90-D19	
C20-60-G3-90-D19	
C20-100-G3-90-D19	
C25-60-G3-90-D19	
C32-60-G3-90-D19	
C25-100-G12-120-D30	
C25-100-G12-125-D31	
C32-70-G12-120-D30	
C32-70-G12-120-D31	









型号 Model No .	单价 Price
BT30-G3-300-D19	
BT40-G3-300-D19	
BT40-G3-400-D19	
BT40-G3-500-D19	
BT50-G3-300-D19	
BT50-G3-400-D19	
BT50-G3-500-D19	

型号 Model No .	单价 Price
HSK63A-G3-90-D19	
HSK63A-G12-125-D30/31	
HSK100A-G3-125-D19	
HSK100A-G12-150-D30/31	
HSK100A-G24-167-D45	

型号 Model No .	单价 Price
B12-G3-66-D19	
B16-G3-66-D19	
B18-G3-74-D19	
JT2-G3-66-D19	
JT6-G3-66-D19	
C14-G3-66-D19	
C20-G3-74-D19	

型号 Model No .	单价 Price
B18-G12-94.5-D30	
B18-G12-99.5-D31	
B22-G12-94.5-D30	
B22-G12-99.5-D31	
C20-G12-94.5-D30	
C20-G12-99.5-D31	









型号 Model No .	单价 Price
MTA2-G3-90-D19	
MTA3-G3-90-D19	
MTA4-G3-90-D19	
MTA5-G3-90-D19	
MTA3-G12-120-D30	
MTA3-G12-125-D31	
MTA4-G12-120-D30	
MTA4-G12-125-D31	
MTA5-G12-120-D30	
MTA5-G12-125-D31	
MTA5-G24-140-D45	

型号 Model No .	单价 Price
MTB2-G3-90-D19	
MTB3-G3-90-D19	
MTB4-G3-90-D19	
MTB3-G12-120-D30	
MTB3-G12-125-D31	
MTB4-G12-120-D30	
MTB4-G12-125-D31	

型号 Model No .	单价 Price
JT30-G3-78-D19	
JT40-G3-82-D19	
JT50-G3-78-D19	
JT40-G12-140-D30	
JT40-G12-140-D31	
JT50-G12-125-D30	
JT50-G12-125-D31	
JT50-G24-155-D45	

型号 Model No .	单价 Price
NT30-G3-107-D19	
NT40-G3-75-D19	
NT50-G3-80-D19	
NT40-G12-128-D30	
NT40-G12-134-D31	
NT50-G12-108-D30	
NT50-G12-113-D31	
NT50-G24-150-D45	

VER 微伸缩攻牙保护刀柄

Micro Telescopic Tapping Protection Tool Holder

BT30 - VER 16 - 100
- 柄部 Shank No.
- 功能 Function
- 筒夹 Collet
- 长度 Length







型号 Model No .	单价 Price
HSK63A-VER16-116	
HSK63A-VER20-117	
HSK63A-VER25-118	
HSK63A-VER32-119	
HSK100A-VER16-125	
HSK100A-VER20-135	
HSK100A-VER25-145	
HSK100A-VER32-155	

型号 Model No .	单价 Price
C20-VER16-86	
C20-VER20-87	
C20-VER25-88	
C20-VER32-90	
C25-VER16-86	
C25-VER20-87	
C25-VER25-88	
C25-VER32-90	
C32-VER16-86	
C32-VER20-87	
C32-VER25-89	
C32-VER32-90	

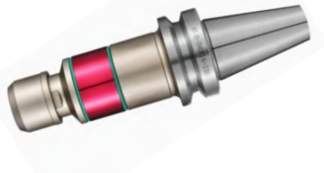
型号 Model No .	单价 Price
BT30-VER16-100	
BT30-VER20-102	
BT30-VER25-103	
BT30-VER32-105	
BT40-VER16-105	
BT40-VER20-106	
BT40-VER25-108	
BT40-VER32-110	
BT50-VER16-110	
BT50-VER20-112	
BT50-VER25-113	
BT50-VER32-115	

SVER 微伸缩同步攻牙保护刀柄

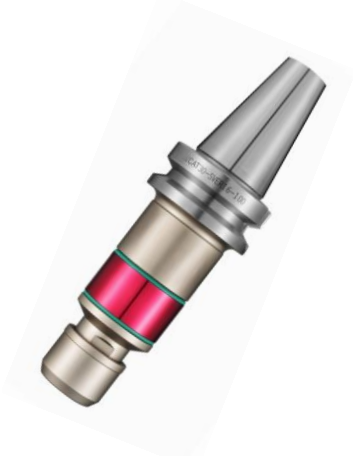
Micro Telescopic Synchronous Tapping Protection Tool Holder

BT30 - SVER 16 - 100
- 柄部 Shank No.
- 功能 Function
- 筒夹 Collet
- 长度 Length





型号 Model No .	单价 Price
BT30-SVER16-100	
BT30-SVER16-150	
BT30-SVER16-200	
BT30-SVER20-100	
BT30-SVER20-150	
BT30-SVER20-200	
BT30-SVER25-100	
BT30-SVER25-150	
BT30-SVER25-200	
BT30-SVER32-150	
BT30-SVER32-200	
BT40-SVER16-100	
BT40-SVER16-150	
BT40-SVER16-200	
BT40-SVER20-100	
BT40-SVER20-150	
BT40-SVER20-200	
BT40-SVER25-100	
BT40-SVER25-150	
BT40-SVER25-200	
BT40-SVER32-150	
BT40-SVER32-200	
BT50-SVER16-100	
BT50-SVER16-150	
BT50-SVER16-200	
BT50-SVER20-100	
BT50-SVER20-150	
BT50-SVER20-200	
BT50-SVER25-100	
BT50-SVER25-150	
BT50-SVER25-200	
BT50-SVER32-100	
BT50-SVER32-150	
BT50-SVER32-200	





型号 Model No .	单价 Price
HSK63A-SVER16-100	
HSK63A-SVER16-150	
HSK63A-SVER16-200	
HSK63A-SVER20-100	
HSK63A-SVER20-150	
HSK63A-SVER20-200	
HSK63A-SVER25-100	
HSK63A-SVER25-150	
HSK63A-SVER25-200	
HSK63A-SVER32-100	
HSK63A-SVER32-150	
HSK63A-SVER32-200	
HSK100A-SVER16-100	
HSK100A-SVER16-150	
HSK100A-SVER16-200	
HSK100A-SVER20-100	
HSK100A-SVER20-150	
HSK100A-SVER20-200	
HSK100A-SVER25-100	
HSK100A-SVER25-150	
HSK100A-SVER25-200	
HSK100A-SVER32-100	
HSK100A-SVER32-150	
HSK100A-SVER32-200	

型号 Model No .	单价 Price
CAT30-SVER16-100	
CAT30-SVER20-100	
CAT40-SVER16-100	
CAT40-SVER20-100	
CAT40-SVER25-100	
CAT40-SVER32-100	
CAT50-SVER25-100	
CAT50-SVER32-100	

型号 Model No .	单价 Price
C16-SVER16	
C16-SVER20	
C20-SVER16	
C20-SVER20	
C25-SVER16	
C25-SVER20	
C25-SVER25	
C32-SVER25	
C32-SVER32	

TER 刚性攻牙保护刀柄

Rigid Tapping Protection Tool Holder



BT30 - TER 16 - 113

- BT30 — 柄部 Shank No.
- TER — 功能 Function
- 16 — 筒夹 Collet
- 113 — 长度 Length

型号 Model No .	单价 Price
BT30-TER16-113	
BT30-TER16-195	
BT30-TER20-115	
BT30-TER25-120	
BT30-TER32-125	
BT30-TER40-155	
BT40-TER16-108	
BT40-TER16-185	
BT40-TER16-200	
BT40-TER20-110	
BT40-TER20-187	
BT40-TER25-112	
BT40-TER25-189	
BT40-TER32-115	
BT40-TER32-185	
BT40-TER40-145	
BT40-TER40-205	
BT50-TER16-117	
BT50-TER16-168	
BT50-TER16-210	
BT50-TER20-119	
BT50-TER20-170	
BT50-TER20-217	
BT50-TER25-120	
BT50-TER25-172	
BT50-TER25-219	
BT50-TER32-120	
BT50-TER32-168	
BT50-TER32-215	
BT50-TER32-220	
BT50-TER40-142	
BT50-TER40-185	
BT50-TER40-235	



型号 Model No .	单价 Price
HSK63A-TER16-133	
HSK63A-TER16-170	
HSK63A-TER20-134	
HSK63A-TER25-135	
HSK63A-TER32-138	
HSK63A-TER40-160	
HSK100A-TER16-138	
HSK100A-TER16-170	
HSK100A-TER20-139	
HSK100A-TER25-140	
HSK100A-TER32-142	
HSK100A-TER40-164	



型号 Model No .	单价 Price
MTB2-TER16-106	
MTB2-TER20-107	
MTB3-TER16-106	
MTB3-TER20-107	
MTB3-TER25-108	
MTB3-TER32-110	
MTB4-TER16-106	
MTB4-TER20-107	
MTB-TER25-108	
MTB4-TER32-110	



型号 Model No .	单价 Price
MTA2-TER16-106	
MTA2-TER20-107	
MTA3-TER16-106	
MTA3-TER20-107	
MTA3-TER25-108	
MTA3-TER32-110	
MTA4-TER16-106	
MTA4-TER20-107	
MTA4-TER25-108	
MTA4-TER32-110	
MTA5-TER20-110	
MTA5-TER25-120	
MTA5-TER32-130	
MTA5-TER40-131	



型号 Model No .	单价 Price
NT30-TER16-96	
NT30-TER20-101	
NT30-TER25-106	
NT30-TER32-111	
NT30-TER40-136	
NT40-TER16-91	
NT40-TER16-170	
NT40-TER20-92	
NT40-TER25-92	
NT40-TER32-94	
NT40-TER40-114	
NT50-TER16-91	
NT50-TER16-170	
NT50-TER20-92	
NT50-TER25-92	
NT50-TER32-95	
NT50-TER40-115	

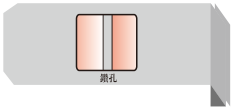


型号 Model No .	单价 Price
JT30-TER16-96	
JT30-TER20-101	
JT30-TER25-106	
JT30-TER32-111	
JT30-TER40-136	
JT40-TER16-97	
JT40-TER16-170	
JT40-TER20-98	
JT40-TER25-99	
JT40-TER32-100	
JT40-TER40-120	
JT50-TER16-97	
JT50-TER16-170	
JT50-TER20-98	
JT50-TER25-99	
JT50-TER32-100	
JT50-TER40-120	



型号 Model No .	单价 Price
C16-TER16-106	
C16-TER16-170	
C16-TER20-107	
C16-TER25-108	
C20-TER16-106	
C20-TER16-170	
C20-TER20-107	
C20-TER25-108	
C20-TER32-110	
C25-TER16-106	
C25-TER16-170	
C25-TER20-107	
C25-TER25-108	
C25-TER32-110	
C32-TER16-106	
C32-TER16-170	
C32-TER20-107	
C32-TER25-108	
C32-TER32-114	

BT-APU 一体式钻夹头
BT-APU DRILL CHUCK



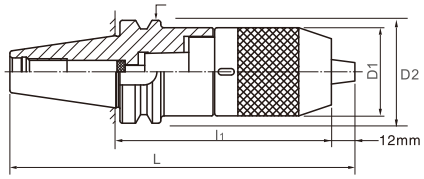


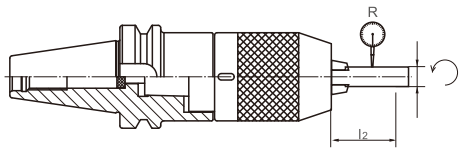
- 请把刃具柄部插到夹头后，使柄部分插入夹头。
  刃具时请将刃具的柄径部分全部插入。
- 特别是小径的情况下，请确认跳动精度。
- 刃具夹紧时，刃具先插夹头，用手扭紧，最后用专用扳手强力锁紧

- Please inserts the cutting tool handle department after the caridge,do cause the handle part insertion cartridge.Locks when the cutting tool please completely insert cutting tool's handle diameter part.
- Specially in trail's situation,please confirm that beats the precision.
- When the cutting tool clamps,the cutting tool inserts the cartridge first,turns tight with the hand,finally uses the special spanner force to lock.

型號說明 Model explanation







跳動精度<0.05MM

订购编号 Order No.	型号 Cat. No.	把握直径 Chucking Dia	D1	D2	L1	L	扳手 spanner 标配品	重量 Weight（KG）	单价 PRICE (RMB)
307100	BT30- APU8-75	0.3～8	37	46	75	128.4	APU8	0.80	1500
307102	BT40- APU8-85	0.3～8	37		85	150.4	APU8	1.46	1500
307104	- APU13-110	1～13	50	63	110	165.4	APU13	2.00	1200
307106	- APU16-120	3～16	57		120	195.4	APU16	2.60	1500
307108	BT50- APU13-110	1～13	50	100	110	201.8	APU13	4.70	1800
307110	- APU16-130	3～16	57		130	236.8	APU16	4.80	2750

APU 高精度钻夹头刀柄
High Precision Drill Chuck Tool Holder









型号 Model No .	单价 Price
BT30-APU08-80	
BT30-APU13-100	
BT30-APU16-110	
BT40-APU08-90	
BT40-APU13-110	
BT40-APU13-150	
BT40-APU13-200	
BT40-APU16-120	
BT40-APU16-150	
BT40-APU16-200	
BT50-APU08-90	
BT50-APU13-110	
BT50-APU13-180	
BT50-APU13-230	
BT50-APU13-300	
BT50-APU16-120	
BT50-APU16-180	
BT50-APU16-230	
BT50-APU16-300	

型号 Model No .	单价 Price
NT30-APU08-80	
NT30-APU13-100	
NT40-APU08-80	
NT40-APU13-95	
NT40-APU16-105	
NT50-APU13-85	
NT50-APU16-100	

型号 Model No .	单价 Price
SK40-APU13-110	
SK40-APU16-110	
SK50-APU13-100	
SK50-APU13-120	
SK50-APU16-120	
SK50-APU16-190	

型号 Model No .	单价 Price
HSK32E-APU08	
HSK40E-APU08	
HSK50E-APU13-140L	
HSK50A-APU08-120	
HSK50A-APU13-140	
HSK63A-APU08-120	
HSK63A-APU13	
HSK63A-APU13-155	
HSK63A-APU16	
HSK63A-APU16-160	
HSK100A-APU13-155	
HSK100A-APU16-160	







型号 Model No .	单价 Price
NBT30-APU08-80	
NBT30-APU13-100	

型号 Model No .	单价 Price
CAT40-APU08-90	
CAT40-APU13-100	
CAT40-APU16-100	
CAT50-APU13-110	
CAT50-APU16-120	

型号 Model No .	单价 Price
ISO20-APU08	
ISO25-APU13	
ISO30-APU08	
ISO30-APU13	
ISO30-APU16	

JM一体式钻夹头
JM DRILL CHUCK

整体式自紧钻夹头
Grated kyiess drill chuck



MT:莫氏锥度柄

型号 Model No.	夹持范围 Clamp Scope		连接尺寸 Mounts	长度 Length(mm)			重量 Weight kg	单价 Price
	mm	inch		A	B	D (外径)		
MTA2-APU08	0.2~8	1/64"~5/16"	MTA2	140.5	60.5	37	0.45	
MTA2-APU13	0.2~13	1/64"~1/2"	MTA2	160	80	50.5	1.00	
MTA3-APU13	0.2~13	1/64"~1/2"	MTA3	179	80	50.5	1.08	
MTA4-APU13	0.2~13	1/64"~1/2"	MTA4	205	81	50.5	1.48	
MTA5-APU13	0.2~13	1/64"~1/2"	MTA5	220	80	50.5		
MTA2-APU16	0.2~16	1/64"~5/8"	MTA2	165	85	57	1.30	
MTA3-APU16	0.2~16	1/64"~5/8"	MTA3	184	85	57	1.40	
MTA4-APU16	0.2~16	1/64"~5/8"	MTA4	209	85	57	1.70	
MTA5-APU16	0.2~16	1/64"~5/8"	MTA5	225	85	57		



C:直柄

型号 Model No.	夹持范围 Clamp Scope		连接尺寸 Mounts	长度 Length(mm)			重量 Weight kg	单价 Price
	mm	inch		A	B	D (外径)		
C20-APU08	0.2~8	1/64"~5/16"	C20	120.5	60.5	37	0.52	600
C20-APU13	0.2~13	1/64"~1/2"	C20	140	80	50.5	0.98	600
C25-APU13	0.2~13	1/64"~1/2"	C25	160	80	50.5	1.12	700
C32-APU13	0.2~13	1/64"~1/2"	C32	161	81	50.5	1.37	800
C20-APU16	0.2~16	1/64"~5/8"	C20	145	85	57	1.33	600
C25-APU16	0.2~16	1/64"~5/8"	C25	165	85	57	1.48	700
C32-APU16	0.2~16	1/64"~5/8"	C32	165	85	57	1.66	800

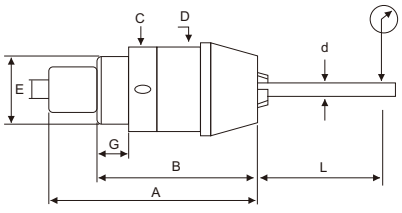


R8:不规则柄

型号 Model No.	夹持范围 Clamp Scope		连接尺寸 Mounts	长度 Length(mm)			重量 Weight kg	单价 Price
	mm	inch		A	B	D (外径)		
R8-APU13	0.2~13	1/64"~1/2"	R8	186	81	50.5	1.25	700
R8-APU16	0.2~16	1/64"~5/8"	R8	190	85	57	1.54	800

拥有可搭配不同刀柄座规格之多种选择，当您使用于综合切削机时可迅速更换。
Multi-choices of arborsspecification offerquickchange on integrated cuttingmachine.

自紧式钻夹头系列
DRILL CHUCK





订购编码 Order Number	型号 Model No.	夹持范围 Clamp Scope		连接尺寸 Mounts	A mm	B mm	C mm	D mm	E mm	F mm	G mm	重量 Weight kg	单价 Price
		mm	inch										
307130	APU08	0.2~8	1/64"~5/16"	MT2	85	60.5	36	37.5	M6	30	10	0.37	350
307131	APU10	0.2~10	1/64"~3/8"	MT2	94.5	70	41	43	M6	34	13	0.64	350
307132	APU13	0.2~13	1/64"~1/2"	MT3	107	80	48	50.5	M8	38	15	0.92	350
307133	APU16	0.2~16	1/64"~5/8"	MT3	112	85	54	57	M8	43	16	1.26	400

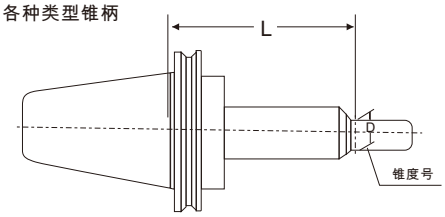
J自紧式钻夹头
J DRILL CHUCK



钻夹头刀柄
DRILL CHUCK ARBOR

订购编码 Order Number	型号、规格 Model & Specification	锥度 Taper	D	L	配用钻夹头 Drill Collet Model	单价 Price
307140	□30-Z10-25	B10	10.094	25	J216(0.6~6)	300
307141	-45			45		300
307142	-Z12-25	B12	12.065	25	J2110(1~10)	300
307143	-45			45		300
307144	-Z16-25	B16	15.733	25	J2113(1~13)	300
307145	-45			45		300
307146	□40-Z10-45	B10	10.094	45	J216(0.6~6)	300
307147	-90			90		300
307148	-Z12-45	B12	12.065	45	J2110(1~10)	300
307149	-90			90		300
307150	-Z16-45	B16	15.733	45	J2113(1~13)	300
307151	-90			90		300
307152	-Z18-45	B18	17.780	45	J2116(3~16)	350
307153	-90			90		350
307154	-Z22-45	B22	21.793	45	J2120(5~20)	400
307155	-90			90		400
307156	□50-Z10-45	B10	10.094	45	J216(0.6~6)	600
307157	-105			105		600
307158	-Z12-45	B12	12.065	45	J2110(1~10)	600
307159	-105			105		600
307160	-Z16-45	B16	15.733	45	J2113(1~13)	600
307161	-105			105		600
307162	-Z18-45	B18	17.780	45	J2116(3~16)	650
307163	-105			105		700
307164	-Z22-60	B22	21.793	60	J2120(5~20)	700
307165	-105			105		800

注：□表示各种类型锥柄





自紧钻夹头
Keyless drill chuck





高速产品

J01 SERIES GRATE M TYPE H MORSE、JACQUARD SHORT TAPER STOCK
J01系列 M级H型莫氏、贾格短锥连接

订购编码 Order Number	型号 Model	夹持范围 Clamp Scope mm	锥孔号 Tapering Hole Number	锥角 Taper	d mm	l mm	D mm	L mm	L1 mm	重量 Weight kg	检验棒 Check Rod 大棒 Big Rod	检验棒 Check Rod 小棒 Small Rod	精度 Precision mm	力矩 N.M	单价 Price
307170	JM013H	0.2~3	B6	2° 51'26.7"	6.350	10.000	24	45.1	41.5	0.100	3×40	/	0.05	0.8	600
307171		1/64"~1/8"	J10	4° 49'24.7"	6.350	11.112									600
307172	JM014H	0.2~4	B10	2° 51'26.7"	10.094	14.500	29	60.8	55	0.190	4×50	/		1.2	550
307173		1/64"~5/32"	J1	4° 24'53.1"	9.754	16.669									550
307174	JM016H	0.2~6	B10	2° 51'26.7"	10.094	14.500	34	70.6	64	0.313	6×50	3×25		3	400
307175		1/64"~1/4"	J1	4° 24'53.1"	9.754	16.669									400
307176	JM018H	0.2~8	B12	2° 51'26.7"	12.065	18.500	39	80.4	73	0.477	8×50	4×25		4	350
307177		1/64"~5/16"	J2	4° 40'11.6"	14.199	22.225									350
307178	JM0110H	0.2~10	B12	2° 51'26.7"	12.065	18.500	44	90.2	82	0.685	10×75	5×37.5		6	350
307179		1/64"~3/8"	J2	4° 40'11.6"	14.199	22.225									350
307180	JM0113H	0.2~13	B16	2° 51'41.0"	15.733	24.000	49	100.6	91	0.946	13×100	6×50		12	300
307181		1/64"~1/2"	J33	3° 38'13.4"	15.850	25.400									300
307182	JM0116H	0.2~16	B18	2° 51'41.0"	17.780	32.000	54	112.2	102	1.270	16×100	8×50		14	350
307183		1/64"~5/8"	J6	2° 58'24.8"	17.170	25.400									350
307184	JM0120H	0.2~20	B22	2° 52'31.5"	21.793	40.500	59	131.5	119	1.717	20×125	10×62.5	0.07	16	500
307185		1/64"~3/4"	J3	3° 3'1.0"	20.599	30.956									500
307186	JM0125H	0.2~25	B22	2° 52'31.5"	21.793	40.500	74	156.5	142	3.430	25×125	13×62.5	0.09	18	800

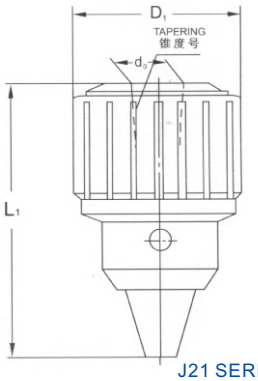
J01 SERIES GRATE PTYPE H MORSE、JACQUARD SHORT TAPER STOCK
J01系列 P级H型莫氏、贾格短锥连接

订购编码 Order Number	型号 Model	夹持范围 Clamp Scope mm	锥孔号 Tapering Hole Number	锥角 Taper	d mm	l mm	D mm	L mm	L1 mm	重量 Weight kg	检验棒 Check Rod 大棒 Big Rod	检验棒 Check Rod 小棒 Small Rod	精度 Precision mm	力矩 N.M	单价 Price
307187	J016L	0.2~6	B10	2° 51'26.7"	10.094	14.500	34	70.6	64	0.313	6×50	3×25	0.12	3	350
307188		1/64"~1/4"	J1	4° 24'53.1"	9.754	16.669									350
307189	J018L	0.2~8	B12	2° 51'26.7"	12.065	18.500	39	80.4	73	0.477	8×50	4×25		4	320
307190		1/64"~5/16"	J2	4° 40'11.6"	14.199	22.225									320
307191	J0110L	0.2~10	B12	2° 51'26.7"	12.065	18.500	44	90.2	82	0.686	10×75	5×37.5		6	320
307192		1/64"~3/8"	J2	4° 40'11.6"	14.199	22.225									320
307193	J0113L	0.2~13	B16	2° 51'41.0"	15.733	24.000	49	100.6	91	0.944	13×100	6×50		12	300
307194		1/64"~1/2"	J33	3° 38'13.4"	15.850	25.400									300
307195	J0116L	0.2~16	B18	2° 51'41.0"	17.780	32.000	54	112.2	102	1.268	16×100	8×50		14	320
307196		1/64"~5/8"	J6	2° 58'24.8"	17.170	25.400									320
307197	J0120L	0.2~20	B22	2° 52'31.5"	21.793	40.500	59	131.5	119	1.716	20×125	10×62.5	0.16	16	400
307198		1/64"~3/4"	J3	3° 3'1.0"	20.599	30.956									400
307199	J0125H	0.2~25	B22	2° 52'31.5"	21.793	40.500	74	156.5	142	3.430	25×125	13×62.5	0.20	18	600

J03 SERIES TYPE H FEMALE THREAD STOCK
J03 系列 H型螺纹孔连接

订购编码 Order Number	型号 Model	夹持范围 Clamp Scope mm	d mm	l mm	D mm	L mm	L1 mm	重量 Weight kg	检验棒 Check Rod 大棒 Big Rod	检验棒 Check Rod 小棒 Small Rod	精度 Precision mm	力矩 N.M	单价 Price
307200	J036H	0.2~6	M10×1	14	34	70.6	64	0.313	6×50	3x25	0.20	3	380
307202		1/64"~1/4"	3/8"-24UNF										380
307204	J038H	0.2~8	M10×1	14	39	80.4	73	0.477	8×50	4x25		4	350
307206		1/64"~5/16"	3/8"-24UNF										350
307208	J0310H	0.2~10	M10×1	14	44	90.2	85	0.686	10×75	5x37.5		6	350
307210		1/64"~3/8"	3/8"-24UNF										350
307212	J0313H	0.2~13	M12×1.25	16	49	100.6	91	0.944	13×100	6x50		12	320
307214		1/64"~1/2"	1/2"-20UNF										320
307216	J0316H	0.2~16	M16×1.5	18	54	112.2	102	1.268	16×100	8x50		14	350
307218		1/64"~5/8"	5/8"-16UN										350

J 扳手型钻夹头
Spanner Drill Chuck





FEATURES:

*适合中、重型钻削。
*应用于铣床、钻床、CNC以及木工机械；
*能够承受高速切削。
*Suitable for medium、heavy duty drilling use.
*For milling machine,lathe,drill Machine、CNC&wood working machine.
*High speed drilling can be perfomed for possessing high cutting power.

J31 SERIES TYPE H FEMALE THREAD STOCK
J31 系列 H型螺纹孔连接

订购编码 Order Number	型号 Model	夹持范围 Clamp Scope mm	连接尺寸 Mounts	D mm	L1 mm	重量 Weight kg	单价 Price
307220	J316L	0.5~6	M10×1.0	30	49	0.125	200
307222		1/64"~1/4"	3/8"-24UNF				200
307224	J3110L	1~10	M10×1.0	42.5	70	0.335	200
307226		1/32"~3/8"	3/8"-24UNF				200
307228	J3113L	1~13	M12×1.25	53	86	0.625	200
307230		1/32"~1/2"	1/2"-20UNF				200
307232	J3116L	3~16	M16×1.5	57	97	0.750	220
307234		1/8"~5/8"	5/8"-16UN				220

J21 SERIES TYPE L MORSE JACQUARD SHORT TAPER STOCK
J21 系列 H型莫氏.贾格短锥连接

订购编码 Order Number	型号 Model	夹持范围 Clamp Scope mm	锥孔号 Tapering Hole Number	do mm	D1 mm	L1 mm	重量 Weight kg	单价 Price
307240	J216L	0.5~6	B10	10.094	30	49	0.125	250
307242		1/64"~1/4"	J1	9.754				250
307244	J2110L	1~10	B12	12.065	42.5	70	0.335	250
307246		1/32"~3/8"	J2	14.199				250
307248	J2113L	1~13	B16	15.733	53	86	0.625	250
307250		1/32"~1/2"	J6	17.170				250
307252	J2116L	3~16	B18	17.780	57	97	0.750	280
307254		1/8"~5/8"	J3	20.599				280
307256	J2120H	5~20	B22	21.793	65	110	1.400	300
307258		3/16"~3/4"	J3	20.599				300

扳手钻夹头 Spanner drill chuck



J31系列 L型螺纹孔连接
J31 SERIES TYPE L FEMALE THREAD STOCK

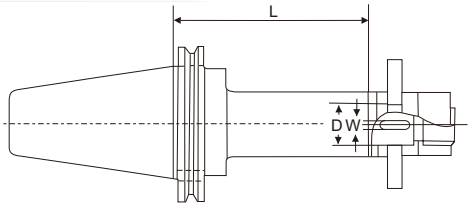
订购编码 Order Number	型号 Model	夹持范围 Clamp Scope mm	连接尺寸 Mounts	D mm	L1 mm	重量 Weight kg	单价 Price
307260	J316L	0.5~6	M10×1	30	49	0.115	300
307262		1/64"~1/4"	3/8"-24UNF				300
307264	J3110L	1~10	M10×1	34	60	0.160	300
307266		1/32"~3/8"	3/8"-24UNF				300
307268	J3113L	1.5~13	M12×1.25	43	75	0.305	300
307270		1/16"~1/2"	1/2"-20UNF				300
307272	J3116L	3~16	M16×1.5	53	88	0.625	400
307274		1/8"~5/8"	5/8"-16UN				400

J21 系列 L型莫氏.贾格短锥连接
J21 SERIES TYPE L MORSE JACQUARD SHORT TAPER STOCK

订购编码 Order Number	型号 Model	夹持范围 Clamp Scope mm	锥孔号 Tapering Hole Number	do mm	D mm	L1 mm	重量 Weight kg	单价 Price
307280	J216L	0.5~6	B10	10.094	30	49	0.115	300
307282		1/64"~1/4"	J1	9.754				300
307284	J2110L	1~10	B12	12.065	34	60	0.160	300
307286		1/32"~3/8"	J2	14.199				300
307288	J2113L	1.5~13	B16	15.733	43	75	0.305	300
307290		1/16"~1/2"	J33	17.170				300
307292	J2116L	3~16	B18	17.780	53	88	0.625	400
307294								400

三面刃铣刀刀柄(-XS)
SIDE MILLING CUTTER ARBOR





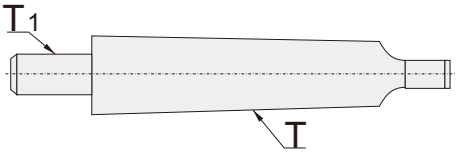


单价 Price	型号、规格 Model & Specification	D	L	W	单价 Price
307900	□30-XS10-60	10	60	-	400
307902	-XS16-60	16	60	4	400
307904	-XS22-60	22	60	6	400
307906	□40-XS16-75	16	75	4	400
307908	-105		105		400
307910	-XS22-75	22	75	6	400
307912	-105		105		400
307914	-120		120		450
307916	-XS27-75	27	75	6	400
307918	-105		105		400
307920	-120		120		450
307922	-SX332-60	32	60	8	450
307924	-90		90		500
307926	□50-XS16-90	16	90	4	800
307928	-120		120		900
307930	-XS22-90	22	90	6	800
307932	-135		135		900
307934	-150		150		1000
307936	-XS27-90	27	90	6	800
307938	-135		135		900
307940	-150		150		1000
307942	XS32-75	32	75	8	800
307944	-90		90		900
307946	-120		120		950
307948	-135		135		1000
307950	-SX40-75	40	75	10	800
307952	-90		90		900
307954	-120		120		950
307956	-135		135		1000
307958	XT60-XS32-135	32	135	8	3000
307960	-XS40-135	40	135	10	3000
307962	-XS50-150	50	150	12	3000

注：□表示各种类型锥柄

MT/JT 莫氏锥度夹头柄
Morse Taper Drill Chuck Arbors

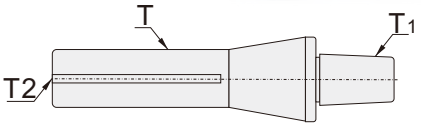




订购编号 Order No.	型 号 Model	T	T1	价格 Price
307300	MT1-JT0	MT1	JT0	
307302	MT1-JT1	MT1	JT1	
307304	MT1-JT2	MT1	JT2	
307306	MT1-JT3	MT1	JT3	
307308	MT1-JT4	MT1	JT4	
307310	MT1-JT5	MT1	JT5	
307312	MT1-JT6	MT1	JT6	
307314	MT1-JT33	MT1	JT33	
307316	MT2-JT0	MT2	JT0	
307318	MT2-JT1	MT2	JT1	
307320	MT2-JT2	MT2	JT2	
307322	MT2-JT3	MT2	JT3	
307324	MT2-JT4	MT2	JT4	
307326	MT2-JT5	MT2	JT5	
307328	MT2-JT6	MT2	JT6	
307330	MT2-JT33	MT2	JT33	
307332	MT3-JT1	MT3	JT1	
307334	MT3-JT2	MT3	JT2	
307336	MT3-JT3	MT3	JT3	
307338	MT3-JT4	MT3	JT4	
307340	MT3-JT5	MT3	JT5	
307342	MT3-JT6	MT3	JT6	
307344	MT3-JT33	MT3	JT33	
307346	MT4-JT2	MT4	JT2	
307348	MT4-JT3	MT4	JT3	
307350	MT4-JT4	MT4	JT4	
307352	MT4-JT5	MT4	JT5	
307354	MT4-JT6	MT4	JT6	
307356	MT4-JT33	MT4	JT33	
307358	MT5-JT2	MT5	JT2	
307360	MT5-JT3	MT5	JT3	
307362	MT5-JT4	MT5	JT4	
307364	MT5-JT5	MT5	JT5	
307366	MT5-JT6	MT5	JT6	
307368	MT5-JT33	MT5	JT33	

R8/JT 夹头柄
R8 Drill Chuck Arbors

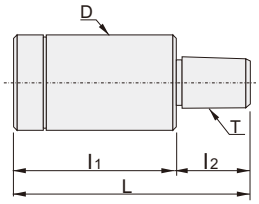




订购编号 Order No.	型 号 Model	T	T2	T3	价格 Price
307370	R8-JT1	R8	JT1	7/16"-UNF20	
307372	R8-JT2	R8	JT2		
307374	R8-JT3	R8	JT3		
307376	R8-JT4	R8	JT4		
307378	R8-JT5	R8	JT5		
307380	R8-JT6	R8	JT6		
307382	R8-JT33	R8	JT33		

C/JT 直式夹头柄
Cylindrical Drill Chuck Arbors

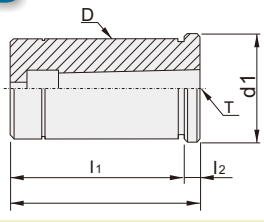




订购编号 Order No.	型 号 Model	D	T	L	L1	L2	价格 Price
307400	C20-JT6	C20	JT6	80	55	25	
307402	C32-JT3	C32	JT3	85	70	25	
307404	C32-JT6	C32	JT6	105.95	70	35.95	
307406	C42-JT3	C42	JT3	125	100	25	
307408	C42-JT5	C42	JT5	135.95	100	35.95	

C/MT 直式夹头芯轴
Straight type chuck mandrel

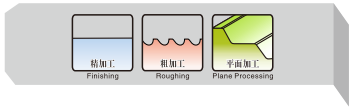




订购编号 Order No.	型 号 Model	D	T	L	L1	L2	d1	价格 Price
307500	C32-MT1	C32	Mt1	61	56	5	35	
307502	C32-MT2	C32	MT2	73	65	8	37	
307504	C32-MT3	C32	MT3	92	72	20	37	
307506	C42-MT1	C42	MT1	61	56	5	47	
307508	C42-MT2	C42	MT2	74	66	8	47	
307510	C42-MT3	C42	MT3	92	75	17	47	

BT-FMA 平面铣刀柄
BT-FMA FACE MILL HOLDER

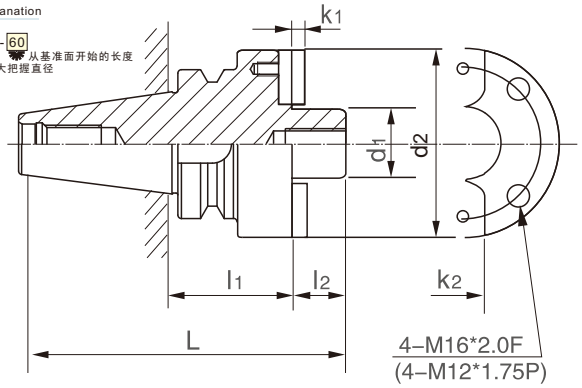
◆面铣刀盘专用刀柄
◆Face mlilling cutter shank special





型号说明 Model explanation

BT40-FMA 25.4 - 60
- BT40 刀柄形状
- FMA 夹头略号
- 25.4 最大把握直径
- 60 从基准面开始的长度

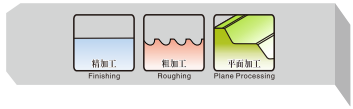


特　点：
- D1公差：h6
- 附有两侧侧固螺丝
- 中心冷却（DIN69871-AD）
- 动平衡可以达到G6. 3，8000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

订购编号 Order No.	型 号 Model	L	L1	L2	D	d1	d2	k1	k2	图示	重量 WG	价格 Price
307600	BT30-FMA25.4-45	113.4	45	20	50	25.4	31.5	4.52	9.52		1.10kg	605
307602	BT30-FMA25.4-60	128.4	60								1.30kg	635
307604	BT30-FMA31.75-45	115.4	45	22	60	31.75	41	6.7	12.7		1.35kg	705
307606	BT40-FMA25.4-45	130.4	45	20	50	25.4	31.5	4.52	9.52		1.80kg	755
307608	BT40-FMA25.4-60	145.4	60								2.00kg	805
307610	BT40-FMA25.4-90	175.4	90								2.60kg	945
307612	BT40-FMA25.4-105	190.4	105								2.70kg	990
307614	BT40-FMA31.75-45	132.4	45	22	60	31.75	41	6.7	12.7		2.00kg	795
307616	BT40-FMA31.75-75	162.4	75								2.70kg	915
307618	BT40-FMA31.75-90	177.4	90								2.90kg	970
307620	BT40-FMA38.10-60	150.4	60	25	75	38.1	44.5	8.87	15.87	1	2.80kg	1155
307622	BT40-FMA50.80-60	161.4	60	36	98	50.8	65	9.75	19.05		4.00kg	1500
307624	BT50-FMA25.4-45	166.8	45	20	50	25.4	31.5	4.52	9.52		4.40kg	1545
307626	BT50-FMA25.4-90	211.8	90								5.10kg	1845
307628	BT50-FMA25.4-150	271.8	150								6.10kg	1905
307630	BT50-FMA31.75-45	168.8	45	22	60	31.75	41	6.2	12.7		4.50kg	1605
307632	BT50-FMA31.75-75	198.8	75					6.7			5.30kg	1805
307634	BT50-FMA31.75-105	228.8	105								5.70kg	2005
307636	BT50-FMA38.10-45	171.8	45	25	80	38.1	44.5	8.87	15.87		4.80kg	1670
307638	BT50-FMA38.10-75	210.8	75								6.00kg	1950
307640	BT50-FMA50.80-45	182.8	45	36	98	50.8	65	9.75	19.05		5.70kg	1855
307642	BT50-FMA50.80-75	212.8	75								6.80kg	2060
307644	BT50-FMA47.62-75	208.8	75	32	128.75	47.62	-	12.5	25.4	2	7.90kg	2875
307646	BT50-FMA25.4-125BG	246.8	125	20	48	25.4	31.5	60	4.25	9.52	5.3kg	1795
307648	BT50-FMA25.4-150BG	271.8	150								6.4kg	1910
307650	BT50-FMA25.4-200BG	321.8	200		58			63			7.5kg	2125
307652	BT50-FMA25.4-250BG	371.8	250								8.6kg	2450
307654	BT50-FMA25.4-300BG	421.8	300								9.7kg	2615
307656	BT50-FMA25.4-350BG	471.8	350					66			10.8kg	2805
307658	BT50-FMA25.4-400BG	521.8	400								11.9kg	3155
307660	BT50-FMA31.75-125BG	248.8	125	22	70	31.75	41	75	6.7	12.7	5.6kg	1925
307662	BT50-FMA31.75-150BG	273.8	150								6.3kg	2095
307664	BT50-FMA31.75-175BG	298.8	175								8.3kg	2405
307666	BT50-FMA31.75-200BG	323.8	200								9.1kg	2425
307668	BT50-FMA31.75-250BG	373.8	250								10.6kg	2715
307670	BT50-FMA31.75-300BG	423.8	300								12.1kg	3035
307672	BT50-FMA31.75-350BG	473.8	350								13.6kg	3280

FMB 平面铣刀柄
FMB FACE MILL HOLDER

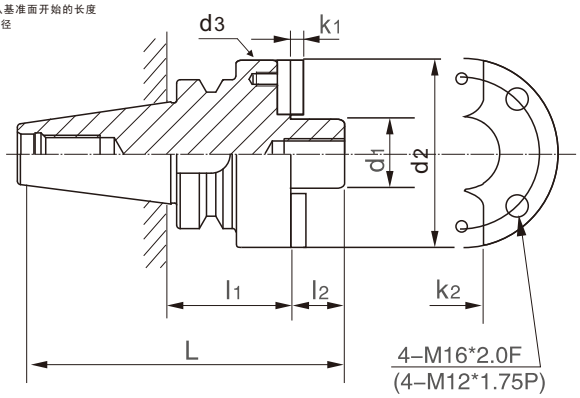
◆ 面铣刀盘专用刀柄
◆ Face mlilling cutter shank special





型号说明 Model explanation

BT40 - FMA 25.4 - 60
- BT40：刀柄形状
- FMA：夹头略号
- 25.4：最大把握直径
- 60：从基准面开始的长度



特　点：

- D1公差：h6
- 附有两侧侧固螺丝
- 中心冷却（DIN69871-AD）
- 动平衡可以达到G6.3，8000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

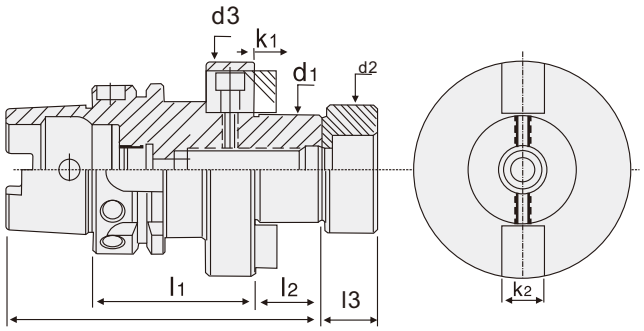
订购编号 Order No.	型 号 Model	L	L1	L2	D	d1	d2	k1	k2	图示 d3	重量 WG	价格 Price
307700	BT30-FMB22-45	115.4	45	19	48	22	26	4.8	10	1	0.85kg	560
307702	BT30-FMB22-60	127.4	60								1.25kg	555
307704	BT30-FMB27-45	113.4	45	20	60	27	31.5	5.8	12		1.20kg	735
307706	BT30-FMB27-60	128.4	60								1.35kg	705
307708	BT30-FMB32-45	115.4	45	22	78	32	41	6.8	14		1.35kg	890
307710	BT40-FMB22-45	129.4	45	19	48	22	26	4.8	10		1.45kg	760
307712	BT40-FMB22-60	144.4	60								1.70kg	750
307714	BT40-FMB22-100	184.4	100								2.20kg	895
307716	BT40-FMB27-45	130.4	45	20	60	27	31.5	5.8	12		1.60kg	725
307718	BT40-FMB27-60	145.4	60								2.00kg	785
307720	BT40-FMB27-90	175.4	90								2.30kg	850
307722	BT40-FMB27-105	190.4	105								2.50kg	925
307724	BT40-FMB32-45	132.4	45	22	78	32	41	6.8	14		1.75kg	885
307726	BT40-FMB32-60	147.4	60								2.10kg	955
307728	BT40-FMB40-60	150.4	60	25	80	40	48	8.3	16		2.80kg	1065
307730	BT50-FMB22-45	165.8	45	19	48	22	26	4.8	10		4.50kg	1480
307732	BT50-FMB22-90	210.8	90								5.10kg	1590
307734	BT50-FMB22-150	270.8	150								6.80kg	1825
307736	BT50-FMB22-200	320.8	200								7.00kg	1945
307738	BT50-FMB22-250	370.8	250								8.00kg	2215
307740	BT50-FMB27-50	171.8	50	20	60	27	31.5	5.8	12		4.60kg	1520
307742	BT50-FMB27-90	211.8	90								5.40kg	1675
307744	BT50-FMB27-150	271.8	150								7.50kg	1965
307746	BT50-FMB27-200	321.8	200								9.50kg	2260
307748	BT50-FMB27-250	371.8	250								11.0kg	2510
307750	BT50-FMB32-50	173.8	50	22	78	32	41	6.8	14		5.70kg	1660
307752	BT50-FMB32-90	213.8	90								5.80kg	1815
307754	BT50-FMB40-50	176.8	50	25	80	40	48	8.3	16		5.2kg	1635
307756	BT50-FMB40-90	216.8	90								6.00kg	1870
307758	BT50-FMB40-105	231.8	105								7.20kg	2085
307760												
307762	BT50-FS40F-75	202.8	75	26	110	40	-	8.3	16	2	6.00kg	2355
307764	BT50-FS60F-75	201.8	75	25	138	60	-	12.5	25.4		8.50kg	3345
307766	BT40-FMB22-150BG	233.4	150	18	48	22	31.75	4.25	9.52	51	3.1kg	1020
307768	BT40-FMB22-200BG	283.4	200								4.0kg	1250
307770	BT40-FMB22-250BG	333.4	250								4.9kg	1305
307772	BT50-FMB22-150BG	271.8	150	20	58					62.5	6.8kg	1825
307774	BT50-FMB22-200BG	321.8	200								8.4kg	1970
307776	BT50-FMB22-250BG	371.8	250								9.4kg	2240
307778	BT50-FMB22-300BG	421.8	300								10.4kg	2360
307780	BT50-FMB22-350BG	471.8	350								11.4kg	2505
307782	BT50-FMB22-400BG	521.8	400								12.4kg	2740
307784	BT50-FMB22-450BG	571.8	450								13.4kg	2895
307786	BT50-FMB22-500BG	621.8	500								14.4kg	3110

HSK/FMB 平面铣刀柄
Face Mill Arbor

特　点：

- D1公差：h6
- 动平衡可以达到G6.3，3000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

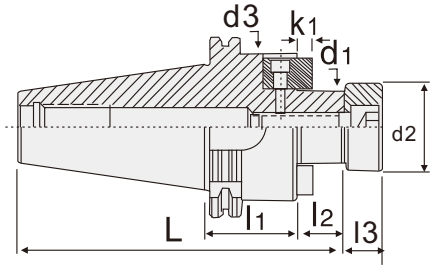


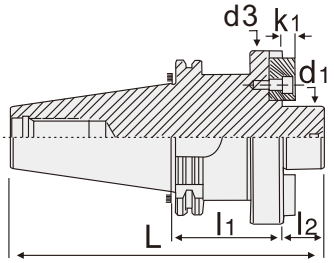


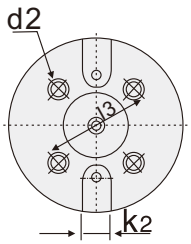
订购编号 Order No.	型 号 Model	L	l2	l3	d2	d3	k1	k2	重量 WG	价格 Price
307900	HSK40A-FMB16-50	87	17	-	-	40	3.8	8	0.7kg	
307902	HSK40A-FMB22-60	99	19	14	26	50	4.8	10	0.8kg	
307904	HSK40A-FMB27-60	101	21	16	31.5	60	5.8	12	1.0kg	
307906	HSK40A-FMB32-60	104	24	16	41	78	6.8	14	1.1kg	
307908	HSK50A-FMB16-50	92	17	-	-	40	3.8	8	1.1kg	
307910	HSK50A-FMB22-60	104	19	14	26	50	4.8	10	1.2kg	
307912	HSK50A-FMB27-60	106	21	16	31.5	60	5.8	12	1.3kg	
307914	HSK50A-FMB32-60	109	24	16	41	78	6.8	14	1.5kg	
307916	HSK63A-FMB16-50	99	17	-	-	40	3.8	8	1.2kg	
307918	HSK63A-FMB22-50	101	19	14	26	50	4.8	10	1.3kg	
307920	HSK63A-FMB27-60	113	21	16	31.5	60	5.8	12	1.5kg	
307922	HSK63A-FMB32-60	116	24	16	41	78	6.8	14	1.6kg	
307924	HSK63A-FMB40-60	119	25	20.5	48	89	8.3	16	2.1kg	
307926	HSK100A-FMB22-50	119	19	14	26	50	4.8	10	2.7kg	
307928	HSK100A-FMB27-50	121	21	16	31.5	60	5.8	12	2.9kg	
307930	HSK100A-FMB32-50	124	24	16	41	78	6.8	14	3.0kg	
307932	HSK100A-FMB40-60	137	25	20.5	48	89	8.3	16	4.0kg	
307934	HSK100A-FMB50-70	150	30	25	68	120	9.7	19	5.1kg	
307936	HSK100A-FMB60-70	160	40	-	-	129	12.5	25.4	5.5kg	

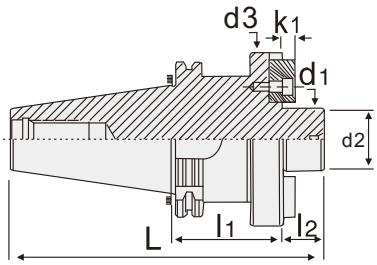
DAT/FMB 平面铣刀柄
Face Mill Arbor

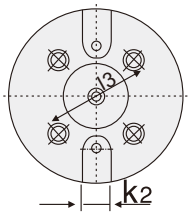












特　点：

- D1公差：h6
- 7/24锥度公差：AT3
- 动平衡可以达到G6. 3，3000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

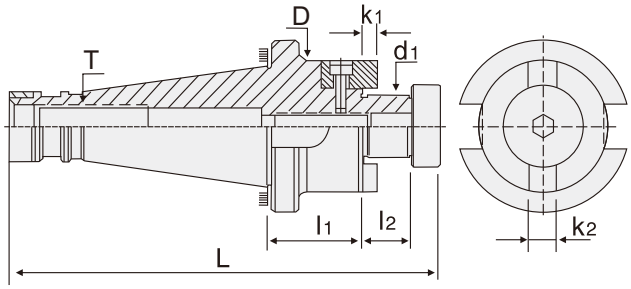
订购编号 Order No.	型 号 Model	L	L2	L3	d2	d3	k1	k2	图示	重量 WG	价格 Price
308000	DAT30-FMB22-35	101.8	19	14	26	45	4.8	10	1	1.00kg	
308002	DAT30-FMB27-55	122.8	20	16	31.5	58	5.8	12		1.05kg	
308004	DAT40-FMB22-35	122.4	19	14	26	48	4.8	10		1.20kg	
308006	DAT40-FMB27-60	148.4	20	16	31.5	58	5.8	12		1.80kg	
308008	DAT40-FMB32-60	150.4	22	16	41	66	6.8	14		2.30kg	
308010	DAT40-FMB40-60	153.4	25	20.5	48	80	8.3	16		2.80kg	
308012	DAT50-FMB22-35	155.75	19	14	26	48	4.8	10		3.40kg	
308014	DAT50-FMB27-35	156.75	20	16	31.5	58	5.8	12	2	3.5kg	
308016	DAT50-FMB32-35	158.75	22	16	41	66	6.8	14		3.70kg	
308018	DAT50-FMB40-50	189.75	25	20.5	48	80	8.3	16		4.70kg	
308020	DAT40-FMB50-60	191.75	30	25	68	95	9.7	19		5.80kg	
308022	DAT40-FMB40F-60	158.4	30	66.7	M12	89	8.3	15.9	3	2.90kg	
308024	DAT50-FMB40F-60	201.75	30	66.7	M12	89	8.3	15.9		5.50kg	
308026	DAT50-FMB40F-70	211.75	40	101.6	M16	129	12.5	25.4		5.70kg	
308028	DAT40-FS40-60	154.4	26	66.7	50	110	8.3	16		3.20kg	
308030	DAT50-FS40-70	197.75	26	66.7	50	110	8.3	16		5.70kg	
308032	DAT50-FS60-70	196.75	25	101.6	M16	140	12.5	25.4	2	5.50kg	

NT/FM 平面铣刀柄
Face Mill Arbor



特　点：

- D1=面铣刀的外径
- 柄的末端有一个塑料环以达到保护主轴。



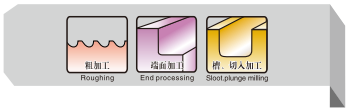
订购时,请确认拉杆螺丝规格为公制或英制。

单位: mm

订购编号 Order No.	型 号 Model	D	L	l1	l2	K1	K2	T	重量 WG	价格 Price
307800	NT30-FMA25.40	46	139.4		20	4.5	9.52		0.55kg	610
307802	NT30-FMA31.75	60	141.4		22	5.7	12.7	M12(M12*1.75P)	0.75kg	725
307804	NT30-FMA38.10	70	148.9		25	6.87	15.87	A04(1/2"-12)	2.10kg	915
307806	NT40-FMA25.40	63	164.4	35	20	4.5	9.52		1.45kg	795
307808	NT40-FMA31.75	63	166.4		22	5.7	12.7	M16(M16*2.0P)	1.75kg	835
307810	NT40-FMA38.10	70	173.4		25	6.87	15.87	A06(5/8"-11)	2.00kg	970
307812	NT40-FMA50.80	98	174.9		36	9.75	19.05		2.55kg	1390
307814	NT40-FMA47.62	128.75	149.4	24	32	12.5	25.4		2.90kg	2050
307816	NT50-FMA25.40	50	182.8		20	4.5	9.52		3.30kg	1580
307818	NT50-FMA31.75	60	184.8	45	22	5.7	12.7		3.40kg	1605
307820	NT50-FMA38.10	70	192.3		25	6.87	15.87	M24(M24*3.0P)	3.60kg	1640
307822	NT50-FMA50.80	90	193.3		36	9.75	19.05	A07(1"-8)	3.90kg	1730
307824	NT50-FMA47.62	128.75	157.8	24	32	12.5	25.4		4.90kg	2215
307826	NT30-FMB22mm	42	136.4		19	4	10		0.67kg	615
307828	NT30-FMB27mm	60	139.4		20	5	12	M12(M12*1.75P)	1.00kg	720
307830	NT30-FMB32mm	65	141.4		22	6	14	A04(1/2"-12)	1.20kg	805
307832	NT30-FMB40mm	80	148.9		25	7	16		1.40kg	980
307834	NT40-FMB22mm	48	163.4	35	19	4	10		1.25kg	770
307836	NT40-FMB27mm	58	166.4		20	5	12	M16(M16*2.0P)	1.45kg	795
307838	NT40-FMB32mm	65	168.4		22	6	14	A06(5/8"-11)	1.70kg	885
307840	NT40-FMB40mm	80	175.9		25	7	16		2.50kg	1115
307842	NT50-FMB22mm	48	206.8		19	4	10		3.50kg	1580
307844	NT50-FMB27mm	58	207.8	45	20	5	12	M24(M24*3.0P)	3.90kg	1610
307846	NT50-FMB32mm	65	214.3		22	6	14	A07(1"-8)	4.00kg	1635
307848	NT50-FMB40mm	80	217.3		25	7	16		4.83kg	1705

BT-MTA 莫氏锥度刀柄

BT－MTA MOSE TAPER SLEEVE



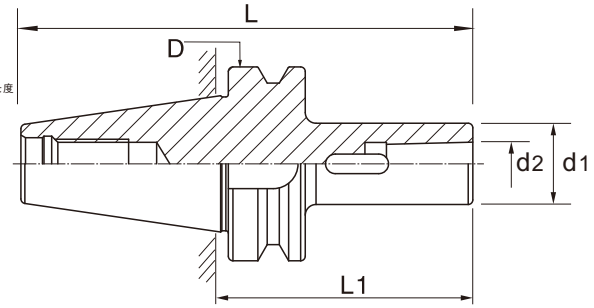


◆装刀时，扁尾方向与刀柄孔对准插入。刃具向上用铜锤子，重重敲击拉钉部分几下即可。
◆卸刀具时，对准扁孔的记号，用锤子敲击，卸刃具。这时请注意不要让刃具飞起来。

◆When installs the cutting tool, the flat tail direction and the hilt hole alignment insertion, the cutting tool with the copper clock, layer on layer raps puller bolt part several upwardly then.
◆When unloads the cutting tool, aims at the flat hole the symbol, with the clock sub-rap, unloads the cutting tool.
By now please note do not let the cutting toolfly 。

型号说明 Model explanation

BT40 - MTA 1 - 45
- BT40：刀柄形状
- MTA：夹头略号
- 1：最大把握直径
- 45：从基准面开始的长度



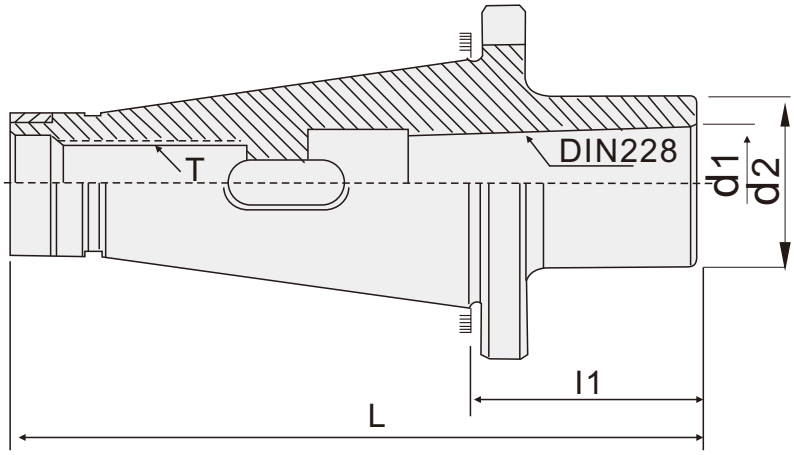
特　点：

- 高精确的工作流程，即使使用加长型钻头，同心度仍然在0.015mm。
- 适用于扁尾型莫氏锥柄钻头。

订购编号 Order No.	型 号 Model	L	L1	d1	d2	图示	重量 WG	价格 Price
308100	BT30-MTA1-45	93.4	45	25	12.065	1	0.55kg	390
308102	BT30-MTA1-105	153.4	105			2	0.80kg	485
308104	BT30-MTA2-60	108.4	60	32	17.78	1	0.60kg	405
308106	BT30-MTA2-120	168.4	120			2	0.90kg	515
308108	BT30-MTA3-80	128.4	80	40	23.825	1	0.80kg	465
308110	BT40-MTA1-45	110.4	45	25	12.065	1	1.05kg	540
308112	BT40-MTA1-120	185.4	120			2	1.40kg	745
308114	BT40-MTA2-50	115.4	50	32	17.78	1	1.10kg	555
308116	BT40-MTA2-120	185.4	120			2	1.80kg	790
308118	BT40-MTA3-70	135.4	70	40	23.825	1	1.20kg	590
308120	BT40-MTA3-135	200.4	135			2	1.90kg	815
308122	BT40-MTA4-95	160.4	95	48	31.267	1	1.40kg	685
308124	BT40-MTA4-165	230.4	165			2	2.50kg	970
308126	BT50-MTA1-45	146.8	45	25	12.065	1	3.80kg	1320
308128	BT50-MTA1-120	221.8	120			2	4.30kg	1475
308130	BT50-MTA1-180	281.8	180			2	5.00kg	1630
308132	BT50-MTA2-60	161.8	60	32	17.78	1	4.00kg	1345
308134	BT50-MTA2-135	236.8	135			2	4.70kg	1515
308136	BT50-MTA2-180	281.8	180			2	5.00kg	1640
308138	BT50-MTA3-65	166.8	65	40	23.825	1	3.90kg	1375
308140	BT50-MTA3-150	251.8	150			2	5.00kg	1600
308142	BT50-MTA3-180	281.8	180			2	5.50kg	1735
308144	BT50-MTA4-95	196.8	95	48	31.267	1	4.20kg	1465
308146	BT50-MTA4-180	281.8	180			2	5.50kg	1775
308148	BT50-MTA5-105	206.8	105	63	44.399	1	4.30kg	1655

NT/MTA 斜柄钻头套筒
Morse Taper Adapter





特　点：

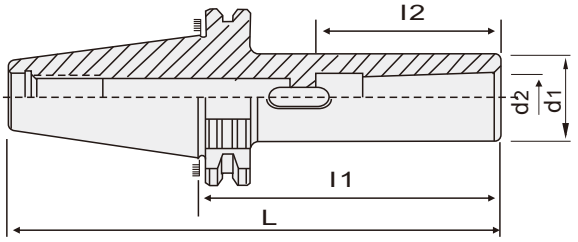
- 经硬化及精密研磨（内外径）。
- 真圆度：0.005mm。
- MTA=TANG型=DIN 228-B。
- MTB=拉杆类型=DIN 228-A
- 采高级工具钢经过完全淬火和磨削。内孔和外柄为莫氏锥度。

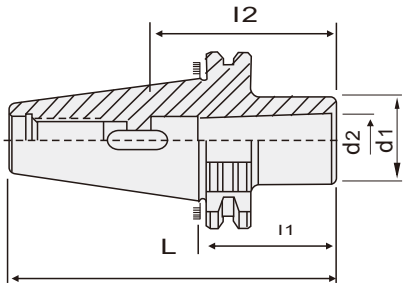
订购时,请确认拉杆螺丝规格为公制或英制。　　单位:mm

订购编号 Order No.	型 号 Model	L	l1	d1	d2	T	重量 WG	价格 Price
308200	NT30-MTA2	123.9	55.5	17.78	32	M12(M12*1.75P) A04(1/2"-12)	0.50kg	520
308202	NT30-MTA3	142.4	74	23.825	40		0.55kg	565
308204	NT40-MTA2	118.4	25	17.78	32	M16(M16*2.0P) A06(5/8"-11)	0.80kg	605
308206	NT40-MTA3	140.4	47	13.825	40		0.85kg	665
308208	NT40-MTA4	175.4	82	31.267	48		1.25kg	720
308210	NT40-MTA5	263.4	170	44.399	63		1.45kg	920
308212	NT50-MTA2	146.8	20	17.78	32	M24(M24*3.0P) A07(1"-8)	2.80kg	1145
308214	NT50-MTA3	156.8	30	13.825	40		2.90kg	1130
308216	NT50-MTA4	186.8	60	31.267	48		3.00kg	1290
308218	NT50-MTA5	209.8	86.2	44.399	63		3.10kg	1335

DAT/MTA 斜柄钻头套筒
Morse Taper Adapter







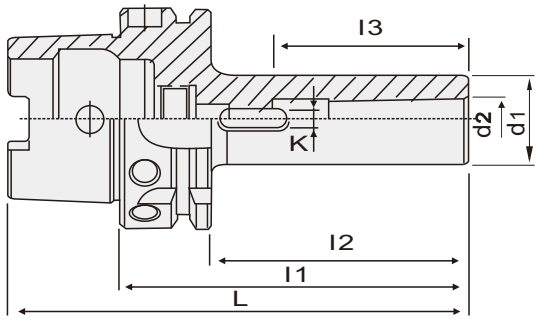
特　点：
- 高精确的工作流程，即使使用加长型钻头，同心度仍然在0.015mm。
- 适用于扁尾型莫氏锥柄钻头。

订购编号 Order No.	型 号 Model	L	L2	d1	d2	重量 WG	价格 Price
308300	DAT30-MTA1-50	97.8	56	25	12.065	0.55kg	495
308302	DAT30-MTA2-60	117.8	67	32	17.78	0.80kg	510
308304	DAT30-MTA3-75	122.8	84	40	23.825	1.00kg	535
308306	DAT40-MTA1-50	118.4	56	25	12.065	1.20kg	640
308308	DAT40-MTA2-50	118.4	67	32	17.78	1.00kg	610
308310	DAT40-MTA3-70	138.4	84	40	23.825	1.10kg	645
308312	DAT40-MTA4-95	163.4	107	48	31.627	1.35kg	685
308314	DAT50-MTA1-45	146.75	56	25	12.065	3.00kg	1190
308316	DAT50-MTA2-60	161.75	67	32	17.78	3.10kg	1230
308318	DAT50-MTA3-65	166.75	84	40	23.825	3.20kg	1550
308320	DAT50-MTA4-95	196.75	107	48	31.627	3.40kg	1335
308322	DAT50-MTA5-105	206.75	133	63	44.399	3.60kg	1465

HSK/MTA 斜柄钻头套筒
Morse Taper Adapter



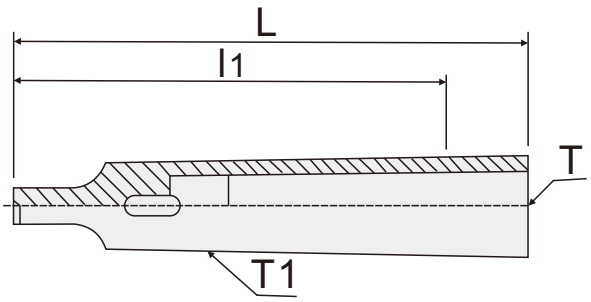
特　点：
- 刀杆的旋转都经平衡机检测。
- 真圆度：0.005mm。
- MTA=TANG型=DIN 228-B
- 适用于扁尾型莫氏锥柄钻头。



订购编号 Order No.	型 号 Model	L	l2	l3	d1	d2	K	重量 WG	价格 Price
308400	HSK50A-MTA1-100	125	74	56	25	12.065	5.2	1.5kg	1406
308402	HSK50A-MTA2-120	145	94	67	32	17.78	6.3	1.8kg	1475
308404	HSK50A-MTA3-140	165	114	84	40	23.825	7.9	1.9kg	1550
308406	HSK63A-MTA1-100	132	74	56	25	12.065	5.2	1.9kg	1675
308408	HSK63A-MTA2-120	152	94	67	32	17.78	6.3	2.0kg	1756
308410	HSK63A-MTA3-140	172	114	84	40	23.825	7.9	2.2kg	1869
308412	HSK63A-MTA4-160	192	134	107	48	31.627	11.9	2.5kg	2019
308414	HSK100A-MTA1-110	160	81	56	25	12.065	5.2	3.4kg	3475
308416	HSK100A-MTA2-120	170	91	67	32	17.78	6.3	3.8kg	3600
308418	HSK100A-MTA3-150	200	121	84	40	23.825	7.9	4.0kg	3981
308420	HSK100A-MTA4-170	220	141	107	48	31.627	11.9	4.6kg	4256
308422	HSK100A-MTA5-200	250	171	135	63	44.399	15.9	5.2kg	4700

MT 莫氏锥度套筒
Morse Taper Sleeve

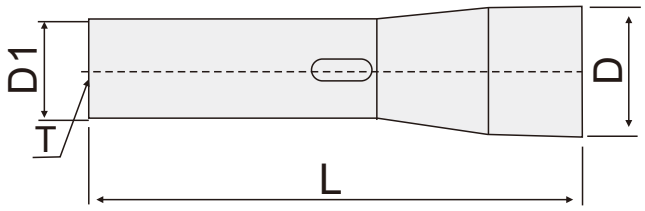




订购编号 Order No.	型 号 Model	T	T1	L	l1	价格 Price
308500	MT1-MT2	MT1	MT2	89	75	
308502	MT1-MT3	MT1	MT3	100	94	
308504	MT2-MT3	MT2	MT3	112	94	
308506	MT1-MT4	MT1	MT4	124	117.5	
308508	MT2-MT4	MT2	MT4	124	117.5	
308510	MT3-MT4	MT3	MT4	140	117.5	
308512	MT1-MT5	MT1	MT5	156	149	
308514	MT2-MT5	MT2	MT5	156	149	
308516	MT3-MT5	MT3	MT5	156	149	
308518	MT4-MT5	MT4	MT5	167	149	
308520	MT4-MT6	MT4	MT6	220	210	
308522	MT5-MT6	MT5	MT6	224	210	

R8/MT 套筒
R8 Drill Sleeve





订购编号 Order No.	型 号 Model	L	D	D1	T	价格 Price
308600	R8-MT1	124	32	24 ▪ 1	7/16"UNF20	
308602	R8-MT2	136.5				
308604	R8-MT3	150				
308606	R8-MT4	245				

MT2-5 斜度退刀器
Drift



特 点：

- 本产品系以特殊钢经精密模锻造而成，尖端部分热处理，坚硬耐用，手柄内部采用高韧性弹簧，巨大动力，轻易退刀。

订购编号 Order No.	型 号 Model	适用斜度	全长	重量 N.W	单支盒装尺寸	20支箱装尺寸	价格 Price
308650	MT2-5	M.T.#2 #3 #4 #5	380mm	1.3kg	390x45x37mm	410x200x225mm	

BT-MTB 莫氏锥度刀柄

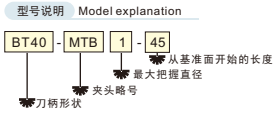
BT-MTB MOSE TAPER SLEEVE

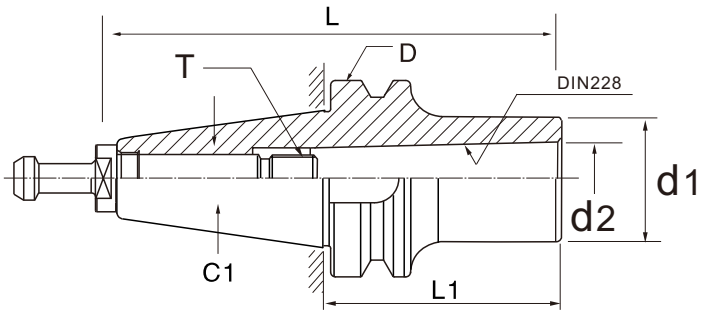




◆刀具装着时，请锁紧刀柄上撞到用的锁紧螺钉。
◆折卸刀具时，先放松拉紧螺钉2-3圈，然后在刀柄的头部分用锤子敲击，放松接触面后，再扭松螺钉，取出刀具。

◆ When the cutting tool is installing, please lock the gib screw which the hilt upper garment knife uses.
◆ When disassembles the cutting tool, relaxes the tautness bolt first 2–3, then in the hilt head part with the clock sub-rap, after relaxing the contact face, then turns the loose bolt, takes out the cutting tool.





特　点：

- 高精确的工作流程，即使使用加长型钻头，同心度仍然在0.015mm。
- 适用于后拉式斜柄钻头。

订购编号 Order No.	型 号 Model	L	L1	d1	d2	T	重量 WG	价格 Price
308700	BT30-MTB1-45	93.4	45	25	12.065	M6(M6*1.0P) A01(1/4"-20)	0.55kg	405
308702	BT30-MTB2-60	108.4	60	32	17.78	M10(M10*1.5P) A02(3/8"-16)	0.60kg	535
308704	BT40-MTB1-45	110.4	45	25	12.065	M6(M6*1.0P) A01(1/4"-20)	1.05kg	945
308706	BT40-MTB2-45	110.4	45	32	17.78	M10(M10*1.5P) A02(3/8"-16)	1.85kg	695
308708	BT40-MTB2-185	250.4	185	32	17078	M10(M10*1.5P) A02(3/8"-16)	2.20kg	1000
308710	BT40-MTB3-75	140.4	75	40	23.528	M12(M12*1.75P) A04(1/2"-12)	1.30kg	700
308712	BT40-MTB3-90	155.4	90				1.40kg	900
308714	BT40-MTB3-120	185.4	120				1.80kg	1100
308716	BT40-MTB3-180	245.4	180				2.40kg	1300
308718	BT40-MTB4-100	165.4	100	48	31.267	M16(M16*2.0P) A06(5/8"-11)	1.60kg	900
308720	BT40-MTB4-120	185.4	120				1.80kg	1100
308722	BT40-MTB4-180	245.4	180				2.60kg	1300
308724	BT50-MTB1-45	146.8	45	25	12.065	M6(M6*1.0P) A01(1/4"-20)	3.80kg	1500
308726	BT50-MTB2-45	146.8	45	32	17.78	M10(M10*1.5P) A02(3/8"-16)	3.90kg	2100
308728	BT50-MTB3-60	161.8	60	40	23.825	M12(M12*1.75P) A04(1/2"-12)	3.90kg	2400
308730	BT50-MTB4-75	176.8	75	48	31.267	M16(M16*2.0P) A06(5/8"-11)	4.20kg	2700
308732	BT50-MTB5-120	221.8	120	63	44.399	M24(M24*3.0P) A07(1"-8)	4.30kg	2830

BT-SLN 侧固式刀柄

BT-SLN Side Lock End Mill Holder



◆刀具装着时，刃物的槽口平面部分与刀柄的侧固螺钉对齐，强力锁紧。

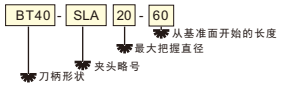
◆侧固式柄部形状有不同，使用的侧固式刀柄也有区别，必须确认侧固式螺钉的位置。

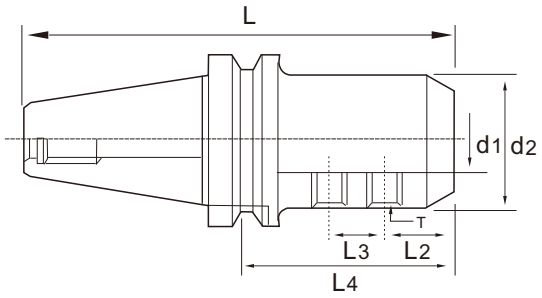
◆When the cutting tool is installing,when edge's notch even face alines with the hilt side solid bolt,force locking.

◆The side solid-like handle department shape has the difference, the use side solid -like hilt also has the difference,must confirm the side solid-like bolt's position.



型号说明 Model explanation





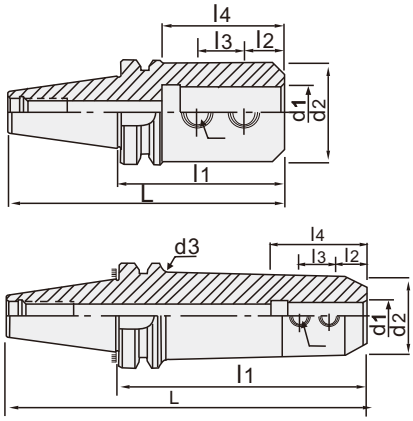
订购编号 Order No.	型 号 Model	L	L2	L3	L4	d2	T	图示	重量 WG	价格 Price
308800	BT30-SLN6-60	108.4	18	--	40	25	M6x1.0P	1	0.55kg	440
308802	BT30-SLN8-60	108.4				28	M8x1.25P		0.60kg	445
308804	BT30-SLN10-60	108.4	20		44	35	M10x1.5P		0.70kg	445
308806	BT30-SLN12-60	108.4	22.5		49	42	M12x1.75P		0.75kg	445
308808	BT30-SLN16-75	123.4	24		52	48	M14x2.0P		1.05kg	570
308810	BT30-SLN20-75	123.4	25		54	52	M16x2.0P		1.10kg	575
308812	BT30-SLN25-90	138.4	24	25	59	65	M18x2.0P	2	1.70kg	750
308814	BT40-SLN6-50	115.4	18	--	40	25	M6x1.0P	1	1.10kg	555
308816	BT40-SLN6-150	215.4							1.32kg	825
308818	BT40-SLN8-50	115.4				28	M8x1.25P		1.10kg	555
308820	BT40-SLN8-150	215.4							1.30kg	825
308822	BT40-SLN10-63	128.4	20		44	35	M10x1.5P		1.25kg	635
308824	BT40-SLN10-150	215.4							1.40kg	830
308826	BT40-SLN12-63	128.4	22.5		49	42	M12x1.75P		1.30kg	635
308828	BT40-SLN12-150	215.4							1.53kg	830
308830	BT40-SLN16-63	128.4	24		52	48	M14x2.0P		1.40kg	635
308832	BT40-SLN16-150	215.4							1.60kg	835
308834	BT40-SLN18-63	128.4			54	50			1.65kg	640
308836	BT40-SLN20-63	128.4	25			52	M16x2.0P		1.40kg	635
308838	BT40-SLN25-100	165.4	24	25	59	65	M18x2.0P	2	2.50kg	910
308840	BT40-SLN32-100	165.4		28	63	72	M20x2.0P		2.75kg	955
308842	BT50-SLN6-63	164.8	18	--	40	25	M6x1.0P	1	3.80kg	1465
308844	BT50-SLN8-63	164.8				28	M8x1.25P		3.80kg	1440
308846	BT50-SLN10-63	164.8	20		44	35	M10x1.5P		3.00kg	1450
308848	BT50-SLN12-80	181.8	22.5		49	42	M12x1.75P		4.00kg	1590
308850	BT50-SLN16-80	181.8	24		52	48	M14x2.0P		4.40kg	1595
308852	BT50-SLN20-80	181.8	25		54	52	M16x2.0P		4.40kg	1595
308854	BT50-SLN25-100	201.8	24	25	59	65	M18x2.0P	2	5.10kg	1725
308856	BT50-SLN32-105	206.8		28	63	72	M20x2.0P		5.20kg	1785
308858	BT50-SLN40-115	216.8	30	32	73	90			6.60kg	2080
308860	BT50-SLN40-120	221.8							6.70kg	2110
308862	BT50-SLN42-120	221.8							6.70kg	2110
308864	BT50-SLN50-120	221.8	35	35	78	100	M24x2.0P		6.80kg	2255
308866	BT50-SLN50.8-120	221.8	33.1	28.58	78	95	M20x2.0P		6.80kg	2255
308868	BT50-SLN50.8-120	221.8	33.1	25.58				3	6.60kg	3110
308870	BT50-SLN63-120	221.8	33.1	25.58	80	125	M16x2.0P		6.60kg	3110

BT/SLN侧固式立铣刀夹头
Side Lock End Mill Holder



特　点：

- 内孔公差：H5
- 附有两侧侧固螺丝
- 中心冷却（DIN69871-AD）
- 动平衡可以达到G6. 3，8000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。



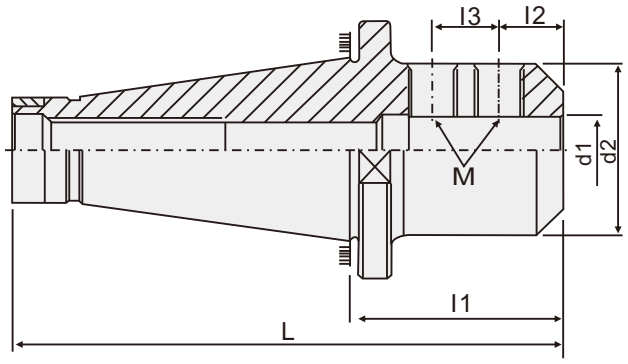
订购编号 Order No.	型 号 Model	L	L2	L3	L4	d2	d3	T	图示	重量 WG	价格 Price
308900	BT40-SLN6-75J	140.4	12	10	45	25	-	M6x1.0P	1	1.30kg	680
308902	BT40-SLN6-150J	215.4	12	10	45	25	30		2	1.50kg	830
308904	BT40-SLN8-75J	140.4	14	12	45	28	-	M8x1.25P	1	1.30kg	680
308906	BT40-SLN8-150J	215.4	14	12	45	28	33		2	1.50kg	830
308908	BT40-SLN10-75J	140.4	15	14	49	35	-	M10x1.05P	1	1.30kg	680
308910	BT40-SLN10-150J	215.4	15	14	49	24	40		2	1.50kg	830
308912	BT40-SLN12-75J	140.4	20	16	54	42	-		1	1.50kg	685
308914	BT40-SLN12-150J	215.4	20	16	54	42	47		2	1.70kg	835
308916	BT40-SLN16-75J	140.4	22	18	57	48	-		1	1.50kg	685
308918	BT40-SLN16-150J	215.4	22	18	57	48	53		2	1.70kg	835
308920	BT40-SLN20-90J	155.4	25	20	65	50	-	M12x1.75P	1	1.60kg	775
308922	BT40-SLN20-150J	215.4	25	20	65	50	57		2	1.80kg	835
308924	BT40-SLN25-90J	155.4	24	25	68	50	-		1	2.50kg	910
308926	BT40-SLN32-100J	165.4	24	28	73	60	47	M16x2.0P	1	2.75kg	955
308928	BT50-SLN6-75J	176.8	12	10	45	25	47	M6x1.0P	1	3.90kg	1545
308930	BT50-SLN8-75J	176.8	14	12	45	28	47	M8x1.25P	1	3.90kg	1545
308932	BT50-SLN10-75J	176.8	15	14	49	35	47	M10x1.05P	1	3.90kg	1545
308934	BT50-SLN12-90J	191.8	20	16	54	42	47		1	3.90kg	1620
308936	BT50-SLN12-165J	266.8	20	16	54	42	47		2	5.00kg	1805
308938	BT50-SLN16-90J	191.8	22	18	57	48	-		1	3.90kg	1620
308940	BT50-SLN16-165J	266.8	22	18	57	48	53		2	5.00kg	1845
308942	BT50-SLN20-90J	191.8	25	20	65	50	-	M12x1.75P	1	4.50kg	1630
308944	BT50-SLN20-165J	266.8	25	20	65	50	57		2	6.00kg	1950
308946	BT50-SLN20-210J	311.8	25	20	65	50	57		2	7.00kg	2255
308948	BT50-SLN25-100J	201.8	24	25	68	50	-		1	4.5kg	1715
308950	BT50-SLN25-165J	266.8	24	25	68	50	57		2	5.5kg	2035
308952	BT50-SLN25-210J	311.8	24	25	68	50	57		2	6.0kg	2360
308954	BT50-SLN25-250J	351.8	24	25	68	50	57		2	7.0kg	2620
308956	BT50-SLN32-105J	351.8	24	28	73	60	-	M16x2.0P	1	4.8kg	1780
308958	BT50-SLN32-165J	266.8	24	28	73	50	60		2	6.2kg	2105
308960	BT50-SLN32-210J	311.8	24	28	73	50	60		2	6.3kg	2430
308962	BT50-SLN32-250J	351.8	24	28	73	50	60		2	7.5kg	2715
308964	BT50-SLN32-300J	401.8	24	28	73	60	65		2	8.0kg	3015

NT/SLN侧固式立铣刀柄
Lock End Mill Holder



特　点：

- 内孔公差：H5



订购时,请确认拉杆螺丝规格为公制或英制。

单位: mm

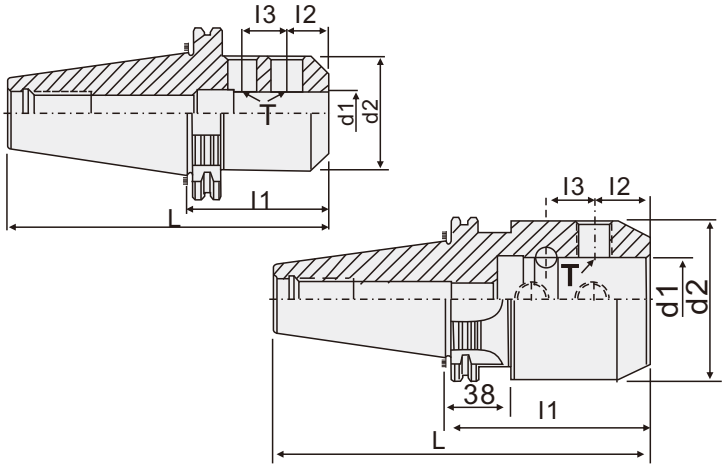
订购编号 Order No.	型 号 Model	L	d2	l2	l3	M	重量 WG	价格 Price
309100	NT30-SLN6-40	108.4	25	18	--	M6x1.0P	0.50kg	595
309102	NT30-SLN8-40		28	18		M8x1.25P	0.60kg	600
309104	NT30-SLN10-40		35	20		M10x1.5P	0.60kg	600
309106	NT30-SLN12-50	118.4	42	22.5		M12x1.75P	0.65kg	600
309108	NT30-SLN16-50		48	24		M14x2.0P	0.75kg	600
309110	NT30-SLN20-63	131.4	52	25		M16x2.0P	1.10kg	610
309112	NT30-SLN25-80	148.4	65	24	25	M18x2.0P	1.20kg	640
309114	NT40-SLN6-50	143.4	25	18	--	M6x1.0P	0.90kg	705
309116	NT40-SLN8-50		28	18		M8x1.25P	0.95kg	695
309118	NT40-SLN10-50		35	20		M10x1.5P	1.10kg	695
309120	NT40-SLN12-50		42	22.5		M12x1.75P	1.00kg	675
309122	NT40-SLN16-63	156.4	48	24		M14x2.0P	1.40kg	715
309124	NT40-SLN20-63		52	25		M16x2.0P	1.45kg	745
309126	NT40-SLN25-80	173.4	65	24	25	M18x2.0P	2.10kg	880
309128	NT40-SLN32-80		72	24	28	M20x2.0P	2.50kg	955
309130	NT50-SLN6-63	189.8	25	18	--	M6x1.0P	2.90kg	1490
309132	NT50-SLN8-63		28	18		M8x1.25P	3.00kg	1480
309134	NT50-SLN10-63		35	20		M10x1.5P	3.20kg	1485
309136	NT50-SLN12-63		42	22.5		M12x1.75P	3.30kg	1475
309138	NT50-SLN16-63		48	24		M14x2.0P	3.50kg	1485
309140	NT50-SLN20-63		52	25		M16x2.0P	3.60kg	1535
309142	NT50-SLN25-80	206.8	65	24	25	M18x2.0P	4.20kg	1665
309144	NT50-SLN32-80		72	24	28	M20x2.0P	4.40kg	1670
309146	NT50-SLN40-100	226.8	90	30	32		4.40kg	1760
309148	NT50-SLN40-120	246.8	90	30			4.20kg	1850
309150	NT50-SLN42-120		90	30			4.60kg	1715
309152	NT50-SLN50-120		100	35	35	M24x2.0P	4.80kg	1855
309154	NT50-SLN63-120		125	40	40		5.40kg	2665
309156	NT50-SLN50.8-120		95	33.1	28 ▪ 58	M20x2.0P	5.00kg	1885

DAT/SLN侧固式立铣刀柄
Lock End Mill Holder



特　点：

- 内孔公差：H5
- 柄径的动平衡必须符合DIN-1835-B，及其配套工具也符合本标准。
- 直径允许公差h6~h7内附有两侧侧固螺丝。
- 动平衡可以达到G6. 3，8000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。



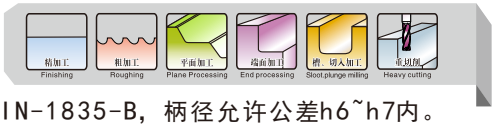
订购编号 Order No.	型 号 Model	L	L2	L3	d2	T	图示	重量 WG	价格 Price
309000	DAT30-SLN6-50	97.8	18	-	25	M6x1.0P	1	0.73kg	540
309002	DAT30-SLN8-50	97.8	18		28	M18x2.0P		0.80kg	540
309004	DAT30-SLN10-50	97.8	20		35	M10x1.5P		0.90kg	540
309006	DAT30-SLN12-50	97.8	22.5		42	M12x1.75P		0.90kg	525
309008	DAT30-SLN16-63	110.8	24		48	M14x2.0P		1.10kg	550
309010	DAT40-SLN6-50	118.4	18		25	M6x1.0P		0.85kg	660
309012	DAT40-SLN8-50	118.4	18		28	M18x2.0P		1.00kg	670
309014	DAT40-SLN10-50	118.4	20		35	M10x1.5P		1.10kg	670
309016	DAT40-SLN12-50	118.4	22.5		42	M12x1.75P		1.15kg	655
309018	DAT40-SLN16-63	131.4	24		48	M14x2.0P		1.40kg	695
309020	DAT40-SLN20-63	131.4	25		52	M16x2.0P		1.30kg	695
309022	DAT40-SLN25-100	168.4	24	25	65	M18x2.0P		2.40kg	840
309024	DAT40-SLN32-100	168.4	24	28	72	M20x2.0P		2.70kg	900
309026	DAT50-SLN6-63	164.75	18	-	25	M6x1.0P		3.10kg	1295
309028	DAT50-SLN8-63	164.75	18		28	M18x2.0P		3.10kg	1295
309030	DAT50-SLN10-63	164.75	20		35	M10x1.5P		3.30kg	1300
309032	DAT50-SLN12-63	164.75	22.5		42	M12x1.75P		3.50kg	1670
309034	DAT50-SLN16-63	164.75	24		48	M14x2.0P		3.45kg	1305
309036	DAT50-SLN20-63	164.75	25		52	M16x2.0P		3.50kg	1310
309038	DAT50-SLN25-80	181.75	24	25	65	M18x2.0P		4.20kg	1400
309040	DAT50-SLN32-100	201.75	24		72	M20x2.0P		5.00kg	1515
309042	DAT50-SLN40-100	201.75	30	32	90	M20x2.0P		5.60kg	1550
309044	DAT50-SLN42-100	201.75	30		90	M20x2.0P		5.70kg	1555
309046	DAT50-SLN50-125	226.75	35	35	100	M24x2.0P		5.90kg	1760
309048	DAT50-SLN50.8-120	221.75	33.1	28.58	95	M20x2.0P	2	5.80kg	2305
309050	DAT50-SLN63-150	250.75	40	40	125	M20x2.0P	1	6.20kg	2395
309052	DAT50-SLN63-150	250.75	40	24	125	M16x2.0P		6.20kg	3305

HSK-SLN侧固式刀柄

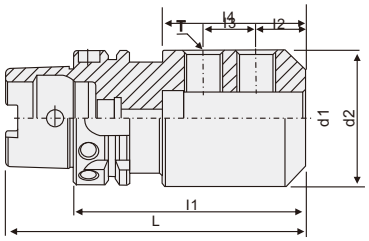
HSK-SLN Side Lock End Mill Holder



特　点：



- 内孔公差：H5
- 柄径的动平衡必须符合DIN-1835-B，柄径允许公差h6~h7内。
- 都经平衡机检测。
- 动平衡可以达到G6.3，8000RPM。
- 平衡等级和转速可以根据客户的要求，但需另行报价。

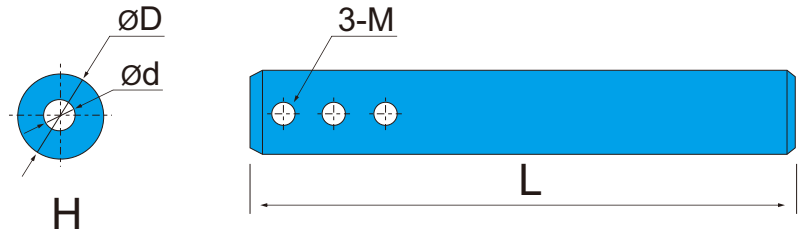


订购编号 Order No.	型 号 Model	L	l2	l3	l4	d2	T	重量 WG	价格 Price
309200	HSK50A-SLN6-65	90	39	18	--	25	M6x1.0P	0.7kg	1617
309202	HSK50A-SLN8-65			18		28	M8x1.25P	0.8kg	1625
309204	HSK50A-SLN10-65			20		35	M10x1.5P	0.8kg	1592
309206	HSK50A-SLN12-80	105	54	22.5		42	M12x1.75P	1.2kg	1658
309208	HSK50A-SLN14-80			22.5		44		1.3kg	1667
309210	HSK50A-SLN16-80			24		48	M14x2.0P	1.3kg	1675
309212	HSK50A-SLN18-80			24		50		1.4kg	1683
309214	HSK50A-SLN20-80			25		52	M16x2.0P	1.5kg	1700
309216	HSK63A-SLN6-65	97	39	18		25	M6x1.0P	0.9kg	1908
309218	HSK63A-SLN8-65			18		28	M8x1.25P	1.0kg	1917
309220	HSK63A-SLN10-65			20		35	M10x1.5P	1.0kg	1883
309222	HSK63A-SLN12-80	112	54	22.5		42	M12x1.75P	1.7kg	2000
309224	HSK63A-SLN14-80			22.5		44		1.7kg	1925
309226	HSK63A-SLN16-80			24		48	M14x2.0P	1.7kg	1925
309228	HSK63A-SLN18-80			24		50		1.8kg	1933
309230	HSK63A-SLN20-80			25		52	M16x2.0P	1.8kg	1933
309232	HSK63A-SLN25-110	142	84	24	25	65	M18x2.0P	2.5kg	2433
309234	HSK63A-SLN32-110			24	28	72	M20x2.0P	2.7kg	2583
309236	HSK100A-SLN6-80	130	51	18	--	25	M6x1.0P	3.0kg	3875
309238	HSK100A-SLN8-80			18		28	M8x1.25P	3.2kg	3883
309240	HSK100A-SLN10-80			20		35	M10x1.5P	3.4kg	3892
309242	HSK100A-SLN12-80			22.5		42	M12x1.75P	3.4kg	3975
309244	HSK100A-SLN14-80			22.5		44		3.5kg	3983
309246	HSK100A-SLN16-100	150	71	24		48	M14x2.0P	3.8kg	4158
309248	HSK100A-SLN18-100			24		50	M16x2.0P	3.8kg	4158
309250	HSK100A-SLN20-100			25		52		3.9kg	4175
309252	HSK100A-SLN25-100			24	25	65	M18x2.0P	4.0kg	4242
309254	HSK100A-SLN32-100			24	28	72	M20x2.0P	4.1kg	4242
309256	HSK100A-SLN40-120	170		30	32	90		4.4kg	4542

INCH 英制规格

订购编号 Order No.	型 号 Model	L	l2	l3	l4	d2	T	重量 WG	价格 Price
309300	HSK40A-SLN1/4"-2.5"	3.287	0.63	--	1.38	0.78	1/4-28	0.31kg	1358
309302	HSK40A-SLN3/8"-2.5"	3.287	0.75		1.535	1	3/8-24	0.42kg	1325
309304	HSK40A-SLN1/2"-2.75"	3.537	0.875		1.732	1.25	7/16-20	0.57kg	1342
309306	HSK40A-SLN5/8"-3"	3.787	0.937		1.85	1.5	1/2-20	0.69kg	1417
309308	HSK63A-SLN1/4"-3"	4.26	0.63		1.38	0.78	1/4-28	0.76kg	1767
309310	HSK63A-SLN3/8"-3"	4.26	0.75		1.535	1	3/8-24	0.88kg	1758
309312	HSK63A-SLN1/2"-3"	4.26	0.875		1.73	1.25	7/16-20	1.13kg	1742
309314	HSK63A-SLN5/8"-3.75"	5	0.937		1.85	1.5	1/2-20	1.26kg	1842
309316	HSK63A-SLN3/4"-3.75"	5	1		1.929	1.75	5/8-18	1.33kg	1858
309318	HSK63A-SLN1"-3.75"	5	1.125	1	2.559	2	3/4-16	2.30kg	1942
309320	HSK63A-SLN1-1/4"-4.25"	5.51	1.125		2.559	2.5		2.52kg	2100
309322	HSK100A-SLN1/4"-3"	4.97	0.63	--	1.38	0.78	1/4-28	2.16kg	3367
309324	HSK100A-SLN3/8"-3"	4.97	0.75		1.535	1	3/8-24	2.31kg	3358
309326	HSK100A-SLN1/2"-3.25"	5.219	0.875		1.732	1.25	7/16-20	2.45kg	3425
309328	HSK100A-SLN5/8"-3.75"	5.719	0.937		1.85	1.5	1/2-20	2.84kg	3592
309330	HSK100A-SLN3/4"-3.75"	5.719	1		1.929	1.75	5/8-18	2.95kg	3608
309332	HSK100A-SLN1"-4.25"	6.219	1.125	1	2.559	2	3/4-16	3.46kg	3808
309334	HSK100A-SLN1-1/4"-4.25"	6.219	1.125		2.559	2.5		3.73kg	3842
309336	HSK100A-SLN1-1/2"-4.5"	6.469	1.125		2.756	2.5		5.51kg	4008
309338	HSK100A-SLN2"-5.5"	7.469	1.335	1.41	3.347	3.75	1-14	6.37kg	4433

小径侧固式延长连接杆
Small diameter side fixed extended connecting rod

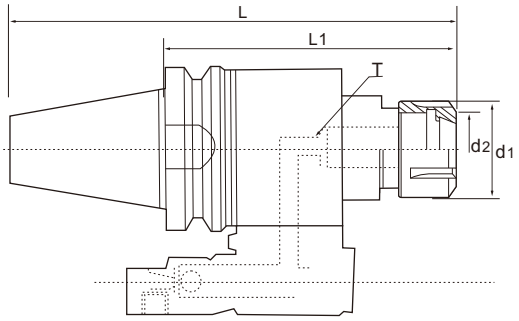


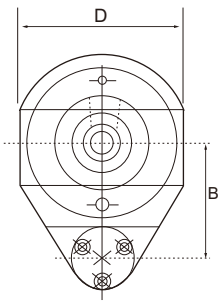


Shank	订购编码 Model No.	库存 Stock	尺寸 Dimension (mm)				适用柄型 Assembly Holder	零件 Parts 扳手Wrench	订购编码 Order Number
			ØD	Ød	L	M			
Steel	C08-SLN03-110L	●	8	3	110	M3	3mm	L1.5	708150
	C08-SLN04-110L	●	8	4	110	M3	4mm		708151
	C10-SLN03-150L	●	10	3	150	M3	3mm		708152
	C10-SLN04-150L	●	10	4	150	M4	4mm	L2	708153
	C10-SLN06-150L	●	10	6	150	M4	6mm		708154
	C12-SLN03-150L	●	12	3	150	M4	3mm		708155
	C12-SLN04-150L	●	12	4	150	M4	4mm		708156
	C12-SLN06-150L	●	12	6	150	M4	6mm		708157
	C16-SLN04-150L	●	16	4	150	M4	4mm		708158
	C16-SLN04-200L	●	16	4	200	M4	4mm		708159
	C16-SLN06-150L	●	16	6	150	M4	6mm		708160
	C16-SLN06-200L	●	16	6	200	M4	6mm		708161
	C16-SLN08-150L	●	16	8	150	M6	8mm	L3	708162
	C16-SLN08-200L	●	16	8	200	M6	8mm		708163
	C20-SLN06-150L	●	20	6	150	M4	6mm	L2	708164
	C20-SLN06-200L	●	20	6	200	M4	6mm		708165
	C20-SLN08-150L	●	20	8	150	M6	8mm	L3	708166
	C20-SLN08-200L	●	20	8	200	M6	8mm		708167
	C20-SLN10-150L	●	20	10	150	M6	10mm		708168
	C20-SLN10-200L	●	20	10	200	M6	10mm		708169
	C20-SLN12-150L	●	20	12	150	M6	12mm		708170
	C20-SLN12-200L	●	20	12	200	M6	12mm		708171
	C32-SLN06-150L	●	32	6	150	M6	6mm		708172
	C32-SLN08-150L	●	32	8	150	M6	8mm		708173
	C32-SLN10-150L	●	32	10	150	M6	10mm		708174
	C32-SLN12-150L	●	32	12	150	M6	12mm		708175

BT/OHER油路刀把套筒
Oil hole collet chuck







单位: mm

订购编号 Order No.	型 号 Model	L	l1	D	d1	d2	B	T	重 量 N. W.	价格 Price
309700	BT40-OHER16-160	225.4	160	82	28	16	65	M10	3.80kg	4755
309702	BT40-OHER20-160				34	20		M12	4.10kg	4765
309704	BT40-OHER25-160				42	25		M16	4.30kg	4785
309706	BT40-OHER32-160				50	32			4.50kg	4820
309708	BT50-OHER16-160	261.8		98	28	16	80	M10	7.00kg	6165
309710	BT50-OHER20-160				34	20		M12	7.10kg	6165
309712	BT50-OHER25-160				42	25		M16	7.20kg	6180
309714	BT50-OHER32-160				50	32			7.30kg	6205
309716	BT50-OHER40-160				63	40		M20	7.50kg	6140

BT/OSL侧固式油路刀把
Lock Oil Hole Holder



特　点：

- 订购时，请确认“S”尺寸（中心距离）。
- 使用前请先确认加工中心机的高压装置。

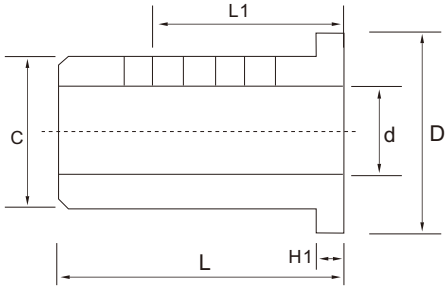
承受水压7kgf/cm2以上。
最高转速：3000rpm。
油路刀把的水压可依据客户的要求，但需另行报价。

单位:mm

订购编号 Order No.	型 号 Model	l1	l2	l3	D	d2	S	T	重 量 N. W.	价格 Price
309500	BT40-OSL16-165	48	25	-	82	46.5	65	M12x1.75P	3.1kg	4665
309502	BT40-OSL20-165	50							3.5kg	4670
309504	BT40-OSL25-165	56	15	20				M16x2.0P	3.5kg	4670
309506	BT40-OSL32-165	60				47			3.5kg	4670
309508	BT40-OSL16-165S	48	25	-		48	60	M12x1.75P	3.1kg	5525
309510	BT40-OSL20-165S	50							3.5kg	5535
309512	BT40-OSL25-165S	56	15	20				M12x1.75P	3.5kg	5535
309514	BT40-OSL32-165S	60				49.5			3.8kg	5540
309516	BT50-OSL16-165	48	25	-	98	58	80	M14x2.0P	7.0kg	6165
309518	BT50-OSL20-165	50							7.5kg	6175
309520	BT50-OSL25-165	56	15	20				M16x2.0P	7.5kg	6175
309522	BT50-OSL32-165	60		25					7.8kg	6180
309524	BT50-OSL40-170	62	15	-	105	56		M14x2.0P	8.5kg	6195
309526	BT50-OSL16-165M	48	25		98	58	82	M12x1.75P	7.1kg	7585
309528	BT50-OSL20-165M	50		20					7.6kg	7595
309530	BT50-OSL25-165M	56	15	25				M16x2.0P	7.7kg	7595
309532	BT50-OSL32-165M	60							7.8kg	7595
309534	BT50-OSL40-170M	62	15	-	105	56		M14x2.0P	8.5kg	7610
309536	BT50-OSL16-165L	48	25	20	98	58	85	M12x1.75P	7.2kg	7585
309538	BT50-OSL20-165L	50							7.8kg	7595
309540	BT50-OSL25-165L	56	15	25				M16x2.0P	7.8kg	7595
309542	BT50-OSL32-165L	60							8.0kg	7600
309544	BT50-OSL40-170L	62	15		105	56		M14x2.0P	8.7kg	7615

OSL侧固式油路刀把套筒
Straight sleeve



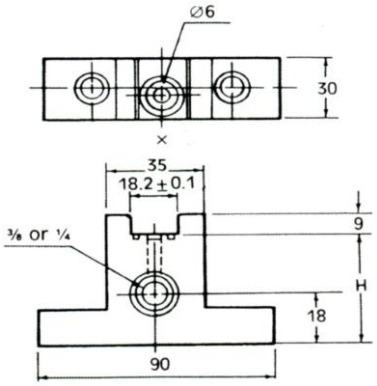


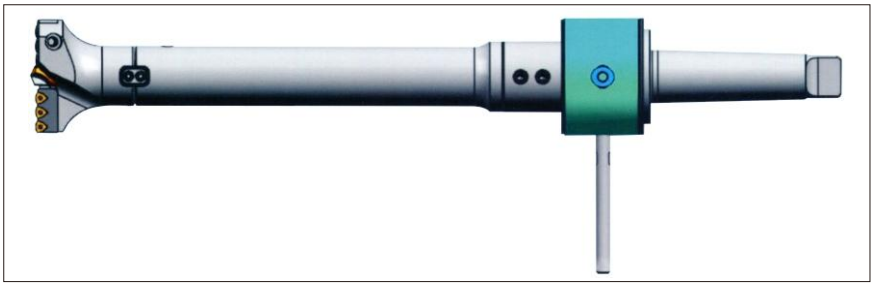
单位:mm

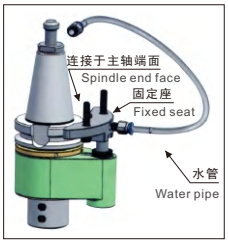
订购编号 Order No.	型 号 Model	d	C	L1	L	D	H1	重 量 N. W.	价格 Price
309600	OSL-20-16	16	20	48	54	30	5.5	0.07kg	305
309602	OSL-25-16	16	25	48	60	35		0.19kg	310
309604	OSL-25-20	20	25	50				0.15kg	305
309606	OSL-32-16	16	32	48	64	42		0.35kg	310
309608	OSL-32-20	20	32	50				0.32kg	310
309610	OSL-32-25	25	32	56				0.22kg	310
309612	OSL-40-16	16	40	48	75	50		0.57kg	405
309614	OSL-40-20	20	40	50				0.54kg	405
309616	OSL-40-25	25	40	56				0.45kg	405
309618	OSL-40-32	32	40	60				0.30kg	400

固定座
Fixed seat

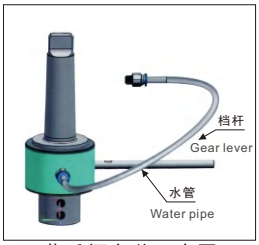








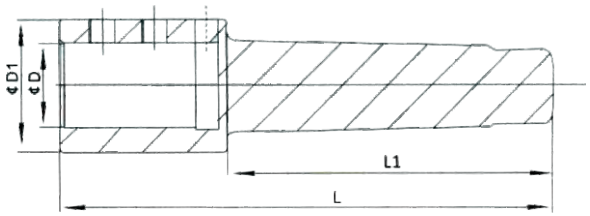
BT柄安装示意图
BT installation diagram



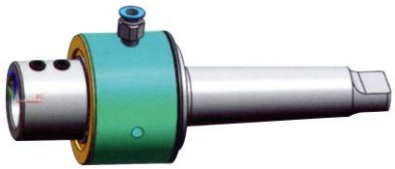
莫氏柄安装示意图
Installation diagram of MTA

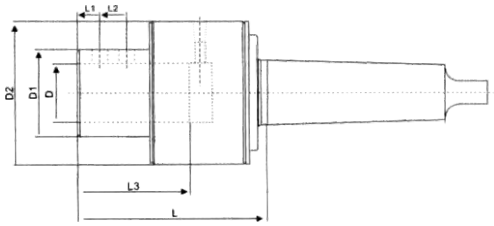
莫氏转换柄
Morse transfer Toolholder





Order	型 号	D	D1	L	L1	Price
505500	DIN228-B-32-MTA4	32	64	204	124	1438
505502	DIN228-B-40-MTA4	40	64	204	124	1438
505504	DIN228-B-32-MTA5	32	64	204	156	1563
505506	DIN228-B-40-MTA5	40	64	204	156	1563
505508	DIN228-B-32-MTA6	32	64	303	218	1875
505510	DIN228-B-40-MTA6	40	64	303	218	1875
505512	DIN228-B-50-MTA6	50	74	303	218	2188

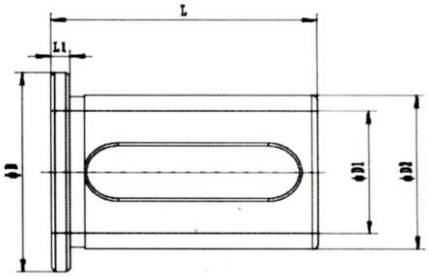




Order	型 号	D	D1	D2	L	L1	L2	L3	Price
505600	MT5-YLDB-32	32	55	92	127	15	18	60	5000
505602	MT5-YLDB-40	40	60	98	127	15	18	65	5313
505604	MT6-YLDB-32	32	55	92	127	15	18	60	5625
505606	MT6-YLDB-40	40	60	98	127	15	18	65	5625
505608	MT6-YLDB-50	50	70	108	127	15	18	70	5938

变径套
reduction sleeve

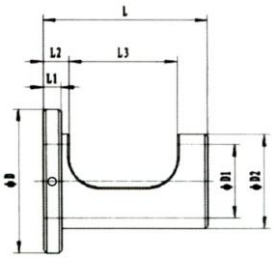




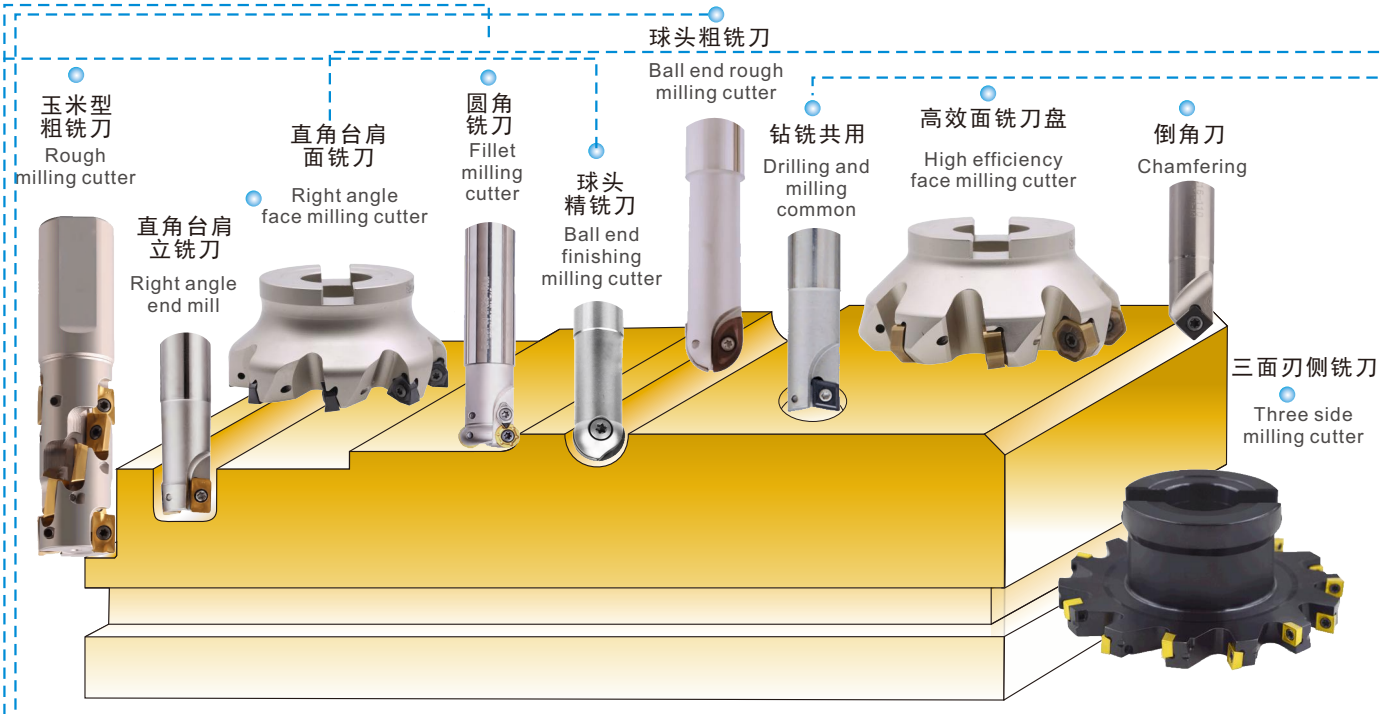
Order	型号	尺寸(mm)					Price
		D	D1	D2	L	L1	
505200	BJT-322062	20	49	32	62	5	500
505202	BJT-322562	25	49	32	62	5	500
505204	BJT-402065	20	58	40	65	6	625
505206	BJT-402565	25	58	40	65	6	625
505208	BJT-403265	32	58	40	65	6	625
505210	BJT-502572	25	65	50	70	6	750
505212	BJT-503272	32	65	50	70	6	750
505214	BJT-504072	40	65	50	70	6	750

偏心套
Eccentric sleeve

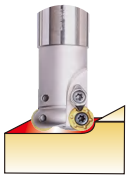




Order	型号	尺寸(mm)							加工直径 调整范围内	中心高 调整范围	Price
		ØD1	ØD2	ØD	L	L1	L2	L3			
505300	2025-43	20	25	41	47	6	11	33	+0.4-0.2	+0.2-0.15	1250
505302	2532-48	25	32	49	60	6	11	45	+0.4-0.2	+0.2-0.15	1250
505304	3240-53	32	40	58	65	6	11	50	+0.4-0 2	+0.2-0.15	1563
505306	4050-63	40	50	68	76	6	11	61	+0.6-0.2	+0.2-0.2	1750



圆角立铣刀 Fillet end mill



RP..	EMR	EMRM	EMR	EMRW	RC..	R200
D33	D34	D34	D35	D36	D37	D38
						
适用刀柄 EMR.. 圆角立铣刀	适用刀片 RP.. 切削直径 Ø50~Ø300 圆角立铣刀	适用刀片 RP.. 切削直径 Ø16~Ø35 圆角立铣刀	适用刀片 RP.. 切削直径 Ø10~Ø50 圆角立铣刀	适用刀片 RP.. 切削直径 Ø12~Ø50 圆角立铣刀	适用刀柄 R200.. 圆角立铣刀	适用刀片 RC.. 切削直径 Ø20~Ø32 圆角立铣刀

R200	RD..	TRS	TRS	TRS	RN..	KDR	KDR
D38	D39	D40	D41	D41	D42	D42	D42
							
适用刀片 RC.. 切削直径 Ø50~Ø200 圆角立铣刀	适用刀柄 TRS.. 圆角立铣刀	适用刀片 RD.. 切削直径 Ø8~Ø40 圆角立铣刀	适用刀片 RD.. 切削直径 Ø50~Ø160 圆角立铣刀	适用刀片 RD.. 切削直径 Ø9~Ø35 圆角立铣刀	适用刀柄 KDR.. 圆角立铣刀	适用刀片 RN.. 切削直径 Ø32~Ø40 圆角立铣刀	适用刀片 RN.. 切削直径 Ø40~Ø100 圆角立铣刀

BT-MFT	MFL
D79	D80
	
适用刀头 螺纹锁牙头 锁牙式刀柄	适用刀头 螺纹锁牙头 锁牙式刀柄

球头粗铣刀 Ball end rough milling cutter



ZC..	BCF	SWB..	SWB
D43	D43	D44	D44
			
适用刀柄 BCF.. 球头立铣刀	适用刀片 ZC.. 切削直径 R10~R25 球头立铣刀	适用刀柄 SWB.. 球头立铣刀	适用刀片 SWB.. 切削直径 R12.5~R25 球头立铣刀

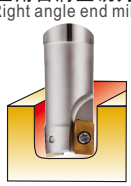
球头精铣刀 Ball end finishing milling cutter

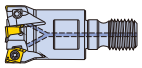


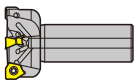
ZPFG..	ABPF	ABPF	ZCFW..	ZPFG	ARPF
D45	D45	D45	D46	D46	D46
					
适用刀柄 ABPF.. 球头立铣刀	适用刀片 ZPFG.. 切削直径 R4~R15 球头立铣刀	适用刀片 ZPFG.. 切削直径 R4~R15 球头立铣刀	适用刀柄 ARPF.. 直角台肩立铣刀	球形精铣 双面有孔 仿形加工用	适用刀片 ZCFW.. 切削直径 Ø8~Ø30 直角台肩立铣刀

ARPF	ARPF	BNM..	BNM	BNM-R	BNM-S	T2139	T2139M	P3200..
D47	D49	D50	D50	D50	D50	D51	D51	D52
								
适用刀片ZCF 双面有孔 仿形加工用	适用刀片ZCFW 双面有孔 仿形加工用	适用刀柄 BNM.. 球头立铣刀	适用刀片BNM.. 切削直径 R5~R15 球头立铣刀	适用刀片 BNM.. 切削直径 R5~R15 球头立铣刀	适用刀片 BNM.. 切削直径 Ø10~Ø20 直角台肩立铣刀	适用刀片 P3200.. 切削直径 R4~R16 球头立铣刀	适用刀片 P3200.. 切削直径 R4~R16 球头立铣刀	适用刀柄 T2139.. 球头立铣刀

直角台肩立铣刀
Right angle end mill



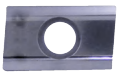
LN11R	4NKT	4NKT	4NKT	4NK(H)T	4NHT06-F	4NKT-HF	双面 WNMU
D03	D04	D04	D05	D05	D06	D06	D07
							
适用刀片 LMMU.. 切削直径ø50~ø100 准重切削加工	适用刀片4NK(H)T.. 切削直径 ø30~ø47 面铣刀盘	适用刀片4NK(H)T.. 刀柄长度150 立铣刀	适用刀片4NK(H)T.. 刀柄长度40. 5 模块式刀头	深切加工 40.5-3.0 进给0. 8-0. 04 4NK(H)T刀片	深切加工 0.2-2.7 进给115-0. 07 4NHT06-F刀片	深切加工 0.2-0.4 进给0.60-0.30 4NKT-HF 高进给刀片	适用刀柄 R217.96.. 直角台肩立铣刀

R217.96	R217.96	双面 WNMU	WFWN	MFWN	双面 6NGU	6NTE	6NTF	3PKT..
D07	D07	D08	D08	D09	D11	D11	D12	D12
								
适用刀片 WN.. 切削直径 ø20~ø35 直角台肩立铣刀	适用刀片 WN.. 切削直径 ø40~ø63 直角台肩立铣刀	适用刀柄 MFWN.. 直角台肩立铣刀	最高转速18500 带冷却孔 MFWN立铣刀	适用刀片 WN.. 切削直径 ø50~ø250 直角台肩立铣刀	适用刀柄 6NT.. 直角台肩立铣刀	适用刀片 6NGU.. 切削直径 ø20~ø40 直角台肩立铣刀	适用刀片 6NGU.. 切削直径 ø40~ø160 直角台肩立铣刀	适用刀柄 3PT.. 直角台肩立铣刀

3PTE..	3PTF..	JDMT	AHU	AHUB	AHUM	JDMT07..	ASM	ASMM
D12	D14	D16	D15	D16	D16	D17	D17	D17
								
适用刀片 3PKT.. 切削直径 ø16~ø50 直角台肩立铣刀	适用刀片 3PKT.. 切削直径 ø40~ø160 直角台肩立铣刀	适用刀柄 AHU 直角台肩立铣刀	适用刀片 JDMT.. 切削直径 ø10~ø50 直角台肩立铣刀	适用刀片 JDMT.. 切削直径 ø50~ø100 直角台肩立铣刀	适用刀片 JDMT.. 切削直径 ø10~ø35 直角台肩立铣刀	适用刀柄 ASM.. 直角台肩立铣刀	适用刀片 JDMT07.. 切削直径 ø8~ø21 直角台肩立铣刀	适用刀片 JDMT07.. 切削直径 ø8~ø32 直角台肩立铣刀

APKT..	AP1003..	BT..-AP10..	AP1003..	APMT	BAP	AL-BAP	MA-AP	BAPM
D18	D18	D18	D18	D19	D20	D21	D21	D22
								
适用刀柄 AP10.. 直角台肩立铣刀	适用刀片 APKT.. 切削直径 ø16~ø20 直角台肩立铣刀	适用刀片 APKT.. 切削直径 ø16~ø32 直角台肩立铣刀	适用刀片 APKT.. 切削直径 ø40~ø63 直角台肩立铣刀	适用刀柄 BAP.. 直角台肩立铣刀	适用刀片 APMT.. 切削直径 ø10~ø50 直角台肩立铣刀	适用刀片 APMT.. 切削直径 ø50~ø300 直角台肩立铣刀	适用刀片 APMT.. 切削直径 ø74~ø326 直角台肩立铣刀	适用刀片 APMT.. 切削直径 ø16~ø35 直角台肩立铣刀

BAP	RAP-75°	R390	RT..	RT	RT	XOMX	T217.69	AOMT
D22	D22	D23	D23	D24	D24	D25	D25	D26
								
适用刀片 APMT.. 切削直径 ø40~ø300 直角台肩立铣刀	适用刀片 APMT.. 切削直径 ø50~ø250 面铣刀盘	适用刀柄 R390.. 直角台肩立铣刀	适用刀片 R390.. 切削直径 ø16~ø32 直角台肩立铣刀	适用刀片 R390.. 切削直径 ø50~ø160 直角台肩立铣刀	适用刀片 R390.. 切削直径 ø16~ø32 直角台肩立铣刀	适用刀柄 RT.. 直角台肩立铣刀	适用刀片 RT.. 切削直径 ø6~ø35 直角台肩立铣刀	适用刀片 RT.. 切削直径 ø10~ø35 直角台肩立铣刀

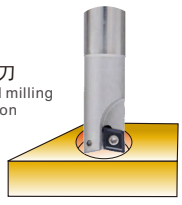
XMOX	T217.69	AOMT	EPX3000	SEET..	FMP02R	AP/AD..	UEX	BT-EDC
D26	D26	D27	D27	D28	D28	D29	D29	D29
								
适用刀柄 T217.69.. 直角台肩立铣刀	适用刀片 XOMX.. 切削直径 ø8~ø26 直角台肩立铣刀	适用刀柄 EPX3000.. 直角台肩立铣刀	适用刀片 AOMT.. 切削直径 ø12~ø40 直角台肩立铣刀	适用刀柄 FMP02R.. 直角台肩立铣刀	适用刀片 SEET.. 切削直径 ø50~ø315 直角台肩立铣刀	适用刀柄 UEX.. 直角台肩立铣刀	适用刀片 AP/AD.. 切削直径 ø12~ø30 直角台肩立铣刀	适用刀片 EDC.. 切削直径 ø16~ø32 直角台肩立铣刀

AXMT	TE90	TE90	TP..	TP	TP	SSD90	ASX400	WFX12
D30	D30	D30	D31	D31	D31	D32	D32	D32
								
适用刀柄 TE90.. 直角台肩立铣刀	适用刀片 AXMT.. 切削直径 ø8~ø35 直角台肩立铣刀	适用刀片 AXMT.. 切削直径 ø9~ø35 直角台肩立铣刀	适用刀柄 TP.. 直角台肩立铣刀	适用刀片 TP.. 切削直径 ø16~ø80 直角台肩立铣刀	适用刀片 TP.. 切削直径 ø40~ø200 直角台肩立铣刀	适用刀片 SDMT.. 切削直径 ø50~ø125 直角台肩立铣刀	适用刀片 SPMT.. 切削直径 ø50~ø160 直角台肩立铣刀	适用刀片 SOMT.. 切削直径 ø50~ø125 直角台肩立铣刀

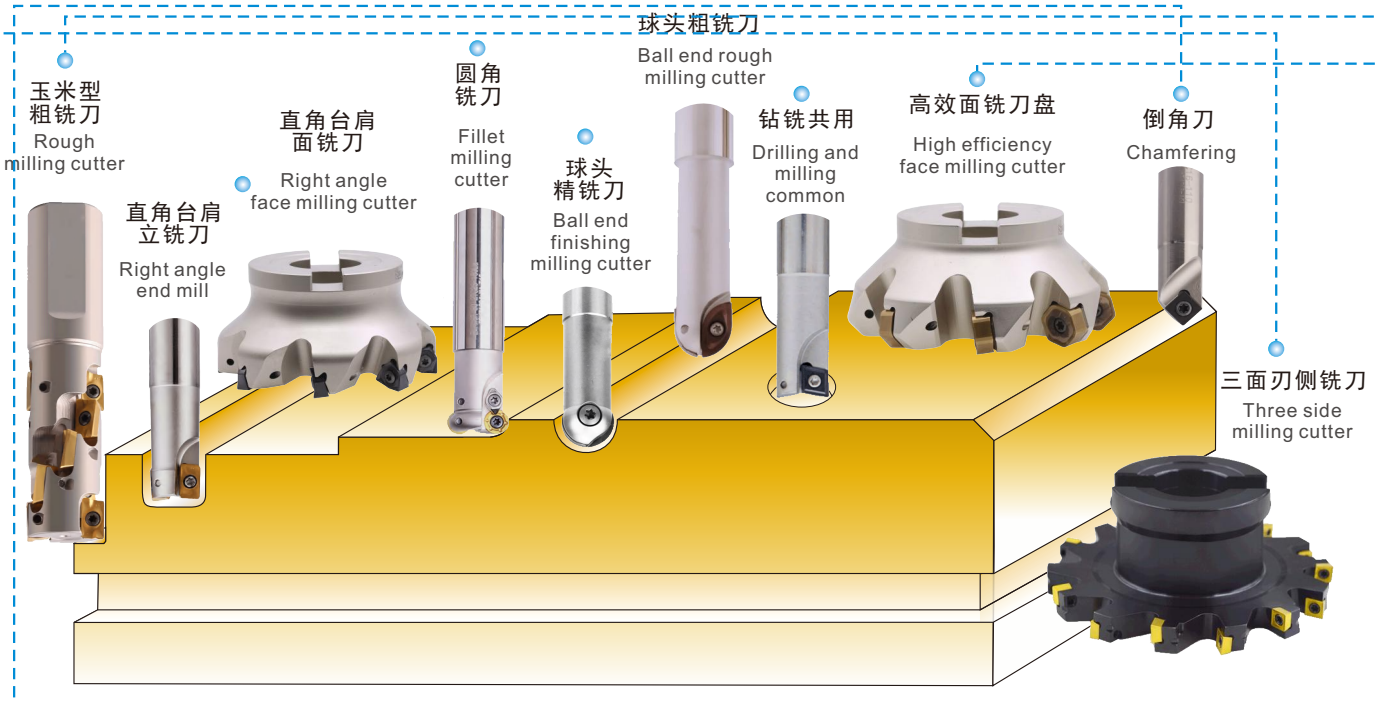
WFX17
D32

适用刀片 AXMT.. 切削直径 ø50~ø160 直角台肩立铣刀

钻铣刀
Drilling and milling common

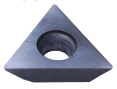


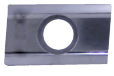
CC/CP..	CH	TJU	AD/AP..	ASJ
D53	D53	D53	D54	D54
				
适用刀柄 TJU/CH.. 钻孔铣削共用立铣刀	适用刀片 CC.. 切削直径 ø14~ø32 钻孔铣削共用立铣刀	适用刀片 CC/CP.. 切削直径 ø8~ø32 钻孔铣削共用立铣刀	适用刀柄 ASJ.. 钻孔铣削共用立铣刀	适用刀片 AD/AP.. 切削直径 ø17~ø35 钻孔铣削共用立铣刀

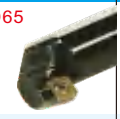


倒角刀 Chamfering



TCMX	SSP	SSP	SP	B45	SSP	SDMB	SD
D55	D55	D56	D57	D57	D58	D59	D59
							
适用刀柄 SSP.. 45°定位倒角刀	适用刀片 TCMX.. 切削直径 Ø40~Ø63 45° 定位倒角刀	适用刀片DCEX 刀长40-80 定点钻/倒角刀	刀径5.0-9.8 SPGX 铣削刀片	适用刀片SPMT 刀长60-180 铣削刀片	适用刀片SPGX 倒角角度90° 定点钻/倒角刀	适用刀柄 SD.. 45° 倒角刀	适用刀片 SDMB.. 切削直径 Ø3~Ø50 内外45°倒角刀

TP	TP	TCMT	SSO	SSY	SSH	ADNT	SSK	APMT
D60	D60	D61	D61	D61	D62	D63	D63	D64
								
适用刀柄 TP.. 30°/45°/60°倒角刀	适用刀片 TP.. 切削直径 Ø5~Ø50 30°/45°/60°倒角刀	适用刀柄 TP.. 倒角刀	适用刀片 TCMT.. 切削直径 Ø11~Ø16 15°倒角刀	适用刀片 TCMT.. 切削直径 Ø3~Ø20 30°倒角刀	适用刀片 TCMT.. 切削直径 Ø4~Ø25 60°倒角刀	适用刀柄 SSK.. 45° 倒角刀	适用刀片 ADNT.. 切削直径 Ø8~Ø20 45°倒角刀	适用刀柄 SSK.. 45° 倒角刀

SSK	MC	BC	MC	CA	XCET	ECC
D64	D65	D65	D65	D66	D67	D67
						
适用刀片 APMT.. 切削直径 Ø3~Ø50 45°倒角刀	适用刀片 SDMT.. 切削直径 Ø12~Ø30 倒角刀	适用刀片 TCMT.. 切削直径 Ø20~Ø31 倒拉45° 倒角刀	适用刀片 CCMT.. 切削直径 Ø18~Ø40 倒拉沉头刀	适用刀片 CCMT.. 切削直径 Ø18~Ø98 模坯专用双倒角沉头	适用刀片 有孔 倒角刀	适用刀片XCET 可45° 切削、可倒角、V槽切削 舍弃式倒角刀

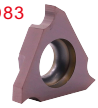
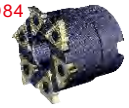
HTS
D73

适用刀片CCMT 刀长120-200 T型槽铣刀

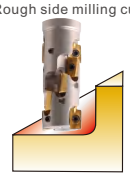
三面刃侧铣刀 Three side milling cutter



TMR	MPHT	DMP	DMP	DMP	SPMG	SMP	SMP	XSEQ
D74	D75	D75	D76	D76	D77	D77	D78	D79
								
适用刀片RCMT 刀长150 T型槽铣刀	适用刀柄 DMP.. 三面刃T型槽侧铣刀	适用刀片 MPHT.. 切削直径 Ø80~Ø200 三面刃T型槽侧铣刀	适用刀片 MPHT.. 切削直径 Ø21~Ø50 三面刃T型槽侧铣刀	适用刀片 MPHT.. 切削直径 Ø80~Ø200 三面刃T型槽侧铣刀	适用刀柄 SMP.. 三面刃T型槽侧铣刀	适用刀柄 SPMG 刀柄直径 Φ80-Φ200 三面刃铣刀（卡扣型）	适用刀片 SPMG.. 切削直径 Ø80~Ø200 三面刃T型槽侧铣刀	适用刀柄 SMP01.. 三面刃T型槽侧铣刀

SMP01	SMP01	ATS	890	YWD	TGF/TT43..	SMT	SMT	SMT
D79	D80	D81	D81	D82	D83	D84	D84	D84
								
适用刀片 XSEQ.. 切削直径 Ø100~Ø250 三面刃T型槽侧铣刀	适用刀片 XSEQ.. 切削直径 Ø63~Ø160 三面刃T型槽侧铣刀	适用刀片 CC.. 切削直径 Ø24~Ø49 三面刃T型槽侧铣刀	适用刀片 N331.. 切削直径 Ø98~Ø115 三面刃T型槽侧铣刀	适用刀片DCMT 三刃侧铣刀 YWD燕尾槽铣刀	适用刀柄 SMT.. 三面刃T型槽侧铣刀	适用刀片 TGF/TT.. 切削直径 Ø25~Ø44 三面刃T型槽侧铣刀	适用刀片 TGF/TT.. 切削直径 Ø25~Ø44 三面刃T型槽侧铣刀	适用刀片 TT43L.. 切削直径 Ø63~Ø80 三面刃T型槽侧铣刀

粗加工侧铣刀
Rough side milling cutter

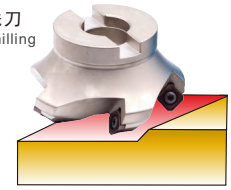


APMT	AP	AP
D70	D70	D70
		
适用刀柄 AP.. 玉米型粗铣刀	适用刀片 APMT.. 切削直径 Ø25~Ø50 玉米型粗铣刀	适用刀片 APMT.. 切削直径 Ø50~Ø80 玉米型粗铣刀

AP	LPMT	SPMT	SPM
D70	D71	D71	D71
			
适用刀片 APMT.. 切削直径 Ø50~Ø80 玉米型粗铣刀	适用刀柄 SPM.. 玉米型粗铣刀	适用刀柄 SPC.. 玉米型粗铣刀	适用刀片 LP+SP.. 切削直径 Ø25~Ø50 玉米型粗铣刀

SPC	SPC	HMP01	HMP01
D71	D72	D72	D72
			
适用刀片 LP+SP.. 切削直径 Ø50~Ø80 玉米型粗铣刀	适用刀片 LP+SP.. 切削直径 Ø50~Ø80 玉米型粗铣刀	适用刀片 LP+SP.. 切削直径 Ø50~Ø80 玉米型粗铣刀	适用刀片 LP+SP.. 切削直径 Ø50~Ø80 玉米型粗铣刀

面铣刀
Face milling



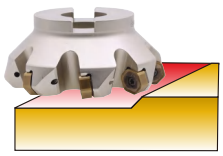
SEMT	ASX445
D111	D112
	
适用刀柄 ASX445.. 平面铣削加工	适用刀片 SEMT.. 切削直径 Ø50~Ø250 平面铣削加工

SEET	R245		AL-KM
D113	D113	D114	D114
			
适用刀柄 R245.. 平面铣削加工	适用刀片 SEET.. 切削直径 Ø63~Ø250 平面铣削加工	适用刀片 SEKT.. 切削直径 Ø50~Ø300 平面铣削加工	适用刀片 SEHT.. 切削直径 Ø50~Ø300 平面铣削加工

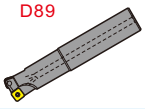
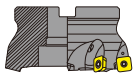
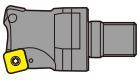
SEKT	SEHT	SD-45°	SE-45°
D115	D115	D116	D116
			
适用刀柄 KM.. 平面铣削加工	适用刀柄 KM.. 平面铣削加工	适用刀片 SD.. 切削直径 Ø80~Ø300 平面铣削加工	适用刀片 SE.. 切削直径 Ø80~Ø300 平面铣削加工

SP-65°	SEKR	SEKN	FP-75°
D116	D117	D117	D117
			
适用刀片 SP.. 切削直径 Ø80~Ø300 平面铣削加工	适用刀柄 SE.. 平面铣削加工	适用刀柄 SE.. 平面铣削加工	适用刀片 SP.. 切削直径 Ø80~Ø300 平面铣削加工

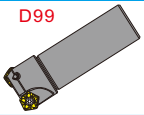
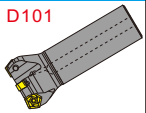
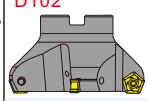
高进给铣刀
High feed milling cutter

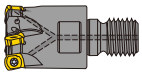
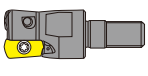
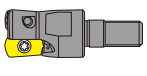


ASR	SDMT
D85	D86
	
适用刀片 JDMW.. 切削直径 Ø16~Ø40 高进给立铣刀	适用刀柄 ASF15.. 高进给立铣刀

ASRM	ASR	ASR	ASF	MYH	MFH	MFH	MFH	AJX
D86	D87	D88	D88	D89	D90	D90	D90	D91
								
适用刀片 EPNW.. 切削直径 Ø16~Ø40 高进给立铣刀	适用刀片SDNW.. 单面有孔 铣削刀片	适用刀片 EPNW.. 切削直径 Ø50~Ø63 高进给立铣刀	适用刀片 SDMT.. 切削直径 Ø80~Ø200 高进给立铣刀	适用刀片SOMT 刀杆长150~300 MFH快进给铣刀杆	适用刀片SOMT 刀盘直径22~40 MFH快进给铣刀盘	适用刀片SOMT 刀盘直径22~40 MFH快进给铣刀盘	适用刀片SOMT 刀头总长57~63 MFH快进给锁牙式铣刀头	适用刀片 JDMW.. 切削直径 Ø16~Ø50 高进给立铣刀

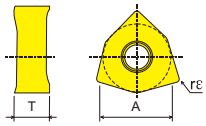
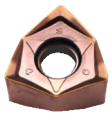
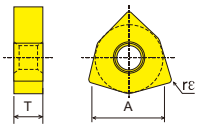
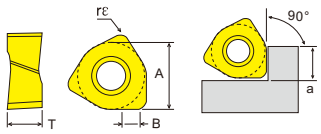
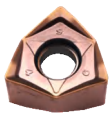
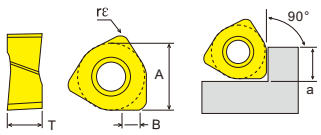
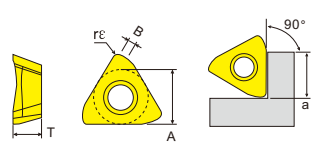
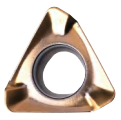
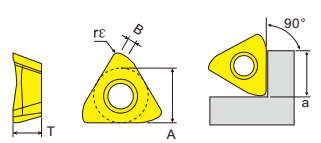
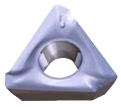
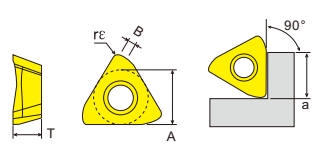
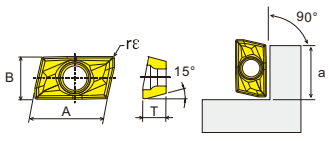
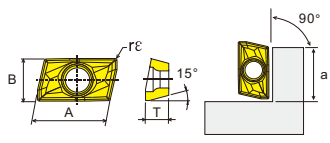
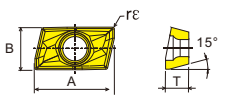
JOMW/JDMW	AJX	AJX	WDMW	SKS	SKS	WPMT	TXP	TXP
D92	D92	D92	D93	D93	D94	D95	D96	D96
								
适用刀柄 AJX.. 高进给立铣刀	适用刀片 JDMW.. 切削直径 Ø50~Ø100 高进给立铣刀	适用刀片 JDMW.. 切削直径 Ø16~Ø26 高进给立铣刀	适用刀柄 SKS.. 高进给立铣刀	适用刀片 WDMW.. 切削直径 Ø50~Ø100 高进给立铣刀	适用刀片 WDMW.. 切削直径 Ø16~Ø40 高进给立铣刀	适用刀柄 TXP.. 高进给立铣刀	适用刀片 WPMT.. 切削直径 Ø25~Ø40 高进给立铣刀	适用刀片 WPMT.. 切削直径 Ø50~Ø100 高进给立铣刀

双面 HNGX	KSHR	OD	HEP	MFPN66	TEN09R	TEN09R	双面 BLMP	TEBL
D97	D97	D98	D98	D99	D101	D102	D103	D103
								
适用刀柄 KSHR.. 高进给立铣刀	适用刀片 HNGX.. 切削直径 Ø40~Ø315 高进给立铣刀	适用刀片 ODMT.. 切削直径 Ø63~Ø125 高进给立铣刀	适用刀片 XDMT.. 切削直径 Ø63~Ø200 高进给立铣刀	适用刀片PNMU... 刀头总长110 MFPN66双面10角面铣刀	适用刀片PNMU... 刀头总长115~120 TEN09R双面10角面铣刀	适用刀片PNMU... 刀盘直径50~250 TEN09R双面10角面铣刀盘	适用刀柄 TEBL.. 高进给立铣刀	适用刀片 BLMP.. 切削直径 Ø16~Ø33 高进给立铣刀

TEBL	TEBL	双面 LNMU	EXN03	EXN03	EXN03R	LOGU	EFH03R	EFH03R
D104	D104	D105	D105	D106	D106	D107	D108	D108
								
适用刀片 BLMP.. 切削直径 Ø40~Ø63 高进给立铣刀	适用刀片BLMP 刀头长25-43 快进给锁牙式刀头	适用刀柄 EXN03.. 高进给立铣刀	适用刀片 LNMU.. 切削直径 Ø16~Ø35 高进给立铣刀	适用刀片 LNMU.. 切削直径 Ø40~Ø63 高进给立铣刀	适用刀片LNMU... 双面四角刀片 EFH03R快进给锁牙式刀头	适用刀片LOGU... 双面四角刀片 EFH03R机夹式快进给立铣刀	适用刀片LOGU... 双面四角刀片 EXN03R机夹式快进给立铣刀刀盘	适用刀片LOGU... 双面四角刀片 EXN03R快进给锁牙式刀头

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	PCBN-K	PCBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
高进给铣削加工 High feed milling			WNMU 0404	0.8	6.35	-	4.76			刀柄: (Toolholder) D07								●	●	●	●	●
高进给铣削加工 High feed milling			WNMU 080604EN-GM 080608EN-GM 低阻力 080608EN-SM 重切削用 080608EN-GH	0.4 0.8 0.8 0.8	14.02 14.02 14.02 14.02	- - - -	6.65 6.65 6.65 6.65			刀柄: (Toolholder) D08-D10								●	●	●	●	●
直角台肩铣削 Right Angle Milling			M6NGU 060404R-M 060405R-M 060408R-M 060410R-M 060416R-M	0.4 0.5 0.8 1.0 1.6	9.26 9.26 9.26 9.26 9.26	2.36 2.36 1.96 1.76 1.16	4.76 4.76 4.76 4.76 4.76	- - - - -	6.2 6.2 6.2 6.2 6.2	刀柄: (Toolholder) D11-D12								● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
直角台肩铣削 Right Angle Milling			M6NGU 090504R-M 090508R-M 090516R-M	0.4 0.8 1.6	13.05 13.05 13.05	2.2 2.0 1.2	6.74 6.74 6.74	- - -	9.2 9.2 9.2	刀柄: (Toolholder) D11-D12								● ● ●	● ● ●		
直角台肩铣削 Right Angle Milling			3PKT 100404R-M 100408R-M 150508R-M 190608R-M 190616R-M	0.4 0.5 0.8 1.0 1.6	6.9 6.9 10.7 13.5 13.5	1.3 0.9 1.6 2.0 1.2	4 4 5 6 6	- - - - -	7 7 11 15 15	刀柄: (Toolholder) D13-D14								● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
直角台肩铣削 Right Angle Milling			3PKT 100404R-ML 150508R-ML 190608R-ML	6.9 10.7 13.5	6.9 10.7 13.5	0.9 1.6 2.0	4 5 6	- - -	7 11 15	刀柄: (Toolholder) D13-D14								● ● ●	● ● ●		
直角台肩铣削 Right Angle Milling	 铝专用 Special for Aluminum		3PHT 100404R-AL 100408R-AL 150508R-AL 190608R-AL	6.9 6.9 10.7 13.5	6.9 6.9 10.7 13.5	1.3 0.9 1.6 2.0	4 4 5 6	- - - -	7 7 11 15	刀柄: (Toolholder) D13-D14						● ● ● ●					
直角台肩铣削 Right Angle Milling			JDMT 100304R 100308R 100320R 100332R 150504R 150508R 150520R 150530R	0.4 0.8 2.0 3.2 0.4 0.8 2.0 3.0	11.0 11.0 11.0 11.0 16.0 16.0 16.0 16.0	6.1 6.1 6.1 6.1 9.12 9.12 9.12 9.12	3.5 3.5 3.5 3.5 5.0 5.0 5.0 5.0	- - - - - - - -	10 10 10 10 15 15 15 15	刀柄: (Toolholder) D15-D16								●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●●		●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●●
直角台肩铣削 Right Angle Milling			JDMT 070202R 070204R 070208R EDMT 070220R-T 070220R	0.2 0.4 0.8 2.0 2.0	6.4 6.4 6.4 6.4 6.4	4.3 4.3 4.3 4.3 4.3	2.45 2.45 2.45 2.5 2.5		6 6 6 6 6	刀柄: (Toolholder) D17								●●● ●●● ●●● ●●● ●●●		●●● ●●● ●●● ●●● ●●●
直角台肩铣削 Right Angle Milling			APKT 1003PDR-HM 1003PDTR-76 1003PDTR-RM 100308PDTR-RM 100310PDR-RM 100312TR-RM 100316PDTR-RM 100320PDTR-RM	0.5 0.5 0.5 0.8 1.0 1.2 1.6 2.0	10.95 11.00 11.00 11.00 10.75 10.50 10.90 10.90	6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	3.55 3.47 3.47 3.47 3.47 3.47 3.47 3.47			刀柄: (Toolholder) D18						● ●		●●● ●●● ●●● ●●● ●●● ●●● ●●● ●●●	●● ●●	● ●

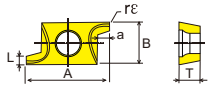
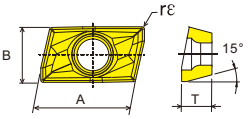
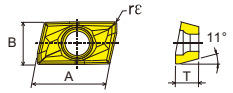
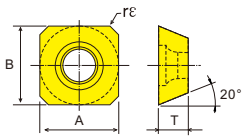
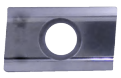
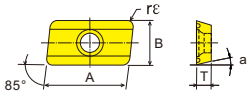
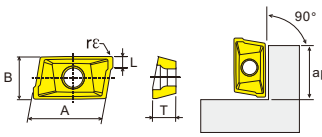
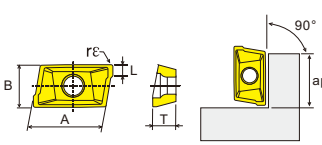
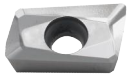
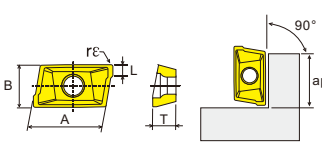
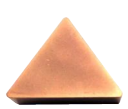
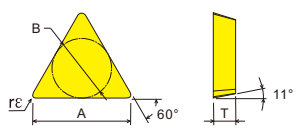
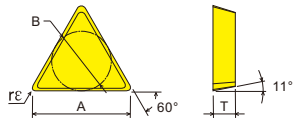
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling	铜铝非铁金属专用 Special for copper aluminum metal		APKT 1135PDER-G2	0.8	11	6.35	3.5			刀柄 (Toolholder): 铣刀杆刀盘: D19-D12, 倒角刀:D64, 玉米铣刀:D70				•							
			1604PDER-G2	0.8	16.5	9.525	4.76							•							
直角台肩铣削 Right Angle Milling	铜铝非铁金属专用 Special for copper aluminum metal		APKT 160402-AL	0.2	16.5	9.525	4.76			刀柄 (Toolholder): 铣刀杆刀盘: D19-D12, 倒角刀:D64, 玉米铣刀:D70				•							
			160404-AL	0.4	16.5	9.525	4.76							•							
			160408-AL	0.8	16.5	9.525	4.76							•							
直角台肩铣削 Right Angle Milling	铜铝非铁金属专用 Special for copper aluminum metal		APKT 113502	0.2	11	6.35	3.5			刀柄 (Toolholder): 铣刀杆刀盘: D19-D12, 倒角刀:D64, 玉米铣刀:D70	•										
			113504	0.4	11	6.35	3.5				•										
			113508	0.8	11	6.35	3.5				•										
			160402	0.2	16.5	9.525	4.76				•										
			160404	0.4	16.5	9.525	4.76				•										
			160408	0.8	16.5	9.525	4.76				•										
直角台肩铣削 Right Angle Milling	铸铁及淬火超硬材料加工 Cast iron and hard to cut materials		APKT 113502	0.2	11	6.35	3.5			刀柄 (Toolholder): 铣刀杆刀盘: D19-D12, 倒角刀:D64, 玉米铣刀:D70	•	•									
			113504	0.4	11	6.35	3.5				•	•									
			113508	0.8	11	6.35	3.5				•	•									
			160402	0.2	16.5	9.525	4.76				•	•									
			160404	0.4	16.5	9.525	4.76				•	•									
			160408	0.8	16.5	9.525	4.76				•	•									
直角台肩铣削 Right Angle Milling	通用加工 General processing		APMT 1135PDER-M2	0.8	11	6.35	3.5			刀柄 (Toolholder): 铣刀杆刀盘: D19-D12, 倒角刀:D64, 玉米铣刀:D70				•					•	•	•
			1604PDER-M2	0.8	16.5	9.525	4.76							•					•	•	•
直角台肩铣削 Right Angle Milling	通用加工 General processing		APMT 1135PDER-H1	0.4	11	6.35	3.5			刀柄 (Toolholder): 铣刀杆刀盘: D19-D12, 倒角刀:D64, 玉米铣刀:D70											•
			1135PDER-H2	0.8	11	6.35	3.5							•					•	•	•
			1135PDER-H3	1.2	11	6.35	3.5														•
			1135PDER-H4	1.6	11	6.35	3.5														•
			1135PDER-H6	2.4	11	6.35	3.5														•
			1604PDER-H1	0.4	16.5	9.525	4.76														•
			1604PDER-H2	0.8	16.5	9.525	4.76							•					•	•	•
			1604PDER-H3	1.2	16.5	9.525	4.76														•
			1604PDER-H4	1.6	16.5	9.525	4.76														•
			1604PDER-H6	2.4	16.5	9.525	4.76														•
			1604PDER-H8	3.2	16.5	9.525	4.76														•
直角台肩铣削 Right Angle Milling	通用加工 General processing		APMT 1135PDER-DU	0.8	11	6.35	3.5			刀柄 (Toolholder): 铣刀杆刀盘: D19-D12, 倒角刀:D64, 玉米铣刀:D70				•					•	•	•
			1604PDER-DU	0.8	16.5	9.525	4.76							•					•	•	•
直角台肩铣削 Right Angle Milling	通用加工 General processing		APMT 1135PDER-KZ	0.8	11	6.35	3.5			刀柄 (Toolholder): 铣刀杆刀盘: D19-D12, 倒角刀:D64, 玉米铣刀:D70										•	•
			1604PDER-KZ	0.8	16.5	9.525	4.76													•	•
直角台肩铣削 Right Angle Milling	通用加工 General processing		APMT 1135PDER-ZM	0.8	11	6.35	3.5			刀柄 (Toolholder): 铣刀杆刀盘: D19-D12, 倒角刀:D64, 玉米铣刀:D70										•	•
			1604PDER-ZM	0.8	16.5	9.525	4.76													•	•
直角台肩铣削 Right Angle Milling			R390- 11T304M-PM	0.4	10	6.8	3.59			刀柄: (Toolholder) D23-D24	•					•		•	•	•	•
			11T308M-PM	0.8	10	6.8	3.59				•					•		•	•	•	•
			11T316M-PM	1.6	10	6.8	3.59				•										•
			11T331M-PM	3.1	10	6.8	3.59				•										•
			170404M-PM	0.4	15.7	9.6	4.76				•					•		•	•	•	•
			170408M-PM	0.8	15.7	9.6	4.76				•					•		•	•	•	•
			170416M-PM	1.6	15.7	9.6	4.76				•										•
			170431M-PM	3.1	15.7	9.6	4.76				•										•

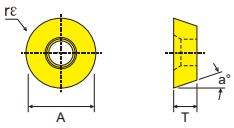
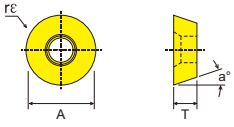
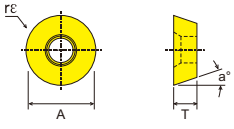
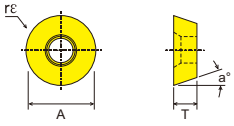
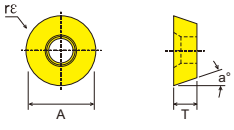
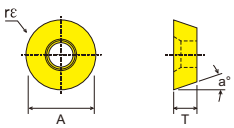
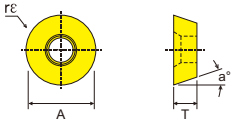
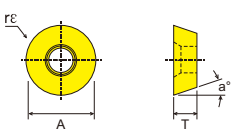
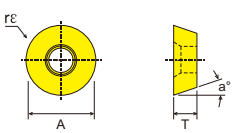
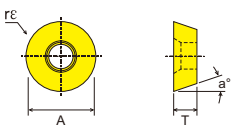
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	PCBN-K	PCBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			RT 070204R-81 100304R-81 100304R-31 100308R-81	0.4 0.4 0.4 0.8	6.4 11 11 11	4.3 6.35 6.35 6.35	2.38 3.4 3.4 3.4	1.3 1.8 1.8 1.8	1.5 2.1 2.1 2.1	刀柄 : (Toolholder) D25-D26	●	●	●				●	●	●	●	
直角台肩铣削 Right Angle Milling			XOMX 060208FR-E03 060208R-M05 090308FR-E05 120408TR-M06	0.8 0.8 0.8 0.8	6.94 6.94 10.8 11.41	4.09 4.09 6.35 8.18	2.45 2.45 3.65 4.15			刀柄 : (Toolholder) D26							●	●	●	●	
直角台肩铣削 Right Angle Milling			AOMT 123602PEER-M 123604PEER-M 123608PEER-M 123612PEER-M 123616PEER-M 123620PEER-M 123624PEER-M 123632PEER-M	0.2 0.4 0.8 1.2 1.6 2.0 2.4 3.2	12	6.6	3.6			刀柄 : (Toolholder) D27									●	●	
直角台肩铣削 Right Angle Milling			SEET 09T308PER-PF 09T308PER-PM 09T308PER-PR SEET 120308PER-PF 120308PER-PM 120308PER-PR	0.8 0.8 0.8 0.8 0.8 0.8	9.525 9.525 9.525 13.308 13.308 13.308	9.525 9.525 9.525 13.308 13.308 13.308	4.01 4.01 4.01 4.04 4.04 4.04			刀柄 : (Toolholder) D28							●	●	●	●	
直角台肩铣削 Right Angle Milling			APET 120202SR 120204SR 120208SR APNT 120208SR ADET 160302SR 160304SR 160308SR ADNT 160308SR	0.2 0.4 0.8 0.8 0.2 0.4 0.8 0.8	12.7 12.7 12.7 12.7 15.875 15.875 15.875 15.875	7.938 7.938 7.938 7.938 9.525 9.525 9.525 9.525	2.5 2.5 2.5 2.5 3.18 3.18 3.18 3.18		11° 11° 11° 11° 15° 15° 15° 15°	刀柄 : (Toolholder) D29,D63			●				●		●	●	
直角台肩铣削 Right Angle Milling			AXMT 0602PER-EM 060204R-EM 060208R-EM 060216R-EM	0.2 0.4 0.8 1.6	6 6 6 6	4.15 4.15 4.15 4.15	2.6 2.6 2.6 2.6	1.0 1.0 1.0 1.0	5.75 5.75 5.75 5.75	刀柄 : (Toolholder) D30							●	●	●	●	
直角台肩铣削 Right Angle Milling			AXMT 0903PER-ML 0903PER-EML 090308R-EML 090316R-ML 090320R-EML 090332R-EML	0.4 0.4 0.8 1.6 2.0 3.2	9.5 9.5 9.5 9.5 9.5 9.5	6.21 6.21 6.21 6.21 6.21 6.21	3.6 3.6 3.6 3.6 3.6 3.6	1.4 0.84 - - - -	8.8 8.8 8.8 8.8 8.8 8.8	刀柄 : (Toolholder) D30							●	●	●	●	
直角台肩铣削 Right Angle Milling	 铝专用 Special for Aluminum		AXCT 060202R-AL 060204R-AL 0903PER-AL	0.2 0.4 0.4	6 6 9.5	4.15 4.15 6.21	2.6 2.6 3.6	0.83 0.83 0.83	5.75 5.75 8.8	刀柄 : (Toolholder) D30				●							
平面铣削 / 倒角加工 Plane milling / chamfering			TPKN 110304 110308 160304 160308 220404 220408 220412 2204PDR	0.4 0.8 0.4 0.8 0.4 0.8 1.2 -	11 11 16.5 16.5 22 22 22 22	6.35 6.35 9.525 9.525 12.7 12.7 12.7 12.7	3.18 3.18 3.18 3.18 4.76 4.76 4.76 4.76			刀柄 : (Toolholder) D31,D60				●	●	●	●	●	●	●	
平面铣削 / 倒角加工 Plane milling / chamfering			TPMR 090204 110304 110308 160304 160308 160312 220412 330916	0.4 0.4 0.8 0.4 0.8 1.2 1.2 1.6	9.6 11 11 16.5 16.5 16.5 22 33	5.56 6.35 6.35 9.525 9.525 9.525 12.7 19.05	2.38 3.18 3.18 3.18 3.18 3.18 4.76 9.52			刀柄 : (Toolholder) D31,D60							●	●	●	●	

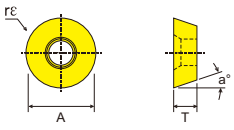
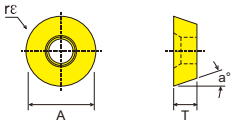
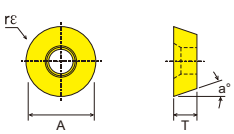
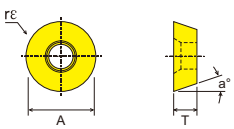
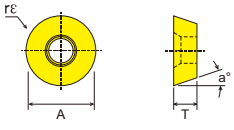
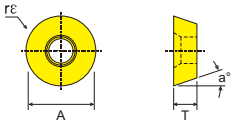
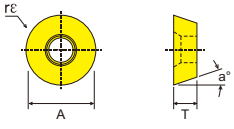
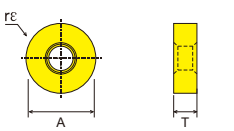
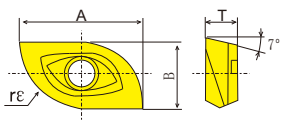
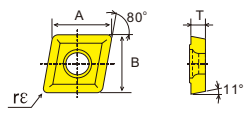
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
圆角铣削加工 Fillet milling			RPGT 08T2-AL	4	8			2.78	11°	刀柄: (Toolholder) D33-D36 T型槽:D74			•							
			1003-AL	5	10			3.15	11°				•							
			10T3-AL	5	10			3.97	11°				•							
			1204-AL	6	12			4.76	11°				•							
圆角铣削加工 Fillet milling			RPEW 0802MO	4	8			2.38	11°	刀柄: (Toolholder) D33-D36 T型槽:D74		•	•	•	•	•	•	•	•	•
			1003MO	5	10			3.15	11°			•	•	•	•	•	•	•	•	•
			1003MO-DU	5	10			3.97	11°			•	•	•	•	•	•	•	•	•
			1204MOF	6	12			4.76	11°			•	•	•	•	•	•	•	•	•
圆角铣削加工 Fillet milling			RPKT 10T3MOF	5	10			3.97	11°	刀柄: (Toolholder) D33-D36 T型槽:D74							•	•	•	•
			1204MOF	6	12			4.76	11°								•	•	•	•
圆角铣削加工 Fillet milling			RPKT 10T3MOT	5	10			3.97	11°	刀柄: (Toolholder) D33-D36 T型槽:D74							•	•	•	•
			1204MOT	6	12			4.76	11°								•	•	•	•
圆角铣削加工 Fillet milling			RPMT 08T2MOE-JS	4	8			2.78	11°	刀柄: (Toolholder) D33-D36 T型槽:D74		•		•	•	•	•	•	•	•
			1003MOE-JS	5	10			3.18	11°			•		•	•	•	•	•	•	•
			10T3MOE-JS	5	10			3.97	11°			•		•	•	•	•	•	•	•
			1204MOE-JS	6	12			4.76	11°			•		•	•	•	•	•	•	•
圆角铣削加工 Fillet milling			RPMT 10T3MO-DU	5	10			3.97	11°	刀柄: (Toolholder) D33-D36 T型槽:D74							•	•	•	•
			1204MO-DU	6	12			4.76	11°								•	•	•	•
圆角铣削加工 Fillet milling			RPMT 08T2MO-GH	4	8			2.78	11°	刀柄: (Toolholder) D33-D36 T型槽:D74							•	•	•	•
			10T3MO-GH	5	10			3.97	11°								•	•	•	•
			1204MO-GH	6	12			4.76	11°								•	•	•	•
圆角铣削加工 Fillet milling			RCGT 0602-AL	3	6			2.38	7°	刀柄: (Toolholder) D37-D38 T型槽:D74			•							
			0803-AL	4	8			3.15	7°				•							
			1003-AL	5	10			3.15	7°				•							
			10T3-AL	5	10			3.97	7°				•							
			1204-AL	6	12			4.76	7°				•							
圆角铣削加工 Fillet milling			RCKT 10T3MO-PM	5	10			3.97	7°	刀柄: (Toolholder) D37-D38 T型槽:D74							•	•	•	•
			1204MO-PM	6	12			4.76	7°								•	•	•	•
			1606MO-PM	8	16			6.35	7°								•	•	•	•
			2006MO-PM	10	20			6.35	7°								•	•	•	•
圆角铣削加工 Fillet milling			RCKT 10T3MO-PR	5	10			3.97	7°	刀柄: (Toolholder) D37-D38 T型槽:D74							•	•	•	•
			1204MO-PR	6	12			4.76	7°								•	•	•	•
			1606MO-PR	8	16			6.35	7°								•	•	•	•
			2006MO-PR	10	20			6.35	7°								•	•	•	•

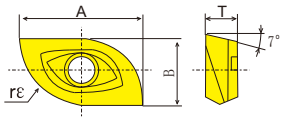
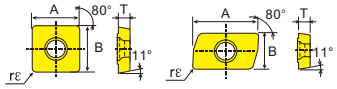
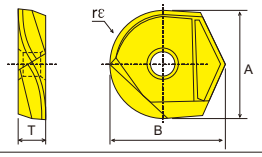
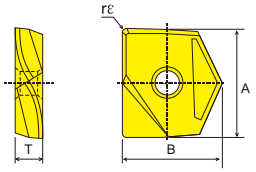
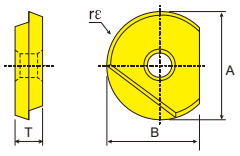
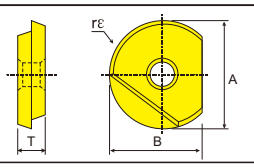
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

			PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
P	钢	Steel	●	◕	◕			◕	✕	✕	✕	◕	●
M	不锈钢	Stainless Steel				◕		◕	✕	✕	✕	◕	○
K	铸铁	Iron		●	◕			◕	✕	✕	✕		
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●			◕							
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●						✕	✕	◕	●	
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●						✕	✕	◕	●	

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder
圆角铣削加工 Fillet milling			RCMT 0803MO	4	8			3.18	7°	刀柄: (Toolholder) D37-D38 T型槽:D74
			1003MO	5	10			3.18	7°	
			10T3MO	5	10			3.97	7°	
			1204MO	6	12			4.76	7°	
			1606MO	8	16			6.35	7°	
			2006MO	10	20			6.35	7°	
圆角铣削加工 Fillet milling			RCMX 0803MO	4	8			3.18	7°	刀柄: (Toolholder) D37-D38 T型槽:D74
			1003MO	5	10			3.18	7°	
			10T3MO	5	10			3.97	7°	
			1204MO	6	12			4.76	7°	
			1606MO	8	16			6.35	7°	
			2006MO	10	20			6.35	7°	
			2507MO	12.5	25			7.94	7°	
			3209MO	16	32			9.52	7°	
圆角铣削加工 Fillet milling			RDKW 0501MO	2.5	5			1.59	15°	刀柄: (Toolholder) D39-D41
			0702MO	3.5	7			2.38	15°	
			0803MO	4	8			3.15	15°	
			10T3MO	5	10			3.97	15°	
			1204MO	6	12			4.76	15°	
			1604MO	8	16			4.76	15°	
			1605MO	8	16			5.56	15°	
			1606MO	8	16			6.35	15°	
			2006MO	10	20			6.35	15°	
圆角铣削加工 Fillet milling			RDKX 10T3MO	5	10			3.97	15°	刀柄: (Toolholder) D39-D41
			1204MO	6	12			4.76	15°	
			1605MO	8	16			6.35	15°	
				10	20			6.35	15°	
圆角铣削加工 Fillet milling			RDKX 10T3MP-1	5	10			3.97	15°	刀柄: (Toolholder) D39-D41
			1204MP-1	6	12			4.76	15°	
圆角铣削加工 Fillet milling			RDMW 10T3MOT-PM	5	10			3.97	15°	刀柄: (Toolholder) D39-D41
			1204MOT-PM	6	12			4.76	15°	
			1605MOT-PM	8	16			5.56	15°	
圆角铣削加工 Fillet milling			RDMT 10T3MO	5	10			3.97	15°	刀柄: (Toolholder) D39-D41
			1204MO	6	12			4.76	15°	
平面铣削加工 Surface milling			RNGJ 1204M0ELD	6	12			4.75		刀柄: (Toolholder) D42
			1204M0SGD							
			1204M0SHD							
球头仿形粗铣加工 Rough milling of ball head profiling		ZC..  CP.. 	ZCET 080CE 主刃	8	15.6	7.9	3.97			刀柄: (Toolholder) D43
			ZCET 100CE	10	18.3	10	4.74			
			ZCEW 100CE	10	18.3	10	4.74			
			ZCET 125CE	12.5	23.1	12.3	6.1			
			ZCEW 125CE	12.5	23.1	12.3	6.1			
			ZCET 150CE	15	28.3	14.9	7.59			
			ZCEW 150CE	15	28.3	14.9	7.59			
			ZCET 160CE	16	28.8	15.4	7.45			
			ZCEW 200CE	20	35.4	20.1	8.0			
			ZCET 080SE 副刃	8	16.8	5.9	3.43			
			ZCET 100SE	10	16.7	8.1	4.24			
			ZCEW 100SE	10	16.7	8.1	4.24			
			ZCET 125SE	12.5	20.8	9.3	5.4			
			ZCEW 125SE	12.5	20.8	9.3	5.4			
			ZCET 150SE	15	25.7	11.8	7.09			
			ZCEW 150SE	15	25.7	11.8	7.09			
			ZCET 160SE	16	26.3	12.4	6.96			
			ZCEW 200SE	20	31.9	15.7	7.0			
			CPMT 080204 外周刃	0.4	7.94	7.94	2.38			
			CPMT 090308	0.8	9.525	9.525	3.18			

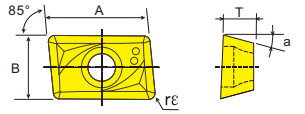
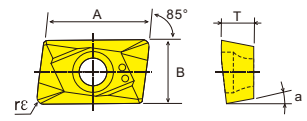
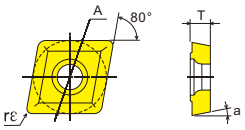
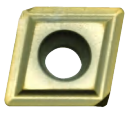
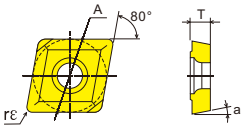
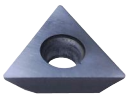
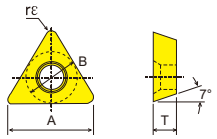
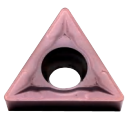
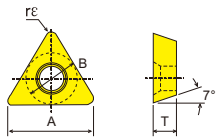
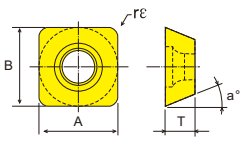
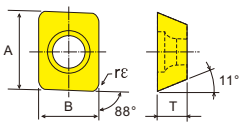
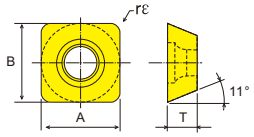
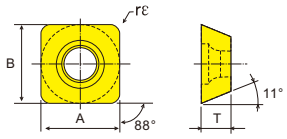
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
球头仿形粗铣加工 Rough milling of ball head profiling		SWB..  SP.. ZC/ZP.. 	SWB 216HM 主刃	8	15	7.9	3												●	●	●
			220HM	10	15.8	9.9	3.65												●	●	●
			225HM	12.5	18.5	12.4	3.8												●	●	●
			230HM	15	22.2	14.8	5.35												●	●	●
			232HM	16	26	16	5.35												●	●	●
			240HM	20	30.4	20.8	6.85												●	●	●
			250HM	25	34.4	25.7	7												●	●	●
			216HS 副刃	8	16.1	6.6	3			☞ 刀柄: (Toolholder) D44									●	●	●
			220HS	10	20	8.2	3.65												●	●	●
			225HS	12.5	23.8	10.5	3.8												●	●	●
			230HS	15	27.5	12.3	5.35												●	●	●
			232HS	16	31.7	13.9	5.35												●	●	●
			240HS	20	37.5	16.3	6.85												●	●	●
			250HS	25	42.6	20.8	7												●	●	●
			SPGA 090304 外周刃	0.4	9.525	9.525	3.18												●	●	●
			SPMA 090304	0.4	9.525	9.525	3.18												●	●	●
			IM-SP 32GS	0.8	9.525	9.525	3.18												●	●	●
			ZCMT 100308R	0.8	10.4	6.35	3.4												●	●	●
			ZPMT 100308ZER	0.8	10	6	3.2												●	●	●
球头仿形精铣加工 Finish milling of ball head profiling			ZPFG 080	4	8	9.7	2.1			☞ 刀柄: (Toolholder) D45-D46									●	●	●
			100	5	10	12.1	2.7												●	●	●
			120	6	12	14.6	3.2												●	●	●
			160	8	16	16.6	4.2												●	●	●
			200	10	20	20.3	5.2												●	●	●
			250	12.5	25	24.1	6.2												●	●	●
			300	15	30	29.2	7.2												●	●	●
			320	16	32	30.2	7.2												●	●	●
直角台肩精铣加工 Right angle shoulder finish milling			ZCFW 080-R0.3	0.3	8	9.7	2.1			☞ 刀柄: (Toolholder) D47-D49									●	●	●
			100-R0.3	0.3	10	12.1	2.7												●	●	●
			100-R0.5	0.5	10	12.1	2.7												●	●	●
			100-R1.0	1.0	10	12.1	2.7												●	●	●
			120-R0.3	0.3	12	14.6	3.2												●	●	●
			120-R0.5	0.5	12	14.6	3.2												●	●	●
			120-R1.0	1.0	12	14.6	3.2												●	●	●
			160-R0.3	0.3	16	16.6	4.2												●	●	●
			160-R0.5	0.5	16	16.6	4.2												●	●	●
			160-R1.0	1.0	16	16.6	4.2												●	●	●
			160-R1.5	1.5	16	16.6	4.2												●	●	●
			160-R2.0	2.0	16	16.6	4.2												●	●	●
			200-R0.3	0.3	20	19.9	5.2												●	●	●
			200-R0.5	0.5	20	19.9	5.2												●	●	●
			200-R1.0	1.0	20	19.9	5.2												●	●	●
			200-R1.5	1.5	20	19.9	5.2												●	●	●
			200-R2.0	2.0	20	19.9	5.2												●	●	●
			250-R0.3	0.3	25	22.6	6.2												●	●	●
			250-R0.5	0.5	25	22.6	6.2												●	●	●
			250-R1.0	1.0	25	22.6	6.2												●	●	●
			250-R1.5	1.5	25	22.6	6.2												●	●	●
			250-R2.0	2.0	25	22.6	6.2												●	●	●
			300-R0.3	0.3	30	27.2	7.2												●	●	●
			300-R0.5	0.5	30	27.2	7.2												●	●	●
			300-R1.0	1.0	30	27.2	7.2												●	●	●
			320-R0.3	0.3	32	28.2	7.2												●	●	●
			320-R0.5	0.5	32	28.2	7.2												●	●	●
			320-R1.0	1.0	32	28.2	7.2												●	●	●
球头仿形精铣加工 Finish milling of ball head profiling			BNM 060	3	6	5	2			☞ 刀柄: (Toolholder) D50									●	●	●
			070	3.5	7	5.5	2												●	●	●
			080	4	8	7	2.4												●	●	●
			100	5	10	8.5	2.6												●	●	●
			110	5.5	11	9	2.6												●	●	●
			120	6	12	10	3												●	●	●
			160	8	16	12	4												●	●	●
			200	10	20	15	5												●	●	●
			250	12.5	25	18.5	6												●	●	●
			300	15	30	22.5	7												●	●	●
			320	16	32	23.5	7												●	●	●
球头仿形精铣加工 Finish milling of ball head profiling			P3200- D08	4	8	7	2.4			☞ 刀柄: (Toolholder) D51-D52									●	●	●
			D10	5	10	8.5	2.6												●	●	●
			D12	6	12	10	3												●	●	●
			D16	8	16	12	4												●	●	●
			D20	10	20	15	5												●	●	●
			D25	12.5	25	18.5	6												●	●	●
			D30	15	30	22.5	7												●	●	●
			D32	16	32	23.5	7												●	●	●

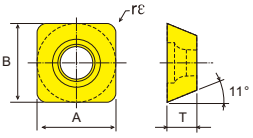
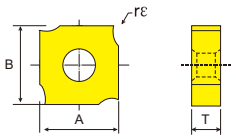
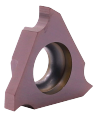
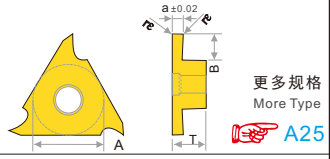
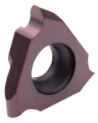
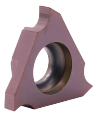
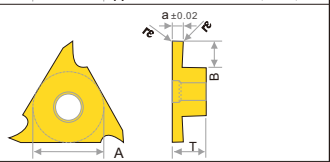
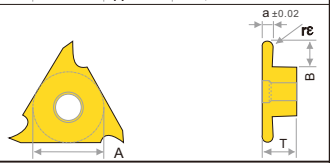
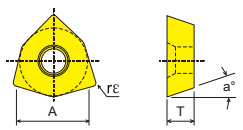
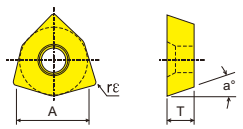
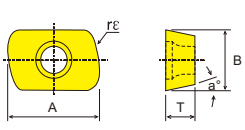
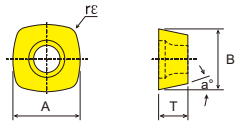
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

			PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
P	钢	Steel	●	●			●	✕	✕	✕	●	●	●
M	不锈钢	Stainless Steel				●	●	✕	✕	✕	✕	●	○
K	铸铁	Iron		●		●		●	✕	✕	✕	✕	
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●				●						
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●							✕	✕	●	●
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●							✕	✕	●	●

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder
平面铣削 / 倒角加工 Plane milling / chamfering		 底刃	ADMT 080308L 100308L 12T308L APMT 160408L 170408L 190508L 250508L	0.8 0.8 0.8 0.8 0.8 0.8 0.8	7.8 10.4 12.6 16.45 17.6 19.6 25.4	6.2 6.35 7.93 9.53 9.53 10 11	3.0 3.18 3.9 4.76 4.76 5.0 5.5		15 15 15 11 11 11 11	☞ 刀柄 : (Toolholder) D54
平面铣削 / 倒角加工 Plane milling / chamfering		 外周刃	APMT 090208R ACMT 100308R APMT 100320R 12T308R 12T320R 12T330R 150408R 150430R	0.8 0.8 2.0 0.8 2.0 3.0 0.8 3.0	9.1 10.1 10.1 13.14 13.14 13.14 15.88 15.88	5.1 6.35 6.35 7.93 7.93 7.93 9.53 9.53	2.6 3.4 3.4 3.9 3.9 3.9 4.76 4.76		11 7 7 11 11 11 11 11	☞ 刀柄 : (Toolholder) D54
平面铣削 / 倒角加工 Plane milling / chamfering			CCMT 060204 09T304 09T308 CPMT 090308 120408 120430	0.4 0.4 0.8 0.8 0.8 3.0	6.35 9.525 9.525 9.525 12.7 12.7		2.38 3.9 3.9 3.15 4.76 4.76			☞ 刀柄 : (Toolholder) D53
平面铣削 / 倒角加工 Plane milling / chamfering			CPMT 080204Z 090204Z 120308Z 160408Z 160430Z 190408Z 190430Z	0.4 0.4 0.8 0.8 3.0 0.8 3.0	7.94 9.525 12.7 15.875 15.875 19.05 19.05		2.38 2.38 3.15 4.76 4.76 4.76 4.76			☞ 刀柄 : (Toolholder) D53
定位定点倒角加工 Positioning point chamfering			TCMX 090204 110204 16T304	0.4 0.4 0.4	8.6 10 15.5	5.56 6.35 9.525	2.38 2.38 2.38			☞ 刀柄 : (Toolholder) D55
倒角加工 chamfering			TCMT 090204 110204 16T304	0.4 0.4 0.4	8.6 10 15.5	5.56 6.35 9.525	2.38 2.38 2.38			☞ 刀柄 : (Toolholder) D61-D62
直角台肩铣削 Right Angle Milling			SPMW 090304 SDMB 26152	0.4 0.4	9.525 8.3	9.525 8.3	3.18 2.5		11° 15°	☞ 刀柄 : (Toolholder) D59
铣削刀片 Milling Inserts			APKT 150412-PM 150412-KM LPMT 150412-PM 150412-KM	1.2 1.2 1.2 1.2	16.33 16.33 16.33 16.33	12.7 12.7 12.7 12.7	4.76 4.76 4.76 4.76			☞ 刀柄 : (Toolholder) D71-D72
铣削刀片 Milling Inserts			SPMT 120408-PM 120408-KM	0.8 0.8	12.7 12.7	12.7 12.7	4.76 4.76			☞ 刀柄 : (Toolholder) D71-D72
铣削刀片 Milling Inserts			MPHT 060304-DM 080305-DM 120408-DM	0.4 0.5 0.8	6.35 8.3 12.7	6.35 8.3 12.7	3.18 3.18 4.76			☞ 刀柄 : (Toolholder) D75-D76

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

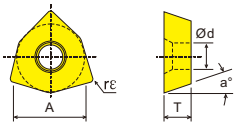
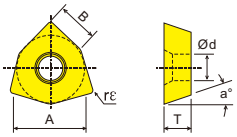
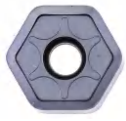
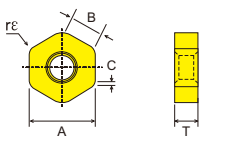
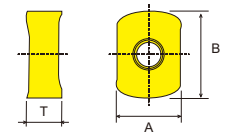
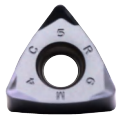
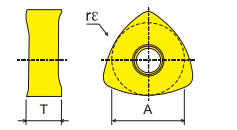
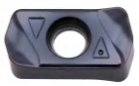
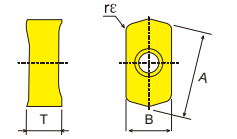
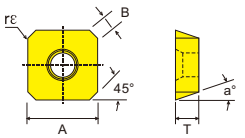
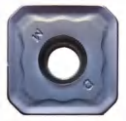
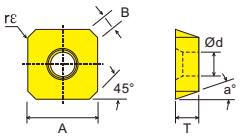
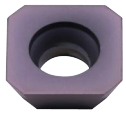
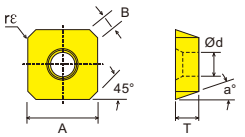
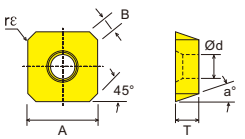
Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
铣削刀片 Milling Inserts			SPMG 050204-TT 060204-TT 07T308-TT 090408-TT 110408-TT 140512-TT	0.4 0.4 0.8 0.8 0.8 1.2	5.0 6.0 7.94 9.8 11.5 14.3	5.0 6.0 7.94 9.8 11.5 14.3	2.38 2.38 3.97 4.30 4.8 5.0			刀柄: (Toolholder) D77-D78				●			●	●	●	●	●
铣削刀片 Milling Inserts			XSEQ 1202 1203 12T3 1204 12T4		12.7 12.7 12.7 12.7 12.7	12.7 12.7 12.7 12.7 12.7	2.3 3.0 3.5 4.0 4.5			刀柄: (Toolholder) D79-D80							●	●	●	●	●
切槽刀片 Grooving Inserts			TGF32L 150 200 250 300 350	0.1 0.15 0.15 0.15 0.15	16	2.0 2.8 2.8 2.8 2.8	3.18		1.5 2.0 2.5 3.0 3.5	刀柄: (Toolholder) D83-D84				●			●	●	●	●	●
切槽刀片 Grooving Inserts			TGF32L 150-R0.75 200-R1.0 250-R1.25 300-R1.5	0.75 1.0 1.25 1.5	16	2.0 2.8 2.8 2.8	3.18		R0.75 R1.0 R1.25 R1.5	刀柄: (Toolholder) D83-D84				●			●	●	●	●	●
切槽刀片 Grooving Inserts			TT43L 200 250 300 350 400 500	0.2 0.2 0.2 0.2 0.2 0.2	22	4.8	5.0		2.0 2.5 3.0 3.5 4.0 5.0	刀柄: (Toolholder) D83-D84				●			●	●	●	●	●
切槽刀片 Grooving Inserts			TT43L 200-R1.0 250-R1.25 300-R1.5 350-R1.75 400-R2.0 500-R2.5	1.0 1.25 1.5 1.75 2.0 2.5	22	4.8	5.0		R1.0 R1.25 R1.5 R1.75 R2.0 R2.5	刀柄: (Toolholder) D83-D84				●			●	●	●	●	●
高进给铣削加工 High feed milling			JOMW 06T215ZZSR-FT 080320ZZSR-FT JDMW 09T320ZDSR-FT 120420ZDSR-FT 140520ZDSR-FT	1.5 2.0 2.0 2.0 2.0	6.35 8.0 9.525 12.0 14.0	2.78 3.18 3.97 4.76 5.56	13° 13° 15° 15° 15°			刀柄: (Toolholder) D91-D92										●	●
高进给铣削加工 High feed milling			JOMT 06T215ZZSR-JM 080320ZZSR-JM JDMT 09T320ZDSR-JM 120420ZDSR-JM 140520ZDSR-JM	1.5 2.0 2.0 2.0 2.0	6.35 8.0 9.525 12.0 14.0	2.78 3.18 3.97 4.76 5.56	13° 13° 15° 15° 15°			刀柄: (Toolholder) D91-D92										●	●
高进给铣削加工 High feed milling			EPNW 0603TN-8 EPMT 0603TN-8 EDNW 12T3TN-10 EDMT 12T3TN-10	8 8 10 10	10 12 10 12	6.35 6.35 10 10	3.18 3.18 3.97 3.97	11° 11° 15° 15°		刀柄: (Toolholder) D85-D88										●	●
高进给铣削加工 High feed milling			EPNW 0803TN-10 EDNW 10T3TN-10 SDNW 1205ZDTN-R15 SDMT 1205ZDTN-R15 EDNW 13T4TN-10 13T4TN-15 SDNW 1505ZDTN-R15 SDMT 1505ZDTN-R15 带修光刃 1505ZDTN-C15	10 10 15 15 10 15 15 15 15	8.1 10 12.7 12.7 13.5 13.5 15.875 15.875 15.875	8.1 10 12.7 12.7 13.5 13.5 15.875 15.875 15.875	3.18 3.97 5.56 5.56 5.56 5.56 5.56 5.56 5.56	11° 15° 15° 15° 15° 15° 15° 15° 15°		刀柄: (Toolholder) D85-D88										●	●

更多规格 More Type A25

刀杆 刀盘
直角台肩立铣刀
圆角铣刀
球头铣刀
钻铣刀杆
倒角刀杆
玉米铣刀
三面刃槽刀
快进给系列
龙门平面铣刀
锁牙式刀柄

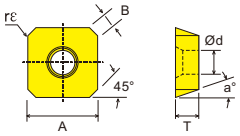
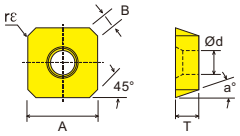
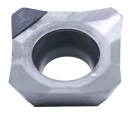
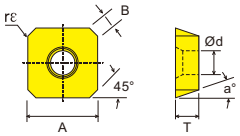
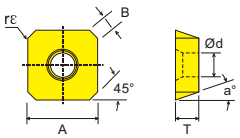
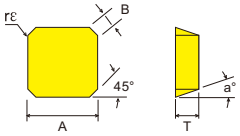
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

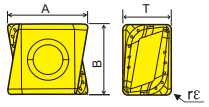
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
高进给铣削加工 High feed milling			WOMW 04T215ZER WDMW 050316ZER 050316ZTR 06T320ZER 06T320ZTR 080520ZER 080520ZTR 10X620ZER 10X620ZTR	1.5 1.6 1.6 2.0 2.0 2.0 2.0 2.0 2.0	6.5 8 8 10 10 13 13 16 16	2.8 3.2 3.2 3.97 3.97 5.5 5.5 6 6	13° 13° 13° 13° 13° 13° 13° 13° 13°			刀柄: (Toolholder) D93-D94							● ● ● ● ● ● ● ● ●			● ● ● ● ● ● ● ● ●	
高进给铣削加工 High feed milling			WPGT 050315ZSR 060415ZSR 080615ZSR 090725ZSR 050315ZSR-PM 060415ZSR-PM 080615ZSR-PM 090725ZSR-PM	1.5 1.5 1.5 2.5 1.5 1.5 1.5 2.5	7.94 9.525 12.85 15 7.94 9.525 12.85 15	6	3.5 4.2 6.35 7.0 3.5 4.2 6.35 7.0	11° 11° 11° 11° 11° 11° 11° 11°		刀柄: (Toolholder) D95-D96							● ● ● ● ● ● ● ● ● ● ● ●			● ● ● ● ● ● ● ● ● ● ● ●	
平面铣削加工 Surface milling			HNGX 0906ANSN-M 0906ANSN-R	1.2	15.88	9	1.8	5.56		刀柄: (Toolholder) D97-D98										● ● ● ● ● ● ● ● ● ●	
高进给铣削加工 High feed milling			BLMP 0603R-M	-	6.39	9	3.73			刀柄: (Toolholder) D103-D104										● ● ● ● ●	
高进给铣削加工 High feed milling			BLMP 1205R-M	15	12	-	5.5			刀柄: (Toolholder) D103-D104										● ● ● ● ●	
高进给铣削加工 High feed milling			LNMU 0303ZER-MJ 0303ZER-ML	1.2 1.2	11.59 11.59	6.0 6.0	4.29 4.29			刀柄: (Toolholder) D105-D106										● ● ● ● ●	
平面铣削加工 Surface milling			SEET 13T3AGEN-JL SEMT 13T3AGSN-JH 13T3AGSN-JM	1.5	13.4	1.9	3.97	20°		刀柄: (Toolholder) D111-D112			• • •							● ● ● ● ● ● ● ●	
平面铣削加工 Surface milling			SEET 12T3-DF 轻切削 12T3-CF 12T3-EF 中切削 12T3-DM 12T3-CM 12T3-EM 重切削 12T3-DR 12T3-CR 细铣用 12T3-LH	-	13.4	2.55	3.97	4.1	20°	刀柄: (Toolholder) D113			-							● ●	
平面铣削加工 Surface milling			SECA 1204AFSN 1204AFTN	- -	12.7 12.7	2.66 2.66	4.76 4.76	5.56 5.56	20° 20°	刀柄: (Toolholder) D114-D115										● ● ● ● ● ● ● ●	
平面铣削加工 Surface milling			SEKT 1204AFTN	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114-D115										● ● ● ●	

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
平面铣削加工 Surface milling			SEHT 1204AFSN	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114-D115								●	●	●	●
平面铣削加工 Surface milling			SEHT 1204-AK	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114-D115					●						
平面铣削加工 Surface milling			SEHT 1204	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114-D115	●										
平面铣削加工 Surface milling			SEHT 1204	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114-D115		●	●								
平面铣削加工 Surface milling			SDKN 1203AETN 1504AETN SEEN 1203AFTN1 1504AFTN1 SEKN 1203AFTN1 1504AFTN1 SPKN 1203EDR	- - 1.0 1.0 - - -	12.7 15.875 12.7 15.875 12.7 15.875 12.7	1.7 1.7 1.4 1.4 1.4 1.4 1.4	3.18 4.76 3.18 4.76 3.18 4.78 3.18	15° 15° 20° 20° 20° 20° 11°		刀柄: (Toolholder) D116-D117	● ● ●

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	精度 Precision	钝化 Deactivation	库存 Stock ZK50	涂层材质 Coating material ZP15	ZP152	ZP153	ZP163	尺寸（mm） Measurement A	B	T	rε	铣刀 Hobbing
高进给铣削加工 High feed milling			LMMU110708PNER-MJ	M	有	●	●	●	●	●	11.7	10.5	71	0.8	EPM11 TPM11
			LMMU110716PNER-MJ	M	有	●	●	●	●	●	11.5	10.5	71	1.6	
			LMMU110724PNER-MJ	M	有	●	●	●	●	●	11.3	10.5	71	2.4	
			LMMU110732PNER-MJ	M	有	●	●	●	●	●	11.1	10.5	71	3.2	
			LMMU160908PNER-MJ	M	有	●	●	●	●	●	17.3	16.0	9.5	0.8	TPM16
			LMMU160916PNER-MJ	M	有	●	●	●	●	●	17.1	16.0	9.5	1.6	
			LMMU160924PNER-MJ	M	有	●	●	●	●	●	16.9	16.0	9.5	2.4	
			LMMU160932PNER-MJ	M	有	●	●	●	●	●	16.8	16.0	9.5	3.2	

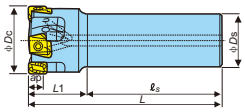
LN11,16 准重切削加工

Quasi heavy cutting machining

图A



LN11R

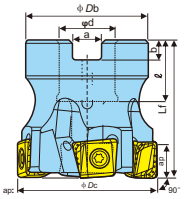


图A:带柄式



LN11R

图B



图B:刀盘式

型号 Specification	刀齿数 Number of cutter teeth	尺寸 Dimensions (mm) ØDc	ØDs	ℓs	L1	L	重量 Weight (kg)	冷却孔 Cooling hole	刀片 Insert	编码 Encoded	价格 Price
LN11RC32-32-3T	3	32	32	80	35	115	0.6	有	LMMU1107**		
LN11RC32-40-4T	4	40	32	80	35	115	0.7	有			
LN11RC32-50-4T	4	50	32	80	40	120	0.9	有			
LN11RC32-63-6T	6	63	32	80	40	120	1.2	有			
LN11RC32-80-7T	7	80	32	80	40	120	1.6	有			

规格	型号 Specification	刀齿数 Number of cutter teeth	尺寸 Dimensions (mm) ØDc	ØDb	Ød	ℓ	Lf	b	a	重量 Weight (kg)	冷却孔 Cooling hole	铣刀固定螺钉 Milling cutter fixing screw	刀片 Insert	库存 Stock	编码 Encoded	价格 Price
标准刀齿数	LN11R-50-22-5T	5	50	41	22	20	40	6	10	0.3	有	Fm10×30		●		
	LN11R-63-22-6T	6	63	41	22	20	40	6	10	0.5	有	FM10×30		●		
	LN11R-80-25.4-7T	7	80	46	25.4	26	50	6	9.5	0.9	有	FM12×30	LMMU1107**	●		
	LN11R-100-31.75-8T	8	100	60	31.75	32	50	8	12.7	1.4	有	FM16H		●		
	LN16R-80-25.4-5T	5	80	45	25.4	26	50	6	9.5	1.0	有	FM12×30		●		
	LN16R-100-31.75-6T	6	100	60	31.75	32	50	8	12.7	1.6	有	FM16H	LMMU1609**	●		
	LN16R-125-38.1-7T	7	125	80	38.1	38	60	10	15.9	3.0	有	FM20H		●		
密齿	LN11R-80-25.4-9T	9	80	46	25.4	26	50	6	9.5	1.0	有	FM12×30	LMMU1107**	●		
	LN11R-100-31.75-9T	11	100	60	31.75	32	50	8	12.7	1.5	有	FM16H		●		

■ 刀盘零件 Cutterhead Type Parts



零件名称 Part Name	零件型号 Part model	
适用铣刀 Suitable milling cutter	LN11R...	LN16R...
紧固螺钉 Fastening screw	M3.5x10	M5.0x15
扳手 Spanner TORX刀头 TORX cutter head	T15	T20
扳手 Spanner 握把 Grip	H-TB	H-TB
整体式替代扳手 Integral replacement wrench	T15	T20

■ 带柄式零件 Handle type parts

零件名称 Part Name	零件型号 Part model
紧固螺钉 Fastening screw	M3.5x10
整体式替代扳手 Integral replacement wrench	T15

■ 标准切削条件 Standard cutting conditions

被加工材料 Processed material	布氏硬度 Brinell hardness HB	选择标准 Selection criteria		推荐材质 Recommended materials	切削设定 Cutting settings Vc(m/min)	每齿进给量 Feed per tooth fz(mm/t)
低碳钢(S45C,SS400等) Mild steel (S45C, SS400, etc.)	~200	第一选择	First choice	ZP15	100-180-250	0.12-0.2-0.3
		重视抗崩刃性	Attach importance to the ability to resist chipping	ZP152	80-130-180	
		重视耐磨损性	Emphasize wear resistance	ZP153	120-200-250	
高碳钢(S45C,S55C等) High carbon steel (S45C, S55C, etc.)	200~300	第一选择	First choice	ZP152	100-150-230	0.12-0.17-0.25
		重视抗崩刃性	Attach importance to the ability to resist chipping	ZP153	80-130-180	
		重视耐磨损性	Emphasize wear resistance	ZP163	120-180-250	
合金钢(SCM440,SCr415等) Alloy steel (SCM440, SCr415, etc.)	150~300	第一选择	First choice	ZP152	100-150-230	0.12-0.17-0.25
		重视抗崩刃性	Attach importance to the ability to resist chipping	ZP153	80-120-150	
		重视耐磨损性	Emphasize wear resistance	ZP163	120-180-250	
工具钢(SK,SKH等) Tool steel (SK, SKH, etc.)	~300	第一选择	First choice	ZP152	100-120-180	0.12-0.17-0.25
		重视抗崩刃性	Attach importance to the ability to resist chipping	ZP153	80-100-120	
		重视耐磨损性	Emphasize wear resistance	ZP163	100-120-180	
不锈钢(SUS304,SUS316等) Stainless steel (SUS 304, SUS316, etc.)		第一选择	First choice	ZP152	90-150-180	0.12-0.2-0.3
普通铸铁(FC250,300等) Ordinary cast iron (FC 250300, etc.)	150~250	重视抗崩刃性	Attach importance to the ability to resist chipping	ZK50	140-180-250	0.12-0.2-0.3
球墨铸铁(FCD400等) Ductile iron (FCD400, etc.)		重视耐磨损性	Emphasize wear resistance	ZK50		
耐热合金(Ti-6AL-4V等, 镍基合金 718等) Heat resistant alloys (Ti-6AL-4V, nickel based alloy 718, etc.)		第一选择	First choice	ZP163	20-35-50	0.1-0.15-0.2

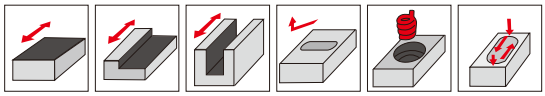
・在进行切槽或凹模铣削等容易产生切屑停留的加工时为了防止咬屑，请使用鼓风装置清除切屑。
・在铸件表面等切深有变动时及间断部分多的工件加工时，请将进给量fz设定为下限。

•During machining that is prone to chip retention, in order to prevent chip bites, use an air blower to remove the chips.
•When machining aluminum alloy and other cutting edges that are prone to severe deposition, please use water solubleNatural cutting fluid.

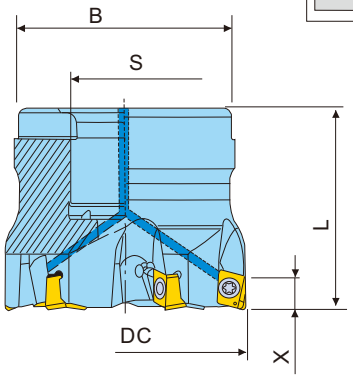
・刀具悬伸量长请设置在必要的最小限度。悬伸量长时悬伸量长时容易发生振动，故要降低进给量fz。
・加工条件受到车床、被加工材料的刚性和主轴输出的限制。切深、切削宽度大时Vc，fz取下限，并观察机床的动力、振动等情况。

·When there is a change in the cutting depth such as the surface of the casting, or when processing workpieces with many discontinuous parts, please adjust the feed ratefz is set to the lower limit.
·Processing conditions are limited by the rigidity of the machine tool, the material being processed, and the spindle output. Cutting depthWhen the cutting width is large, take the lower limit of Vc and fz, and observe the dynamic vibration of the machine tool.

4NKT 面铣刀盘
Face milling cutter head







90°

配件 accessory

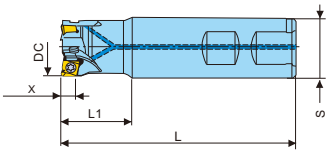
规格型号 Specification	螺钉 Screws	扳手 Wrench
4NKT0603	M3.0x8	T10

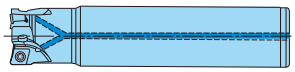
规格型号 Specification		尺寸 Dimensions (mm) DC	S	B	L	X	刀柄类型 Type of handle	Kg	安装螺栓 Insert	刀片 Insert	内冷 Internal Cold	编码 Code	Price (RMB)
4NKT0603R 32-16-4T	4	32	16	30	32	6.0	A	0.1	FM8X25	4NK(H)T 0603..	●		
32-16-5T	5	32	16	30	32	6.0	A	0.1	FM8X25		●		
40-16-5T	5	40	16	38	40	6.0	A	0.3	FM8X25		●		
40-16-6T	6	40	16	38	40	6.0	A	0.3	FM8X25		●		
50-22-6T	6	50	22	45	40	6.0	A	0.4	FM10X30		●		
50-22-7T	7	50	22	47	40	6.0	A	0.4	FM10X30		●		
63-22-7T	7	63	22	47	40	6.0	A	0.6	FM10X30		●		
63-22-7T	8	63	22	47	40	6.0	A	0.6	FM10X30		●		

带冷却孔的安装螺栓可根据要求提供（订货示例：SH M10x1.5x30-C）

4NKT 立铣刀
End Mill



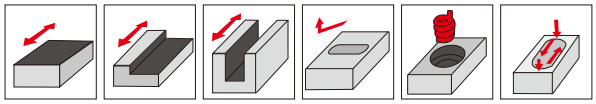




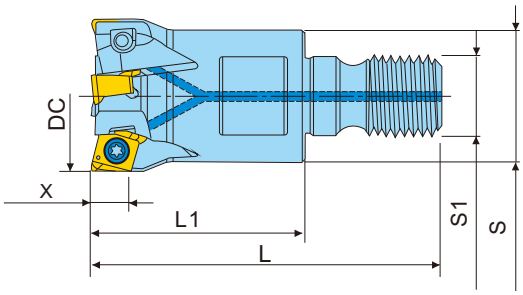
90°

规格型号 Specification		尺寸 Dimensions (mm) DC	S	L	L1	X	图示 Illustration	刀片 Insert	内冷 Internal Cold	编码 Code	Price (RMB)
4NKT0603R C15-16-150-2T	2	16	15	150	25	6.0	2	4 NK(H)T 0603...	●		
C16-16-90-2T	2	16	16	90	25	6.0	1		●		
C16-16-100-2T	2	16	16	100	25	6.0	2		●		
C16-16-150-2T	2	16	16	150	25	6.0	2		●		
C16-17-90-2T	2	17	16	90	25	6.0	2		●		
C16-17-200-2T	2	17	16	200	25	6.0	2		●		
C16-18-90-2T	2	18	16	90	25	6.0	1		●		
C16-18-150-2T	2	18	16	150	25	6.0	2		●		
C19-20-160-2T	2	20	19	160	25	6.0	2		●		
C20-20-90-2T	2	20	20	90	25	6.0	1		●		
C20-20-110-2T	2	20	20	110	25	6.0	2		●		
C20-20-160-2T	2	20	20	160	25	6.0	2		●		
C20-20-90-3T	3	20	20	90	25	6.0	1		●		
C20-20-110-3T	3	20	20	110	25	6.0	2		●		
C20-21-200-2T	2	21	20	200	25	6.0	2		●		
C25-25-100-3T	3	25	25	100	30	6.0	1		●		
C25-25-150-3T	3	25	25	150	30	6.0	2		●		
C25-25-200-3T	3	25	25	200	30	6.0	2		●		
C25-26-200-3T	3	26	25	200	30	6.0	2		●		
C25-25-100-4T	4	25	25	100	30	6.0	1		●		
C25-25-120-4T	4	25	25	120	30	6.0	2		●		
C32-32-110-4T	4	32	32	110	35	6.0	1		●		
C32-32-150-4T	4	32	32	150	35	6.0	2		●		
C32-32-200-4T	4	32	32	200	35	6.0	2		●		
C32-32-250-4T	4	33	32	250	35	6.0	2		●		
C32-32-110-5T	5	32	32	110	35	6.0	1		●		
C32-32-150-5T	5	32	32	150	35	6.0	2		●		
C32-40-110-5T	5	40	32	110	40	6.0	1		●		
C32-40-150-5T	5	40	32	150	40	6.0	2		●		
C32-40-250-5T	5	40	32	250	50	6.0	2		●		
C32-40-110-6T	6	40	32	110	35	6.0	1		●		
C32-40-150-6T	6	40	32	150	35	6.0	2		●		

4NKT 模块式刀头
Modular Cutter head

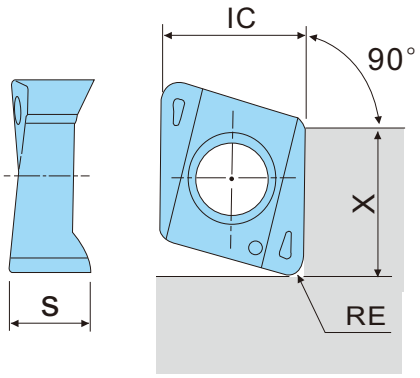






规格型号 Specification		尺寸 Dimensions (mm) DC	S	L1	L	S1	X	螺钉 Screws	扳手 Wrench	刀片 Insert	内冷 Internal Cold	编码 Code	Price (RMB)
4NKT0603R 16-2T-M08	2	16	13	23	40.5	M08	6.0				●		
17-2T-M08	2	17	13	23	40.5	M08	6.0				●		
20-2T-M10	2	20	18	36	55	M10	6.0				●		
20-3T-M10	3	20	18	36	55	M10	6.0				●		
21-3T-M10	3	21	18	36	55	M10	6.0				●		
25-3T-M12	3	25	21	36	57	M12	6.0	M3.0x8	T10	4 NK(H)T 0603...	●		
25-4T-M12	4	25	21	36	57	M12	6.0				●		
26-4T-M12	4	26	21	36	57	M12	6.0				●		
32-4T-M16	4	32	29	43	68	M16	6.0				●		
32-5T-M16	5	32	29	43	68	M16	6.0				●		
33-5T-M16	5	33	29	43	68	M16	6.0				●		
35-5T-M16	5	35	29	43	68	M16	6.0				●		
40-5T-M16	5	40	29	43	68	M16	6.0				●		
40-6T-M16	6	40	29	43	68	M16	6.0				●		

4NK(H)T 刀片 Inserts

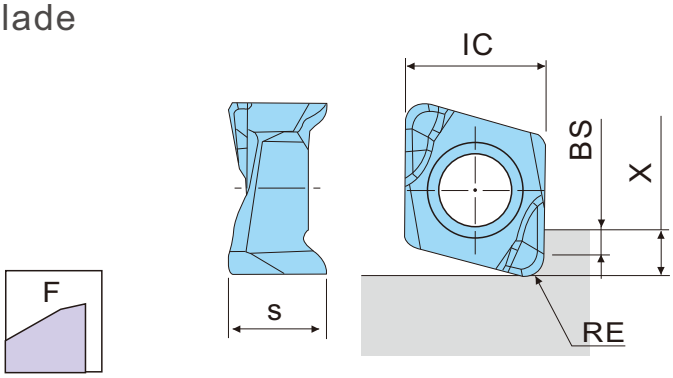


切削刃长 Long cutting edge	尺寸 Dimensions (mm) IC	S	X	BS	RE
04	4.0	3.1	3.5		0.2-0.8
06	6.6	4.2-5.0	5.8-6.2	0.6-1.0	0.4-2.0
09	8.6	5.7-6.3	8.0	0.8-1.2	0.4-1.6
11	10.7	8.1	10.5	1.0	0.8
14	14.0	9.2-9.4	13.5-13.8	1.25	0.8

刀片 Blade	规格型号 Specification	推荐加工条件 Recommended processing conditions 切深 (mm)	进给 (mm/齿)	涂层 Coating ZP20A	ZP20M	ZP15A	ZP135	ZP151	ZP152	ZP153	ZP163	无涂层 Coating ZK01
	4NKT 040202R-M	0.5-3.0	0. 08-0. 04									
	040204R-M	1.0-3.0	0. 12-0. 06	●	●	●	●	●	●	●	●	
	040208R-M	1.0-3.0	0. 12-0. 06									
	060304R-M	0.5-5.0	0. 15-0. 07									
	060308R-M	1.0-5.0	0.15-0.07	●	●	●	●	●	●	●	●	
	060312R-M	1.0-5.0	0.15-0.07									
	060316R-M	2.0-4.5	0.15-0.07									
	060320R-M	20.-4.5	0.15-0.07									
	090408R-M	2.5-7.0	0.15-0.07									
	090416R-M	2.5-7.0	0.15-0.07									
	110608R-M	3.5-10.0	0.18-0.09									
	140708R-M	4.0-12.0	0.18-0.09									

4NHT06-F 刀片

Blade



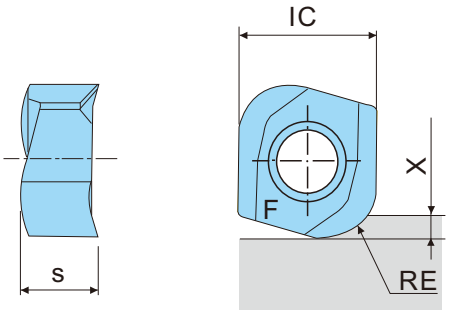
切削刃长 Long cutting edge	尺寸 Dimensions (mm)					
	IC	S	X	BS	RE	
05R	6.6	4.9	2.3	1.8	0.5	
10R	6.6	4.7	2.1	1.1	1.0	
15R	6.6	4.5	3.3	1.8	1.5	
20R	6.6	4.3	3.0	1.1	2.0	

刀片 Blade	规格型号 Specification		推荐加工条件 Recommended processing conditions		涂层 Coating	无涂层 Coating
			切深（mm） Cutting depth (mm)	进给（mm/齿） Feed (mm/ tooth)		
	4N HT	060305R-F	0.2-2.0	1 15-0.07		
		060310R-F	0.2-1.8	1 15-0.07		
		060315R-F	0.2-3.0	1 15-0.07		
		060320R-F	0.2-2.7	1 15-0.07		

● 标准品 ● Standard goods

4NKT-HF 高进给刀片

High feed blade



切削刃长 Long cutting edge	尺寸 Dimensions (mm)					
	IC	S	X	RE		
04-HF	4.0	2.65	0.5	1.2		
06-HF	6.6	3.85	1.0	2.0		
09-HF	8.6	4.76	1.5	3.2		
11-HF	10.7	6.56	2.0	4.0		
14-HF	14.0	7.34	3.0	5.0		

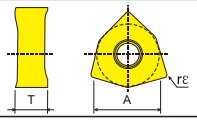
刀片 Blade	规格型号 Specification		推荐加工条件 Recommended processing conditions		涂层 Coating	无涂层 Coating
			切深（mm） Cutting depth (mm)	进给（mm/齿） Feed (mm/ tooth)		
	4N HT	040212R-F	0.2-0.4	0.60-0.10		
		060320R-F	0.2-0.6	0.80-0.20		
		090432R-F	0.3-0.8	1.00-0.20		
		110640R-F	0.3-1.2	1.20-0.30		
		140750R-F	0.3-1.5	1.50-0.30		

● 标准品 ● Standard goods

WNMU 平面高进给 双面有孔 铣削刀片

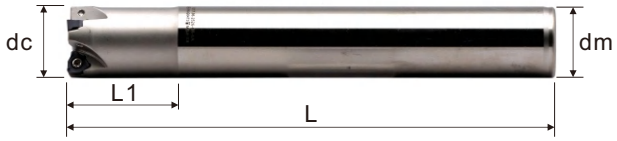
刀片(Insert):
WNMU0806 ZP153
Ap:0.6-8.0 (mm)
Fz:0.08-0.60 (mm/rev)
Vc:100-260 (m/min)

		切削形态: Cutting Environment	● 稳定切削 Stable Cutting	● 一般切削 General Cutting	✖ 不稳定切削 Unstable Cutting
P	钢	Steel			
M	不锈钢	Stainless Steel			
K	铸铁	Iron			
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood			
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy			
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber			

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZC01	ZC23S	ZP251	ZP150	ZP152	ZP153	ZP183
高进给铣削加工 High feed milling			WNMU 0404	0.8	6.35	-	4.76	刀柄: (Toolholder) D07							●	●	●	●	●

R217.96 机夹式快进给立铣刀-双面六角刀片

Clip-Type Fast Feed End Milling Cutter-Double-Sided Hexagonal Insert





● 特点：高进给，高效率
★ Characteristic: High Feed, High Efficiency

刀片(Insert):
WNMU0404 ZP153
Ap:0.6-3.0 (mm)
Fz:0.08-0.60 (mm/rev)
Vc:100-260 (m/min)

切削参数 (Cutting Parameters): R15-R18
零配件 (Spare Parts): P01-P04

订购编码 Order Number	规格型号 Specification	尺寸 Dimensions dc	dm	L1	L	刃数 Edge
337200	R217.96-2020-04-3A	20	20	30	150	3
337202	R217.96-2021-04-3A	21	20	30	150	3
337204	R217.96-2525-04-4A	25	25	60	170	4
337206	R217.96-2526-04-4A	26	25	35	170	4
337208	R217.96-3230-04-5A	30	32	70	200	5
337210	R217.96-3232-04-5A	32	32	70	200	5
337212	R217.96-3235-04-5A	35	32	35	200	5

R217.96 机夹式快进给立铣刀刀盘-双面六角刀片

Clip-Type Fast Feed End Milling Cutter Head-Double-Sided Hexagonal Insert





● 特点：高进给，高效率
★ Characteristic: High Feed, High Efficiency

刀片(Insert):
WNMU0404 ZP153
Ap:0.6-3.0 (mm)
Fz:0.08-0.60 (mm/rev)
Vc:100-260 (m/min)

切削参数 (Cutting Parameters): R15-R18
零配件 (Spare Parts): P01-P04

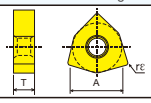
订购编码 Order Number	规格型号 Specification	尺寸 Dimensions D	d	H		刃数 Edge
337220	R217.96-0040-04-6A	40	16	40		6
337222	R217.96-0050-04-6A	50	22	45		6
337226	R217.96-0063-04-8A	63	22	45		8

WNMU 平面高进给 双面有孔 铣削刀片

刀片(Insert):
WNMU0806 ZP153
Ap:0.6-8.0 (mm)
Fz:0.08-0.60 (mm/rev)
Vc:100-260 (m/min)

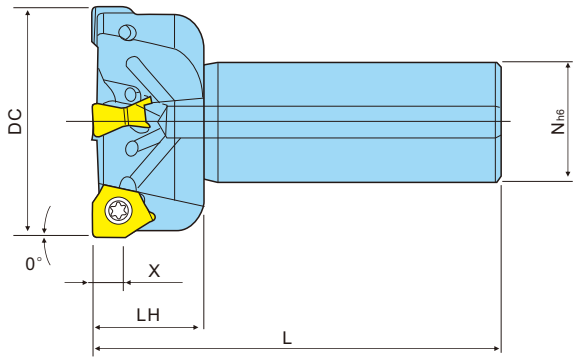
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

			PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
P	钢	Steel		●	●		◕	✕	✕	✕	✕	●	●
M	不锈钢	Stainless Steel			◕		◕	✕	✕	✕	✕	◕	○
K	铸铁	Iron		●		◕	◕	✕	✕	✕	✕		
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●			◕							
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●							✕	✕	◕	●
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●							✕	✕	◕	●

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder
高进给铣削加工 High feed milling			WNMU 080604EN-GM	0.4	14.02	-	6.65	刀柄 : (Toolholder) D08-D10
			080608EN-GM	0.8	14.02	-	6.65	
			低阻力 080608EN-SM	0.8	14.02	-	6.65	
			重切削用 080608EN-GH	0.8	14.02	-	6.65	

■ MFWN 立铣刀(带冷却孔)

MFWN end milling cutter (with cooling holes)



型号 Model	刃数 Blade count	尺寸(mm) Measurement DC	N	L	LH	X	前角 Anterior angle A.R (MAX.)	R.R	最高转速 (min-1) Maximum speed	冷却孔 Cooling hole	零件 Part 紧固螺钉 Tightening screws	扳手 Spanner	防止高温烧结剂 Preventing high-temperature sintering agents	库存 Stock	编码 Encoded	价格 Price
MFWN 90050R-S32-3T	3	50	32	110	30	8	+13°	-12°	18500	有	M5.0x14	T15	P-37	●		
90063R-S32-4T	4	63						-10°	16000		紧固扭矩4. 2N m Tightening torque 4.2N m			●		
90080R-S32-5T	5	80						-9°	13500					●		

MFWN 机夹式快进给立铣刀-双面六角刀片

Clip-Type Fast Feed End Milling Cutter-Double-Sided Hexagonal Insert



前角 Anterior angle	A.R	R.R	
	(MAX.) +13°	DC=63 10° DC=80 -9° DC=100 -8°	DC=125 -7.5° DC=160-250 -7°

紧固螺钉 Tightening screws	扳手 Spanner
M5.0x14	T15

刀片(Insert):
WNMU0806 ZP153
Ap:0.6-8.0 (mm)
Fz:0.08-0.60 (mm/rev)
Vc:100-260 (m/min)

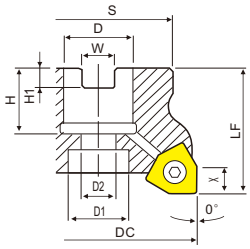


Fig.1

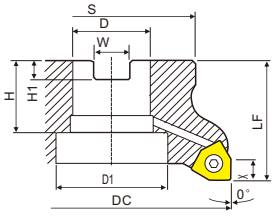


Fig.2

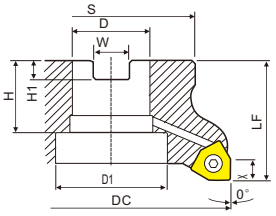


Fig.3

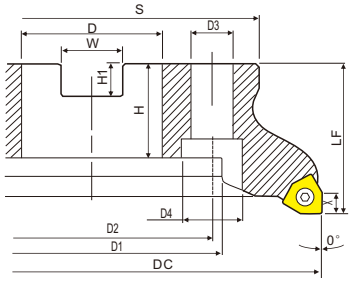


Fig.4

		型号 Model	刃数 Blade count	尺寸(mm) Measurement DC	S	D	D_1	D_2	LF	H	H_1	W	D_3	D_4	形状 Form	重量 (kg) Weight	垫片 Pad	最高转速 (min-1) Maximum speed	冷却孔 Cooling hole	库存 Stock	编码 Encoded
接口部英制规格 Interface Department English Specification	标准 standard	MFWN 90080R-4T	4	80	60	25.4	20	13	50	27	6	9.5			Fig.1	1.0	有 Yes	12000	有 Yes	●	
		90100R-5T	5	100	70	31.75	46			34	8	12.7			Fig.2	1.3		10500		●	
		90125R-6T	6	125	87	38.1	55		63	38	10	15.9				2.6		9500		●	
		90160R-8T	8	160	102	50.8	72				11	19.1			Fig.3	3.9		8000	无 No	●	
		90200R-10T	10	200	142	47.625	110	101.6		40	14	25.4	18	26	Fig.4	6.3		7500		●	
		90250R-12T	12	250												8.7		6500		●	
	密齿 Dense tooth	MFWN 90080R-5T	5	80	60	25.4	20	13	50	27	6	9.5			Fig.1	1.0	无 No	13500	有 Yes	●	
		90100R-7T	7	100	70	31.75	46			34	8	12.7			Fig.2	1.4		12000		●	
		90125R-8T	8	125	87	38.1	55		63	38	10	15.9				2.7		10500		●	
		90160R-10T	10	160	102	50.8	72				11	19.1			Fig.3	4.0		9000	无 No	●	
		90200R-12T	12	200	142	47.625	110	101.6		40	14	25.4	18	26	Fig.4	6.6		8000		●	
		90250R-14T	14	250												8.9		7000		●	
	加密齿 Densified teeth	MFWN 90080R-7T	7	80	60	25.4	20	13	50	27	6	9.5			Fig.1	1.1	无 No	10500	有 Yes	●	
		90100R-9T	9	100	70	31.75	46			34	8	12.7			Fig.2	1.3		9500		●	
		90125R-12T	12	125	87	38.1	55		63	38	10	15.9				2.7		8000		●	
		90160R-14T	14	160	102	50.8	72				11	19.1			Fig.3	4.1		7000	无 No	●	
		90200R-16T	16	200	142	47.625	110	101.6		40	14	25.4	18	26	Fig.4	6.7		6500		●	
		90250R-18T	18	250												9.1		5500		●	
公制规格 Metric specifications	标准 standard	MFWN 90050R-3T-M	3	50	47	22	19	11	40	21	6.3	10.4			Fig.1	0.4	有 Yes	15000	有 Yes	●	
		90063R-3T-M	3	63	47	22	19	11		21	6.3	10.4				0.5		14000		●	
		90080R-4T-M	4	80	60	27	20	13	50	24	7	12.4				1.0		12000		●	
		90100R-5T-M	5	100	70	32	46			30	8	14.4			Fig.2	1.3		10500		●	
		90125R-6T-M	6	125	87	40	55		63	33	9	16.4				2.5		9500		●	
		90160R-8T-M	8	160	102		68	66.7		32			14	20	Fig.4	3.8		8000	无 No	●	
		90200R-10T-M	10	200	142	60	101.6	101.6		40	14	25.7	18	26		6.0		7500		●	
		90250R-12T-M	12	250												8.4		6500		●	
	密齿 Dense tooth	MFWN 90063R-4T-M	4	63	47	22	19	11	40	21	6.3	10.4			Fig.1	0.5	无 No	16000	有 Yes	●	
		90080R-5T-M	5	80	60	27	20	13	50	24	7	12.4			Fig.2	1.0		13500		●	
		90100R-7T-M	7	100	70	32	46			30	8	14.4				1.3		12000		●	
		90125R-8T-M	8	125	87	40	55		63	33	9	16.4				2.6		10500		●	
		90160R-10T-M	10	160	102		68	66.7		32			14	20	Fig.4	3.9		9000	无 No	●	
		90200R-12T-M	12	200	142	60	110	101.6		40	14	25.7	18	26		6.3		8000		●	
		90250R-14T-M	14	250												8.7		7000		●	
	加密齿 Densified teeth	MFWN 90063R-5T-M	5	63	47	22	19	11	40	21	6.3	10.4			Fig.1	0.5	无 No	16000	有 Yes	●	
		90080R-7T-M	7	80	60	27	20	13	50	24	7	12.4			Fig.2	1.1		10500		●	
		90100R-9T-M	9	100	70	32	46			30	8	14.4				1.3		9500		●	
		90125R-12T-M	12	125	87	40	55		63	33	9	16.4				2.6		8000		●	
		90160R-14T-M	14	160	102		68	66.7		32			14	20	Fig.4	3.9		7000	无 No	●	

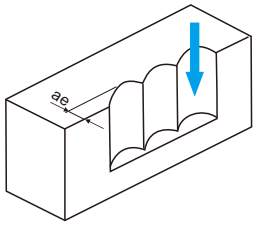
■ 推荐切削参数 Recommended cutting parameters

★第1推荐 ☆第2推荐 ★ 1st Recommendation ☆ 2nd Recommendation

断屑槽	加工材料 Processing materials	进给 (fz mm/t) Feed	推荐刀片材质(切削速度Vc m/min) Recommended blade material (cutting speed Vc m/min)							
			金属陶瓷 cermet	MEGACOAT(PVD涂层硬质合金) (PVD coated hard alloy)				CVD涂层硬质合金 CVD coated hard alloy	DLC涂层硬质合金 DLC coated hard alloy	硬质合金 Hard metal
			ZN60	ZP163	ZP150	ZP152	ZP153	ZC32S		ZK01
GM	碳钢 Carbon steel	0.1~0.2~0.3 (0.06~0.10~0.15)	★200~250~300	☆120~180~250	★120~180~250					
	合金钢 Alloy steel	0.1~0.2~0.3 (0.06~0.10~0.15)	★180~220~250	☆100~160~220	★100~160~220					
	模具钢 Die steel	0.1~0.15~0.25 (0.06~0.10~0.13)	★150~180~220	☆80~140~180	★80~140~180					
	奥氏体系不锈钢 Austenitic stainless steel	0.1~0.15~0.25		☆100~160~200	☆100~160~200					
	马氏体系不锈钢 Martensitic stainless steel	0.1~0.15~0.25		☆150~200~250						
	沉淀硬化系不锈钢 Precipitation Hardening Stainless Steel	0.1~0.15~0.25		☆90~120~150				☆180~240~300		
	灰口铸铁 Gray iron	0.1~0.2~0.3								
	球墨铸铁 Ductile iron	0.1~0.15~0.25								
	镍基耐热合金 Nickel based heat-resistant alloy	0.1~0.12~0.2		☆20~30~50				☆20~30~50		
GL	碳钢 Carbon steel	0.06~0.12~0.2 (0.06~0.08~0.12)	★200~250~300	☆120~180~250	☆120~180~250					
	合金钢 Alloy steel	0.06~0.12~0.2 (0.06~0.08~0.12)	★180~220~250	☆100~160~220	☆100~160~220			-		
	模具钢 Die steel	0.06~0.08~0.15 (0.06~0.08~0.10)	★150~180~220	☆80~140~180	☆80~140~180					
	奥氏体系不锈钢 Austenitic stainless steel	0.06~0.12~0.2		☆100~160~200	☆100~160~200					
	马氏体系不锈钢 Martensitic stainless steel	0.06~0.12~0.2		☆150~200~250				☆180~240~300		
	沉淀硬化系不锈钢 Precipitation Hardening Stainless Steel	0.06~0.12~0.2		☆90~120~150						
	灰口铸铁 Gray iron	0.06~0.12~0.2		-				-		
	球墨铸铁 Ductile iron	0.06~0.08~0.15								
	镍基耐热合金 Nickel based heat-resistant alloy	0.06~0.1~0.15						☆20~30~50		
	钛合金 Titanium alloy	0.06~0.08~0.15		☆20~30~50						
GH	碳钢 Carbon steel	0.2~0.3~0.4		☆40~60~80	☆120~180~250					
	合金钢 Alloy steel	0.2~0.3~0.4		☆120~180~250	☆100~160~220					
	模具钢 Die steel	0.15~0.2~0.3		☆100~160~220	☆80~140~180					
	奥氏体系不锈钢 Austenitic stainless steel	0.2~0.25~0.3		☆80~140~180	☆100~160~200					
	马氏体系不锈钢 Martensitic stainless steel	0.2~0.25~0.3		☆100~160~200				☆180~240~300		
	沉淀硬化系不锈钢 Precipitation Hardening Stainless Steel	0.2~0.25~0.3		☆150~200~250						
	灰口铸铁 Gray iron	0.2~0.3~0.4		90~120~150						
	球墨铸铁 Ductile iron	0.15~0.2~0.3								
	镍基耐热合金 Nickel based heat-resistant alloy	0.15~0.2~0.25		☆20~30~50				☆20~30~50		
	高硬度材(60HRC以下) High hardness material	0.05~0.1~0.2								
AM	钛合金 Titanium alloy	0.1~0.2~0.3							★200~600~900	☆200~500~800

■ 关于垂直加工(插铣) About Vertical Machining (Insert Milling)

垂直(插铣)加工 Vertical (milling) machining

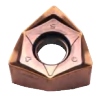
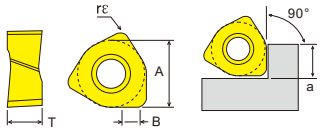
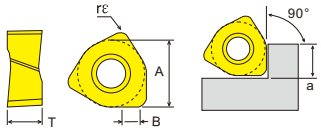


加工径 Blade model	最大横切深(ae) Maximum cross-sectional depth (ae)
所有型号 All models	8mm

M6NGU 直角台肩 双面有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✱ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	CNK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			M6NGU 060404R-M	0.4	9.26	2.36	4.76	-	6.2	刀柄: (Toolholder) D11-D12							●	●	●	
			060405R-M	0.5	9.26	2.36	4.76	-	6.2								●	●	●	
			060408R-M	0.8	9.26	1.96	4.76	-	6.2								●	●	●	
			060410R-M	1.0	9.26	1.76	4.76	-	6.2								●	●	●	
			060416R-M	1.6	9.26	1.16	4.76	-	6.2								●	●	●	
直角台肩铣削 Right Angle Milling			M6NGU 090504R-M	0.4	13.05	2.2	6.74	-	9.2	刀柄: (Toolholder) D11-D12								●	●	
			090508R-M	0.8	13.05	2.0	6.74	-	9.2									●	●	
			090516R-M	1.6	13.05	1.2	6.74	-	9.2									●	●	

■ M6NTE90 直角台肩铣刀

Right Angle Shoulder Milling Cutter





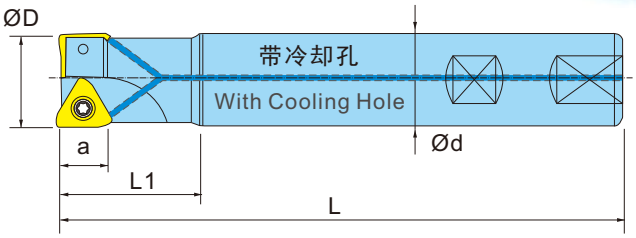


Fig.1

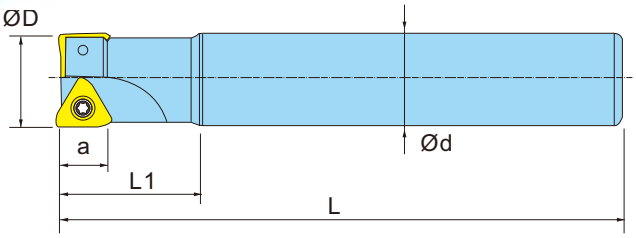


Fig.2

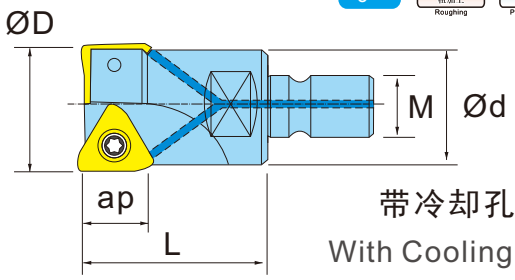
☞ 切削参数 (Cutting Parameters): D10
零配件 (Spare Parts): P03-P05

规格型号 Specification	尺寸 Dimensions (mm) D	d	L	L1	ap	刃数 Edges	图示 Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	库存 Stock	编码 Code	Price (RMB)
M6NTE90-225-W25-06	25	25	100	30	6.2	2	1	M6NGU0604..	M3.0×8 M4.0×10	T10 T15	○	337300	1000
M6NTE90-225-25-06-L150	25	25	150	30	6.2	2	2				○	337301	800
M6NTE90-232-W32-06	32	32	110	40	6.2	2	1				○	337302	1000
M6NTE90-232-32-06-L160	32	32	160	40	6.2	2	2				○	337303	800
M6NTE90-332-W32-06	32	32	110	40	6.2	3	1				○	337304	1000
M6NTE90-332-32-06-L160	32	32	160	40	6.2	3	2				○	337305	800
M6NTE90-340-W32-06	40	32	115	40	6.2	3	1				○	337306	1200
M6NTE90-340-32-06-L200	40	32	200	40	6.2	3	2				○	337307	1000
M6NTE90-440-W32-06	40	32	115	40	6.2	4	1				○	337308	1500
M6NTE90-232-W32-09	32	32	110	40	9.2	2	1	M6NGU0905..	M3.0×8 M4.0×10	T10 T15	○	337309	1000
M6NTE90-232-32-09-L160	32	32	160	40	9.2	2	2				○	337310	900
M6NTE90-340-W32-09	40	32	120	40	9.2	3	1				○	337311	1200
M6NTE90-340-32-09-L200	40	32	200	40	9.2	3	2				○	337312	1000
M6NTE90-440-W32-09	40	32	120	40	9.2	4	1				○	337313	1500

■ M6NTE90 直角锁牙式刀头

Right angle locking toolholder





带冷却孔
With Cooling Hole

切削参数 (Cutting Parameters): D10
零配件 (Spare Parts): P03-P05

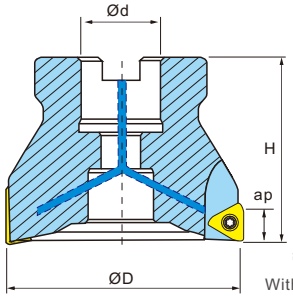
规格型号 Specification	尺寸 Dimensions (mm) D	d	L	M	ap	刃数 Edges		刀片 Insert	螺钉 Screw	扳手 Wrench	库存 Stock	编码 Code	Price (RMB)
M6NTE90-225-M12-06	25	21	35	M12	6.2	2		M6NGU0604..	M3.0×8 M4.0×10	T10 T15	○	337320	700
M6NTE90-332-M16-06	32	29	43	M16	6.2	3					○	337321	800
M6NTE90-440-M16-06	40	29	43	M16	6.2	4					○	337322	900
M6NTE90-232-M16-09	32	29	43	M16	9.2	2		M6NGU0905..	M3.0×8 M4.0×10	T10 T15	○	337323	800
M6NTE90-340-M16-09	40	29	43	M16	9.2	3					○	337324	900
M6NTE90-440-M16-09	40	29	43	M16	9.2	4					○	337325	1000

■ M6NTF90 直角台肩铣刀刀盘

Right Angle Shoulder Milling Cutter







带冷却孔
With Cooling Hole

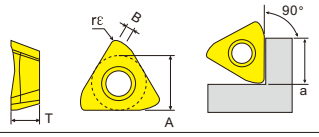
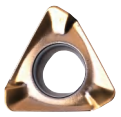
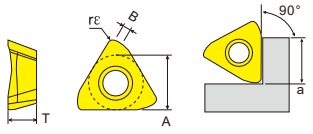
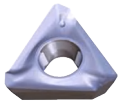
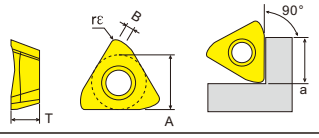
切削参数 (Cutting Parameters): D10
零配件 (Spare Parts): P03-P05

规格型号 Specification	尺寸 Dimensions (mm) D	d	H	ap	刃数 Edges	重量 (kg)	刀片 Insert	螺钉 Screw	扳手 Wrench	库存 Stock	编码 Code	Price (RMB)
M6NTF90-440-16R-06	40	16	40	6.2	4	0.3	M6NGU0604..	M3.0×8 M4.0×10	T10 T15	○	337326	1000
M6NTF90-450-22R-06	50	22	40	6.2	4	0.4				○	337327	1000
M6NTF90-650-22R-06	50	22	40	6.2	6	0.4				○	337328	1200
M6NTF90-463-22R-06	63	22	40	6.2	4	0.5				○	337329	1200
M6NTF90-663-22R-06	63	22	40	6.2	6	0.5				○	337330	1400
M6NTF90-763-22R-06	63	22	40	6.2	7	0.5				○	337331	1500
M6NTF90-580-27R-06	80	27	50	6.2	5	1.0				○	337332	1500
M6NTF90-780-27R-06	80	27	50	6.2	7	1.0				○	337333	1600
M6NTF90-980-27R-06	80	27	50	6.2	9	1.0				○	337334	1700
M6NTF90-6100-32R-06	100	32	50	6.2	6	1.9				○	337335	2000
M6NTF90-8100-32R-06	100	32	50	6.2	8	1.9				○	337336	2200
M6NTF90-11100-32R-06	100	32	50	6.2	11	1.9				○	337337	2500
M6NTF90-7125-40R-06	125	40	63	6.2	7	3.2				○	337338	2200
M6NTF90-11125-40R-06	125	40	63	6.2	11	3.2				○	337339	2500
M6NTF90-14125-40R-06	125	40	63	6.2	14	3.2				○	337340	2800
M6NTF90-450-22R-09	50	22	40	9.2	4	0.34	M6NGU0905..	M3.0×8 M4.0×10	T10 T15	○	337341	1000
M6NTF90-550-22R-09	50	22	40	9.2	5	0.35				○	337342	1200
M6NTF90-463-22R-09	63	22	40	9.2	4	0.48				○	337343	1200
M6NTF90-663-22R-09	63	22	40	9.2	6	0.51				○	337344	1400
M6NTF90-763-22R-09	63	22	40	9.2	7	0.51				○	337345	1500
M6NTF90-580-27R-09	80	27	50	9.2	5	1.04				○	337346	1500
M6NTF90-780-27R-09	80	27	50	9.2	7	1.05				○	337347	1600
M6NTF90-980-27R-09	80	27	50	9.2	9	1.07				○	337348	1700
M6NTF90-6100-32R-09	100	32	50	9.2	6	1.85				○	337349	2000
M6NTF90-8100-32R-09	100	32	50	9.2	8	1.82				○	337350	2200
M6NTF90-11100-32R-09	100	32	50	9.2	11	1.9				○	337351	2500
M6NTF90-7125-40R-09	125	40	63	9.2	7	3.07				○	337352	2200
M6NTF90-11125-40R-09	125	40	63	9.2	11	3.09				○	337353	2500
M6NTF90-14125-40R-09	125	40	63	9.2	14	3.15				○	337354	2800
M6NTF90-12160-40R-09	160	40	63	9.2	12	4.27				○	337355	3000
M6NTF90-16160-40R-09	160	40	63	9.2	16	4.29				○	337356	3500

3PKT 直角台肩 有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			3PKT 100404R-M	0.4	6.9	1.3	4	-	7	刀柄: (Toolholder) D13-D14							●	●	●	●	●
			100408R-M	0.5	6.9	0.9	4	-	7								●	●	●	●	●
			150508R-M	0.8	10.7	1.6	5	-	11								●	●	●	●	●
			190608R-M	1.0	13.5	2.0	6	-	15								●	●	●	●	●
			190616R-M	1.6	13.5	1.2	6	-	15								●	●	●	●	●
直角台肩铣削 Right Angle Milling			3PKT 100404R-ML	6.9	6.9	0.9	4	-	7	刀柄: (Toolholder) D13-D14							●	●	●	●	●
			150508R-ML	10.7	10.7	1.6	5	-	11								●	●	●	●	●
			190608R-ML	13.5	13.5	2.0	6	-	15								●	●	●	●	●
直角台肩铣削 Right Angle Milling	 铝专用 Special for Aluminum		3PHT 100404R-AL	6.9	6.9	1.3	4	-	7	刀柄: (Toolholder) D13-D14			●	●							
			100408R-AL	6.9	6.9	0.9	4	-	7				●	●							
			150508R-AL	10.7	10.7	1.6	5	-	11				●	●							
			190608R-AL	13.5	13.5	2.0	6	-	15				●	●							

■ 3PTE90 直角台肩铣刀

Right Angle Shoulder Milling Cutter



☞ 切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

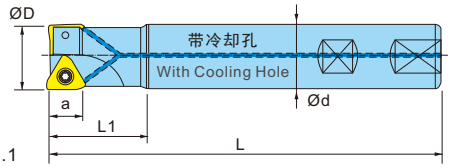


Fig.1

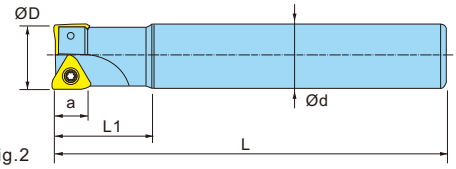


Fig.2

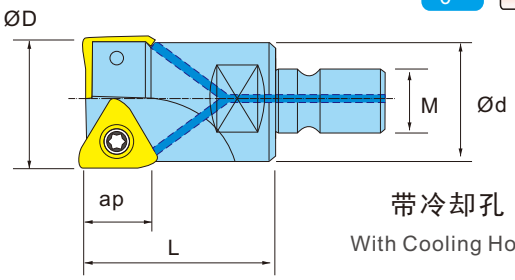


规格型号 Specification	尺寸 Dimensions (mm) D	d	L	L1	ap	刃数 Edges	图示 Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	库存 Stock	编码 Code	Price (RMB)
3PTE90-116-W16-10	16	16	90	20	7	1	1				○	337400	800
3PTE90-220-W20-10	20	20	90	25	7	2	1				○	337401	800
3PTE90-220-20-10-L170	20	20	170	40	7	2	2				○	337402	600
3PTE90-221-20-10-L200	21	20	200	30	7	2	2				○	337403	600
3PTE90-222-W20-10	22	20	100	25	7	2	1				○	337404	800
3PTE90-225-25-10-L210	25	25	210	40	7	2	2				○	337405	600
3PTE90-325-W25-10	25	25	100	30	7	3	1				○	337406	600
3PTE90-325-25-10-L210	25	25	210	40	7	3	2				○	337407	800
3PTE90-226-25-10-L250	26	25	250	30	7	2	2	3PKT1004..	M2.5×6	T8	○	337408	1000
3PTE90-330-W25-10	30	25	110	35	7	3	1				○	337409	1000
3PTE90-332-32-10-L250	32	32	250	60	7	3	2				○	337410	900
3PTE90-432-W32-10	32	32	110	40	7	4	1				○	337411	1000
3PTE90-532-W32-10	32	32	110	40	7	5	1				○	337412	1000
3PTE90-333-32-10-L250	33	32	250	35	7	3	2				○	337413	900
3PTE90-440-32-10-L200	40	32	200	40	7	4	2				○	337414	1200
3PTE90-540-W32-10	40	32	115	40	7	5	1				○	337415	1500
3PTE90-640-W32-10	40	32	115	40	7	6	1				○	337416	1600
3PTE90-232-W32-15	32	32	110	40	11	2	1				○	337417	900
3PTE90-232-32-15-L250	32	32	250	60	11	2	2				○	337418	1000
3PTE90-332-W32-15	32	32	110	40	11	3	1				○	337419	900
3PTE90-332-32-15-L250	32	32	250	60	11	3	2				○	337420	1200
3PTE90-233-32-15-L250	33	32	250	40	11	2	2	3PKT1505..	M4.0×10	T15	○	337421	1000
3PTE90-340-W32-15	40	32	110	40	11	3	1				○	337422	1000
3PTE90-340-32-15-L200	40	32	200	40	11	3	2				○	337423	1100
3PTE90-440-W32-15	40	32	110	40	11	4	1				○	337424	1200
3PTE90-240-32-19-L250	40	32	250	45	15	2	2				○	337425	1300
3PTE90-240-W32-19	40	32	115	45	15	2	1				○	337426	1500
3PTE90-340-32-19-L200	40	32	200	45	15	3	2	3PKT1906..	M4.5×12	T20	○	337427	1500
3PTE90-450-W32-19	50	32	115	45	15	4	1				○	337428	1600

■ 3PTE90 直角锁牙式刀头

Right angle locking toolholder





带冷却孔

With Cooling Hole

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

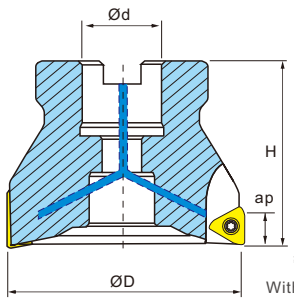
规格型号 Specification	尺寸 Dimensions (mm) D	d	L	M	ap	刃数 Edges		刀片 Insert	螺钉 Screw	扳手 Wrench	库存 Stock	编码 Code	Price (RMB)
3PTE90-220-M10-10	20	18	35	M10	7	2		3PKT1004..	M2.5×6	T8	○	337430	900
3PTE90-325-M12-10	25	21	35	M12	7	3					○	337431	900
3PTE90-432-M16-10	32	29	43	M16	7	4					○	337432	1000
3PTE90-532-M16-10	32	29	43	M16	7	5					○	337433	1200
3PTE90-540-M16-10	40	29	43	M16	7	5					○	337434	1200
3PTE90-640-M16-10	40	29	43	M16	7	6					○	337435	1500
3PTE90-232-M16-15	32	29	43	M16	11	2		3PKT1505..	M4.0×10	T15	○	337436	1000
3PTE90-332-M16-15	32	29	43	M16	11	3					○	337437	1200
3PTE90-340-M16-15	40	29	43	M16	11	3					○	337438	1200
3PTE90-440-M16-15	40	29	43	M16	11	4					○	337439	1500
3PTE90-340-M16-19	40	29	43	M16	15	3		3PKT1906..	M4.5×12	T20	○	337440	1500

■ 3PTF90 直角台肩铣刀

Right Angle Shoulder Milling Cutter







带冷却孔

With Cooling Hole

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

规格型号 Specification	尺寸 Dimensions (mm) D	d	H	ap		刃数 Edges	重量 (kg)	刀片 Insert	螺钉 Screw	扳手 Wrench	库存 Stock	编码 Code	Price (RMB)
3PTF90-540-16R-10	40	16	40	7		5	0.3	3PKT1004..	M2.5×6	T8	○	337441	700
3PTF90-640-16R-10	40	16	40	7		6	0.3				○	337442	800
3PTF90-650-22R-10	50	22	40	7		6	0.4				○	337443	800
3PTF90-750-22R-10	50	22	40	7		7	0.4				○	337444	1000
3PTF90-863-22R-10	63	22	40	7		8	0.5				○	337445	1000
3PTF90-963-22R-10	63	22	40	7		9	0.5				○	337446	1000
3PTF90-450-22R-15	50	22	40	11		4	0.3	3PKT1505..	M4.0×10	T15	○	337447	1000
3PTF90-550-22R-15	50	22	40	11		5	0.3				○	337448	1000
3PTF90-663-22R-15	63	22	40	11		6	0.5				○	337449	1000
3PTF90-780-27R-15	80	27	50	11		7	1.0				○	337450	1200
3PTF90-880-27R-15	80	27	50	11		8	1.0				○	337451	1200
3PTF90-8100-32R-15	100	32	50	11		8	1.9				○	337452	1500
3PTF90-10100-32R-15	100	32	50	11		10	1.9				○	337453	1600
3PTF90-10125-40R-15	125	40	63	11		10	3.1				○	337454	1600
3PTF90-12125-40R15	125	40	63	11		12	3.1				○	337455	2000
3PTF90-463-22R-19	63	22	40	15		4	0.43	3PKT1906..	M4.5×12	T20	○	337456	1200
3PTF90-663-22R-19	63	22	40	15		6	0.93				○	337457	1300
3PTF90-480-27R-19	80	27	50	15		4	0.94				○	337458	1500
3PTF90-780-27R-19	80	27	50	15		7	0.95				○	337459	1800
3PTF90-6100-32R-19	100	32	50	15		6	1.79				○	337460	1800
3PTF90-8100-32R-19	100	32	50	15		8	2.56				○	337461	2000
3PTF90-8125-40R-19	125	40	63	15		8	2.99				○	337462	2000
3PTF90-10125-40R-19	125	40	63	15		10	3.1				○	337463	2500
3PTF90-8160-40R-19	160	40	63	15		8	4.22				○	337464	2500
3PTF90-12160-40R-19	160	40	63	15		12	4.33				○	337465	3000

AHU 直角台肩 有孔 铣削刀片

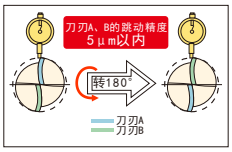


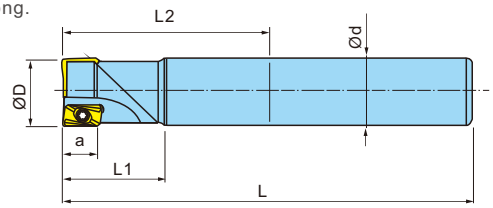
切削参数 (Cutting Parameters): R19
零配件 (Spare Parts): P01-P04



- 适合强力切削，回转及进刀量是一般铣刀的3倍
- 刃口锋利，强固。

★ Suitable for heavy cutting, rotary and feed volume is 3 times the normal cutter.
★ Blade sharp, strong.



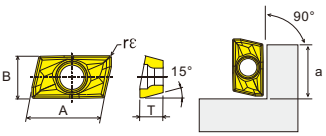


型号 Cat. No	尺寸 Size				刃数 No.of Flutes	a	刀片 Insert	螺钉 Screw	扳手Wrench	Stock	Order Number	Price (RMB)
	D	d	L	L1								
AHU10RC10-10-100-1T	10	10	100	30	1					●	322900	100
AHU10RC12-12-120-1T	12	12	120	30	1					●	322902	100
AHU10RC12-13-130-1T	13	12	130	30	1					●	322904	100
AHU10RC16-16-120-2T	16	16	120	30	2					●	322906	100
AHU10RC16-16-160-2T	16	16	160	40	2					●	322908	100
AHU10RC16-16-200-2T	16	16	200	50	2					●	322910	130
AHU10RC16-16-250-2T	16	16	250	60	2					●	322912	160
AHU10RC16-17-120-2T	17	16	120	30	2					●	322914	100
AHU10RC16-17-160-2T	17	16	160	40	2					●	322916	130
AHU10RC16-17-200-2T	17	16	200	50	2					●	322918	160
AHU10RC16-17-250-2T	17	16	250	60	2					●	322920	200
AHU10RC20-20-120-2T	20	20	120	30	2					●	322922	120
AHU10RC20-20-160-2T	20	20	160	40	2					●	322924	120
AHU10RC20-20-200-2T	20	20	200	50	2					●	322926	135
AHU10RC20-20-250-2T	20	20	250	60	2					●	322928	220
AHU10RC20-21-120-2T	21	20	120	30	2					●	322930	120
AHU10RC20-21-160-2T	21	20	160	40	2	9	JDMT 1003□□R	M2.5×6	T8	●	322932	120
AHU10RC20-21-200-2T	21	20	200	50	2					●	322934	135
AHU10RC20-21-250-2T	21	20	250	60	2					●	322936	220
AHU10RC25-25-120-4T	25	25	120	35	4					●	322938	160
AHU10RC25-25-160-4T	25	25	160	50	4					●	322940	160
AHU10RC25-25-200-4T	25	25	200	75	4					●	322942	180
AHU10RC25-25-250-4T	25	25	250	90	4					●	322944	240
AHU10RC25-26-120-4T	26	25	120	35	4					●	322946	160
AHU10RC25-26-160-4T	26	25	160	50	4					●	322948	160
AHU10RC25-26-200-4T	26	25	200	75	4					●	322950	180
AHU10RC25-26-250-4T	26	25	250	90	4					●	322952	240
AHU10RC25-30-160-4T	30	25	160	45	4					●	322954	180
AHU10RC25-30-200-4T	30	25	200	50	4					●	322956	200
AHU10RC25-30-250-4T	30	25	250	75	4					●	322958	260
AHU10RC32-30-180-4T	30	32	180	75	4					●	322960	220
AHU10RC32-32-130-5T	32	32	130	45	5					●	322962	260
AHU10RC32-32-200-4T	32	32	200	90	4					○	322964	350
AHU10RC32-35-200-4T	35	32	200	45	4					○	322966	400
AHU15RC25-25-130-2T	25	25	130	40	2					●	322968	150
AHU15RC25-25-150-2T	25	25	150	40	2					●	322970	150
AHU15RC25-25-170-2T	25	25	170	75	2					●	322972	160
AHU15RC25-25-180-2T	25	25	180	75	2					●	322974	160
AHU15RC25-25-200-2T	25	25	200	75	2					●	322976	160
AHU15RC25-25-250-2T	25	25	250	90	2					●	322978	220
AHU15RC25-26-150-2T	26	25	150	40	2					●	322980	150
AHU15RC25-26-180-2T	26	25	180	75	2					●	322982	160
AHU15RC25-26-200-2T	26	25	200	75	2	14	JDMT 1505□□R	M4×9	T15	●	322984	160
AHU15RC25-26-250-2T	26	25	250	90	2					●	322986	220
AHU15RC25-26-300-2T	26	25	300	90	2					●	322988	280
AHU15RC25-30-130-2T	30	25	130	45	2					●	322990	180
AHU15RC32-32-140-3T	32	32	140	45	3					●	322992	220
AHU15RC32-32-200-3T	32	32	200	90	3					●	322994	220
AHU15RC32-32-250-3T	32	32	250	90	3					●	322996	260
AHU15RC32-32-300-3T	32	32	300	90	3					●	322998	320
AHU15RC32-35-200-3T	35	32	200	90	3					●	323000	220
AHU15RC32-35-250-3T	35	32	250	90	3					●	323002	260
AHU15RC32-35-300-3T	35	32	300	90	3					●	323004	320
AHU15RC32-35-350-3T	35	32	350	90	3					●	323006	380
AHU15RC32-35-400-3T	35	32	400	90	3					●	323008	450
AHU15RC32-40-140-4T	40	32	140	45	4					●	323010	260
AHU15RC32-40-220-4T	40	32	220	45	4					○	323012	350
AHU15RC32-50-140-5T	50	32	140	45	5					○	323014	380
AHU15RC42-50-220-4T	50	42	220	45	4					○	323016	450

JDMT 直角台肩 有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

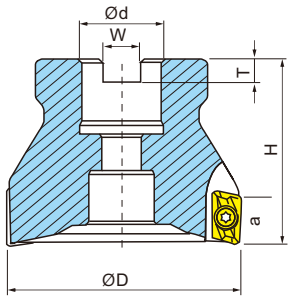
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			JDMT 100304R	0.4	11.0	6.1	3.5	-	10	☞ 刀柄: (Toolholder) D15-D16											
			100308R	0.8	11.0	6.1	3.5	-	10												
			100320R	2.0	11.0	6.1	3.5	-	10												
			100332R	3.2	11.0	6.1	3.5	-	10												
			150504R	0.4	16.0	9.12	5.0	-	15												
			150508R	0.8	16.0	9.12	5.0	-	15												
			150520R	2.0	16.0	9.12	5.0	-	15												
			150530R	3.0	16.0	9.12	5.0	-	15												

■ AHUB 直角台肩壳形面铣刀

Right Angle Shoulder Shell Face Milling Cutter







- ●刀片经济，适用性高
- ●容屑空间大，排屑好
- ●锥形设计，钢性好

- ★ Blade economy, the applicability of high
- ★ Capacity chip a large space, good chip disposal
- ★ Cone design, steel high

☞ 切削参数 (Cutting Parameters): R19
零配件 (Spare Parts): P01-P04

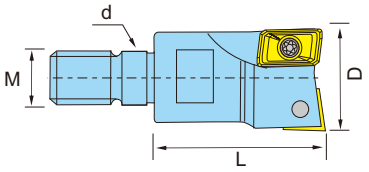
型号 Cat. No	尺寸 Size D	d	H	W	T	a	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
AHUB-50-22-4T	50	22	50	10.4	6.3	16	JDMT 1505□□ R	M4×10	T15	●	200	200
AHUB-63-22-4T	63	22	50	10.4	6.3	16				●	225	225
AHUB-80-27-6T	80	27	50	12.4	7	16				●	350	350
AHUB-100-32-6T	100	32	50	14.4	8	16				●	540	540

>>AHU10型刀盘（可装JDMT1003..刀片）均有现货，价格与参数请咨询我司客服。

■ AHUM 直角台肩立铣刀

Shoulder/Cutting End Mills(AHUM)

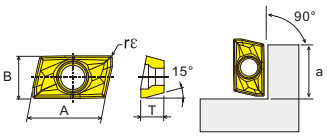




☞ 切削参数 (Cutting Parameters): R19
零配件 (Spare Parts): P01-P04

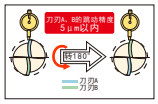
型号 Cat. No	尺寸 Size D	L	d	M	Teeth	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
AHUM1016R-2	16	25	8.5	M8	2	JDMT100308	M2.5X6	T8	●	323100	150
AHUM1017R-2	17	25	8.5	M8	2				●	323102	200
AHUM1018R-2	18	25	8.5	M8	2				○	323104	200
AHUM1020R-3	20	30	10.5	M10	3				●	323106	150
AHUM1021R-3	21	30	10.5	M10	3				●	323108	200
AHUM1022R-3	22	30	10.5	M10	3				○	323110	200
AHUM1025R-4	25	35	12.5	M12	4				●	323112	160
AHUM1026R-4	26	35	12.5	M12	4				●	323114	200
AHUM1028R-4	28	35	12.5	M12	4				○	323116	300
AHUM1030R-5	30	40	17	M16	5				○	323118	300
AHUM1032R-5	32	40	17	M16	5				○	323120	400
AHUM1035R-5	35	40	17	M16	5				○	323122	400
AHUM1040R-6	40	40	17	M16	6				○	323124	500
AHUM1525R-2	25	35	12.5	M12	2	JDMT150508	M4X9	T15	●	323126	160
AHUM1526R-2	26	35	12.5	M12	2				○	323128	200
AHUM1528R-3	28	35	12.5	M12	3				○	323130	300
AHUM1530R-3	30	40	17	M16	3				●	323132	160
AHUM1532R-3	32	40	17	M16	3				●	323134	200
AHUM1535R-3	35	40	17	M16	3				○	323136	400

JDMT 直角台肩 有孔 铣削刀片

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN01	ZC01	ZC02S	ZP201	ZP151	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			JDMT 070202R	0.2	6.4	4.3	2.45	6	刀柄：(Toolholder) D17	•						•				
			070204R	0.4	6.4	4.3	2.45	6		•						•				
			070208R	0.8	6.4	4.3	2.45	6		•						•				
			EDMT 070220R-T	2.0	6.4	4.3	2.5	6		•										
			070220R	2.0	6.4	4.3	2.5	6		•										

■ ASM 直角台肩精铣刀

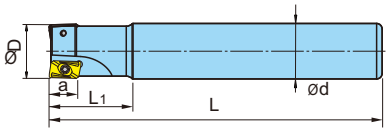
Right angle shoulder fine milling cutter



切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04







●适合强力切削，回转及进刀量是一般铣刀的3倍
●刃口锋利，强固。

★ Suitable for heavy cutting, rotary and feed volume is 3 times the normal cutter.
★ Blade sharp, strong.

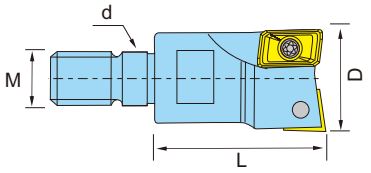
型号 Cat. No	尺寸 Size D	d	L	L1	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
ASM07RC10-08-75-1T	8	10	75	16	JDMT070208	M1.8X4	T6	•	323300	220
ASM07RC10-10-100-2T	10	10	100	20				•	323302	215
ASM07RC10-11-100-2T	11	10	100	20				•	323304	215
ASM07RC12-12-120-2T	12	12	120	25				•	323306	215
ASM07RC12-13-120-2T	13	12	120	25				•	323308	215
ASM07RC12-14-120-3T	14	12	120	25				•	323310	230
ASM07RC16-16-120-3T	16	16	120	50				•	323312	230
ASM07RC16-16-160-3T	16	16	160	50				•	323314	240
ASM07RC16-16-160-4T	16	16	160	50				•	323316	280
ASM07RC16-17-160-3T	17	16	160	50				•	323318	240
ASM07RC16-17-160-4T	17	16	160	50				•	323320	280
ASM07RC16-17-200-3T	17	16	200	50				•	323322	250
ASM07RC20-20-160-4T	20	20	160	60				•	323324	260
ASM07RC20-20-200-4T	20	20	200	60				•	323326	280
ASM07RC20-21-160-4T	21	20	160	60				•	323328	260
ASM07RC20-21-200-4T	21	20	200	60				•	323330	280

■ ASMM 超级迷你小径铣刀头

ASMM07 Super Excellent Mini ASM-Modular type

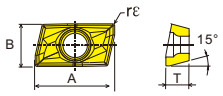
切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04





型号 Cat. No	尺寸 Size D	L	d	M	Teeth	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
ASMM0708R-1	8	20	6.5	M6	1	JDMT0702..R EDMT0702..R	M2.5X6	T8	○	323400	400
ASMM0710R-2	10	20	6.5	M6	2				●	323402	400
ASMM0711R-2	11	20	6.5	M6	2				●	323404	400
ASMM0712R-2	12	20	6.5	M6	2				●	323406	400
ASMM0712R-3	12	20	6.5	M6	3				●	323408	400
ASMM0713R-3	13	20	6.5	M6	3				○	323410	400
ASMM0716R-3	16	25	8.5	M8	3				○	323412	400
ASMM0716R-4	16	25	8.5	M8	4				●	323414	400
ASMM0717R-3	17	25	8.5	M8	3				○	323416	400
ASMM0717R-4	17	25	8.5	M8	4				●	323418	400
ASMM0720R-4	20	30	10.5	M10	4				●	323420	400
ASMM0720R-5	20	30	10.5	M10	5				○	323422	500
ASMM0721R-4	21	30	10.5	M10	4				●	323424	400
ASMM0725R-5	25	30	12.5	M12	5				○	323426	500
ASMM0725R-6	25	30	12.5	M12	6				○	323428	600
ASMM0726R-5	26	30	17	M12	5				○	323430	500
ASMM0726R-6	26	30	17	M12	6				○	323432	600
ASMM0732R-5	32	30	17	M16	5				○	323434	600
ASMM0732R-8	32	30	17	M16	8				○	323436	800

APKT 直角台肩 有孔 铣削刀片

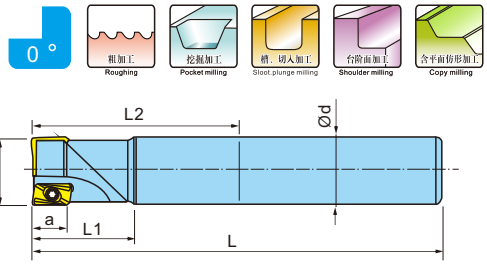
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD CBN-K CBN-S CNGN ZCC01 ZCC01S ZP201 ZP151 ZP152 ZP153 ZP163
直角台肩铣削 Right Angle Milling			APKT 1003PDR-HM	0.5	10.95	6.7	3.55	刀柄: (Toolholder) D18	●●● ●
			1003PDTR-76	0.5	11.00	6.7	3.47		●●● ●
			1003PDTR-RM	0.5	11.00	6.7	3.47		●●● ●● ●
			100308PDTR-RM	0.8	11.00	6.7	3.47		●●● ●● ●
			100310PDR-RM	1.0	10.75	6.7	3.47		●●●
			100312TR-RM	1.2	10.50	6.7	3.47		●●●
			100316PDTR-RM	1.6	10.90	6.7	3.47		●●●
			100320PDTR-RM	2.0	10.90	6.7	3.47		●●●

■ AP1003 直角台肩铣刀

Right Angle Shoulder Milling Cutter

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04





●适合强力切削，回转及进刀量是一般铣刀的3倍
●刃口锋利，强固。

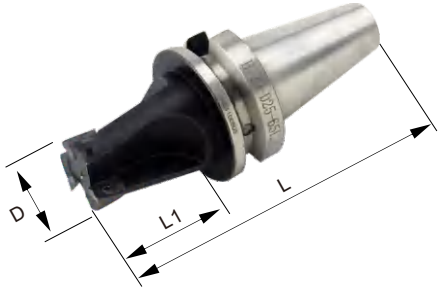
★ Suitable for heavy cutting, rotary and feed volume is 3 times the normal cutter.
★ Blade sharp, strong.

型号 Cat. No	尺寸 Size D	d	L	L1	刃数 No.of Flutes	a	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
AP1003RC16-16-100-2T	16	16	100	30	2	9	APKT1003..	M2.5×6	T8	○	323600	180
AP1003RC16-16-150-2T	16	16	150	30	2					○	323602	180
AP1003RC20-18-150-2T	18	20	150	30	2					○	323604	200
AP1003RC20-18-200-2T	18	20	200	30	2					○	323606	200
AP1003RC20-20-100-2T	20	20	100	30	2					○	323608	200
AP1003RC20-20-150-2T	20	20	150	30	2					○	323610	200

■ Ap10 一体式高速强力方肩铣刀

AP10 integrated high strength square shoulder milling cutter

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04



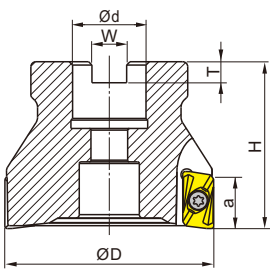
型 号 Cat. No	刃数 Edges	总长 L	有效长 L1	直径 D	刀片 Insert	Order Number	Price (RMB)
BT30-AP10-16-2T	2	155	90	16	APKT1003	323700	950
BT30-AP10-20-2T	2	155	90	20		323702	950
BT30-AP10-25-3T	3	155	90	25		323704	1000
BT30-AP10-32-4T	4	155	90	32		323706	1150
BT40-AP10-16-2T	2	155	90	16		323710	1000
BT40-AP10-20-2T	2	155	90	20		323712	1000
BT40-AP10-25-3T	3	155	90	25		323714	1150
BT40-AP10-32-4T	4	155	90	32		323716	1250

■ AP 直角台肩面铣刀盘

AP Right angle shoulder face mill

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04



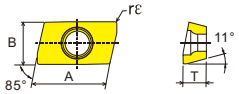
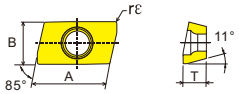
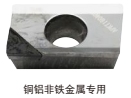
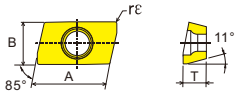
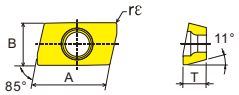
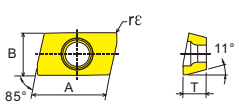
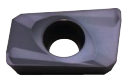
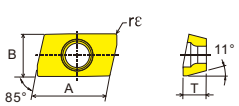
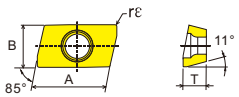
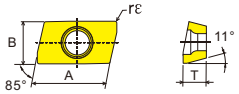
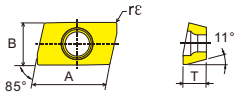


型 号 Cat. No	刃数 No.of flutes	尺寸 Size D	d	H	W	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
AP1003R40-16-5T	5	40	16	40	10.4	APKT1003 APKX1003	M2.5×6	T8	●	323800	420
AP1003R50-22-6T	6	50	22	45	10.4				●	323802	380
AP1003R63-22-7T	7	63	22	45	10.4				●	323804	420

APMT 直角台肩 有孔 铣削刀片

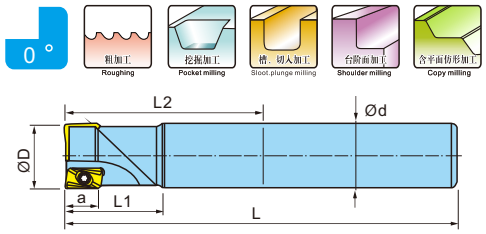
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	PCBN-K	PCBN-S	ZM01	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling	 铜铝非铁金属专用 Special for copper aluminum metal		APKT 1135PDER-G2 1604PDER-G2	0.8 0.8	11 16.5	6.35 9.525	3.5 4.76	刀柄: (Toolholder) D20-D22				● ●							
直角台肩铣削 Right Angle Milling	 铜铝非铁金属专用 Special for copper aluminum metal		APKT 160402-AL 160404-AL 160408-AL	0.2 0.4 0.8	16.5 16.5 16.5	9.525 9.525 9.525	4.76 4.76 4.76	刀柄: (Toolholder) D20-D22				● ● ●							
直角台肩铣削 Right Angle Milling	 铜铝非铁金属专用 Special for copper aluminum metal		APKT 113502 113504 113508 160402 160404 160408	0.2 0.4 0.8 0.2 0.4 0.8	11 11 11 16.5 16.5 16.5	6.35 6.35 6.35 9.525 9.525 9.525	3.5 3.5 3.5 4.76 4.76 4.76	刀柄: (Toolholder) D20-D22	● ● ● ● ● ●										
直角台肩铣削 Right Angle Milling	 铸铁及淬火超硬材料加工 Cast iron and hard to cut materials		APKT 113502 113504 113508 160402 160404 160408	0.2 0.4 0.8 0.2 0.4 0.8	11 11 11 16.5 16.5 16.5	6.35 6.35 6.35 9.525 9.525 9.525	3.5 3.5 3.5 4.76 4.76 4.76	刀柄: (Toolholder) D20-D22	● ● ● ● ● ● ● ● ● ● ● ●										
直角台肩铣削 Right Angle Milling	 通用加工 General processing		APMT 1135PDER-M2 1604PDER-M2	0.8 0.8	11 16.5	6.35 9.525	3.5 4.76	刀柄: (Toolholder) D20-D22				● ●				● ● ● ● ● ● ● ●			
直角台肩铣削 Right Angle Milling	 通用加工 General processing		APMT 1135PDER-H1 1135PDER-H2 1135PDER-H3 1135PDER-H4 1135PDER-H6 1604PDER-H1 1604PDER-H2 1604PDER-H3 1604PDER-H4 1604PDER-H6 1604PDER-H8	0.4 0.8 1.2 1.6 2.4 0.4 0.8 1.2 1.6 2.4 3.2	11 11 11 11 11 16.5 16.5 16.5 16.5 16.5 16.5	6.35 6.35 6.35 6.35 6.35 9.525 9.525 9.525 9.525 9.525 9.525	3.5 3.5 3.5 3.5 3.5 4.76 4.76 4.76 4.76 4.76 4.76	刀柄: (Toolholder) D20-D22				● ●			● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●			
直角台肩铣削 Right Angle Milling	 通用加工 General processing		APMT 1135PDER-DU 1604PDER-DU	0.8 0.8	11 16.5	6.35 9.525	3.5 4.76	刀柄: (Toolholder) D20-D22				● ●				● ● ● ● ● ● ● ● ● ● ● ●			
直角台肩铣削 Right Angle Milling	 通用加工 General processing		APMT 1135PDER-KZ 1604PDER-KZ	0.8 0.8	11 16.5	6.35 9.525	3.5 4.76	刀柄: (Toolholder) D20-D22								● ● ● ● ● ● ● ●			
直角台肩铣削 Right Angle Milling	 通用加工 General processing		APMT 1135PDER-ZM 1604PDER-ZM	0.8 0.8	11 16.5	6.35 9.525	3.5 4.76	刀柄: (Toolholder) D20-D22								● ● ● ● ● ●			

BAP 直角台肩 有孔 铣削刀片





- 适合强力切削，回转及进刀量是一般铣刀的3倍
- 适配刀片经济，性价比高。
- ★ Suitable for heavy cutting, rotary and feed volume is 3 times the normal cutter.
- ★ Adapter blade economy, cost-effective.

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	L	L1	L2	a	刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
BAP300RC10-10-100-1T	10	10	100	30	-	9	1				●	323900	67	-
BAP300RC10-10-120-1T	10	10	120	30	-	9	1				●	323902	67	90
BAP300RC10-11-120-1T	11	10	120	30	-	9	1				●	323904	67	90
BAP300RC12-12-130-1T	12	12	120	30	-	9	1				●	323906	67	95
BAP300RC12-13-130-1T	13	12	130	30	-	9	1				●	323908	67	95
BAP300RC14-14-130-2T	14	14	130	30	-	9	2				●	323910	77	-
BAP300RC14-14-150-2T	14	14	150	30	-	9	2				●	323912	77	-
BAP300RC15-16-150-2T	16	15	150	40	-	9	2				●	323914	77	100
BAP300RC15-16-200-2T	16	15	200	40	-	9	2				●	323916	100	-
BAP300RC15.6-16-150-2T	16	15.6	150	40	-	9	2				●	323918	77	-
BAP300RC15.6-16-200-2T	16	15.6	200	40	-	9	2				●	323920	100	-
BAP300RC16-16-120-2T	16	16	120	40	-	9	2				●	323922	77	100
BAP300RC16-16-150-2T	16	16	150	50	-	9	2				●	323924	77	100
BAP300RC16-16-200-2T	16	16	200	60	100	9	2				●	323926	100	130
BAP300RC25-16-250-2T	16	25	250	60	-	9	2				●	323928	133	-
BAP300RC16-17-120-2T	17	16	120	40	-	9	2				●	323930	77	100
BAP300RC16-17-150-2T	17	16	150	40	-	9	2				●	323932	77	130
BAP300RC16-17-200-2T	17	16	200	40	-	9	2				●	323934	100	-
BAP300RC16-18-150-2T	18	16	150	40	-	9	2				●	323936	93	-
BAP300RC16-18-200-2T	18	16	200	40	-	9	2				●	323938	107	-
BAP300RC19-20-150-2T	20	19	150	40	-	9	2				●	323940	93	120
BAP300RC19-20-200-2T	20	19	200	40	-	9	2				●	323942	107	135
BAP300RC20-20-120-2T	20	20	120	35	-	9	2	APMT 1135 PDER	M2.5×6	T8	●	323944	93	115
BAP300RC20-20-150-2T	20	20	150	50	-	9	2				●	323946	93	120
BAP300RC20-20-200-2T	20	20	200	60	100	9	2				●	323948	107	135
BAP300RC20-20-250-2T	20	20	250	60	-	9	2				●	323950	133	-
BAP300RC25-20-250-2T	20	25	250	60	-	9	2				●	323952	167	-
BAP300RC20-21-120-2T	21	20	120	50	-	9	2				●	323954	93	-
BAP300RC20-21-150-2T	21	20	150	50	-	9	2				●	323956	93	120
BAP300RC20-21-200-2T	21	20	200	50	-	9	2				●	323958	107	135
BAP300RC24-25-150-3T	25	24	150	50	-	9	3				●	323960	140	-
BAP300RC24-25-200-3T	25	24	200	50	-	9	3				●	323962	167	-
BAP300RC24-25-250-3T	25	24	250	60	-	9	3				●	323964	200	-
BAP300RC25-25-120-3T	25	25	120	50	-	9	3				●	323966	-	140
BAP300RC25-25-150-3T	25	25	150	50	-	9	3				●	323968	140	150
BAP300RC25-25-200-3T	25	25	200	60	-	9	3				●	323970	167	160
BAP300RC25-25-250-3T	25	25	250	60	115	9	3				●	323972	200	-
BAP300RC25-30-150-4T	30	25	150	50	-	9	4				●	323974	-	150
BAP300RC25-30-200-4T	30	25	200	60	-	9	4				●	323976	-	180
BAP300RC25-30-250-4T	30	25	250	60	-	9	4				●	323978	-	250
BAP300RC32-28.5-190-3T	28.5	32	190	50	65	9	3				●	323980	-	260
BAP400RC24-25-150-2T	25	24	150	50	-	14	2				●	323982	107	140
BAP400RC24-25-200-2T	25	24	200	60	-	14	2				●	323984	133	150
BAP400RC24-25-250-2T	25	24	250	50	-	14	2				●	323986	167	-
BAP400RC25-25-150-2T	25	25	150	60	-	14	2				●	323988	107	140
BAP400RC25-25-200-2T	25	25	200	70	-	14	2				●	323990	133	150
BAP400RC25-25-250-2T	25	25	250	70	-	14	2				●	323992	167	165
BAP400RC32-25-300-2T	25	32	300	40	-	14	2				●	323994	267	-
BAP400RC25-26-150-2T	26	25	150	50	-	14	2				●	323996	107	140
BAP400RC25-26-200-2T	26	25	200	60	-	14	2				●	323998	133	150
BAP400RC25-26-250-2T	26	25	250	60	-	14	2				●	324000	167	165
BAP400RC25-26-300-2T	26	25	300	45	-	14	2				●	324002	-	185
BAP400RC25-30-150-2T	30	25	150	45	-	14	2				●	324004	120	-
BAP400RC25-30-200-2T	30	25	200	45	-	14	2				●	324006	140	-
BAP400RC25-30-250-2T	30	25	250	50	-	14	2				●	324008	183	-
BAP400RC32-32-150-3T	32	32	150	50	-	14	3				●	324010	167	160
BAP400RC32-32-200-3T	32	32	200	60	-	14	3				●	324012	200	170
BAP400RC32-32-250-3T	32	32	250	60	115	14	3	APMT 1604 PDER	M4×9	T15	●	324014	233	190
BAP400RC32-32-300-3T	32	32	300	60	115	14	3				●	324016	300	220
BAP400RC32-32-350-3T	32	32	350	60	-	14	3				●	324018	333	-
BAP400RC32-32-400-3T	32	32	400	50	-	14	3				●	324020	550	-
BAP400RC32-35-150-3T	35	32	150	50	-	14	3				●	324022	167	185
BAP400RC32-35-200-3T	35	32	200	50	-	14	3				●	324024	200	200
BAP400RC32-35-250-3T	35	32	250	50	-	14	3				●	324026	250	240
BAP400RC32-35-300-3T	35	32	300	50	-	14	3				●	324028	300	280
BAP400RC32-35-350-3T	35	32	350	50	-	14	3				●	324030	367	320
BAP400RC32-35-400-3T	35	32	400	50	-	14	3				●	324032	550	360
BAP400RC32-40-150-3T	40	32	150	50	-	14	3				●	324034	183	-
BAP400RC32-40-200-3T	40	32	200	60	-	14	3				●	324036	217	220
BAP400RC32-40-250-3T	40	32	250	60	-	14	3				●	324038	267	260
BAP400RC32-40-300-3T	40	32	300	60	-	14	3				●	324040	317	300
BAP400RC32-40-350-3T	40	32	350	60	-	14	3				●	324042	400	340
BAP400RC32-40-400-3T	40	32	400	60	-	14	3				●	324044	500	400
BAP400RC32-50-150-4T	50	32	150	50	-	14	4				●	324046	267	-
BAP400RC32-50-200-4T	50	32	200	50	-	14	4				●	324048	333	-

AP 直角铝合金有孔铣削刀盘



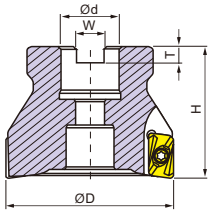
切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

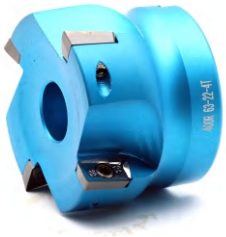
- 高强度铝合金刀体，更适合小功率机床，
- 精细的轴向调节功能，可获得高的表面质量！
- 备有直径错齿刀夹，粗精加工一次完成
- 选装PCD等精加工刀粒错齿铣削，表面效果令您更满意！

★ High strength aluminum alloy body, more suitable for small power machine,
★ Fine axial adjustment function, can obtain a high surface quality!
★ Have the wrong tooth diameter cutter holder, the rough and finish machining of a complete
★ The optional PCD finishing tool grain wrong tooth milling, surface effects to make you more satisfied!

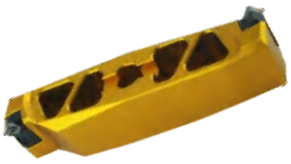
AL-AP 机夹式直角台肩立铣刀盘-铝制高光

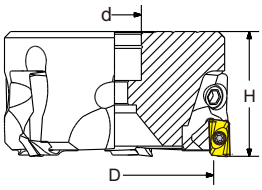
Machine-Clamped Right-Angle Shoulder End Milling Cutter Head-Aluminum Highlight

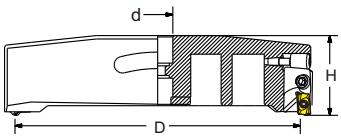












● 特点：铝材壳体，重量轻，直角高光效率高
★ Features: Aluminum Shell, Light Weight, Right Angle And High Polishing Efficiency

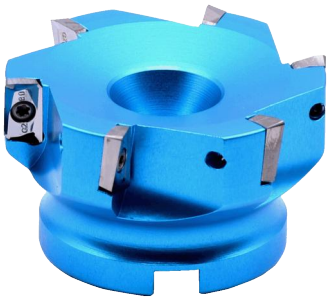
配件(Accessory):
刀片:AP. . 1604. .
螺钉:M4X10
扳手:T15

配件(Accessory):
刀片:AP. . 1604. .
螺钉:M4X10
扳手:T15

订购编码 Order	规格型号 Specification	尺寸 Dimensions D	d	H	W	T	刃数 Edge	价格 Price
324450	**AL-AP16-50-22-4T**	50	22	50	10.4	6.3	4	260
324452	**AL-AP16-63-22-4T**	63	22	50	10.4	6.3	4	320
324454	**AL-AP16-80-22-6T**	80	22	50	12.4	7	6	440
324456	**AL-AP16-80-27-5T**	80	27	50	12.4	7	5	440
324458	**AL-AP16-80-27-6T**	80	27	50	12.4	7	6	440
324460	**AL-AP16-100-22-6T**	100	22	50	14.4	8	6	750
324462	**AL-AP16-100-27-6T**	100	27	50	14.4	8	6	750
324464	**AL-AP16-100-32-6T**	100	32	50	14.4	8	6	750
324466	**AL-AP16-125-22-6T**	125	22	50	16.4	8	6	1165
324468	**AL-AP16-125-27-6T**	125	27	50	16.4	8	6	1165
324470	**AL-AP16-125-32-6T**	125	32	50	16.4	8	6	1165
324472	**AL-AP16-125-40-6T**	125	40	50	16.4	8	6	1165
324474	**AL-AP16-125-40-7T**	125	40	50	16.4	8	7	1150
324476	**AL-AP16-160-32-8T**	160	32	50	16.4	9	8	1300
324478	**AL-AP16-160-40-8T**	160	40	50	16.4	9	8	1200
324480	**AL-AP16-200-40-10T**	200	40	63	16.4	9	10	2800
324482	**AL-AP16-250-40-10T**	250	40	63	16.4	9	10	3500
324484	**AL-AP16-250-60-10T**	250	60	63	16.4	9	10	3800
324486	**AL-AP16-300-32-14T**	300	32	63	16.4	9	14	4300

订购编码 Order	规格型号 Specification	Dimensions D	d	H	适配刀夹 Fit Holder	刃数 Edge	价格 Price
324400	**MA-AP74-A22Z04**	74	22	51		4	1450
324402	**MA-AP91-A22Z05**	91	22	51		5	1900
324404	**MA-AP111-A27Z06**	111	27	51		6	2400
324406	**MA-AP111-B25.4Z06**	111	25.4	51	AP16-G	6	2400
324408	**MA-AP136-A27Z08**	136	22	51		8	3100
324410	**MA-AP171-A40Z08**	171	27	55		8	3400
324412	**MA-AP211-A40Z10**	211	27	55		8	4200
324414	**MAQ-AP311-A40Z12**	311	27	55		8	5000
324416	**MAQ-AP171-A22Z02**	171	22	58		2	1900
324418	**MAQ-AP221-A22Z02**	221	22	58	AP16-F	2	2285
324420	**MAQ-AP261-A22Z02**	261	22	58		2	2370
324422	**MAQ-AP326-A27Z02**	326	27	65		2	3150

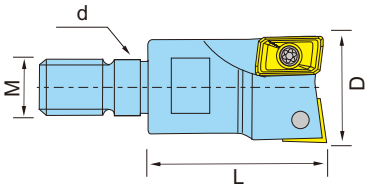






BAPM 直角台肩有孔立铣刀





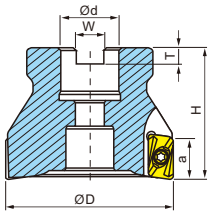
切削参数 (Cutting Parameters): R17-R20　　零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	L	d	M	Teeth	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
BAP3R162M08	16	25	8.5	M8	2	APMT1135PDER	--	M2.5X6.5	T8	●	324100	150
BAP3R172M08	17	25	8.5	M8	2					●	324102	180
BAP3R202M10	20	30	10.5	M10	2					●	324104	150
BAP3R212M10	21	30	10.5	M10	2					●	324106	180
BAP3R253M12	25	35	12.5	M12	3					●	324108	150
BAP3R263M12	26	35	12.5	M12	3					●	324110	200
BAP4R252M12	25	35	12.5	M12	2	APMT1604PDER	--	M4X9	T15	●	324112	160
BAP4R262M12	26	35	12.5	M12	2					●	324114	200
BAP4R302M16	30	40	17	M16	2					●	324116	200
BAP4R323M16	32	40	17	M16	3					●	324118	260
BAP4R353M16	35	40	17	M16	3					●	324120	280

BAP 直角台肩面铣刀盘

BAP Type Right Angle Shoulder Milling Cutter





- 使用11° 正角刀片
- 适配多种材质刀片，可适用铝钢铣削
- 螺丝锁紧，容屑空间大，排屑好
- 切削轻快，阻力小

★ 11° positive angle blade
★ Adaptive multi-material blade, applicable to aluminum steel milling
★ Screw locking, allow a large space debris, a good chip disposal
★ Cutting light, the resistance of small

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

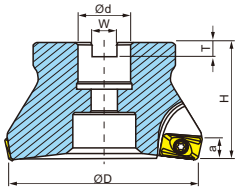
型号 Cat. No	尺寸 Size D	d	H	W	T	a	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
BAP300R40-16-5T	40	16	40	8.4	5.6	9	APMT1135 PDER	M2.5×6	T8	●	324200	167	250
BAP300R50-22-6T	50	22	50	10.4	6.3	9				●	324202	217	225
BAP300R63-22-7T	63	22	50	10.4	6.3	9				●	324204	283	312
BAP400R50-22-4T	50	22	50	10.4	6.3	14	APMT1604 PDER	M4×10	T15	●	324206	167	200
BAP400R63-22-4T	63	22	50	10.4	6.3	14				●	324208	200	225
BAP400R80-27-6T	80	27	50	12.4	7	14				●	324210	307	350
BAP400R100-32-6T	100	32	50	14.4	8	14				●	324212	483	540
BAP400R125-40-7T	125	40	63	16.4	9	14				●	324214	767	665
BAP400R160-40-8T	160	40	63	16.4	9	14				●	324216	867	1100
BAP400R200-60-9T	200	60	63	25.7	14	14				●	324218	1833	1600
BAP400R250-60-10T	250	60	63	25.7	14	14				●	324220	2500	2100
BAP400R300-60-14T	300	60	65	25.7	14	14				●	324222	3000	-
BAP400R63-25.4-4T	63	25.4	50	10	6	14				●	324224	167	225
BAP400R80-25.4-6T	80	25.4	50	10	6	14				●	324226	200	350
BAP400R100-31.75-6T	100	31.75	50	13	8	14				●	324228	333	540
BAP400R125-38.1-8T	125	38.1	63	16.2	10	14				●	324230	500	665
BAP400R160-50.8-9T	160	50.8	63	19.3	11	14				●	324232	-	1100

RAP-75°

面铣刀盘

Face Milling Cutter





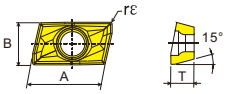
●使用APMT1604废弃刀片，节约成本

★ Abandoned the use of APMT1604 Insert, cost savings

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	H	W	T	a	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
RAP300R50-22-4T	50	22	50	10.4	6.3	6.5	APMT 1604 PDER	M4×10	T15	●	332300	233	-
RAP300R63-22-4T	63	22	50	12.4	7	6.5				●	332302	267	-
RAP300R50-25.4-4T	50	25.4	50	10.4	6.3	6.5				●	332304	233	-
RAP300R63-25.4-4T	63	25.4	50	12.4	7	6.5				●	332306	267	-
RAP400R63-22-4T	63	22	50	14.4	8	8				●	332308	267	225
RAP400R63-25.4-4T	63	25.4	50	14.4	8	8				●	332310	267	-
RAP400R80-27-5T	80	27	50	14.4	8	8				●	332312	367	350
RAP400R100-32-6T	100	32	50	14.4	9	8				●	332314	500	540
RAP400R125-40-7T	125	40	63	16.4	9	8				●	332316	933	665
RAP400R160-40-8T	160	40	63	16.4	9	8				●	332318	1067	1100
RAP400R200-60-9T	200	60	63	25.7	14	8				●	332320	-	1600
RAP400R250-60-10T	250	60	63	25.7	14	8				●	332322	-	2100

R390 直角台肩有孔铣削刀片

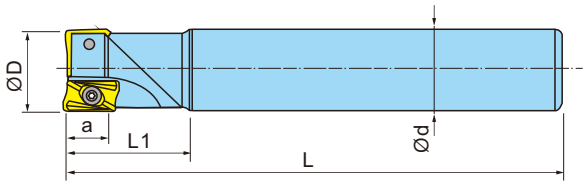
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD CBN-K CBN-S ZN01 ZC01 ZC02S ZP201 ZP151 ZP152 ZP153 ZP163
直角台肩铣削 Right Angle Milling			R390- 11T304M-PM	0.4	10	6.8	3.59	刀柄：(Toolholder) D23-D24	●●●● ●● ●●●
			11T308M-PM	0.8	10	6.8	3.59		●●●● ●● ●●●
			11T316M-PM	1.6	10	6.8	3.59		●●●
			11T331M-PM	3.1	10	6.8	3.59		●●●
			170404M-PM	0.4	15.7	9.6	4.76		●●●● ●● ●●●
			170408M-PM	0.8	15.7	9.6	4.76		●●●● ●● ●●●
			170416M-PM	1.6	15.7	9.6	4.76		●●●
			170431M-PM	3.1	15.7	9.6	4.76		●●●

■ R390

直角台肩精铣刀
Right angle shoulder fine milling cutter







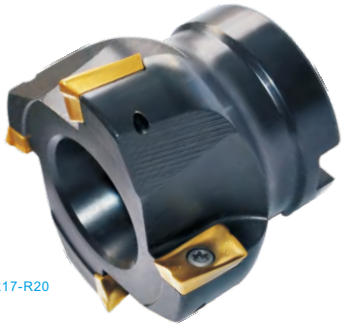
切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

● 精度高，适于精加工
★ High precision, suitable for finishing

型号 Cat. No	尺寸 Size D	d	L	L1	a	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
R390-11RC15-16-150-2T	16	15	150	40	11	R390-11T308	M2.5×6	T8	●	324600	133	350
R390-11RC15-16-200-2T	16	15	200	40	11				●	324602	167	-
R390-11RC16-16-150-2T	16	16	150	50	11				●	324604	133	150
R390-11RC16-16-200-2T	16	16	200	60	11				●	324606	167	160
R390-11RC16-17-150-2T	17	16	150	40	11				●	324608	133	170
R390-11RC16-17-200-2T	17	16	200	40	11				●	324610	167	180
R390-11RC19-20-150-2T	20	19	150	40	11				●	324612	150	-
R390-11RC19-20-200-2T	20	19	200	40	11				●	324614	183	200/380
R390-11RC20-20-150-2T	20	20	150	50	11				●	324616	150	180
R390-11RC20-20-200-2T	20	20	200	60	11				●	324618	183	200
R390-11RC20-21-150-2T	21	20	150	50	11				●	324620	150	180
R390-11RC20-21-200-2T	21	20	200	50	11				●	324622	183	200
R390-11RC20-22-200-2T	22	20	200	50	11				●	324624	-	360
R390-11RC24-25-150-2T	25	24	150	50	11				●	324626	167	-
R390-11RC24-25-200-2T	25	24	200	50	11				●	324628	200	-
R390-11RC24-25-220-2T	25	24	220	50	11				●	324630	-	450
R390-11RC25-25-150-2T	25	25	150	50	11				●	324632	167	225
R390-11RC25-25-200-2T	25	25	200	60	11				●	324634	200	250
R390-11RC25-26-150-2T	26	25	150	50	11				●	324636	167	225
R390-11RC25-26-200-2T	26	25	200	60	11				●	324638	200	250
R390-11RC25-26-250-2T	26	25	250	60	11				●	324640	233	-
R390-11RC29-30-250-2T	30	29	250	50	11				●	324642	-	640
R390-11RC32-33-150-2T	33	32	150	50	11				●	324644	200	-
R390-11RC32-33-200-2T	33	32	200	50	11				●	324646	233	-
R390-11RC32-33-250-2T	33	32	250	50	11				●	324648	267	-
R390-11RC32-33-300-2T	33	32	300	50	11				●	324650	300	-
R390-11RC32-33-350-2T	33	32	350	50	11				●	324652	333	-
R390-11RC32-35-330-2T	35	32	330	55	11				●	324654	-	750
R390-17RC25-25-160-2T	25	25	160	40	17	R390-170408	M3.5×8	T15	●	324656	-	225
R390-17RC25-25-200-2T	25	25	200	50	17				●	324658	-	250
R390-17RC25-32-200-2T	32	25	200	50	17				●	324660	-	300

■ R390 直角台肩面铣刀盘

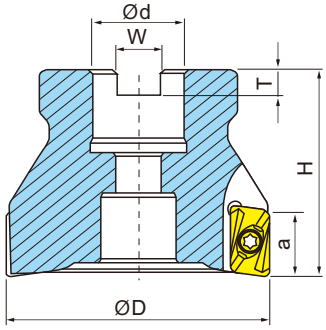
Right Angle Shoulder Milling Cutter





- 适配精磨刀片
- 精度高，适于精加工
- 锥形设计，钢性高

★ Adapter grinding Inserts
★ High precision, suitable for finishing
★ Cone design, steel high

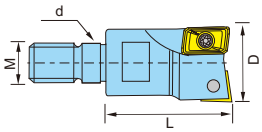


切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	H	W	T	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
R390-11R50-22-4T	50	22	50	10.4	6.3	R390-11T308	M2.5×6	T8	●	324500	240/400
R390-11R63-22-4T	63	22	50	10.4	6.3				●	324502	280/500
R390-17R63-22-4T	63	22	50	10.4	6.3	R390-170408	M3.5×10	T15	●	324504	250
R390-17R80-27-6T	80	27	50	12.4	7				●	324506	400
R390-17R100-32-6T	100	32	50	14.4	8				●	324508	600
R390-17R125-40-6T	125	40	63	16.4	9				●	324510	750
R390-17R160-80-6T	160	40	63	16.4	9				●	324512	1150

■ R390 锁牙式刀头

R390 Shoulder/Cutting End Mills



切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

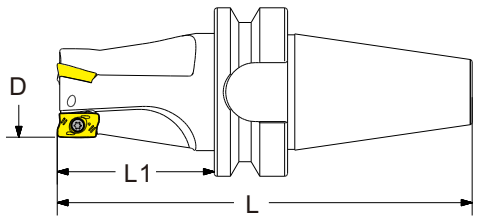
型 号 Cat. No	尺 寸 Size D	L	d	M	Teeth	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
R390-11-16-2T-M8	16	25	8.5	M8	2	R390-11T3..	--	M2.5X6	T8	●	324530	250
R390-11-17-2T-M8	17	25	8.5	M8	2					●	324532	250
R390-11-20-2T-M10	20	30	10.5	M10	2					●	324534	300
R390-11-21-2T-M10	21	30	10.5	M10	2					●	324536	300
R390-11-25-2T-M12	25	35	12.5	M12	2					●	324538	400
R390-11-26-2T-M12	26	35	12.5	M12	2					●	324540	400
R390-11-32-2T-M16	32	35	17	M16	2					●	324542	500
R390-11-33-2T-M16	33	35	17	M16	2					●	324544	500
R390-11-35-3T-M16	35	40	17	M16	3					●	324546	500

■ R390 一体式高速强力方肩铣刀

R390 Integrated High Strength Square Shoulder Milling Cutter

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04



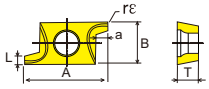


● 一体式刚性结构，轻量化，更具高速性能。
● 通过选用不同材质刀粒，可通用于钢及铜铝合金的粗精加工，适用范围广，高效率，高刚性！

★ Lightweight one-piece rigid structure, high performance, more.
★ Through the selection of different material grain, can be used in the steel and copper aluminum alloyThe coarse and fine processing, wide application range, high efficiency, high rigidity!

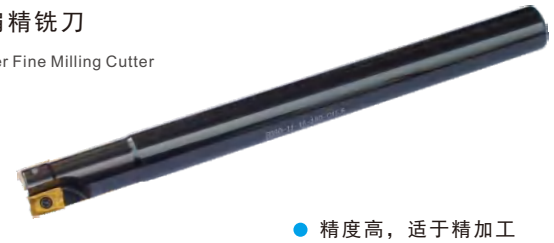
型 号 Cat. No	刃数 Edges	总长 L	有效长 L1	直径 D	刀片 Insert	Stock	Order Number	Price (RMB)
BT30-R390-16-2T	2	155	35	16	R390-11T308	●	324700	1150
BT30-R390-20-2T	2	155	35	20		●	324702	1150
BT30-R390-25-3T	3	155	35	25		●	324704	1100
BT30-R390-32-4T	4	155	35	32		●	324706	1200
BT40-R390-16-2T	2	155	45	16		●	324708	1100
BT40-R390-20-2T	2	155	45	20		●	324710	1100
BT40-R390-25-3T	3	155	45	25		●	324712	1250
BT40-R390-32-4T	4	155	45	32		●	324714	1350

RT 直角台肩有孔铣削刀片

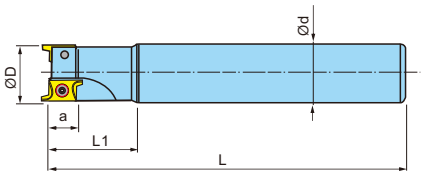
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	CN01	ZC01	ZC02S	ZP201	ZP151	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			RT 070204R-81	0.4	6.4	4.3	2.38	1.3	1.5	刀柄：(Toolholder) D25-D26	●	●	●			●	●				
			100304R-81	0.4	11	6.35	3.4	1.8	2.1		●	●	●			●	●				
			100304R-31	0.4	11	6.35	3.4	1.8	2.1		●	●	●			●	●				
			100308R-81	0.8	11	6.35	3.4	1.8	2.1		●	●	●			●	●				

RT 直角台肩精铣刀

Right Angle Shoulder Fine Milling Cutter







☞ 切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

● 精度高，适于精加工

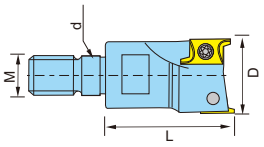
★ High precision, suitable for finishing

Order Number	型号 Cat. No	尺寸 Size D	d	L	L1	Teeth	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Price (RMB)
324900	RT07RC10-06-100-1T	6	10	100	30	1	RT070204R81	M2.0×4	T6	○	324900
324902	RT07RC10-08-100-1T	8	10	100	30	1				○	324902
324904	RT07RC10-10-150-2T	10	10	150	25	2				○	324904
324906	RT07RC10-11-150-2T	11	10	150	20	2				○	324906
324908	RT07RC12-12-150-2T	12	12	150	30	2				○	324908
324910	RT07RC12-13-150-2T	13	12	150	20	2				○	324910
324912	RT07RC16-16-150-3T	16	16	150	30	3				○	324912
324914	RT07RC16-16-200-3T	16	16	200	30	3				○	324914
324916	RT07RC16-17-150-3T	17	16	150	25	3				○	324916
324918	RT07RC16-17-200-3T	17	16	200	25	3				○	324918
324920	RT07RC20-20-150-4T	20	20	150	30	4				○	324920
324922	RT07RC20-20-200-4T	20	20	200	30	4				○	324922
324924	RT10RC16-16-150-2T	16	16	150	30	2	RT1003	M2.5×6	T8	○	324924
324926	RT10RC16-16-200-2T	16	16	200	30	2				○	324926
324928	RT10RC16-17-150-2T	17	16	150	25	2				○	324928
324930	RT10RC16-17-200-2T	17	16	200	25	2				○	324930
324932	RT10RC20-20-150-2T	20	20	150	30	2				○	324932
324934	RT10RC20-20-150-3T	20	20	150	30	3				○	324934
324936	RT10RC20-20-200-2T	20	20	200	30	2				○	324936
324938	RT10RC20-20-200-3T	20	20	200	30	3				○	324938
324940	RT10RC20-21-150-2T	21	20	150	25	2				○	324940
324942	RT10RC20-21-150-3T	21	20	150	25	3				○	324942
324944	RT10RC20-21-200-2T	21	20	200	25	2				○	324944
324946	RT10RC20-21-200-3T	21	20	200	25	3				○	324946
324948	RT10RC25-25-150-2T	25	25	150	40	2				○	324948
324950	RT10RC25-25-150-3T	25	25	150	40	3				○	324950
324952	RT10RC25-25-200-2T	25	25	200	40	2				○	324952
324954	RT10RC25-25-200-3T	25	25	200	40	3				○	324954
324956	RT10RC25-26-150-2T	26	25	150	25	2				○	324956
324958	RT10RC25-26-150-3T	26	25	150	25	3				○	324958
324960	RT10RC25-26-200-2T	26	25	200	25	2				○	324960
324962	RT10RC25-26-200-3T	26	25	200	25	3				○	324962
324964	RT10RC32-32-150-4T	32	32	150	40	4				○	324964
324966	RT10RC32-32-150-5T	32	32	150	40	5				○	324966
324968	RT10RC32-32-200-4T	32	32	200	40	4				○	324968
324970	RT10RC32-32-200-5T	32	32	200	40	5				○	324970
324972	RT10RC32-33-150-4T	33	32	150	35	4				○	324972
324974	RT10RC32-33-150-5T	33	32	150	35	5				○	324974
324976	RT10RC32-33-200-4T	33	32	200	35	4				○	324976
324978	RT10RC32-33-200-5T	33	32	200	35	5				○	324978
324980	RT10RC32-35-150-4T	35	32	150	35	4				○	324980
324982	RT10RC32-35-150-5T	35	32	150	35	5				○	324982
324984	RT10RC32-35-200-4T	35	32	200	35	4				○	324984
324986	RT10RC32-35-200-5T	35	32	200	35	5				○	324986

■ RT 直角台肩立铣刀
Shoulder/Cutting End Mills(RT)

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04



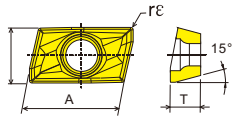


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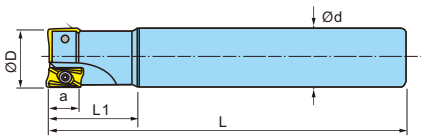
型 号 Cat. No	尺 寸 Size D	L	d	M	Teeth	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
RT07R102M05	10	18	5.5	M5	2	RT070204R81	--	M2.0×4	T6	○	325200	325200
RT07R112M05	11	18	5.5	M5	2					○	325202	325202
RT07R122M06	12	20	6.5	M6	2					○	325204	325204
RT07R132M06	13	20	6.5	M6	2					○	325206	325206
RT10R162M08	16	30	8.5	M8	2	RT1003	--	M2.5×6	T8	○	325208	325208
RT10R172M08	17	30	8.5	M8	2					○	325210	325210
RT10R203M10	20	30	10.5	M10	3					○	325212	325212
RT10R212M10	21	30	10.5	M10	2					○	325214	325214
RT10R213M10	21	30	10.5	M10	3					○	325216	325216
RT10R253M12	25	35	12.5	M12	3					○	325218	325218
RT10R263M12	26	35	12.5	M12	3					○	325220	325220
RT10R324M16	32	43	17	M16	4					○	325222	325222
RT10R325M16	32	43	17	M16	5					○	325224	325224
RT10R334M16	33	43	17	M16	4					○	325226	325226
RT10R354M16	35	43	17	M16	4					○	325228	325228
RT10R355M16	35	43	17	M16	5					○	325230	325230

XOMX 直角台肩 有孔 铣削刀片

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD CBN-K CBN-S ZN60 ZK01 ZC32S ZP201 ZP150 ZP152 ZP153 ZP163
直角台肩铣削 Right Angle Milling			XOMX 060208FR-E03	0.8	6.94	4.09	2.45	刀柄 : (Toolholder) D26	• • • • • • • •
			060208R-M05	0.8	6.94	4.09	2.45		
			090308FR-E05	0.8	10.8	6.35	3.65		
			120408TR-M06	0.8	11.41	8.18	4.15		

■ T217.69 直角台肩精铣刀
Right Angle Shoulder Fine Milling Cutter



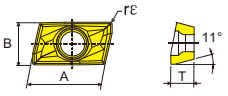




切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	L	L1	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
T217.69RC8-8-100-1T	8	8	100	25	XOMX060208	M1.8×4	T6	•	325300	130
T217.69RC10-10-130-2T	10	10	130	30				•	325302	150
T217.69RC10-11-130-2T	11	10	130	-				•	325304	150
T217.69RC12-12-130-2T	12	12	130	30				•	325306	160
T217.69RC12-13-130-2T	13	12	130	-				•	325308	160
T217.69RC16-16-160-2T	16	16	160	40				•	325310	175
T217.69RC16-17-160-2T	17	16	160	-				•	325312	175
T217.69RC20-20-160-2T	20	20	160	40	XOMX090308	M2.5×5.5	T8	•	325314	185
T217.69RC20-21-160-2T	21	20	160	-				•	325316	185
T217.69RC25-25-160-2T	25	25	160	50	XOMX120408	M3.5×8	T15	•	325318	190
T217.69RC25-25-200-2T	25	25	200	60				•	325320	200
T217.69RC25-26-160-2T	26	25	160	-				•	325322	190
T217.69RC25-26-200-2T	26	25	200	-				•	325324	200

AOMT 直角台肩 有孔 铣削刀片

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			AOMT 123602PEER-M	0.2	12	6.6	3.6	刀柄：(Toolholder) D27							•			
			123604PEER-M	0.4											•			
			123608PEER-M	0.8											•			
			123612PEER-M	1.2														
			123616PEER-M	1.6														
			123620PEER-M	2.0														
			123624PEER-M	2.4														
			123632PEER-M	3.2														

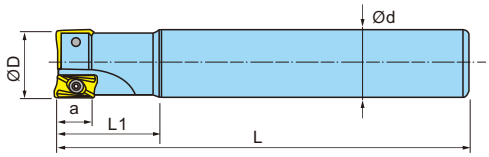
刀杆刀盘
直角台肩立铣刀
圆角铣刀
球头铣刀
钻铣刀杆
倒角刀杆
玉米铣刀
三面刃槽刀
快进给系列
龙门平面铣刀
锁牙式刀柄

■ EPX3000 直角台肩精铣刀

Right Angle Shoulder Fine Milling Cutter



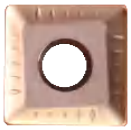
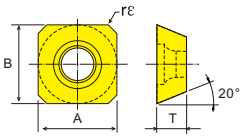




切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	L	L1	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
EPX3000RC16-12-85-1T	12	16	85	25	AOMT12306	M2.5×6	T8	•	326200	130
EPX3000RC16-14-85-1T	14	16	85	25				•	326202	130
EPX3000RC16-16-85-2T	16	16	85	25				•	326204	130
EPX3000RC16-16-160-2T	16	16	160	30				•	326206	150
EPX3000RC16-16-180-2T	16	16	180	40				•	326208	180
EPX3000RC16-17-90-2T	17	16	90	25				•	326210	130
EPX3000RC16-17-120-2T	17	16	120	30				•	326212	150
EPX3000RC16-17-160-2T	17	16	160	30				•	326214	160
EPX3000RC16-17-200-2T	17	16	200	40				•	326216	180
EPX3000RC16-18-120-2T	18	16	120	25				•	326218	160
EPX3000RC20-20-100-3T	20	20	100	30				•	326220	175
EPX3000RC20-20-150-2T	20	20	150	35				•	326222	190
EPX3000RC20-20-200-2T	20	20	200	45				•	326224	220
EPX3000RC25-25-120-3T	25	25	120	35				•	326226	185
EPX3000RC25-25-120-4T	25	25	120	35				•	326228	200
EPX3000RC25-25-160-3T	25	25	160	35				•	326230	190
EPX3000RC25-25-160-4T	25	25	160	35				•	326232	220
EPX3000RC25-26-120-3T	26	25	120	35				•	326234	185
EPX3000RC25-26-120-4T	26	25	120	35				•	326236	200
EPX3000RC25-26-160-3T	26	25	160	35				•	326238	190
EPX3000RC25-26-160-4T	26	25	160	35				•	326240	220
EPX3000RC25-26-200-3T	26	25	200	45				•	326242	210
EPX3000RC25-26-200-4T	26	25	200	45				•	326244	240
EPX3000RC25-28-170-3T	28	25	170	45				•	326246	200
EPX3000RC25-30-120-4T	30	25	120	45				•	326248	200
EPX3000RC32-30-125-4T	30	32	125	45				•	326250	200
EPX3000RC32-32-125-3T	32	32	125	45				•	326252	210
EPX3000RC32-32-125-4T	32	32	125	45				•	326254	235
EPX3000RC32-32-125-5T	32	32	125	45				•	326256	250
EPX3000RC32-40-125-3T	40	32	125	45				•	326258	230
EPX3000RC32-40-125-4T	40	32	125	45				•	326260	250
EPX3000RC32-40-125-5T	40	32	125	45				•	326262	280

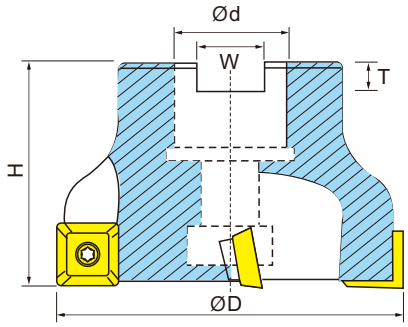
SE.. 直角台肩 有孔 铣削刀片

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	CNGN	ZKD1	ZP201S	ZP201	ZP151	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			SEET 09T308PER-PF	0.8	9.525	9.525	4.01	刀柄: (Toolholder) D28							•	•	•	•	
			09T308PER-PM	0.8	9.525	9.525	4.01								•	•	•	•	
			09T308PER-PR	0.8	9.525	9.525	4.01								•	•	•	•	
			SEET 120308PER-PF	0.8	13.308	13.308	4.04								•	•	•	•	
			120308PER-PM	0.8	13.308	13.308	4.04								•	•	•	•	
			120308PER-PR	0.8	13.308	13.308	4.04								•	•	•	•	

■ FMP02R-90° 面铣刀盘

Face Milling Cutter





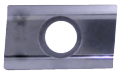
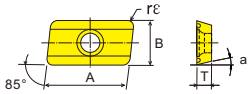
- 可用于插铣、平面、台阶面、槽加工
- 低切削力，大前角，切削轻快
- 产生产率，高精度

★ Can be used to insert milling, flat, level surface, groove
★ Low cutting force, large rake angle, cutting light
★ High productivity, high-precision

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型号 Cat. No		尺寸 Size D	d	H	W	T	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
FMP02R	50-22-4T	50	22	40	10.4	6.3				•	326400	300
	63-22-5T	63	22	40	10.4	6.3				•	326402	350
	80-27-6T	80	27	50	12.4	7				•	326404	450
	100-32-8T	100	32	50	14.4	8				•	326406	750
FMP02R	50-22-3T	50	22	40	10.4	6.3				•	326408	500
	50-22-4T	50	22	40	10.4	6.3				•	326410	550
	50-22-5T	50	22	40	10.4	6.3				•	326412	600
	63-22-4T	63	22	40	10.4	6.3				•	326414	600
	63-22-5T	63	22	40	10.4	6.3				•	326416	650
	63-22-6T	63	22	40	10.4	6.3				•	326418	700
	80-27-4T	80	27	50	12.4	7				•	326420	700
	80-27-6T	80	27	50	12.4	7				•	326422	750
	80-27-8T	80	27	50	12.4	7				•	326424	800
	100-32-5T	100	32	50	14.4	8	SEET120308	M3.5×10	T15	•	326426	800
	100-32-7T	100	32	50	14.4	8				•	326428	850
	100-32-10T	100	32	50	14.4	8				•	326430	900
	125-40-6T	125	40	63	16.4	9				•	326432	1000
	125-40-8T	125	40	63	16.4	9				•	326434	1100
	125-40-12T	125	40	63	16.4	9				•	326436	1200
	160-40-8T	160	40	63	16.4	9				•	326438	1300
	160-40-12T	160	40	63	16.4	9				•	326440	1400
	200-60-16T	200	60	63	25.7	14				•	326442	1600
	250-60-12T	250	60	63	25.7	14				•	326444	2000
	250-60-18T	250	60	63	25.7	14				•	326446	2500
	315-60-24T	315	60	63	25.7	14				•	326448	3000

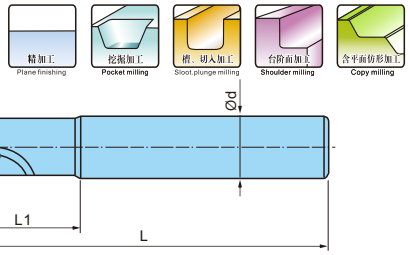
APNT ADNT 直角台肩有孔铣削刀片

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN01	ZC01	ZP25	ZP151	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			APET 120202SR	0.2	12.7	7.938	2.5	11°	刀柄：(Toolholder) D29						•	•	•		
			120204SR	0.4	12.7	7.938	2.5	11°											
			120208SR	0.8	12.7	7.938	2.5	11°											
			APNT 120208SR	0.8	12.7	7.938	2.5	11°											
			ADET 160302SR	0.2	15.875	9.525	3.18	15°											
			160304SR	0.4	15.875	9.525	3.18	15°											
			160308SR	0.8	15.875	9.525	3.18	15°											
			ADNT 160308SR	0.8	15.875	9.525	3.18	15°							•	•	•		

■ UEX 直角台肩精铣刀

Right Angle Shoulder Fine Milling Cutter



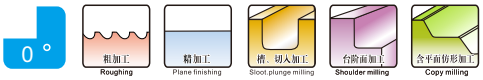


☞ 切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	L	L1	L2	a	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
UEX12RC12-12-150-1T	12	12	150	40	-	12	AP□T1202	M3.5×8	T15	•	326700	100
UEX12RC16-16-160-1T	16	16	160	50	-	12				•	326702	100
UEX12RC16-17-160-1T	17	16	160	40	-	12				•	326704	100
UEX12RC16-20-120-2T	20	16	160	50	-	12				•	326706	120
UEX12RC20-20-160-2T	20	20	120	40	-	12				•	326708	135
UEX12RC20-20-200-2T	20	20	200	50	100	12				•	326710	135
UEX12RC20-21-160-2T	21	20	160	40	-	12				•	326712	120
UEX16RC20-25-130-2T	25	20	130	40	-	15	AD□T1603	M4×7.5	T15	•	326714	150
UEX16RC25-25-160-2T	25	25	160	50	-	15				•	326716	140
UEX16RC25-25-200-2T	25	25	200	50	-	15				•	326718	150
UEX16RC25-25-250-2T	25	25	250	75	-	15				•	326720	165
UEX16RC25-26-200-2T	26	25	200	50	-	15				•	326722	150
UEX16RC25-30-160-3T	30	25	160	50	-	15				•	326724	180
UEX16RC25-30-200-3T	30	25	200	50	-	15				•	326726	190
UEX16RC25-30-250-3T	30	25	250	75	-	15				•	326728	210

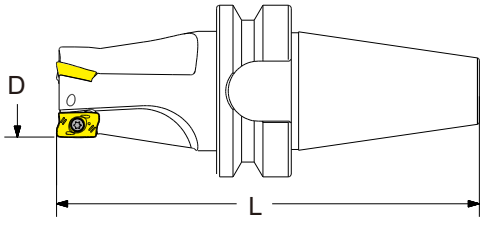
■ EDC10 一体式高速强力方肩铣刀

EDC10 Integrated High Strength Square Shoulder Milling Cutter



☞ 切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04



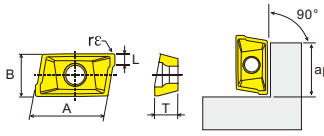
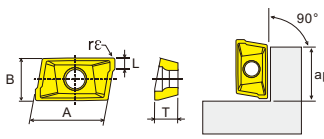
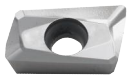
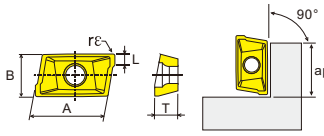


- 一体式刚性结构，轻量化，更具高速性能。
- 通过选用不同材质刀粒，可通用于钢及铜铝合金的粗精加工，适用范围广，高效率，高刚性！

★ Lightweight one-piece rigid structure, high performance, more.
★ Through the selection of different material grain, can be used in the steel and copper aluminum alloyThe coarse and fine processing, wide application range, high efficiency, high rigidity!

型 号 Cat. No	刃数 Blade number	总长L Long	直径 D Diameter	刀 片 Insert	Stock	Order Number	Price (RMB)
BT30-EDC10-16-2T	2	60	16	EDCT10T308	•	326900	950
BT30-EDC10-20-2T	2	65	20		•	326902	950
BT30-EDC10-25-3T	3	75	25		•	326904	1000
BT30-EDC10-32-4T	4	90	32		•	326906	1150
BT40-EDC10-16-2T	2	60	16		•	326908	1000
BT40-EDC10-20-2T	2	65	20		•	326910	1000
BT40-EDC10-25-3T	3	75	25		•	326912	1150
BT40-EDC10-32-4T	4	90	32		•	326914	1250

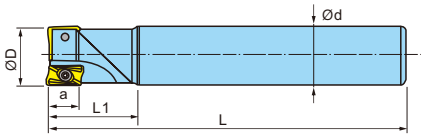
AXMT 直角台肩 有孔 铣削刀片

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	ap	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZN01	ZC325	ZP201	ZP150	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			AXMT 0602PER-EM 060204R-EM 060208R-EM 060216R-EM	0.2 0.4 0.8 1.6	6 6 6 6	4.15 4.15 4.15 4.15	2.6 2.6 2.6 2.6	1.0 1.0 1.0 1.0	5.75 5.75 5.75 5.75	刀柄 : (Toolholder) D30				•	•		•	•	•	•	•
直角台肩铣削 Right Angle Milling			AXMT 0903PER-ML 0903PER-EML 090308R-EML 090316R-ML 090320R-EML 090332R-EML	0.4 0.4 0.8 1.6 2.0 3.2	9.5 9.5 9.5 9.5 9.5 9.5	6.21 6.21 6.21 6.21 6.21 6.21	3.6 3.6 3.6 3.6 3.6 3.6	1.4 0.84 - - - -	8.8 8.8 8.8 8.8 8.8 8.8	刀柄 : (Toolholder) D30				•	•		•	•	•	•	•
直角台肩铣削 Right Angle Milling	 铝专用 Special for Aluminum		AXCT 060202R-AL 060204R-AL 0903PER-AL	0.2 0.4 0.4	6 6 9.5	4.15 4.15 6.21	2.6 2.6 3.6	0.83 0.83 0.83	5.75 5.75 8.8	刀柄 : (Toolholder) D30				•							

■ TE90 直角台肩精铣刀

Right Angle Shoulder Fine Milling Cutter



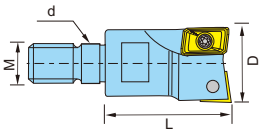


■ TE90 锁牙式铣刀头

Lock type milling head

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

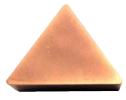
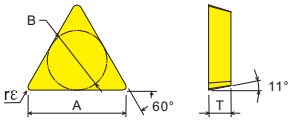
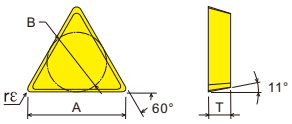




型号 Cat. No	尺寸 Size D	d	L	L1	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
TE90AX06RC08-08-120-1T	8	8	120	20	AXMT0602..	M1.8×4	T6	•	325800	160
TE90AX06RC10-10-75-2T	10	10	75	20				•	325802	180
TE90AX06RC10-10-120-2T	10	10	120	20				•	325804	180
TE90AX06RC10-11-120-2T	11	10	120	20				•	325806	180
TE90AX06RC12-12-150-2T	12	12	150	20				•	325808	180
TE90AX06RC12-13-150-3T	13	12	150	20				•	325810	180
TE90AX06RC16-16-150-3T	16	16	150	20				•	325812	200
TE90AX06RC16-16-150-4T	16	16	150	20				•	325814	220
TE90AX06RC16-17-150-3T	17	16	150	20				•	325816	200
TE90AX06RC16-17-150-4T	17	16	150	20				•	325818	220
TE90AX09RC12-12-150-1T	12	12	150	20	AXMT0903..	M2.5×6	T8	•	325820	180
TE90AX09RC12-14-150-1T	14	12	150	20				•	325822	190
TE90AX09RC16-16-150-2T	16	16	150	25				•	325824	180
TE90AX09RC16-17-150-2T	17	16	150	25				•	325826	180
TE90AX09RC20-18-150-2T	18	20	150	30				•	325828	220
TE90AX09RC20-20-150-3T	20	20	150	30				•	325830	200
TE90AX09RC20-21-150-3T	21	20	150	30				•	325832	200
TE90AX09RC25-25-150-3T	25	25	150	30				•	325834	230
TE90AX09RC25-25-150-4T	25	25	150	30				•	325836	260
TE90AX09RC25-26-150-3T	26	25	150	30				•	325838	230
TE90AX09RC32-32-150-4T	32	32	150	35				•	325840	280
TE90AX09RC32-35-150-4T	35	32	150	35				•	325842	320

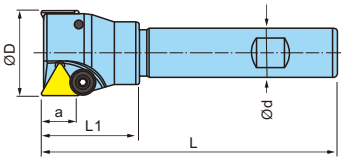
型 号 Cat. No	尺 寸 Size D	L	d	M	Teeth	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
TE90AX06R091M04	9	14	4.5	M4	1	AXMT0602..	-	M1.8×4	T6	•	325900	300
TE90AX06R112M05	11	16	5.5	M5	2					•	325902	300
TE90AX06R133M06	13	18	6.5	M6	3					•	325904	320
TE90AX06R174M08	17	23	8.5	M8	4					•	325906	350
TE90AX09R172M08	17	23	8.5	M8	2	AXMT0903..	-	M2.5×6	T8	•	325908	320
TE90AX09R213M10	21	30	10.5	M10	3					•	325910	320
TE90AX09R263M12	26	35	12.5	M12	3					•	325912	350
TE90AX09R353M16	35	43	17	M16	3					•	325914	380

TPKN TPKR 直角/倒角 无孔 铣削刀片

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN01	ZC01	ZC02S	ZP201	ZP151	ZP152	ZP153	ZP163
平面铣削 / 倒角加工 Plane milling / chamfering			TPKN 110304	0.4	11	6.35	3.18	刀柄: (Toolholder) D31		•		•	•	•	•	•	•	•	•
			110308	0.8	11	6.35	3.18			•		•	•	•	•	•	•	•	•
			160304	0.4	16.5	9.525	3.18			•		•	•	•	•	•	•	•	•
			160308	0.8	16.5	9.525	3.18			•		•	•	•	•	•	•	•	•
			220404	0.4	22	12.7	4.76			•		•	•	•	•	•	•	•	•
			220408	0.8	22	12.7	4.76			•		•	•	•	•	•	•	•	•
			220412	1.2	22	12.7	4.76			•		•	•	•	•	•	•	•	•
			2204PDR	-	22	12.7	4.76			•		•	•	•	•	•	•	•	•
平面铣削 / 倒角加工 Plane milling / chamfering			TPMR 090204	0.4	9.6	5.56	2.38	刀柄: (Toolholder) D31		•		•	•	•					
			110304	0.4	11	6.35	3.18			•		•	•	•					
			110308	0.8	11	6.35	3.18			•		•	•	•					
			160304	0.4	16.5	9.525	3.18			•		•	•	•					
			160308	0.8	16.5	9.525	3.18			•		•	•	•					
			160312	1.2	16.5	9.525	3.18			•		•	•	•					
			220412	1.2	22	12.7	4.76			•		•	•	•					
			330916	1.6	33	19.05	9.52			•		•	•	•					

TP 台肩立铣刀
Shoulder End Mill





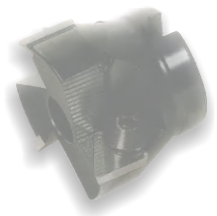
●配备传统刀片，切削成本低

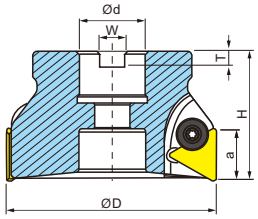
★ Equipped with a traditional blade, cutting low-cost

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	L	L1	a	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
TP11RC16-16-100	16	16	100	45	10	TP□N1103	TP-11	3/16伞形	L3	•	325500	150
TP11RC20-20-100	20	20	100	45	10					•	325502	150
TP11RC20-25-130	25	20	130	45	10					•	325504	150
TP16RC20-30-100	30	20	100	45	14	TP□N1603	TP-16	1/4伞形	L4	•	325506	150
TP16RC20-35-100	35	20	100	45	14					•	325508	150
TP16RC32-35-110	35	32	110	45	14					•	325510	150
TP16RC20-40-110	40	20	110	45	14					•	325512	150
TP16RC25-40-110	40	25	110	45	14					•	325514	150
TP16RC32-40-115	40	32	115	45	14					•	325516	150
TP16RC20-50-110	50	20	110	45	14					•	325518	200
TP22RC20-50-110	50	20	110	42	20	TP□N2204	TP-22	5-16伞形	L5	•	325520	200
TP22RC32-50-115	50	32	115	42	20					•	325522	200
TP22RC25-63-110	63	25	110	42	20					•	325524	250
TP22RC32-80-130	80	32	130	42	20					•	325526	335

TP 直角台肩面铣刀盘
Right Angle Shoulder Milling Cutter





●配备传统刀片，切削成本低

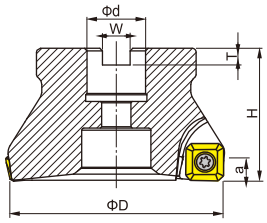
★ Equipped with a traditional blade, cutting low-cost

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	H	W	T	a	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
TP11R40-16-4T	40	16	45	8.4	5.6	9	TP□N1103	TP-11	3/16伞形	L3	•	325600	-	160
TP11R50-22-4T	50	22	50	10.4	6.3	9					•	325602	-	160
TP16R50-22-4T	50	22	50	10.4	6.3	14	TP□N1603	TP-16	1/4伞形	L4	•	325604	-	160
TP22R50-22-3T	50	22	50	10.4	6.3	18	TP□N2204	TP-22	5/16伞形	L5	•	325606	250	-
TP22R63-22-3T	63	22	50	10.4	6.3	18					•	325608	283	160
TP22R80-27-4T	80	27	50	12.4	7	18					•	325610	417	270
TP22R100-32-5T	100	32	50	14.4	8	18					•	325612	600	425
TP22R125-40-6T	125	40	60	16.4	9	18					•	325614	1000	540
TP22R160-40-7T	160	40	63	16.4	9	18					•	325616	-	850
TP22R200-60-8T	200	60	63	25.7	14	18					•	325618	-	1350
TP22R63-25.4-3T	63	25.4	50	10	6	18					•	325620	-	160
TP22R80-25.4-4T	80	25.4	50	10	6	18					•	325622	-	270
TP22R100-31.75-6T	100	31.75	50	13	8	18					•	325624	-	425
TP22R125-38.1-6T	125	38.1	60	16.2	10	18					•	325626	-	540
TP22R160-38.1-7T	160	38.1	63	16.2	10	18					•	325628	-	850
TP22R200-47.625-8T	200	47.625	63	25.4	14.3	18					•	325630	-	1350

SSD90 直角台肩面铣刀盘
SSD90 Right Angle Step Face Milling Cutter



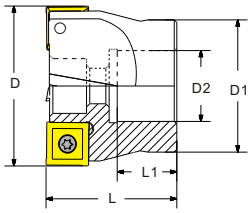


切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型 号 Cat. No	刃数 Blade number	直径 D Diameter	内径 d Inside diameter	端面直径 End face diameter	总长 H Long	沉头位直径 Countersunk head diameter	刀 片 Insert	Stock	Order Number	Price (RMB)
SSD90R50-22-4T	4	50	22	41	40	17	SDMT1204PDER SDHW1204PDTR	●	327100	280
SSD90R63-22-5T	5	63	22	50	40	17		●	327102	300
SSD90R80-27-6T	6	80	27	60	50	37		●	327104	450
SSD90R100-32-8T	8	100	32	70	50	43		●	327106	680
SSD90R125-40-10T	10	125	40	80	63	57		●	327108	850

ASX400 直角台肩面铣刀盘
ASX400 Right Angle Step Face Milling Cutter



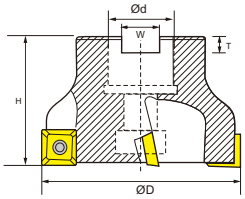


切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型 号 Cat. No	刃数 Blade number	直径 D Diameter	总长 L Long	内径 D2 Inside diameter	端面直径 End face diameter	刀 片 Insert	Stock	Order Number	Price (RMB)
ASX400R50-22-4T	4	50	40	22	41	SPMT12T308	●	327200	300
ASX400R63-22-5T	5	63	40	22	50		●	327202	350
ASX400R80-27-6T	6	80	50	27	60		●	327204	450
ASX400R100-32-7T	7	100	50	32	70		●	327206	700
ASX400R125-40-8T	8	125	63	40	80		●	327208	850
ASX400R160-40-10T	10	160	63	40	100		●	327210	1300

WFX12 直角台肩面铣刀盘
WFX12 Right Angle Shoulder Face Mill





- 可用于插铣，平面、台阶面、槽加工
- 低切削力，大前角，切削轻快
- 高生产率，高精度

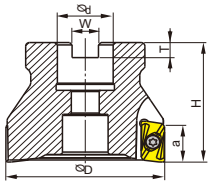
★ Can be used to insert milling, flat, level surface, groove
★ Low cutting force, large rake angle, cutting light
★ High productivity, high-precision

切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型 号 Cat. No	刃 数 No.of flutes	尺 寸 Size					刀 片 Insert	Stock	Order Number	Price (RMB)
		D	d	H	W	T				
WFX12R50-22-4T	4	50	22	40	10.4	6.3	SOMT120408PDER	●	327300	300
WFX12R63-22-5T	5	63	22	40	10.4	6.3		●	327302	350
WFX12R80-27-6T	6	80	27	50	12.4	7		●	327304	580
WFX12R100-32-6T	6	100	32	50	14.4	8		●	327306	900
WFX12R125-40-7T	7	125	40	63	16.4	9		●	327308	1000

WFX17 直角台肩面铣刀盘
WFX17 Right Angle Shoulder Face Mill





- 可用于插铣，平面、台阶面、槽加工
- 低切削力，大前角，切削轻快
- 高生产率，高精度

★ Can be used to insert milling, flat, level surface, groove
★ Low cutting force, large rake angle, cutting light
★ High productivity, high-precision

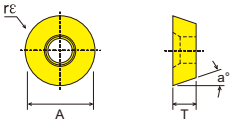
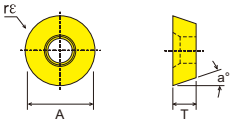
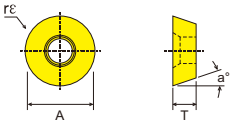
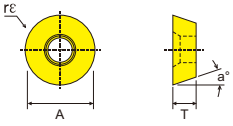
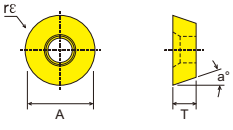
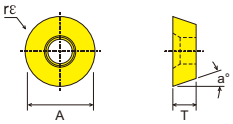
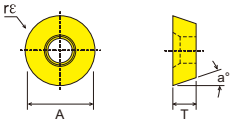
切削参数 (Cutting Parameters): R17-R20
零配件 (Spare Parts): P01-P04

型 号 Cat. No	刃 数 No.of flutes	尺 寸 Size					刀 片 Insert	螺 钉 Clamp screw	扳 手 wrench	Stock	Order Number	Price (RMB)
		D	d	H	W	T						
WEX17R50-22-4T	4	50	22	40	10.4	6.3	AXMT170508PEER-G	M3×7	T8	●	327400	280
WEX17R63-22-4T	4	63	22	40	10.4	6.3				●	327402	315
WEX17R80-27-6T	6	80	27	50	12.4	7				●	327404	550
WEX17R100-32-8T	8	100	32	50	14.4	8				●	327406	800
WEX17R125-40-10T	10	125	40	63	16.4	9				●	327408	1050
WEX17R160-40-12T	12	160	40	63	16.4	9				●	327410	1450

RP.. 11°后角圆形 有孔单面 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	T	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
圆角铣削加工 Fillet milling			RPGT 08T2-AL 1003-AL 10T3-AL 1204-AL	4 5 5 6	8 10 10 12	2.78 3.15 3.97 4.76	11° 11° 11° 11°	刀柄： (Toolholder) D34-D36			●	●	●	●					
圆角铣削加工 Fillet milling			RPEW 0802MO 1003MO 1003MO-DU 1204MOF	4 5 5 6	8 10 10 12	2.38 3.15 3.97 4.76	11° 11° 11° 11°	刀柄： (Toolholder) D34-D36			●	●	●	●	●	●	●	●	●
圆角铣削加工 Fillet milling			RPKT 10T3MOF 1204MOF	5 6	10 12	3.97 4.76	11° 11°	刀柄： (Toolholder) D34-D36							●	●	●	●	●
圆角铣削加工 Fillet milling			RPKT 10T3MOT 1204MOT	5 6	10 12	3.97 4.76	11° 11°	刀柄： (Toolholder) D34-D36							●	●	●	●	●
圆角铣削加工 Fillet milling			RPMT 08T2MOE-JS 1003MOE-JS 10T3MOE-JS 1204MOE-JS	4 5 5 6	8 10 10 12	2.78 3.18 3.97 4.76	11° 11° 11° 11°	刀柄： (Toolholder) D34-D36				●			●	●	●	●	●
圆角铣削加工 Fillet milling			RPMT 10T3MO-DU 1204MO-DU	5 6	10 12	3.97 4.76	11° 11°	刀柄： (Toolholder) D34-D36								●	●	●	●
圆角铣削加工 Fillet milling			RPMT 08T2MO-GH 10T3MO-GH 1204MO-GH	4 5 6	8 10 12	2.78 3.97 4.76	11° 11° 11°	刀柄： (Toolholder) D34-D36								●	●	●	●

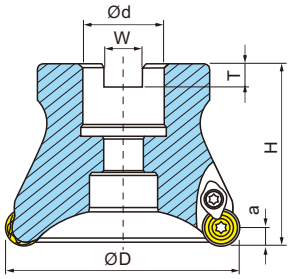
■ EMRW 圆鼻面铣刀盘

Round Nose Milling Cutter



- 使用15° 正角刀片
- 刀片经济，适用性强
- 容屑空间大，排屑好
- 锥形设计，钢性高

★ Using the 15 ° positive angle blade
★ Blade economy, the applicability of high
★ Capacity chip a large space, good chip disposal
★ Cone design, steel high



☞ 切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04

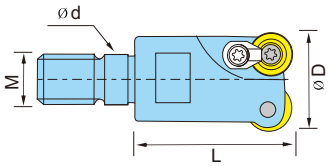
型号 Cat. No	尺寸 Size						刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
	D	d	H	W	T	a								
EMR5R50-22-4T	50	22	50	10.4	6.3	5	RPMW 1003 MO RPMT 10T3 MOE	Y-5R	M4×10 M3.5×10	T15	●	327600	167	200
EMR5R63-22-4T	63	22	50	10.4	6.3	5					●	327602	200	225
EMR5R80-27-6T	80	27	50	12.4	7	5					●	327604	307	350
EMR5R100-32-6T	100	32	50	14.4	7	5					●	327606	483	540
EMR5R125-40-7T	125	40	63	16.4	9	5					●	327608	767	750
EMR5R160-40-8T	160	40	63	16.4	9	5					●	327610	867	1150
EMR5R50-25.4-4T	50	25.4	50	10	6	5					●	327612	167	-
EMR5R63-25.4-4T	63	25.4	50	10	6	5					●	327614	200	225
EMR5R80-25.4-6T	80	25.4	50	10	6	5					●	327616	333	350
EMR5R100-31.75-6T	100	31.75	50	13	8	5					●	327618	500	540

型号 Cat. No	尺寸 Size						刀片 Insert	压板Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
	D	d	H	W	T	a								
EMRW6R50-22-4T	50	22	50	10.4	6.3	6	RPMT1204 MO RPMW1204 MO	Y-6R	M4×10	T15	●	328100	167	200
EMRW6R63-22-4T	63	22	50	10.4	6.3	6					●	328102	200	225
EMRW6R80-27-6T	80	27	50	12.4	7	6					●	328104	307	350
EMRW6R100-32-6T	100	32	50	14.4	7	6					●	328106	483	540
EMRW6R125-40-7T	125	40	63	16.4	9	6					●	328108	767	750
EMRW6R160-40-8T	160	40	63	16.4	9	6					●	328110	867	1150
EMRW6R200-60-9T	200	60	63	25.7	14	6					●	328112	1833	1600
EMRW6R250-40-12T	250	40	63	25.7	14	6					●	328114	2500	-
EMRW6R300-60-14T	300	60	63	25.7	14	6					●	328116	3000	-
EMRW6R50-25.4-4T	50	25.4	50	10	6	6					●	328118	167	-
EMRW6R63-25.4-4T	63	25.4	50	10	6	6					●	328120	200	225
EMRW6R80-25.4-6T	80	25.4	50	10	6	6					●	328122	333	350
EMRW6R100-31.75-6T	100	31.75	50	13	8	6					●	328124	500	540

■ EMRM 圆刃立铣刀

Corner Rounding End Mills(EMRM)





■ 圆刀片切削刃强度高
系列产品品种丰富
最适合模具材料加工

■ Circular blade cutting edge strength is high.
Series of products rich variety.
The most suitable mold materials processing.

☞ 切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04

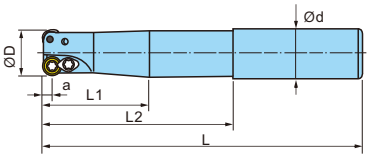
型 号 Cat. No	尺 寸 Size				Teeth	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	L	d	M								
EMRM4R162M8	16	35	8.5	M8	2	RPMW0802MO	Y-4R	M3X7	T8	●	327700	150
EMRM4R172M8	17	35	8.5	M8	2					●	327702	150
EMRM4R202M10	20	35	10.5	M10	2					●	327704	160
EMRM4R212M10	21	35	10.5	M10	2					●	327706	160
EMRM5R202M10	20	35	10.5	M10	2	RPMW1003MO	Y-5R	M4X10 M3.5X10	T15	●	327708	160
EMRM5R212M10	21	35	10.5	M10	2					●	327710	160
EMRM5R252M12	25	35	12.5	M12	2					●	327712	200
EMRM5R262M12	26	40	12.5	M12	2					●	327714	200
EMRM5R302M16	30	40	17	M16	2					●	327716	300
EMRM5R353M16	35	40	17	M16	3					●	327717	300
EMRM6R302M16	30	40	17	M16	2	RPMT1204MO	Y-6R	M4X10	T15	●	327718	300
EMRM6R353M16	35				3					●	327719	300

■ EMR 圆鼻立铣刀

Round Nose End Mill







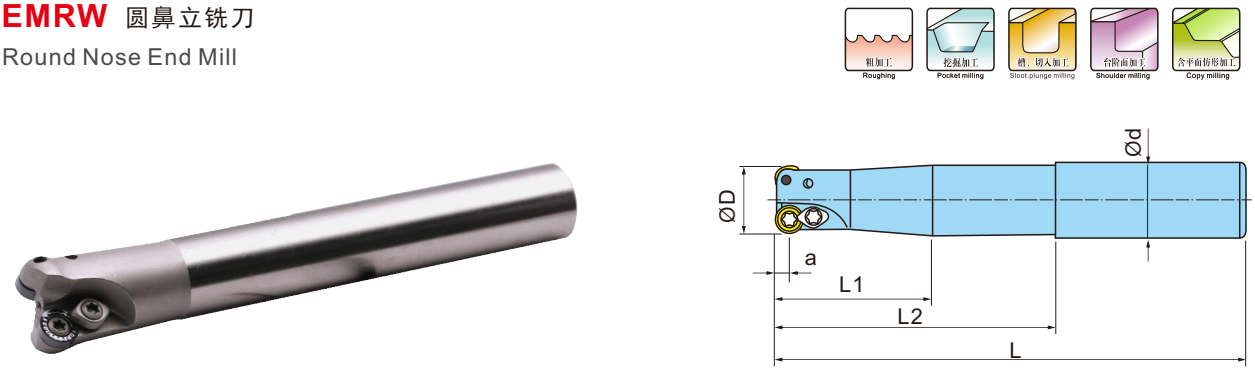
切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04

●适配多种经济型刀片，性价比高。

★ Fit a variety of economic-type blade, cost-effective

型号 Cat. No	尺寸 Size						刃数 No. of flutes	刀片 Insert	螺钉 Screw	压板 Clamp	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
	D	d	L	L1	L2	a									
EMR4RC10-10-120-1T	10	10	120	30	-	4	1					●	327500	67	-
EMR4RC12-12-130-1T	12	12	130	40	-	4	1			无		●	327502	67	100
EMR4RC12-13-130-1T	13	12	130	40	-	4	1					●	327504	67	100
EMR4RC15-16-150-2T	16	15	150	40	-	4	2					●	327506	-	110
EMR4RC15-16-200-2T	16	15	200	50	-	4	2					●	327508	-	140
EMR4RC16-16-130-2T	16	16	130	40	-	4	2					●	327510	-	110
EMR4RC16-16-150-2T	16	16	150	50	-	4	2					●	327512	83	110
EMR4RC16-16-200-2T	16	16	200	60	100	4	2					●	327514	100	140
EMR4RC16-17-150-2T	17	16	150	50	-	4	2	RPMT0802..	M3×7	Y-4R	T10	●	327516	83	110
EMR4RC16-17-200-2T	17	16	200	60	-	4	2					●	327518	100	140
EMR4RC19-20-150-2T	20	19	150	40	-	4	2					●	327520	100	130
EMR4RC19-20-200-2T	20	19	200	40	-	4	2					●	327522	117	145
EMR4RC20-20-150-2T	20	20	150	50	-	4	2					●	327524	100	130
EMR4RC20-20-200-2T	20	20	200	60	100	4	2					●	327526	117	145
EMR4RC25-20-250-2T	20	25	250	60	-	4	2					●	327528	167	-
EMR4RC20-21-150-2T	21	20	150	50	-	4	2					●	327530	100	-
EMR4RC20-21-200-2T	21	20	200	60	-	4	2					●	327532	117	-
EMR5RC19-20-150-2T	20	20	150	50	-	5	2					●	327534	100	-
EMR5RC19-20-200-2T	20	19	200	60	-	5	2					●	327536	117	-
EMR5RC20-20-150-2T	20	19	150	40	-	5	2					●	327538	100	130
EMR5RC20-20-200-2T	20	20	200	50	100	5	2					●	327540	117	145
EMR5RC20-21-150-2T	21	20	150	50	-	5	2					●	327542	100	130
EMR5RC20-21-200-2T	21	20	200	60	-	5	2					●	327544	117	145
EMR5RC20-25-150-2T	25	20	150	50	-	5	2					●	327546	117	100
EMR5RC20-25-200-2T	25	20	200	50	-	5	2					●	327548	127	135
EMR5RC24-25-150-2T	25	24	150	40	-	5	2					●	327550	117	100
EMR5RC24-25-200-2T	25	24	200	50	-	5	2					●	327552	127	135
EMR5RC24-25-250-2T	25	24	250	50	-	5	2					●	327554	117	100
EMR5RC25-25-150-2T	25	25	150	50	-	5	2					●	327556	-	160
EMR5RC25-25-200-2T	25	25	200	60	-	5	2					●	327558	127	135
EMR5RC25-25-250-2T	25	25	250	70	115	5	2					●	327560	167	160
EMR5RC32-25-300-2T	25	32	300	70	-	5	2					●	327562	267	-
EMR5RC25-26-150-2T	26	25	150	50	-	5	2					●	327564	117	100
EMR5RC25-26-200-2T	26	25	200	60	-	5	2					●	327566	127	135
EMR5RC25-26-250-2T	26	25	250	70	-	5	2					●	327568	167	160
EMR5RC25-30-150-2T	30	25	150	48	-	5	2					●	327570	117	110
EMR5RC25-30-200-2T	30	25	200	50	-	5	2	RPMW1003..	M3.5×10	Y-5R	T15	●	327572	133	145
EMR5RC25-30-250-2T	30	25	250	60	-	5	2					●	327574	167	170
EMR5RC25-30-300-2T	30	25	300	60	-	5	2					●	327576	-	200
EMR5RC32-30-300-2T	30	32	300	60	-	5	2					●	327578	-	200
EMR5RC32-35-160-2T	35	32	150	50	-	5	2					●	327580	-	170
EMR5RC32-35-150-3T	35	32	150	50	-	5	3					●	327582	177	180
EMR5RC32-35-200-2T	35	32	200	60	-	5	2					●	327584	-	180
EMR5RC32-35-200-3T	35	32	200	60	-	5	3					●	327586	200	190
EMR5RC32-35-250-2T	35	32	250	70	-	5	2					●	327588	-	190
EMR5RC32-35-250-3T	35	32	250	70	-	5	3					●	327590	233	225
EMR5RC32-35-300-3T	35	32	300	70	-	5	3					●	327592	300	245
EMR5RC32-35-350-3T	35	32	350	70	-	5	3					●	327594	367	275
EMR5RC32-35-400-3T	35	32	400	70	-	5	3					●	327596	500	320
EMR5RC32-40-150-3T	40	32	150	70	-	5	3					●	327598	183	250
EMR5RC32-40-200-3T	40	32	200	70	-	5	3					●	327600	217	260
EMR5RC32-40-250-3T	40	32	250	70	-	5	3					●	327602	250	300
EMR5RC32-40-300-3T	40	32	300	70	-	5	3					●	327604	300	340
EMR5RC32-40-350-3T	40	32	350	70	-	5	3					●	327606	383	380
EMR5RC32-40-400-3T	40	32	400	70	-	5	3					●	327608	500	-
EMR5RC32-50-150-4T	50	32	150	50	-	5	4					●	327610	267	-
EMR5RC32-50-200-4T	50	32	200	50	-	5	4					●	327612	333	-
EMR5RC20-30-110A-2T	30	20	110	30	-	5	2					●	327614	60	-
EMR5RC20-30-110B-2T	30	20	110	30	-	5	2					●	327616	93	70
EMR5RC3/4-30-110-2T	30	3/4	110	30	-	5	2					●	327618	93	70

■ EMRW 圆鼻立铣刀
Round Nose End Mill



●刀片经济，适用性高
●容屑空间大，排屑好

★ Blade economy, the high applicability.
★ Capacity chip a large space, good chip removal.

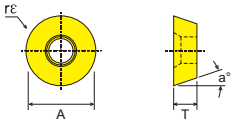
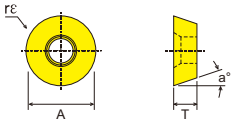
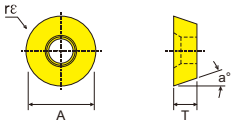
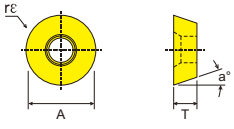
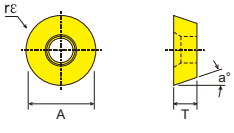
切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size						刃数 No. of flutes	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
	D	d	L	L1	L2	a									
EMRW4RC12-12-130-1T	12	12	130	40	-	4	1	RPMT 08T2MOE	无	M3×7	T10	●	327900	67	-
EMRW4RC12-13-130-1T	13	12	130	40	-	4	1					●	327902	67	-
EMRW4RC15-16-150-2T	16	15	150	40	-	4	2					●	327904	83	-
EMRW4RC15-16-200-2T	16	15	200	40	-	4	2					●	327906	100	-
EMRW4RC16-16-150-2T	16	16	150	50	-	4	2		Y-4R			●	327908	83	-
EMRW4RC16-16-200-2T	16	16	200	60	-	4	2					●	327910	100	-
EMRW4RC16-17-150-2T	17	16	150	50	-	4	2					●	327912	83	-
EMRW4RC16-17-200-2T	17	16	200	60	-	4	2					●	327914	100	-
EMRW4RC19-20-150-2T	20	19	150	40	-	4	2					●	327916	110	-
EMRW4RC19-20-200-2T	20	19	200	40	-	4	2					●	327918	133	-
EMRW4RC20-20-150-2T	20	20	150	50	-	4	2					●	327920	110	-
EMRW4RC20-20-200-2T	20	20	200	60	-	4	2					●	327922	133	-
EMRW4RC20-21-150-2T	21	20	150	50	-	4	2					●	327924	110	-
EMRW4RC20-21-200-2T	21	20	200	60	-	4	2					●	327926	133	-
EMRW5RC25-25-150-2T	25	25	150	50	-	5	2	RPMT10T3MOE	Y-5R	M4×9	T15	●	327928	117	-
EMRW5RC25-25-200-2T	25	25	200	50	-	5	2					●	327930	127	-
EMRW5RC25-25-250-2T	25	25	250	50	-	5	2					●	327932	193	-
EMRW5RC25-30-150-2T	30	25	150	60	-	5	2					●	327934	133	-
EMRW5RC25-30-200-2T	30	25	200	60	-	5	2					●	327936	167	-
EMRW5RC25-30-250-2T	30	25	250	60	-	5	2					●	327938	227	-
EMRW5RC32-35-150-3T	35	32	150	60	-	5	3					●	327940	217	-
EMRW5RC32-35-200-3T	35	32	200	60	-	5	3					●	327942	250	-
EMRW5RC32-35-250-3T	35	32	250	60	-	5	3					●	327944	283	-
EMRW5RC32-35-300-3T	35	32	300	60	-	5	3					●	327946	333	-
EMRW6RC25-32-150-2T	32	25	150	50	-	6	2	RPMW 1204 MO RPMT 1204 MO	Y-6R	M4×10	T15	●	327948	133	165
EMRW6RC25-32-200-2T	32	25	200	55	-	6	2					●	327950	167	175
EMRW6RC25-32-250-2T	32	25	250	60	-	6	2					●	327952	200	190
EMRW6RC32-32-150-2T	32	32	150	50	-	6	2					●	327954	167	165
EMRW6RC32-32-200-2T	32	32	200	50	-	6	2					●	327956	200	175
EMRW6RC32-32-250-2T	32	32	250	60	-	6	2					●	327958	233	190
EMRW6RC32-32-300-2T	32	32	300	60	-	6	2					●	327960	300	-
EMRW6RC32-35-150-2T	35	32	150	50	-	6	2					●	327962	183	-
EMRW6RC32-35-160-3T	35	32	160	50	-	6	3					●	327964	-	210
EMRW6RC32-35-200-2T	35	32	200	50	-	6	2					●	327966	217	-
EMRW6RC32-35-200-3T	35	32	200	50	-	6	3					●	327968	-	215
EMRW6RC32-35-250-2T	35	32	250	60	-	6	2					●	327970	267	-
EMRW6RC32-35-250-3T	35	32	250	60	-	6	3					●	327972	-	230
EMRW6RC32-35-300-2T	35	32	300	60	-	6	2					●	327974	333	-
EMRW6RC32-35-300-3T	35	32	300	60	-	6	3					●	327976	-	260
EMRW6RC32-35-350-3T	35	32	350	60	-	6	3					●	327978	-	300
EMRW6RC32-35-400-3T	35	32	400	60	-	6	3					●	327980	-	350
EMRW6RC32-40-150-3T	40	32	150	50	-	6	3					●	327982	200	250
EMRW6RC32-40-200-3T	40	32	200	50	-	6	3					●	327984	233	260
EMRW6RC32-40-250-3T	40	32	250	60	-	6	3					●	327986	283	300
EMRW6RC32-40-300-3T	40	32	300	60	-	6	3					●	327988	333	340
EMRW6RC32-40-350-3T	40	32	350	60	-	6	3					●	327990	400	380
EMRW6RC32-40-400-3T	40	32	400	60	-	6	3					●	327992	533	-
EMRW6RC32-50-150-4T	50	32	150	50	-	6	4					●	327994	267	340
EMRW6RC32-50-200-4T	50	32	200	50	-	6	4					●	327996	333	380

RC.. 7°后角圆形有孔单面铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

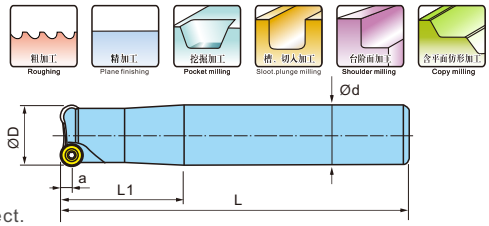
Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	T	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN61	ZK01	ZC232S	ZP201	ZP151	ZP152	ZP153	ZP163
圆角铣削加工 Fillet milling			RCGT 0602-AL	3	6	2.38	7°	☞ 刀柄: (Toolholder) D38			●								
			RCGT 0803-AL	4	8	3.15	7°				●								
			RCGT 1003-AL	5	10	3.15	7°				●								
			RCGT 10T3-AL	5	10	3.97	7°				●								
			RCGT 1204-AL	6	12	4.76	7°				●								
圆角铣削加工 Fillet milling			RCKT 10T3MO-PM	5	10	3.97	7°	☞ 刀柄: (Toolholder) D38				●	●	●	●	●	●	●	●
			RCKT 1204MO-PM	6	12	4.76	7°					●	●	●	●	●	●	●	●
			RCKT 1606MO-PM	8	16	6.35	7°					●	●	●	●	●	●	●	●
			RCKT 2006MO-PM	10	20	6.35	7°					●	●	●	●	●	●	●	●
圆角铣削加工 Fillet milling			RCKT 10T3MO-PR	5	10	3.97	7°	☞ 刀柄: (Toolholder) D38				●	●	●	●	●	●	●	●
			RCKT 1204MO-PR	6	12	4.76	7°					●	●	●	●	●	●	●	●
			RCKT 1606MO-PR	8	16	6.35	7°					●	●	●	●	●	●	●	●
			RCKT 2006MO-PR	10	20	6.35	7°					●	●	●	●	●	●	●	●
圆角铣削加工 Fillet milling			RCMT 0803MO	4	8	3.18	7°	☞ 刀柄: (Toolholder) D38				●		●	●		●	●	
			RCMT 1003MO	5	10	3.18	7°					●		●	●		●	●	
			RCMT 10T3MO	5	10	3.97	7°					●		●	●		●	●	
			RCMT 1204MO	6	12	4.76	7°					●		●	●		●	●	
			RCMT 1606MO	8	16	6.35	7°					●		●	●		●	●	
			RCMT 2006MO	10	20	6.35	7°					●		●	●		●	●	
圆角铣削加工 Fillet milling			RCMX 0803MO	4	8	3.18	7°	☞ 刀柄: (Toolholder) D38				●		●	●		●	●	
			RCMX 1003MO	5	10	3.18	7°					●		●	●		●	●	
			RCMX 10T3MO	5	10	3.97	7°					●		●	●		●	●	
			RCMX 1204MO	6	12	4.76	7°					●		●	●		●	●	
			RCMX 1606MO	8	16	6.35	7°					●		●	●		●	●	
			RCMX 2006MO	10	20	6.35	7°					●		●	●		●	●	
			RCMX 2507MO	12.5	25	7.94	7°					●		●	●		●	●	
			RCMX 3209MO	16	32	9.52	7°					●		●	●		●	●	

R200 圆鼻立铣刀

Round Nose End Mill

切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04





● 适配山特精磨刀片，精度更高，加工效果更佳。

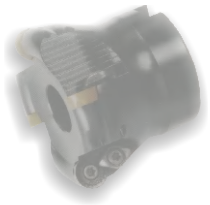
★ Adapter Grinding Blade Sandvik, Higher Accuracy, Processing A Better Effect.

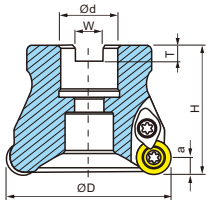
型号 Cat. No	尺寸 Size D	d	L	L1	a	刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
R200-5R20-25-160-2T	25	20	160	-	5	2				●	328800	-	110
R200-5RC24-25-150-2T	25	24	150	40	5	2				●	328802	167	110
R200-5RC24-25-200-2T	25	24	200	50	5	2				●	328804	183	145
R200-5RC25-25-150-2T	25	25	150	50	5	2				●	328806	167	110
R200-5RC25-25-200-2T	25	25	200	60	5	2				●	328808	183	145
R200-5RC25-25-250-2T	25	25	250	70	5	2				●	328810	217	-
R200-5RC25-26-150-2T	26	25	150	50	5	2				●	328812	167	-
R200-5RC25-26-200-2T	26	25	200	60	5	2				●	328814	183	-
R200-5RC25-26-250-2T	26	25	250	70	5	2	RC□T 10T3 MO	M3.5×8.5	T15	●	328816	217	-
R200-5RC25-30-150-2T	30	25	150	48	5	2				●	328818	150	-
R200-5RC25-30-200-2T	30	25	200	50	5	2				●	328820	183	-
R200-5RC25-30-250-2T	30	25	250	60	5	2				●	328822	217	-
R200-5RC32-35-150-3T	35	32	150	50	5	3				●	328824	200	-
R200-5RC32-35-200-3T	35	32	200	60	5	3				●	328826	233	-
R200-5RC32-35-250-3T	35	32	250	70	5	3				●	328828	283	-
R200-5RC32-35-300-3T	35	32	300	70	5	3				●	328830	333	-
R200-5RC32-35-350-3T	35	32	350	70	5	3				●	328832	383	-
R200-6RC25-32-150-2T	32	25	150	50	6	2				●	328834	183	165
R200-6RC25-32-200-2T	32	25	200	60	6	2				●	328836	200	175
R200-6RC25-32-250-2T	32	25	250	70	6	2				●	328838	250	190
R200-6RC32-32-150-2T	32	32	150	50	6	2				●	328840	200	-
R200-6RC32-32-200-2T	32	32	200	60	6	2				●	328842	233	-
R200-6RC32-32-250-2T	32	32	250	70	6	2				●	328844	267	-
R200-6RC32-33-160-2T	33	32	160	-	6	2				●	328846	-	165
R200-6RC32-33-200-2T	33	32	200	-	6	2	RC□T 1204 MO	M3.5×10	T15	●	328848	-	175
R200-6RC32-33-250-2T	33	32	250	-	6	2				●	328850	-	190
R200-6RC32-35-150-3T	35	32	150	50	6	3				●	328852	200	-
R200-6RC32-35-200-3T	35	32	200	60	6	3				●	328854	233	-
R200-6RC32-35-250-3T	35	32	250	70	6	3				●	328856	283	-
R200-6RC32-40-200-3T	40	32	200	60	6	3				●	328858	267	-
R200-6RC32-40-250-3T	40	32	250	70	6	3				●	328860	307	-
R200-6RC32-40-300-3T	40	32	300	70	6	3				●	328862	350	-

R200 圆鼻面铣刀盘

Round Nose Milling Cutter

切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04





- ●适配山特精磨刀片
- ●精度，适于精加工
- ●锥形设计，钢性高

★ Adapter grinding blade Sandvik
★ High precision, suitable for finishing
★ Cone design, steel high

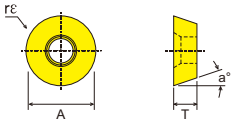
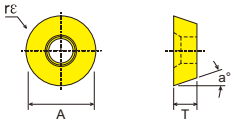
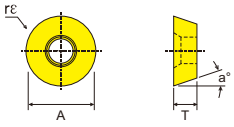
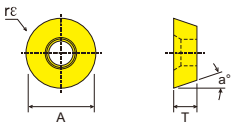
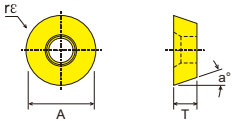
型号 Cat. No	尺寸 Size D	d	H	W	T	a	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
R200-5R50-22-4T	50	22	50	10.4	6.3	5					●	328900	200	200
R200-5R63-22-4T	63	22	50	10.4	6.3	5					●	328902	240	225
R200-5R80-27-6T	80	27	50	12.4	7	5					●	328904	367	350
R200-5R100-32-6T	100	32	50	14.4	8	5	RC□T 10T3 MO	Y-5R	M3.5×8.5 M3.5×10	T15	●	328906	567	540
R200-5R50-25.4-4T	50	25.4	50	10.4	6.3	5					●	328908	200	-
R200-5R63-25.4-4T	63	25.4	50	10.4	6.3	5					●	328910	240	-
R200-6R50-22-4T	50	22	50	10.4	6.3	6					●	328912	200	200
R200-6R63-22-4T	63	22	50	10.4	6.3	6					●	328914	240	225
R200-6R80-27-6T	80	27	50	12.4	7	6					●	328916	367	350
R200-6R100-32-6T	100	32	50	14.4	8	6	RC□T 1204 MO	Y-6R	M4×10	T15	●	328918	567	540
R200-6R50-25.4-4T	50	25.4	50	10.4	6.3	6					●	328920	200	-
R200-6R63-25.4-4T	63	25.4	50	10.4	6.3	6					●	328922	240	-
R200-8R63-22-4T	63	22	50	10.4	6.3	8					●	328924	-	250
R200-8R80-27-6T	80	27	50	12.4	7	8					●	328926	-	400
R200-8R100-32-6T	100	32	50	14.4	8	8					●	328928	-	600
R200-8R125-40-6T	125	40	63	16.4	9	8	RC□T 1606 MO	Y-8R	M5×12	T20	●	328930	-	750
R200-8R160-40-6T	160	40	63	16.4	9	8					●	328932	-	1150
R200-8R200-60-6T	200	60	63	25.7	14	8					●	328934	-	1600
R200-10R100-32-5T	100	32	63	14.4	8	10	RC□T 2006 MO	Y-10R	M5×12 M6×18	T20 T30	●	328936	-	600
R200-10R125-40-6T	125	40	63	16.4	9	10					●	328938	-	750

RD.. 15°后角圆形有孔单面铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

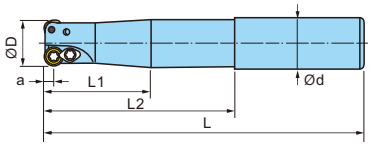
刀杆刀盘
直角台肩立铣刀
圆角铣刀
球头铣刀
钻铣刀杆
倒角刀杆
玉米铣刀
三面刃槽刀
快进给系列
龙门平面铣刀
锁牙式刀柄

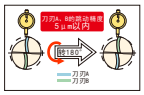
Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	T	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC232S	ZP201	ZP150	ZP152	ZP153	ZP163
圆角铣削加工 Fillet milling			RDKW 0501MO	2.5	5	1.59	15°	☞ 刀柄: (Toolholder) D40-D41	●	●	●	●	●	●	●	●	●	●	●
			0702MO	3.5	7	2.38	15°		●	●	●	●	●	●	●	●	●	●	●
			0803MO	4	8	3.15	15°		●	●	●	●	●	●	●	●	●	●	●
			10T3MO	5	10	3.97	15°		●	●	●	●	●	●	●	●	●	●	●
			1204MO	6	12	4.76	15°		●	●	●	●	●	●	●	●	●	●	●
			1604MO	8	16	4.76	15°		●	●	●	●	●	●	●	●	●	●	●
			1605MO	8	16	5.56	15°		●	●	●	●	●	●	●	●	●	●	●
			1606MO	8	16	6.35	15°		●	●	●	●	●	●	●	●	●	●	●
			2006MO	10	20	6.35	15°		●	●	●	●	●	●	●	●	●	●	●
圆角铣削加工 Fillet milling			RDKX 10T3MO	5	10	3.97	15°	☞ 刀柄: (Toolholder) D40-D41	●	●	●	●	●	●	●	●	●	●	●
			1204MO	6	12	4.76	15°		●	●	●	●	●	●	●	●	●	●	●
			1605MO	8	16	6.35	15°		●	●	●	●	●	●	●	●	●	●	●
				10	20	6.35	15°		●	●	●	●	●	●	●	●	●	●	●
圆角铣削加工 Fillet milling			RDKX 10T3MP-1	5	10	3.97	15°	☞ 刀柄: (Toolholder) D40-D41				●	●			●	●	●	●	
			1204MP-1	6	12	4.76	15°					●	●			●	●	●	●	
圆角铣削加工 Fillet milling			RDMW 10T3MOT-PM	5	10	3.97	15°	☞ 刀柄: (Toolholder) D40-D41				●	●			●	●	●	●	
			1204MOT-PM	6	12	4.76	15°					●	●			●	●	●	●	
			1605MOT-PM	8	16	5.56	15°					●	●			●	●	●	●	
圆角铣削加工 Fillet milling			RDMT 10T3MO	5	10	3.97	15°	☞ 刀柄: (Toolholder) D40-D41				●	●			●	●	●	●	
			1204MO	6	12	4.76	15°					●	●			●	●	●	●	

■ TRS 圆鼻立铣刀
Round Nose End Mill









●刀片经济，适用性高
●容屑空间大，排屑好

★ Blade economy, the high applicability.
★ Capacity chip a large space, good chip removal.

☞ 切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size						刃数 No. of flutes	刀片 Insert	螺钉 Screw	压板 Clamp	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
	D	d	L	L1	L2	a									
TRS2.5RC08-08-80-1T	8	8	80	30	–	2.5	1					●	328300	-	150
TRS2.5RC08-09-100-2T	9	8	100	30	–	2.5	2					●	328302	-	150
TRS2.5RC10-10-120-2T	10	10	120	40	–	2.5	2					●	328304	-	150
TRS2.5RC10-11-120-2T	11	10	120	40	–	2.5	2					●	328306	-	150
TRS2.5RC12-12-120-2T	12	12	120	40	–	2.5	2					●	328308	-	150
TRS2.5RC12-12-120-3T	12	12	120	40	–	2.5	3					●	328310	-	150
TRS2.5RC12-13-120-2T	13	12	120	40	–	2.5	2					●	328312	-	150
TRS2.5RC12-13-120-3T	13	12	120	40	–	2.5	3					●	328314	-	150
TRS2.5RC16-16-150-4T	16	16	150	40	–	2.5	4	RDMW 0501 MO	M1.8×4	—	T6	●	328316	-	160
TRS2.5RC16-16-200-4T	16	16	200	40	–	2.5	4					●	328318	-	200
TRS2.5RC16-17-150-4T	17	16	150	40	–	2.5	4					●	328320	-	160
TRS2.5RC16-17-200-4T	17	16	200	40	–	2.5	4					●	328322	-	200
TRS2.5RC20-20-150-4T	20	20	150	40	–	2.5	4					●	328324	-	170
TRS2.5RC20-20-200-4T	20	20	200	40	–	2.5	4					●	328326	-	220
TRS2.5RC20-21-150-4T	21	20	150	40	–	2.5	4					●	328328	-	170
TRS2.5RC20-21-200-4T	21	20	200	40	–	2.5	4					●	328330	-	220
TRS3.5RC10-10-120-1T	10	10	120	40	–	3.5	1					●	328332	-	150
TRS3.5RC12-12-120-1T	12	12	120	40	–	3.5	1	RDMW 0702 MO	M2.5×6	—	T8	●	328334	-	150
TRS3.5RC16-16-120-2T	16	16	120	40	–	3.5	2					●	328336	-	120
TRS3.5RC16-16-160-2T	16	16	160	40	–	3.5	2					●	328338	-	120
TRS4RC12-12-130-1T	12	12	130	40	–	4	1					●	328340	67	100
TRS4RC12-13-130-1T	13	12	130	40	–	4	1					●	328342	67	100
TRS4RC15-16-150-2T	16	15	150	40	–	4	2					●	328344	83	110
TRS4RC15-16-200-2T	16	15	200	40	–	4	2					●	328346	110	140
TRS4RC16-16-150-2T	16	16	150	50	–	4	2					●	328348	83	110
TRS4RC16-16-200-2T	16	16	200	60	100	4	2					●	328350	110	140
TRS4RC16-17-150-2T	17	16	150	50	–	4	2					●	328352	83	110
TRS4RC16-17-200-2T	17	16	200	60	–	4	2	RDMT 0802 MO	M3×7	Y-4R	T8	●	328354	110	140
TRS4RC19-20-150-2T	20	19	150	40	–	4	2					●	328356	100	130
TRS4RC19-20-200-2T	20	19	200	40	–	4	2					●	328358	117	145
TRS4RC20-20-150-2T	20	20	150	50	–	4	2					●	328360	100	130
TRS4RC20-20-200-2T	20	20	200	60	100	4	2					●	328362	117	145
TRS4RC25-20-250-2T	20	25	250	60	–	4	2					●	328364	167	-
TRS4RC20-21-150-2T	21	20	150	50	–	4	2					●	328366	100	130
TRS4RC20-21-200-2T	21	20	200	60	–	4	2					●	328368	117	145
TRS5RC19-20-150-2T	20	19	150	40	–	5	2					●	328370	100	-
TRS5RC19-20-200-2T	20	19	200	40	–	5	2					●	328372	117	-
TRS5RC20-20-150-2T	20	20	150	50	–	5	2					●	328374	100	130
TRS5RC20-20-200-2T	20	20	200	60	100	5	2					●	328376	117	145
TRS5RC20-21-150-2T	21	20	150	50	–	5	2					●	328378	100	-
TRS5RC20-21-200-2T	21	20	200	60	–	5	2					●	328380	117	-
TRS5RC20-25-150-2T	25	20	150	50	–	5	2					●	328382	117	100
TRS5RC20-25-200-2T	25	20	200	50	–	5	2					●	328384	127	-
TRS5RC24-25-150-2T	25	24	150	40	–	5	2					●	328386	117	100
TRS5RC24-25-200-2T	25	24	200	40	–	5	2					●	328388	127	-
TRS5RC25-25-150-2T	25	25	150	50	–	5	2					●	328390	117	100
TRS5RC25-25-200-2T	25	25	200	60	115	5	2					●	328392	127	135
TRS5RC25-25-250-2T	25	25	250	70	–	5	2	RDMT 10T3 MO	M3.5×10	Y-5R	T15	●	328394	167	160
TRS5RC32-25-300-2T	25	32	300	70	–	5	2		M4×9			●	328396	250	-
TRS5RC25-26-150-2T	26	25	150	50	–	5	2					●	328398	117	100
TRS5RC25-26-200-2T	26	25	200	60	–	5	2					●	328400	127	135
TRS5RC25-26-250-2T	26	25	250	70	–	5	2					●	328402	167	-
TRS5RC25-30-150-2T	30	25	150	48	–	5	2					●	328404	127	110
TRS5RC25-30-200-2T	30	25	200	50	–	5	2					●	328406	150	145
TRS5RC25-30-250-2T	30	25	250	60	–	5	2					●	328408	183	170
TRS5RC32-35-150-3T	35	32	150	50	–	5	3					●	328410	183	180
TRS5RC32-35-200-3T	35	32	200	60	–	5	3					●	328412	217	190
TRS5RC32-35-250-3T	35	32	250	70	–	5	3					●	328414	283	225
TRS5RC32-35-300-3T	35	32	300	70	–	5	3					●	328416	333	-
TRS5RC32-35-350-3T	35	32	350	70	–	5	3					●	328418	400	-
TRS5RC32-35-400-3T	35	32	400	70	–	5	3					●	328420	500	-
TRS6RC25-32-150-2T	32	25	150	50	–	6	2					●	328422	-	165
TRS6RC25-32-200-2T	32	25	200	50	–	6	2					●	328424	-	175
TRS6RC25-32-250-2T	32	25	250	60	–	6	2					●	328426	-	190
TRS6RC32-32-150-2T	32	32	150	50	–	6	2					●	328428	167	-
TRS6RC32-32-200-2T	32	32	200	50	–	6	2					●	328430	217	-
TRS6RC32-32-250-2T	32	32	250	60	–	6	2	RDMT 1204 MO	M4×10	Y-6R	T15	●	328432	267	-
TRS6RC32-32-300-2T	32	32	300	60	–	6	2					●	328434	333	-
TRS6RC32-40-150-3T	40	32	150	50	–	6	3					●	328436	233	250
TRS6RC32-40-200-3T	40	32	200	50	–	6	3					●	328438	283	260
TRS6RC32-40-250-3T	40	32	250	60	–	6	3					●	328440	317	300
TRS6RC32-40-300-3T	40	32	300	60	–	6	3					●	328442	417	340

■ TRS 圆鼻面铣刀盘

Round Nose Milling Cutter







- 使用15° 正角刀片
- 刀片经济，适用性强
- 容屑空间大，排屑好
- 锥形设计，钢性高

★ Using the 15 ° positive angle blade
★ Blade economy, the applicability of high
★ Capacity chip a large space, good chip disposal
★ Cone design, steel high

☞ 切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04

型号 Cat. No	D	d	H	W	T	a	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock		Price (RMB)	Price (RMB)
TRS5R50-22-4T	50	22	50	10.4	6.3	5					●			200
TRS5R63-22-4T	63	22	50	10.4	6.3	5					●			225
TRS5R80-27-6T	80	27	50	12.4	7	5					●			350
TRS5R100-32-6T	100	32	50	14.4	8	5	RDMT 10T3 MO	Y-5R	M4×9 M3.5×10	T15	●			540
TRS5R50-25.4-4T	50	25.4	50	10.4	6.3	5					●			-
TRS5R63-25.4-4T	63	25.4	50	10.4	6.3	5					●			-
TRS6R50-22-4T	50	22	50	10.4	6.3	6					●			200
TRS6R63-22-4T	63	22	50	10.4	6.3	6					●			225
TRS6R80-27-6T	80	27	50	12.4	7	6					●			350
TRS6R100-32-6T	100	32	50	14.4	8	6					●			540
TRS6R125-40-7T	125	40	50	14.4	14	6	RDMT 1204 MO	Y-6R	M4×10	T15	●			-
TRS6R160-40-8T	160	40	50	14.4	14	6					●			-
TRS6R50-25.4-4T	50	25.4	50	10.4	6.3	6					●			-
TRS6R63-25.4-4T	63	25.4	50	10.4	6.3	6					●			-
TRS8R63-22-4T	63	22	50	10.4	6.3	8					●			250
TRS8R80-27-5T	80	27	50	12.4	7	8	RDMT 1606 MO	Y-8R	M5×11.5	T20	●			400
TRS8R100-32-6T	100	22	50	14.4	8	8					●			600



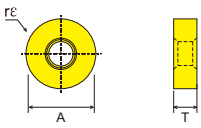
☞ 切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04

	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Price (RMB)
2					320
2					300
2					300
2					300
3					300
2					300
3					300
4					350
4					350
2					380
2					350
2					350
3					350
3					350
3					350
4					400
5					400
4					400
5					400
5					450
6					450
2					150
2					300
2					150
2					300
2					300
2					300
3					300
3					300
3					320
4					320
2					160
2					300
2					160
3					320
3					200

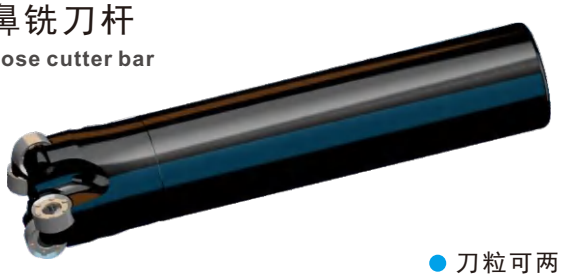
RNGJ 圆形 有孔双面 铣削刀片

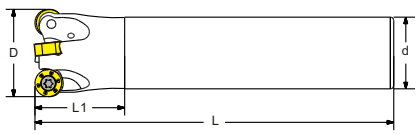
刀片(Insert):
RNGJ1204M0ELD ZP152
Ap:0.1-3.0 (mm)
Fz:0.07-1.5 (mm/rev)
Vc:100-300 (m/min)

			切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting
P	钢	Steel	◕ ◕ ✖ ✖ ✖ ✖
M	不锈钢	Stainless Steel	◕ ◕ ◕ ◕ ◕ ◕
K	铸铁	Iron	● ● ◕ ✖ ✖ ✖
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	● ●
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	● ✖ ✖ ◕ ●
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	● ✖ ✖ ◕ ●

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	T	配套刀柄 Matching Toolholder	PCD CBN-K CBN-S ZN01 ZK01 ZC32S ZP201 ZP151 ZP152 ZP153 ZP163
平面铣削加工 Surface milling			RNGJ 1204M0ELD 1204M0SGD 1204M0SHD	6	12	4.75	刀柄: (Toolholder) D42	● ● ● ● ● ● ● ● ● ● ● ●

■ KDR 圆鼻铣刀杆
KDR Round nose cutter bar





● 刀粒可两面使用，12次转位更经济!

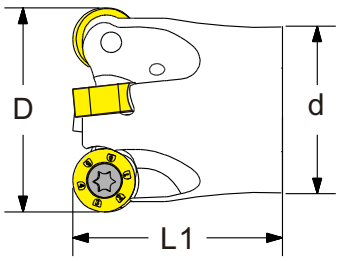
★ The Grain Can Be Used On Both Sides, 12 For More Economic!

切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04

型 号 Cat. No	总长L Long	直径D Diameter	有效长L1 Effective length	柄径 d Shank diameter	刃数 Blade number	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
KDR32Z02A32RN12L200	200	32	40	32	3	RNPJ1204	M4×9	T15	●	329200	450
KDR32Z03A32RN12L250	250	32	40	32	2				●	329202	500
KDR40Z04A32RN12L200	200	40	--	32	4				●	329204	500
KDR40Z04A32RN12L250	250	40	--	32	4				●	329206	600

■ KDR 圆鼻立铣刀盘
KDR Cylindrical Milling Cutter

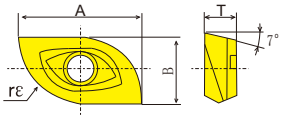
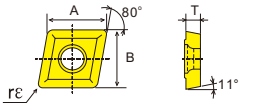




切削参数 (Cutting Parameters): R25-R26
零配件 (Spare Parts): P01-P04

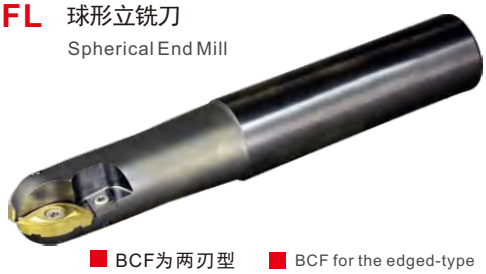
型 号 Cat. No	总长 Long	直径 Diameter	内孔 Inner hole	端面直径 Face diameter	刃数 Blade number	刀 片 Insert	Stock	Order Number	Price (RMB)
KDR40Z04S16RN12	40	40	16	38	4	RNPJ1204	●	329300	600
KDR50Z04S22RN12	40	50	22	42	4		●	329302	650
KDR50Z05S22RN12	40	50	22	42	5		●	329304	700
KDR63Z05S22RN12	50	63	22	49	5		●	329306	750
KDR63Z07S22RN12	50	63	22	49	7		●	329308	800
KDR80Z06S27RN12	50	80	27	60	6		●	329310	900
KDR80Z08S27RN12	50	80	27	60	8		●	329312	1100
KDR100Z07S32RN12	50	100	32	78	7		●	329314	1200
KDR100Z09S32RN12	50	100	32	78	9		●	329316	1400

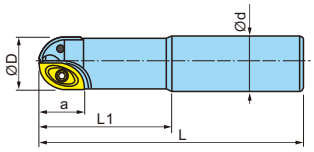
ZCET ZCEW 球形粗铣 双面有孔 仿形加工

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD PCBN-K PCBN-S CN61 ZK01 ZC32S ZP201 ZP150 ZP152 ZP153 ZP163
球头仿形粗铣加工 Rough milling of ball head profiling		ZC..  CP.. 	ZCET 080CE 主刃	8	15.6	7.9	3.97	刀柄 : (Toolholder) D43	●●●●
			ZCET 100CE	10	18.3	10	4.74		●●●●
			ZCEW 100CE	10	18.3	10	4.74		●●●●
			ZCET 125CE	12.5	23.1	12.3	6.1		●●●●
			ZCEW 125CE	12.5	23.1	12.3	6.1		●●●●
			ZCET 150CE	15	28.3	14.9	7.59		●●●●
			ZCEW 150CE	15	28.3	14.9	7.59		●●●●
			ZCET 160CE	16	28.8	15.4	7.45		●●●●
			ZCEW 200CE	20	35.4	20.1	8.0		●●●●
			ZCET 080SE 副刃	8	16.8	5.9	3.43		●●●●
			ZCET 100SE	10	16.7	8.1	4.24		●●●●
			ZCEW 100SE	10	16.7	8.1	4.24		●●●●
			ZCET 125SE	12.5	20.8	9.3	5.4		●●●●
			ZCEW 125SE	12.5	20.8	9.3	5.4		●●●●
			ZCET 150SE	15	25.7	11.8	7.09		●●●●
			ZCEW 150SE	15	25.7	11.8	7.09		●●●●
			ZCET 160SE	16	26.3	12.4	6.96		●●●●
			ZCEW 200SE	20	31.9	15.7	7.0		●●●●
			CPMT 080204 外周刃	0.4	7.94	7.94	2.38		●●●●
			CPMT 090308	0.8	9.525	9.525	3.18		●●●●

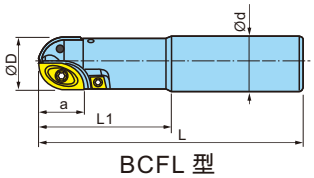
■ BCF/BCFL 球形立铣刀

Spherical End Mill





BCF 型



BCFL 型

■ BCF为两刃型 BCFL为四刃型

■ BCF for the edged-type BCFL for four-edge-type

- 采用精密级刀片可得到高精度加工表面
- 刀片表面凸面设计，不仅刀刃锋利并可降低切削振动的噪音

★ Use of available high-precision machining precision blade surface.

★ Blade surface of convex design, and reduces not only the sharp cutting edge Vibration noise.

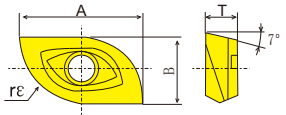
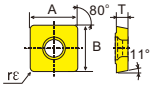
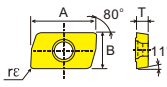
切削参数 (Cutting Parameters): R27
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	L	L1	a	刃数 No. of flutes	刀片 Insert 亲刃(1刃)	子刃(1刃)	外周刃(2刃)	螺钉 Screw	扳手 Wrench	Order Number	BCF 型 Price (RMB)	BCF型 Price (RMB)	BCFL型 Price (RMB)
C20-10R-150	20	20	150	70	30	2/4	ZCEW\T 100CE	ZCEW\T 100SE	CPMT080204	M3.5×9.5 M2.5×6	T10 T8	329400	330	510	580
C20-10R-200	20	20	200	50	30	2						329402	430	-	-
C20-10R-250	20	20	250	50	30	2						329404	530	-	-
C25-10R-150	20	25	150	70	30	2/4						329406	-	510	650
C25-10R-200	20	25	200	80	30	2/4						329408	-	560	650
C25-10R-250	20	25	250	100	30	2/4						329410	-	790	880
C32-10R-300	20	32	300	150	30	2/4						329412	-	900	980
C20-1.25R-150	25	25	150	70	39	2/4	ZCEW\T 125CE	ZCEW\T 125SE	CPMT090308	M4×9	T15	329414	-	620	700
C25-1.25R-150	25	25	150	100	39	2/4						329416	400	790	880
C25-1.25R-200	25	32	200	100	39	2/4						329418	500	790	880
C25-1.25R-250	25	32	250	150	39	2/4						329420	600	900	980
C32-1.25R-300	25	32	300	150	39	2/4						329422	-	1020	1100
C32-15R-160	30	32	160	70	43	2/4	ZCEW\T 150CE	ZCEW\T 150SE	CPMT090308	M5×12 M4×9	T20 T15	329424	460	730	800
C32-15R-200	30	32	200	100	43	2/4						329426	560	850	950
C32-15R-250	30	32	250	150	43	2/4						329428	700	960	1050
C32-15R-300	30	32	300	150	43	2/4						329430	830	1100	1150
C32-15R-350	30	32	350	200	43	2/4						329432	-	1300	1400
C32-16R-160	32	32	160	70	43	2/4	ZCEW 160CE	ZCEW 160SE	CPMT090308	M5×12 M4×9	T30 T15	329434	-	740	800
C32-16R-200	32	32	200	100	43	2/4						329436	-	850	950
C32-16R-250	32	32	250	150	43	2/4						329438	-	960	1050
C32-16R-300	32	32	300	150	43	2/4						329440	-	1100	1150
C32-16R-350	32	32	350	200	43	2/4						329442	-	1300	1400
C42-20R-200	40	42	200	100	50	2/4	ZCEW 200CE	ZCEW 200SE	CPMT090308	M6×18 M4×9	T30 T15	329444	-	1130	1250
C42-20R-250	40	42	250	150	50	2/4						329446	-	1240	1350
C42-20R-300	40	42	300	150	50	2/4						329448	-	1350	1450
C42-20R-350	40	42	350	200	50	2/4						329450	-	1470	1560
MT5-20R-200	40	MT5	200	100	50	2/4						329452	-	1240	1350
MT5-20R-250	40	MT5	250	150	50	2/4						329454	-	1350	1450
C50.8-25R-200	50	50.8	200	100	50	2/4	ZCEW 250CE	ZCEW 250SE	CPMT090308	M6×18 M4×9	T30 T15	329456	-	1300	1400
C50.8-25R-250	50	50.8	250	150	50	2/4						329458	-	1410	1500
C50.8-25R-300	50	50.8	300	150	50	2/4						329460	-	1520	1600
C50.8-25R-350	50	50.8	350	200	50	2/4						329462	-	1700	1800
C50.8-25R-400	50	50.8	400	200	50	2/4						329464	-	2030	2150
MT5-25R-200	50	MT5	200	100	50	2/4						329466	-	1520	1600
MT5-25R-250	50	MT5	250	150	50	2/4						329468	-	1700	1800

SWB 球形粗铣 双面有孔 仿形加工

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✱ 不稳定切削 Unstable Cutting

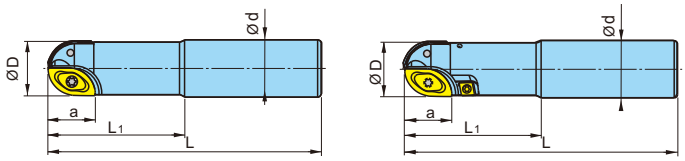
P	钢	Steel	● ◕ ✱ ✱ ✱ ✱ ● ●
M	不锈钢	Stainless Steel	◕ ◕ ✱ ✱ ✱ ✱ ◕ ○
K	铸铁	Iron	● ◕ ◕ ✱ ✱ ✱
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	● ◕
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	● ✱ ✱ ◕ ●
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	● ✱ ✱ ◕ ●

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	rε	A	B	T	配套刀柄 Matching Toolholder	PCD	PCBN-K	PCBN-S	CN61	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
球头仿形粗铣加工 Rough milling of ball head profiling		SWB..  SP..  ZC/ZP.. 	SWB 216HM 主刃	8	15	7.9	3	刀柄: (Toolholder) D44								●	●	●	●
			220HM	10	15.8	9.9	3.65									●	●	●	●
			225HM	12.5	18.5	12.4	3.8									●	●	●	●
			230HM	15	22.2	14.8	5.35									●	●	●	●
			232HM	16	26	16	5.35									●	●	●	●
			240HM	20	30.4	20.8	6.85									●	●	●	●
			250HM	25	34.4	25.7	7									●	●	●	●
			216HS 副刃	8	16.1	6.6	3									●	●	●	●
			220HS	10	20	8.2	3.65									●	●	●	●
			225HS	12.5	23.8	10.5	3.8									●	●	●	●
			230HS	15	27.5	12.3	5.35									●	●	●	●
			232HS	16	31.7	13.9	5.35									●	●	●	●
			240HS	20	37.5	16.3	6.85									●	●	●	●
			250HS	25	42.6	20.8	7									●	●	●	●
			SPGA 090304 外周刃	0.4	9.525	9.525	3.18									●	●	●	●
			SPMA 090304	0.4	9.525	9.525	3.18									●	●	●	●
			IM-SP 32GS	0.8	9.525	9.525	3.18									●	●	●	●
			ZCMT 100308R	0.8	10.4	6.35	3.4									●	●	●	●
			ZPMT 100308ZER	0.8	10	6	3.2									●	●	●	●

■ SWB 球形立铣刀

Spherical End Mill





☞ 切削参数 (Cutting Parameters): R27
零配件 (Spare Parts): P01-P04

- 采用精密级刀片可得到高精度加工表面
- 刀片表面凸面设计，不仅刀刃锋利并可降低切削振动的噪音

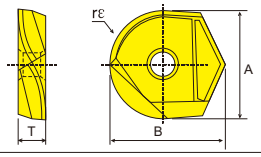
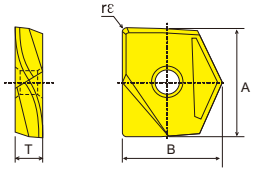
★ Use of available high-precision machining precision blade surface.
★ Blade surface of convex design, and reduces not only the sharp cutting edge Vibration noise.

型号 Cat. No	总长 L Long	直径 D Diameter	R	柄径 d Shank diameter	有效长 L1 Effective Length	主刃刀片 The main blade	副刃刀片 Side blade	外周刃刀片 Peripheral blade	主外周刃长度 Peripheral Length	主副刃螺丝 Main screw	外周刃螺丝 Outside screw	Order Number	Price (RMB)
SWBML2535S25	220	25	12.5	25	70	SWB225HM	SWB225HS	ZCMT100308R	35	DSW-4085	ESW-206	329600	800
SWBM2535S32	200	25	12.5	32	100							329602	900
SWBL2535S32	250	25	12.5	32	110							329604	1000
SWBS3040S32	200	30	15	32	120	SWB230HM	SWB230HS	IM-SP32GS	41	DSW-509	CSW-407	329606	1100
SWBM3040S32	250	30	15	32	150							329608	1250
SWBL3040S32	300	30	15	32	200							329610	1450
SWBE3040S32	350	30	15	32	200							329612	1650
SWB30080MT4		30	15	MT4	80							329614	1300
SWB30120MT4		30	15	MT4	120							329616	1500
SWBS4050S42	200	40	20	42	120	SWB240HMN	SWB240HSN	SPGA090304 SPMA090304	50	TSW-614H	ESW-406	329618	1350
SWBM4050S42	250	40	20	42	150							329620	1500
SWBL4050S42	300	40	20	42	200							329622	1700
SWBE4050S42	350	40	20	42	200							329624	1900
SWB40090MT5		40	20	MT4	90							329626	1600
SWBS5080C508	200	50	25	50.8	120	SWB250HMNL	SWB250HSNL	IM-SP43GS	80	HSW-614H	CSW-510	329628	1750
SWBM5080C508	250	50	25	50.8	170							329630	2100
SWBL5080C508	300	50	25	50.8	220							329632	2500
SWB50100MT5		50	25	MT5	100							329634	2300
SWB50120MT5		50	25	MT5	120							329636	2500
SWB50150MT5		50	25	MT5	150							329638	2700
SWB50170MT5		50	25	MT5	170							329640	3000

ZPFG ZCFW 球形精铣 双面有孔 仿形加工

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

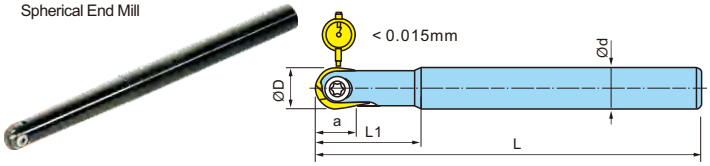
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

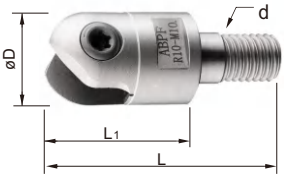
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
球头仿形精铣加工 Finish milling of ball head profiling			ZPFG 080	4	8	9.7	2.1	刀柄：(Toolholder) D45-D49	●	●	●		●		●	●	●	●	●
			100	5	10	12.1	2.7		●	●	●		●		●	●	●	●	●
			120	6	12	14.6	3.2		●	●	●		●		●	●	●	●	●
			160	8	16	16.6	4.2		●	●	●		●		●	●	●	●	●
			200	10	20	20.3	5.2		●	●	●		●		●	●	●	●	●
			250	12.5	25	24.1	6.2		●	●	●		●		●	●	●	●	●
			300	15	30	29.2	7.2		●	●	●		●		●	●	●	●	●
			320	16	32	30.2	7.2		●	●	●		●		●	●	●	●	●
直角台肩精铣加工 Right angle shoulder finish milling			ZCFW 080-R0.3	0.3	8	9.7	2.1	刀柄：(Toolholder) D45-D49	●	●	●		●		●	●	●	●	●
			100-R0.3	0.3	10	12.1	2.7		●	●	●		●		●	●	●	●	●
			100-R0.5	0.5	10	12.1	2.7		●	●	●		●		●	●	●	●	●
			100-R1.0	1.0	10	12.1	2.7		●	●	●		●		●	●	●	●	●
			120-R0.3	0.3	12	14.6	3.2		●	●	●		●		●	●	●	●	●
			120-R0.5	0.5	12	14.6	3.2		●	●	●		●		●	●	●	●	●
			120-R1.0	1.0	12	14.6	3.2		●	●	●		●		●	●	●	●	●
			160-R0.3	0.3	16	16.6	4.2		●	●	●		●		●	●	●	●	●
			160-R0.5	0.5	16	16.6	4.2		●	●	●		●		●	●	●	●	●
			160-R1.0	1.0	16	16.6	4.2		●	●	●		●		●	●	●	●	●
			160-R1.5	1.5	16	16.6	4.2		●	●	●		●		●	●	●	●	●
			160-R2.0	2.0	16	16.6	4.2		●	●	●		●		●	●	●	●	●
			200-R0.3	0.3	20	19.9	5.2		●	●	●		●		●	●	●	●	●
			200-R0.5	0.5	20	19.9	5.2		●	●	●		●		●	●	●	●	●
			200-R1.0	1.0	20	19.9	5.2		●	●	●		●		●	●	●	●	●
			200-R1.5	1.5	20	19.9	5.2		●	●	●		●		●	●	●	●	●
			200-R2.0	2.0	20	19.9	5.2		●	●	●		●		●	●	●	●	●
			250-R0.3	0.3	25	22.6	6.2		●	●	●		●		●	●	●	●	●
			250-R0.5	0.5	25	22.6	6.2		●	●	●		●		●	●	●	●	●
			250-R1.0	1.0	25	22.6	6.2		●	●	●		●		●	●	●	●	●
			250-R1.5	1.5	25	22.6	6.2		●	●	●		●		●	●	●	●	●
			250-R2.0	2.0	25	22.6	6.2		●	●	●		●		●	●	●	●	●
			300-R0.3	0.3	30	27.2	7.2		●	●	●		●		●	●	●	●	●
			300-R0.5	0.5	30	27.2	7.2		●	●	●		●		●	●	●	●	●
			300-R1.0	1.0	30	27.2	7.2		●	●	●		●		●	●	●	●	●
			320-R0.3	0.3	32	28.2	7.2		●	●	●		●		●	●	●	●	●
			320-R0.5	0.5	32	28.2	7.2		●	●	●		●		●	●	●	●	●
			320-R1.0	1.0	32	28.2	7.2		●	●	●		●		●	●	●	●	●

ABPF
球形立铣刀
Spherical End Mill

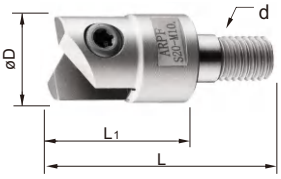
☞ 切削参数 (Cutting Parameters): R27
零配件 (Spare Parts): P01-P04

精加工 Plane finishing　含平面仿形加工 Copy milling





ABPF-R



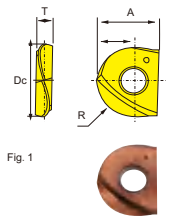
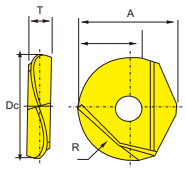
ABPF-S

- 刀片安装面 “V” 型设计，使安装更加稳固。
- R部刃形螺旋设计，切削轻快、平滑，加工面粗糙度有保证。
- 刃口经过特殊处理，有优异的抗崩损性。

★ The blade mounting surface "V" type design, make install more solid.
★ R spiral blade design, fast, smooth cutting, machining surface roughness has a guarantee.
★ Blade through special processing, have excellent resistance to crash damage.

型号 Cat. No	尺寸 Size D	d	L	L1	a	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
ABPF4RC10-110	R4	10	110	36	5	ZPFG80(-G)/ZDFG80-W	ZPFG4R	T8	●	329700	
ABPF5RC10-160	R5	10	160	40	7	ZPFG100(-G)/ZDFG100-W	ZPFG5R	T10	●	329702	
ABPF5RC12-160	R5	12	160	50	7				●	329704	
ABPF6RC12-160	R6	12	160	45	8	ZPFG120(-G)/ZDFG120-W	ZPFG6R	T20	●	329706	
ABPF8RC16-200	R8	16	200	80	10	ZPFG160(-G)/ZDFG160-W	ZPFG8R	T20	●	329708	
ABPF10RC20-200	R10	20	200	65	12.5	ZPFG250(-G)/ZDFG250-W	ZPFG10R	T25	●	329710	
ABPF12.5RC25-200	R12.5	25	200	80	15	ZPFG200(-G)/ZDFG200-W	ZPFG12.5R	T20	●	329712	
ABPF15RC30-150	R15	30	150	80	20	ZPFG300(-G)/ZDFG300-W	ZPFG15R	T30	●	329714	
ABPF15RC30-200	R15	30	200	100	20				●	329716	
ABPF-R5-M6	R5	M6	43	26	-	ZPFG100	ZPFG5R	T20	●	329720	
ABPF-R6-M6	R6	M6	43	26	-	ZPFG120	ZPFG6R	T20	●	329722	
ABPF-R8-M8	R8	M8	43	26	-	ZPFG160	ZPFG8R	T20	●	329724	
ABPF-R10-M10	R10	M10	49	30	-	ZPFG200	ZPFG10R	T25	●	329726	
ABPF-R12.5-M12	R12.5	M12	55	33	-	ZPFG250	ZPFG12.5R	T20	●	329728	
ABPF-R15-M16	R15	M16	65	42	-	ZPFG300	ZPFG15R	T30	●	329730	
ARPF-S16-M8	16	M8	43	25	-	ZCFW160	ZPFG8R	T20	●	329732	
ARPF-S20-M10	20	M10	48	29	-	ZCFW200	ZPFG10R	T25	●	329734	
ARPF-S25-M12	25	M12	55	33	-	ZCFW250	ZPFG12.5R	T20	●	329736	
ARPF-S30-M16	30	M16	46	41	-	ZCFW300	ZPFG15R	T30	●	329738	

ZPFG ZCFW 球形精铣 双面有孔 仿形加工

形状 shape		产品代码 Product code	精度 precision	ATH涂层 ATH coating ZP150	ATH涂层 ATH coating ZP160	PN涂层 PN coating		尺寸 dimension R	∂	A	∅Dc	T	形状 shape
 Fig. 1	ST 型 TYPE ST	ZDFG06N-ST	F级	●			○	3	3	5	6	2	Fig. 1
		ZDFG080-ST		●			○	4	4.4	9.7	8	2.1	Fig. 2
		ZDFG100-ST		●			○	5	5.6	12.1	10	2.7	
		ZDFG120-ST		●			○	6	6.6	14.6	12	3.2	
		ZDFG160-ST		●			○	8	9	16.6	16	4.2	
		ZDFG200-ST		●			○	10	11.5	20.3	20	5.2	
		ZDFG250-ST		●			○	12.5	14.5	24.1	25	6.2	
		ZDFG300-ST		●			○	15	18.5	29.2	30	7.2	
 Fig.2	SC 型 TYPE SC	ZDFG06N-SC	F级			○		3	3	5	6	2	Fig. 1
		ZDFG080-SC				○		4	4.4	9.7	8	2.1	Fig. 2
		ZDFG100-SC				○		5	5.6	12.1	10	2.7	
		ZDFG120-SC				○		6	6.6	14.6	12	3.2	
		ZDFG160-SC				○		8	9	16.6	16	4.2	
		ZDFG200-SC				○		10	11.5	20.3	20	5.2	
		ZDFG250-SC				○		12.5	14.5	24.1	25	6.2	
		ZDFG300-SC				○		15	18.5	29.2	30	7.2	
	SF 型 TYPE SF	ZDFG160-SF	F级		○			8	9	16.6	16	4.2	Fig. 2
		ZDFG200-SF			○			10	11.5	20.3	20	5.2	
		ZDFG250-SF			○			12.5	14.5	24.1	25	6.2	
		ZDFG300-SF			○			15	18.5	29.2	30	7.2	

● 标准库存品 ○ 新商品的标准库存品 无标记订单生产品 ● Standard inventory ○ Standard inventory for new products Unmarked orders produce products

Φ10以上的刀片可以再研磨。Φ16以上的刀片最多可以进行2次再研磨 Φ Blades above 10 can be reground. Φ Blades above 16 can be reground up to 2 times

承接刀片再研磨和再涂层业务 详细请联系本公司营业所 To undertake blade re grinding and re coating business, please contact our company's business office for details

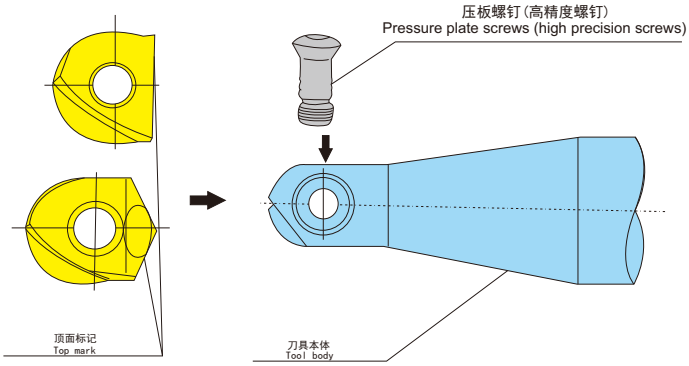
刀片安装步骤 Blade installation procedure

1 **清扫刀片座**
通过吹气等方法清扫刀片座侧面
Cleaning Blade Holder
Clean The Side Of The Blade Holder By Blowing Air Or Other Methods

2 将刀片的顶面标记对准刀具本体的螺钉紧固侧插入刀片
Align The Top Surface Mark Of The Blade With The Screw Fastening Side Of The Tool Bodyinsert Blade

3 用专用扳手紧固高精度螺钉
此时请勿按压刀片
The High-precision Screws Will Be Tightened With A Special Wrench.
Do Not Press The Blade At This Time.

4 紧固结束
End Of Tightening.

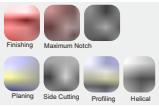


安装精度R公差请参考以 上的步骤以满足安装精度R公差在+001mm的范围内
Installation accuracy R tolerance Please refer to the steps above to meet the installation accuracy R tolerance in the range of +001mm

ZPFG ZCFW 球形精铣 双面有孔 仿形加工

- 2刃刃尖更换式高精度加工用圆弧立铣刀(振幅0.01mm以下)
- 刀片的固定可以通过高精度的刀身V槽或独特的夹紧机构进行牢固安装

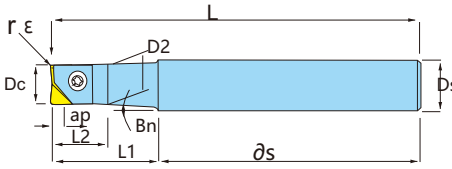
Circular arc end milling cutter for high-precision machining with replaceable blade and tip. (Amplitude below 0.01mm)
The fixing of the blade can be securely installed through high-precision V-grooves or unique clamping mechanisms



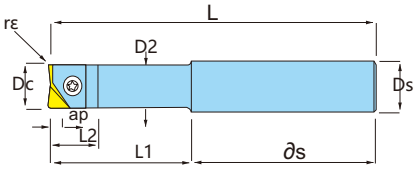
ARPF



切削参数 (Cutting Parameters):D49
零配件 (Spare Parts):P03-P05



A型(锥颈) Type A (cone neck)

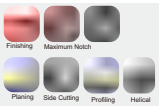


B型(直颈) B-type (straight neck)

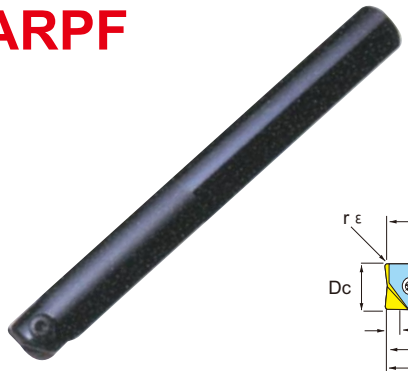
类型 type		产品代码 Product code	刀片数 Number of blades	尺寸 dimension									形状 shape	库存 inventory	使用刀片 Use a blade
				ϕDc	L	ϕDs	ap	L2	L1	Bn	ϕD2	Bs			
常规 routine		ARPF06S10-80	1	6	80	10	2.0	15	30	8.25°	5.4	50	A	●	ZCFW060
		ARPF08S12-100	1	8	100	12	2.5	10	22	9.5°	7.5	78	A	●	ZCFW080
		ARPF10S12-100	1	10	100	12	3.0	13	25	3°	9.5	75	A	●	ZCFW100
		ARPF12S12-110	1	12	110	12	4.0	21	30	_	11.5	80	B	●	ZCFW120
		ARPF16S16-130	1	16	130	16	5.0	27	50	_	15	80	B	●	ZCFW160
		ARPF20S20-140	1	20	140	20	6.0	35	60	_	19	80	B	●	ZCFW200
		ARPF25S25-150	1	25	150	25	8.0	43	70	_	24	80	B	●	ZCFW250
		ARPF30S32-160	1	30	160	32	10.0	55	80	_	29	80	B	●	ZCFW300
		ARPF32S32-160	1	32	160	32	10.0	58	80	_	31	80	A	●	ZCFW320
长颈 longneck		ARPF08S12L50-130	1	8	130	12	2.5	10	50	3°	7.5	80	A	●	ZCFW080
		ARPF10S16L50-150	1	10	150	16	3.0	13	50	4.5°	9.5	100	A	●	ZCFW100
		ARPF12S16L60-160	1	12	160	16	4.0	21	60	2°	11.5	100	B	●	ZCFW120
		ARPF16S16L65-165	1	16	165	16	5.0	27	65	_	15	100	B	●	ZCFW300
		ARPF20S20L80-180	1	20	180	20	6.0	35	80	_	19	100	B	●	ZCFW160
		ARPF20S20L120-220	1	20	220	20	6.0	35	120	_	19	100	B	●	
		ARPF20S20L150-250	1	20	250	20	6.0	35	150	_	19	100	B	●	ZCFW200
		ARPF25S25L90-200	1	25	200	25	8.0	43	90	_	24	110	B	●	
		ARPF25S32L150-250	1	25	250	32	8.0	43	150	_	24	100	B	●	
		ARPF30S32L100-220	1	30	220	32	10.0	55	100	_	29	120	B	●	ZCFW250
		ARPF30S32L150-250	1	30	250	32	10.0	55	150	_	29	100	B	●	
		ARPF30S32L200-300	1	30	300	32	10.0	55	200	_	29	100	B	●	
		ARPF32S32L100-220	1	32	220	32	10.0	58	100	_	31	120	B	●	ZCFW320
长柄 Long handle		ARPF16S16E65-200	1	16	200	16	5.0	27	65	_	15	135	B	●	ZCFW160
		ARPF20S20E80-250	1	20	250	20	6.0	35	80	_	19	170	B	●	ZCFW200
		ARPF25S25E90-300	1	25	300	25	8.0	43	90	_	24	210	A	●	ZCFW250
		ARPF25S32E100-300	1	25	300	32	8.0	43	100	3.5°	24	200	B	●	
		ARPF30S32E100-350	1	30	350	32	10.0	55	100	_	29	250	A	●	ZCFW300
		ARPF30S42EA120-350	1	30	350	42	10.0	55	120	5.3°	29	230	B	●	
		ARPF32S32E100-350	1	32	350	32	10.0	58	100	_	31	250	B	●	ZCFW320
硬质合金刀柄	常规routine	ARPF06S06W25-90	1	6	90	6	2.0	10.3	25	_	5.5	65	B	●	ZCFW060
	长颈 longneck	ARPF06S06WL65-120	1	6	120	6	2.0	10.3	65	_	5.5	55	B	●	ZCFW060
		ARPF08S08WL65-130	1	8	130	8	2.5	65	65	_	7.5	65	B	●	ZCFW080
		ARPF10S10WL75-140	1	10	140	10	3.0	18	75	_	9.5	65	B	●	ZCFW100
		ARPF12S12WL85-150	1	12	150	12	4.0	21	85	_	11.5	65	B	●	ZCFW120
	长颈 longneck	ARPF16S16WE120-200	1	16	200	16	5.0	27	120	_	15	80	B	●	ZCFW160
		ARPF20S20WE150-250	1	20	250	20	6.0	35	150	_	19	100	B	●	ZCFW200
		ARPF25S25WE190-300	1	25	300	25	8.0	43	190	_	24	110	B	●	ZCFW250
		ARPF30S32WE230-350	1	30	350	32	10.0	55	230	_	29	120	B	●	ZCFW300
		ARPF32S32WE230-350	1	32	350	32	10.0	58	230	_	31	120	B	●	ZCFW320

ZPFG ZCFW 球形精铣 双面有孔 仿形加工

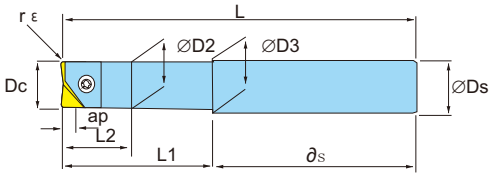
● 2刃刃尖更换式高精度加工用圆弧立铣刀（振幅0.01mm以下）
● 刀片的固定可以通过高精度的刀身V槽或独特的夹紧机构进行牢固安装
Circular arc end milling cutter for high-precision machining with replaceable blade and tip. (Amplitude below 0.01mm)
The fixing of the blade can be securely installed through high-precision V-grooves or unique clamping mechanisms

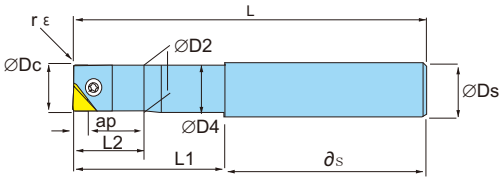


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切削参数 (Cutting Parameters):D49
零配件 (Spare Parts):P03-P05



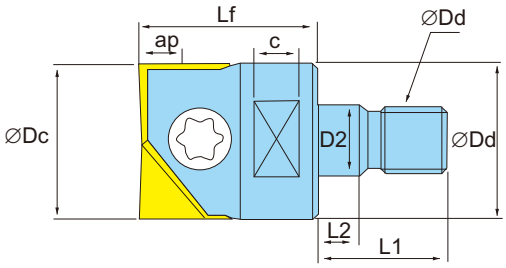


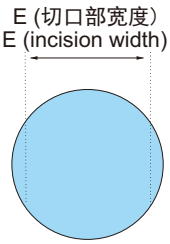
类型 type	产品代码 Product code	刀片数 Number of blades	尺寸dimension										形状 shape	库存 inventory	使用刀片 Use a blade
			ϕ Dc	L	ϕ Ds	ap	L2	L1	ϕ D2	ϕ D3	ϕ D4	Bs			
钢柄 Steel handle	ARPF08S08L25-85	1	8	85	8	2.5	-	25	7.5	-	7.5	60	B	○	ZCFW080
	ARPF08S08L30-90	1	8	90	8	2.5	-	30	7.5	-	7.5	60	B	○	ZCFW080
	ARPF10S10L30-90	1	10	90	10	3	15	30	9	9.5	-	60	A	○	ZCFW100
	ARPF10S10L40-100	1	10	100	10	3	15	40	9	9.5	-	60	A	○	ZCFW100
	ARPF12S12L35-95	1	12	95	12	4	18	35	10.8	11.5	-	60	A	○	ZCFW120
	ARPF12S12L50-110	1	12	110	12	4	18	50	10.8	11.5	-	60	A	○	ZCFW120
	ARPF16S16L50-120	1	16	120	16	5	24	50	14.5	15	-	70	A	○	ZCFW160
	ARPF16S16L65-135	1	16	135	16	5	24	65	14.5	15	-	70	A	○	ZCFW160
	ARPF20S20L60-140	1	20	140	20	6	30	60	18	19	-	80	A	○	ZCFW200
	ARPF20S20L80-160	1	20	160	20	6	30	80	18	19	-	80	A	○	ZCFW200
	ARPF20S20L120-200	1	20	200	20	6	30	120	18	19	-	80	A	○	ZCFW200
	ARPF25S25L70-150	1	25	150	25	8	38	70	23	24	-	80	A	○	ZCFW250
	ARPF25S25L100-180	1	25	180	25	8	38	100	23	24	-	80	A	○	ZCFW250
	ARPF30S32L80-160	1	30	160	32	10	38	80	28	29	-	80	A	○	ZCFW300
	ARPF30S32L120-200	1	30	200	32	10	45	120	28	29	-	80	A	○	ZCFW300
	ARPF32S32L80-160	1	32	160	32	10	45	80	30	31	-	80	B	○	ZCFW320
	ARPF32S32L120-200	1	32	200	32	10	48	120	30	31	-	80	B	○	ZCFW320
硬质合金刀柄 Carbide shank	ARPF08S08W30-90	1	8	90	8	2.5	-	30	7.5	-	7.5	60	B	○	ZCFW080
	ARPF08S08W40-100	1	8	100	8	2.5	-	40	7.5	-	7.5	60	B	○	ZCFW080
	ARPF08S08W65-125	1	8	125	8	2.5	-	65	7. 5	-	7.5	60	B	○	ZCFW080
	ARPF10S10W40-100	1	10	100	10	3	15	40	9	-	9.5	60	B	○	ZCEW100
	ARPF10S10W50-110	1	10	110	10	3	15	50	9	-	9.5	60	B	○	ZCFW100
	ARPF10S10W75-135	1	10	135	10	3	15	75	9	-	9.5	60	B	○	ZCFW100
	ARPF12S12W50-110	1	12	110	12	4	18	50	10.8	-	11.5	60	B	○	ZCFW120
	ARPF12S12W85-145	1	12	145	12	4	18	85	10.8	-	11.5	60	B	○	ZCFW120
	ARPF16S16W80-150	1	16	150	16	5	24	80	14.5	-	15	70	B	○	ZCFW160
	ARPF16S16W120-190	1	16	190	16	5	24	120	14.5	-	15	70	B	○	ZCFW160
	ARPF20S20W120-200	1	20	200	20	6	30	120	18	-	19	80	B	○	ZCFW200
	ARPF20S20W150-230	1	20	230	20	6	30	150	18	-	19	80	B	○	ZCFW200
	ARPF25S25W150-230	1	25	230	25	8	38	150	23	-	24	80	B	○	ZCFW250
	ARPF25S25W190-270	1	25	270	25	8	38	190	23	-	24	80	B	○	ZCFW250
	ARPF30S32W150-230	1	30	230	30	10	45	150	28	-	29	80		○	ZCFW300
	ARPF30S32W230-310	1	30	310	30	10	45	230	28	-	29	80		○	ZCFW300
	ARPF32S32W150-230	1	32	230	32	10	48	150	30	-	31	80		○	ZCFW320
	ARPF32S32W230-310	1	32	310	32	10	48	230	30	-	31	80		○	ZCFW320

ZPFG ZCFW 球形精铣 双面有孔 仿形加工

ARPF○○







切削参数 (Cutting Parameters):D49
零配件 (Spare Parts):P03-P05

产品代码 Product code	库存 inventory	刀片数 Number of blades	尺寸 dimension										使用刀片 Use a blade
			Dc	Lf	ap	D2	M	DB	L1	L2	c	E	
ARPFM10-M6	●	1	10	26	3.0	6.5	M6	9.8	5.5	14.5	5	7	ZCFW100
ARPFM12-M6	●	1	12	26	4.0	6.5	M6	9.8	5.5	14.5	5	7	ZCFW120
ARPFM16-M8	●	1	16	32	5.0	8.5	M8	12.8	5.5	17	8	10	ZCFW160
ARPFM20-M10	●	1	20	38	6.0	10.5	M10	17.8	5.5	19	10	15	ZCFW200
ARPFM25-M12	●	1	25	38	8.0	12.5	M12	20.8	5.5	22	10	17	ZCFW250
ARPFM30-M16	●	1	30	43	10.0	17	M16	28.8	6	23	12	22	ZCFW300
ARPFM32-M16	●	1	32	43	10.0	17	M16	28.8	6	23	12	22	ZCFW320

零件名 Part name / 使用刀具 Use a tool / 形状 shape	压板螺钉 Clamp screw	紧固扭矩 Tightening torque	螺丝刀/扳手 Screwdriver/wrench	螺纹防卡剂 Black body
ARPF06S..	ABPF-M6	0.5	T6	
ARPF08S..	ABPF-M8	1.1	T8	
ARPF10S..	ABPF-M10	2.2	T10	
ARPF12S..	ABPF-M12	4.9	T20	
ARPF16S..	ABPF-M16	4.9		
ARPF20S..	ABPF-M20	6.9	T25	
ARPF25S..	ABPF-M25	9.8	T30	
ARPF30S..	ABPF-M30	9.8		
ARPF32S..				

标准切削条件表 Standard Cutting Conditions Table

工件材料 Work material	刀片材料 Blade material	切削条件 cutting Conditions	∅6 半精加工 semi-finishing 通用 Be common	∅6 半精加工 semi-finishing 高速加工 high speed process	∅6 精加工 finishing	∅8 半精加工 semi-finishing 通用 Be common	∅8 半精加工 semi-finishing 高速加工 high speed process	∅8 精加工 finishing	∅10 半精加工 semi-finishing 通用 Be common	∅10 半精加工 semi-finishing 高速加工 high speed process	∅10 精加工 finishing	∅12 半精加工 semi-finishing 通用 Be common	∅12 半精加工 semi-finishing 高速加工 high speed process	∅12 精加工 finishing	∅16 半精加工 semi-finishing 通用 Be common	∅16 半精加工 semi-finishing 高速加工 high speed process	∅16 精加工 finishing	∅20 半精加工 semi-finishing 通用 Be common	∅20 半精加工 semi-finishing 高速加工 high speed process	∅20 精加工 finishing	∅25 半精加工 semi-finishing 通用 Be common	∅25 半精加工 semi-finishing 高速加工 high speed process	∅25 精加工 finishing	∅30 半精加工 semi-finishing 通用 Be common	∅30 半精加工 semi-finishing 高速加工 high speed process	∅30 精加工 finishing	∅32 半精加工 semi-finishing 通用 Be common	∅32 半精加工 semi-finishing 高速加工 high speed process	∅32 精加工 finishing
碳素钢 合金钢 Carbon steel Alloy steel	ZP150 ZP163	n(min⁻¹)	8,490	16,450	16,450	6,370	11,940	11,940	5,090	9,550	9,550	4,240	7,960	7,960	3,190	5,970	5,970	5,970	4,780	4,780	2,040	3,820	3,820	1,700	3,180	3,180	1,590	2,990	2,990
		Vc(m/min)	160	310	310	160	300	300	160	300	300	160	300	300	160	300	300	160	300	300	160	300	300	160	300	300	160	300	300
		Vf(mm/min)	1,700	2,300	2,300	2,550	3,580	3,580	2,040	2,870	2,870	1,700	2,390	2,390	1,600	2,390	2,390	1,280	1,910	1,910	1,020	1,530	1,530	850	1,270	1,270	800	1,200	1,200
		fz(mm/t)	0.1	0.07	0.07	0.2	0.15	0.15	0.2	0.15	0.15	0.2	0.15	0.15	0.25	0.2	0.2	0.25	0.2	0.2	0.25	0.2	0.2	0.25	0.2	0.2	0.25	0.2	0.2
		ap(mm)	0.1	0.1	0.05	0.2	0.2	0.1	0.25	0.25	0.1	0.3	0.3	0.1	0.8	0.8	0.2	1	1	0.2	0.25	1.25	0.2	1.6	1.6	0.2	1.6	1.6	0.2
		ae(mm)	0.6	0.3	0.2	0.8	0.4	0.2	1	0.5	0.2	1.2	0.6	0.2	1.6	1.6	1.2	2	2	0.2	2.5	1.25	0.2	1,270	3.2	0.2	3.2	3.2	0.2
碳素钢 合金钢 Carbon steel Alloy steel	ZP150 ZP163	n(min⁻¹)	6,370	14,850	14,850	4,770	11,150	11,150	3,820	8,920	8,920	3,180	7,430	7,430	2,390	5,570	5,570	1,910	4,460	4,460	1,530	3,570	3,570	120	2,970	2,970	1,190	2,790	2,790
		Vc(m/min)	120	280	280	120	280	280	120	280	280	120	280	280	120	280	280	120	280	280	120	280	280	640	280	280	120	280	280
		Vf(mm/min)	1,270	2,080	2,080	1,910	3,350	3,350	1,530	2,680	2,680	1,270	2,230	2,230	1,200	2,230	2,230	960	1,780	530	760	1430	1430	0.25	1,190	1,190	600	1,120	1,120
		fz(mm/t)	0.1	0.07	0.07	0.2	0.15	0.15	0.2	0.15	0.1	0.2	0.15	0.15	0.25	0.2	0.2	0.25	0.2	0.06	0.25	0.2	0.2	1.6	0.2	0.2	0.25	0.2	0.2
		ap(mm)	0.1	0.1	0.05	0.2	0.2	0.1	0.25	0.25	0.2	0.3	0.3	0.1	0.8	0.8	0.2	1	1	1	1.25	1.25	0.2	3.2	1.6	0.2	1.6	1.6	0.2
		ae(mm)	0.6	0.3	0.2	0.8	0.4	0.2	1	0.5	0.5	1.2	0.6	0.1	1.6	0.6	0.2	2	2	1	2.5	2.5	0.2	1,060	3.2	0.2	3.2	3.2	0.2
淬火钢 Quenched steel	ZP150 ZP163	n(min⁻¹)	5,310	14,850	14,850	3,980	11,150	11,150	3,180	8,920	8,920	2,650	7,430	7,430	1,990	5,570	5,570	1,590	4,460	4,460	1,270	3,570	3,570	100	2,970	2,970	1,000	2,790	2,790
		Vc(m/min)	100	280	280	100	280	280	100	280	280	100	280	280	100	280	280	100	280	280	100	280	280	250	280	280	100	280	280
		Vf(mm/min)	850	1,190	1,190	800	1,120	1,120	640	890	890	530	740	740	480	670	670	380	530	530	310	430	430	0.12	360	360	240	330	330
		fz(mm/t)	0.08	0.04	0.04	0.1	0.05	0.05	0.1	0.05	0.05	0.1	0.05	0.05	0.12	0.06	0.06	0.12	0.06	0.06	0.12	0.06	0.06	1.6	0.06	0.06	0.12	0.06	0.06
		ap(mm)	0.1	0.1	0.05	0.2	0.2	0.1	0.25	0.25	0.1	0.3	0.3	0.1	0.8	0.8	0.2	1	1	0.2	1.25	1.25	0.2	3.2	1.6	0.2	1.6	1.6	0.2
		ae(mm)	0.6	0.2	0.2	0.8	0.2	0.2	1	0.25	0.2	1.2	0.3	0.2	1.6	0.8	0.2	2	1	0.2	2.5	1.25	0.2	850	3.2	0.2	3.2	1.6	0.2
淬火钢 Quenched steel	ZP163	n(min⁻¹)	4,240	11,670	11,670	3,180	8,760	8,760	2,550	7,000	7,000	2,120	5,840	5,840	1,590	4,380	4,380	1,270	3,500	3,500	1,020	2,800	2,800	80	2,330	2,330	800	2,190	2,190
		Vc(m/min)	80	220	220	80	220	220	80	220	220	80	220	220	80	220	220	80	220	220	80	220	220	200	280	280	190	260	260
		Vf(mm/min)	680	930	930	640	880	880	510	700	700	420	580	580	380	530	530	300	420	420	240	340	340	0.12	220	220	160	210	210
		fz(mm/t)	0.08	0.04	0.04	0.1	0.05	0.05	0.1	0.05	0.05	0.1	0.05	0.05	0.12	0.06	0.06	0.12	0.06	0.06	0.12	0.06	0.06	1.6	0.06	0.06	0.12	0.06	0.06
		ap(mm)	0.1	0.1	0.05	0.2	0.2	0.1	0.25	0.25	0.1	0.3	0.3	0.1	0.8	0.8	0.2	1	1	1	1.25	1.25	0.2	3.2	1.6	0.2	1.6	1.6	0.2
		ae(mm)	0.6	0.2	0.2	0.8	0.2	0.2	1	0.25	0.2	1.2	0.3	0.2	1.6	0.8	0.2	2	1	1	2.5	1.25	0.2	3.2	1.6	0.2	3.2	1.6	0.2
铸铁 Cast iron	ZP150 ZP163	n(min⁻¹)	8,490	20,160	20,160	6,370	15,120	15,120	5,090	12,100	12,100	4,240	10,080	10,080	3,190	7,560	7,560	2,550	6,050	6,050	2,040	4,840	4,840	1,700	4,030	4,030	1,590	3,780	3,780
		Vc(m/min)	160	8380	380	160	380	380	160	380	380	160	380	380	160	380	380	160	380	380	160	380	380	160	380	380	160	380	380
		Vf(mm/min)	2,550	4,030	4,030	3,820	6,050	6,050	3,050	4,840	4,840	2,550	4,030	4,030	2,240	4,540	4,540	1,790	3,630	3,630	1,430	2,900	2,900	1,190	2,420	2,420	1,110	2,270	2,270
		fz(mm/t)	0.15	0.1	0.1	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.35	0.3	0.3	0.35	0.3	0.3	0.35	0.3	0.3	0.35	0.3	0.3	0.35	0.3	0.2
		ap(mm)	0.1	0.1	0.05	0.2	0.2	0.1	0.25	0.2	0.1	0.3	0.3	0.1	0.8	0.8	0.2	1	1	1	1.25	1.25	0.2	1.6	1.6	0.2	1.6	1.6	0.2
		ae(mm)	0.6	0.3	0.2	0.8	0.4	0.2	1	0.4	0.2	1.2	0.6	0.2	1.6	1.6	0.2	2	2	2	2.5	2.5	0.2	3.2	3.2	0.2	3.2	3.2	0.2
石墨 graphite	ZP163	n(min⁻¹)	15,920	21,220	21,220	11,940	15,920	15,920	9,550	12,740	12,740	7,960	10,620	10,620	5,970	7,960	7,960	4,780	6,370	6,370									
		Vc(m/min)	300	400	400	300	400	400	300	400	400	300	400	400	300	400	400	300	400	400									
		Vf(mm/min)	3,180	6,370	4, 420	4,780	9,550	6,370	3,820	7640	5, 100	3,190	6,370	4, 240	2,990	4,780	3, 980	2390	3,820	3,820									
		fz(mm/t)	0.1	0.15	0.1	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.25	0.3	0.25	0.25	0.3	0.3									
		ap(mm)	0.3	0.15	0.15	0.4	0.2	0.2	0.5	0.3	0.2	0.6	0.4	0.2	0.8	0.6	0.1	1	0.7	0.7									
		ae(mm)	0.6	0.6	0.2	0.8	0.8	0.25	1.0	0.8	0.25	1.2	0.9	0.3	1.6	1.1	0.3	2	1.5	1.5									
铝合金铸件 Aluminium alloy casting	ZP163	n(min⁻¹)	15,920	26,530	26,530	11,940	19,900	19,900	9,550	15,920	15,920	7,960	13,270	13,270	5,970	9,950	9,950	4,780	7,960	7,960									
		Vc(m/min)	300	500	500	300	500	500	300	500	500	300	500	500	300	500	500	300	500	500									
		Vf(mm/min)	3,180	10,610	5, 310	4,780	15,920	7,960	3,820	12,740	6, 370	3,190	10,620	5, 310	2,990	7,960	4, 980	2,390	6,370	6,370									
		fz(mm/t)	0.1	0.2	0.2	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.4	0.2	0.25	0.4	0.25	0.25	0.4	0.4									
		ap(mm)	0.3	0.15	0.15	0.4	0.2	0.2	0.5	0.3	0.2	0.6	0.4	0.2	0.8	0.6	0.1	1	0.7	0.7									
		ae(mm)	0.6	0.6	0.2	0.8	0.8	0.25	1.0	0.8	0.25	1.2	0.9	0.3	1.6	1.1	0.3	2	1.5	1.5									
最大fz Maximum fz			<0. 2			<0. 5			<0. 5			<0. 5			<0. 6			<0. 6			<0. 6			<0. 6			<0. 6		
最大ap Maximum ap			<0. 6			<2. 5			<3. 0			<4. 0			<5. 0			<6. 0			<8. 0			<10. 0			<10. 0		

[注意]

① 此标准切削条件表中的数值为切削条件的基准值。实际加工时请考虑加工形状，目的使用机床等因素对切削条件进行调整

② 本刀具在使用时有可能会发生破损故必须安装护盖，使用保护镜、安全鞋等。

③ 不要用手触摸硬质合金刀柄夹。另外使用硬质合金刀柄夹时切削深度ap请使用以下值：外径Dc12以下时ap=0. 2㎜以下；外径Dc16以上时ap=0. 3㎜以下。

※ 突出长3Dc以上时请根据上表并参考右表进行调整。

※ When the protruding length is more than 3Dc, please adjust according to the above table and refer to the right table.

突出比例 Protrusive ratio	Vc	Vf
<3DC	100%	100%
3DC~ 5DC	70%	70%
5DC~8DC	60%	60%
8DC~10DC	50%	50%

[Note]

① The values in this standard cutting condition table are the reference values for cutting conditions. Please consider the processing shape during actual processing, Purpose: Adjust cutting conditions using factors such as machine tools

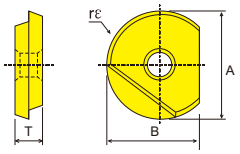
② This tool may be damaged during use, so it is necessary to install a protective cover, use protective glasses, safety shoes, etc.

③ Do not touch the hard alloy tool holder with your hands. In addition, when using a hard alloy tool holder, please use the following values for the cutting depth ap: When the outer diameter is below Dc12, ap=0.2mm; When the outer diameter is above Dc16, ap=0.3mm or less.

BNM 球形精铣 双面有孔 仿形加工

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

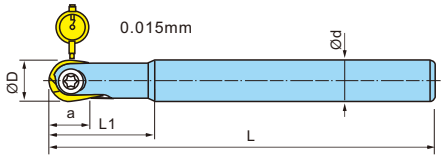
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder
球头仿形精铣加工 Finish milling of ball head profiling			BNM 060	3	6	5	2	刀柄: (Toolholder) D50
			070	3.5	7	5.5	2	
			080	4	8	7	2.4	
			100	5	10	8.5	2.6	
			110	5.5	11	9	2.6	
			120	6	12	10	3	
			160	8	16	12	4	
			200	10	20	15	5	
			250	12.5	25	18.5	6	
			300	15	30	22.5	7	
			320	16	32	23.5	7	

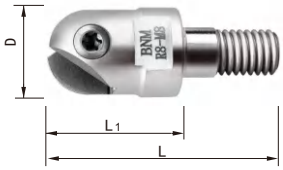
PCD CBN-K CBN-S ZN60 ZK01 ZC32S ZP201 ZP151 ZP152 ZP153 ZP163

■ BNM 球形立铣刀
Spherical End Mill

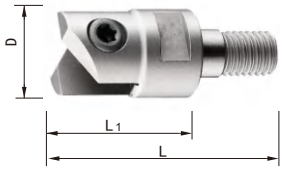


精加工 Plane finishing　含平面仿形加工 Copy milling





BNM-R

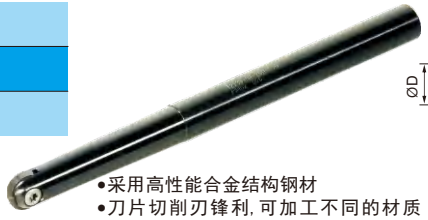


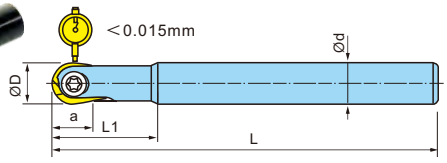
BNM-S

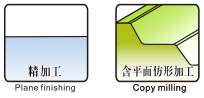
☞ 切削参数 (Cutting Parameters):D52
零配件 (Spare Parts):P01-P04

型 号 Cat. No	总长 L	直径 D	R	柄径 d Shank diameter	有效长 Effective length L1	配用刀片 Equipped Inserts	夹紧螺丝 Clamp Screw	Stock	Order Number	Price (RMB)	Price (RMB)
BNML-100075T-S12	132	10	R5	12	75	BNM-100	FSW-3007H		329800	-	240
BNML-120085T-S16	145	12	R6	16	85	BNM-120	FSW-3509	●	329802	-	260
BNML C12-6R-130-1T	130	12	R6	12	40				329804	135	-
BNML C12-6R-150-1T	150	12	R6	12	50			●	329806	135	-
BNML-160100T-S20	166	16	R8	20	100	BNM-160	FSW-4013		329808	-	300
BNML C16-8R-150-1T	150	16	R8	16	50			●	329810	170	-
BNML C16-8R-200-1T	200	16	R8	16	60				329812	200	-
BNML-200115T-S25	191	20	R10	25	115	BNM-200	FSW-5016	●	329814	-	485
BNML C20-10R-150-1T	150	20	R10	20	50				329816	170	-
BNML C20-10R-200-1T	200	20	R10	20	60			●	329818	200	-
BNML C25-10R-250-1T	250	20	R10	25	60				329820	235	-
BNML C25-12.5R-150-1T	150	25	R12.5	12.5	45	BNM-250	FSW-6020	●	329822	200	-
BNML C25-12.5R-200-1T	200	25	R12.5	12.5	55				329824	235	-
BNML C25-12.5R-250-1T	250	25	R12.5	12.5	60			●	329826	270	-
BNMM-300106T-S32	186	30	R15	32	106	BNM-300	FSW-8025		329828	-	1000
BNML-300160T-S32	240	30	R15	32	160			●	329830	-	1100
BNM-R5-M6	40	10	R5	M6	22	BNM-100	FSW-3007H	●	329850	-	650
BNM-R6-M6	40	12	R6	M6	22	BNM-120	FSW-3509	●	329852	-	650
BNM-R8-M8	40	16	R8	M8	22	BNM-160	FSW-4013	●	329854	-	650
BNM-R10-M10	50	20	R10	M10	28	BNM-200	FSW-5016	●	329856	-	650
BNM-R12.5-M12	60	25	R12.5	M12	33	BNM-250	FSW-6020	●	329858	-	800
BNM-R15-M16	65	30	R15	M16	41	BNM-300	FSW-8025	●	329860	-	800
BNM-S100-M5	40	10	-	M5	20	BNM-S100	FSW-3007H	●	329870	-	650
BNM-S120-M6	40	12	-	M6	22	BNM-S120	FSW-3509	●	329872	-	650
BNM-S160-M8	40	16	-	M8	28	BNM-S160	FSW-4013	●	329874	-	800
BNM-S200-M10	50	20	-	M10	30	BNM-S200	FSW-5016	●	329876	-	800

T2139 球形有孔精铣刀







- •采用高性能合金结构钢材
- •刀片切削刃锋利，可加工不同的材质
- •高精度保证其高性能，高速切削亦稳定

- ★ High-performance alloy structural steel.
- ★ Blade cutting edge sharp, can process different materials.
- ★ Precision to ensure its high-performance, high-speed cutting is also stable.

切削参数 (Cutting Parameters): D52
零配件 (Spare Parts): P01-P04

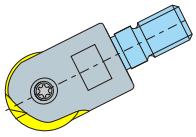
型号 Cat. No	尺寸 Size D	d	L	L1	a	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
T2139C08-4R-110	8	8	110	25	4	P320 □-D 08	T2139 4R	T8	●	329900	-	195
T2139C10-4R-100	8	10	100	25	4				●	329902	100	195
T2139C12-4R-130	8	12	130	40	4				●	329904	100	220
T2139C16-4R-150	8	16	150	40	4				●	329906	127	-
T2139C10-5R-120	10	10	120	30	5	P320 □-D 10	T2139 5R	T15	●	329908	100	160
T2139C12-5R-150	10	12	150	40	5				●	329910	100	180
T2139C16-5R-150	10	16	150	40	5				●	329912	127	-
T2139C12-6R-130	12	12	120	40	6	P320 □-D 12	T2139 6R	T20	●	329914	100	160
T2139C12-6R-150	12	12	150	50	6				●	329916	100	180
T2139C16-6R-150	12	16	150	50	6				●	329918	127	-
T2139C16-6R-200	12	16	200	50	6				●	329920	150	-
T2139C16-8R-150	16	16	150	50	8	P320 □-D 16	T2139 8R	T20	●	329922	133	185
T2139C16-8R-200	16	16	200	60	8				●	329924	167	240
T2139C20-8R-200	16	20	200	60	8				●	329926	200	-
T2139C25-8R-250	16	25	250	60	8				●	329928	233	-
T2139C20-10R-150	20	20	150	50	10	P320 □-D 20	T2139 10R	T20	●	329930	167	260
T2139C20-10R-200	20	20	200	60	10				●	329932	200	320
T2139C25-10R-250	20	25	250	60	10				●	329934	233	360
T2139C32-10R-300	20	32	300	60	10				●	329936	267	-
T2139C25-12.5R-150	25	25	150	45	12.5	P320 □-D 25	T2139 12.5R	T30	●	329938	200	520
T2139C25-12.5R-200	25	25	200	55	12.5				●	329940	233	580
T2139C25-12.5R-250	25	25	250	60	12.5				●	329942	267	-
T2139C25-12.5R-300	25	32	300	60	12.5				●	329944	300	-
T2139C32-12.5R-200	25	32	200	98	12.5				●	329946	-	630
T2139C32-12.5R-250	25	32	250	120	12.5	P320 □-D 30	T2139 15R	T30	●	329948	-	690
T2139C32-12.5R-300	25	32	300	60	12.5				●	329950	333	-
T2139C32-15R-150	30	32	150	45	15				●	329952	217	-
T2139C32-15R-200	30	32	200	55	15				●	329954	250	750
T2139C32-15R-250	30	32	250	60	15				●	329956	283	-
T2139C32-15R-300	30	32	300	60	15				●	329958	317	-
T2139C32-15R-350	30	32	350	60	15				●	329960	367	-
T2139C40-15R-250	30	40	250	121	15				●	329962	-	830
T2139C32-16R-150	32	32	150	45	16	P320 □-D 32	T2139 16R	T30	●	329964	217	-
T2139C32-16R-200	32	32	200	55	16				●	329966	250	800
T2139C32-16R-250	32	32	250	60	16				●	329968	283	-
T2139C32-16R-300	32	32	300	60	16				●	329970	317	-
T2139C32-16R-350	32	32	350	60	16				●	329972	367	-
T2139C40-16R-250	32	40	250	121	16				●	329974	-	920
T2139C40-16R-350	32	40	350	121	16				●	329976	-	1400

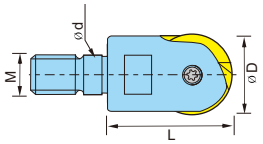
■ 切削能力及精度均佳，排削好，高速切削稳定，有很宽的 应用范围。
可应用于模具用材料的精加工及燃汽轮机叶片的制造。

■ Cutting ability and precision are good, the row of cut is good, high-speed cutting stability, and has a wide range of applications.
Can be applied to abrasive materials used in finishing and the manufacture of gas turbine blades.

■ T2139M 球型精铣刀

Ball Precision Cutters (T2139M)







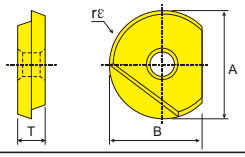
切削参数 (Cutting Parameters): D52
零配件 (Spare Parts): P03-P05

型 号 Cat. No	尺 寸 Size D	L	d	M	Teeth	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
T2139M4R-M4	R4	25	4.5	M4	1	P32..-D08	T2139-4R	T10	●	331120	350
T2139M5R-M5	R5	25	5.5	M5	1	P32..-D10	T2139-5R	T20	●	331122	350
T2139M6R-M6	R6	35	6.5	M6	1	P32..-D12	T2139-6R	T20	●	331100	350
T2139M8R-M8	R8	35	8.5	M8	1	P32..-D16	T2139-8R	T20	●	331102	350
T2139M10R-M10	R10	35	10.5	M10	1	P32..-D20	T2139-10R	T20	●	331104	400
T2139M12.5R-M12	R12.5	40	12.5	M12	1	P32..-D25	T2139-12.5R	T30	●	331106	450
T2139M15R-M16	R15	40	17	M16	1	P32..-D30	T2139-15R	T30	●	331108	500
T2139M16R-M16	R16	40	17	M16	1	P32..-D32	T2139-16R	T30	●	331110	600

P3200 球形精铣 双面有孔 仿形加工

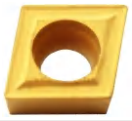
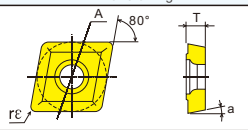
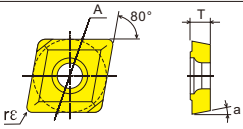
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
球头仿形精铣加工 Finish milling of ball head profiling			P3200- D08 D10 D12 D16 D20 D25 D30 D32	4 5 6 8 10 12.5 15 16	8 10 12 16 20 25 30 32	7 8.5 10 12 15 18.5 22.5 23.5	2.4 2.6 3 4 5 6 7 7	刀柄： (Toolholder) D51	●	●	●	●	●	●	●	●	●	●	●	●

用途 Application	被加工材料 Processed Material	刀片材质 Inserts Material	切削速度 Cutting Speed Vc(m/min)	切削条件 Cutting Condition	切削参数 Cutting Parameter Ø6	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	Ø30	Ø32
P	普通结构用钢 Mild Steels SS	ZP201 ZC32S ZN60 ZP152	180-230	切削深度 ap(mm)	0.05	0.07	0.1	0.1	0.12	0.12	0.15	0.15	0.15
				每刃进给量 f(mm/t)	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.6
	碳素钢、合金钢 Carbon Steel& Alloy Steels S-C SCM	ZP201 ZC32S ZP150 ZP152	150-200	切削深度 ap(mm)	0.05	0.07	0.1	0.1	0.12	0.12	0.15	0.15	0.15
				每刃进给量 f(mm/t)	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.6
	模具钢 (300HB以下) Die Steel SKD SKT	ZP152 ZP153	130-180	切削深度 ap(mm)	0.05	0.05	0.06	0.09	0.09	0.09	0.11	0.11	0.11
				每刃进给量 f(mm/t)	0.15	0.25	0.3	0.4	0.4	0.4	0.5	0.5	0.5
	预硬化钢 (30~40HRC) Pre-Harden Steel	ZP153 ZP163	70-90	切削深度 ap(mm)	0.02	0.04	0.05	0.07	0.09	0.09	0.11	0.11	0.11
				每刃进给量 f(mm/t)	0.15	0.25	0.3	0.4	0.5	0.5	0.6	0.6	0.6
M	不锈钢 Stainless Steels SUS	ZP152 ZP153	90-130	切削深度 ap(mm)	0.03	0.05	0.06	0.09	0.09	0.09	0.11	0.11	0.11
				每刃进给量 f(mm/t)	0.15	0.25	0.3	0.4	0.4	0.4	0.5	0.5	0.5
	不锈钢(湿式切削) Stainless Steel (wet condition) SUS	ZP152 ZP153	90-130	切削深度 ap(mm)	0.03	0.05	0.06	0.09	0.09	0.09	0.11	0.11	0.11
				每刃进给量 f(mm/t)	0.15	0.25	0.3	0.4	0.4	0.4	0.5	0.5	0.5
K	铸铁 Cast Iron FC.FCD	ZC32S ZP201 ZP152	200-400	切削深度 ap(mm)	0.06	0.08	0.1	0.15	0.17	0.17	0.19	0.19	0.19
				每刃进给量 f(mm/t)	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.7
N	铝/铜/镁/锌/塑料/木材 Aluminum/Copper/Magnesium /Zinc/Plastic/Wood	PCD ZK01	150-300	切削深度 ap(mm)	0.12	0.15	0.17	0.2	0.26	0.26	0.3	0.3	0.3
				每刃进给量 f(mm/t)	0.25	0.3	0.5	0.6	0.7	0.7	0.8	0.8	0.8
S	硬质合金/粉末冶金 Carbide/Powder Metallurgy	ZP152 ZP153 ZP163	20-50	切削深度 ap(mm)	0.02	0.04	0.05	0.06	0.08	0.08	0.1	0.1	0.1
				每刃进给量 f(mm/t)	0.1	0.2	0.25	0.25	0.3	0.3	0.5	0.5	0.5
H	钛/高温合金/碳纤维 Titanium/Superalloy /Carbon Fiber	ZP152 ZP153 ZP163	25-60	切削深度 ap(mm)	0.02	0.04	0.05	0.06	0.08	0.08	0.1	0.1	0.1
				每刃进给量 f(mm/t)	0.1	0.2	0.25	0.25	0.3	0.3	0.5	0.5	0.5

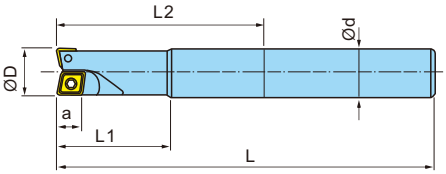
CCMT CPMT 铣削刀片 钻铣共用 有孔

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	T	配套刀柄 Matching Toolholder	PCD CBN-K CBN-S ZN60 ZK01 ZC32S ZP201 ZP151 ZP152 ZP153 ZP163
平面铣削 / 倒角加工 Plane milling / chamfering			CCMT 060204	0.4	6.35	2.38	刀柄 : (Toolholder) D53	●●●●●●●
			09T304	0.4	9.525	3.9		●●●●●●●
			09T308	0.8	9.525	3.9		●●●●●●●
			CPMT 090308	0.8	9.525	3.15		●●●
			120408	0.8	12.7	4.76		●●●
			120430	3.0	12.7	4.76		
平面铣削 / 倒角加工 Plane milling / chamfering			CPMT 080204Z	0.4	7.94	2.38	刀柄 : (Toolholder) D53	●●●
			090204Z	0.4	9.525	2.38		●●●
			120308Z	0.8	12.7	3.15		●●●
			160408Z	0.8	15.875	4.76		●●●
			160430Z	3.0	15.875	4.76		
			190408Z	0.8	19.05	4.76		
			190430Z	3.0	19.05	4.76		

■ TJU 钻铣刀

Drilling And Milling Cutter







☞ 切削参数 (Cutting Parameters): R18
零配件 (Spare Parts): P01-P04

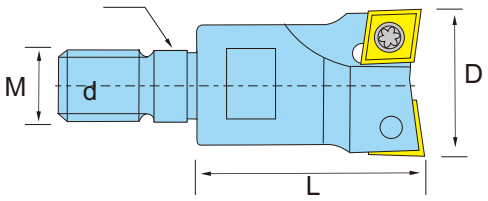
●钻铣共用，适用范围广
●切削阻力小，负荷轻

★ Drilling and milling shared wide scope of application.
★ Cutting resistance, the load light.

型号 Cat. No	尺寸 Size D	d	L	L1	L2	a	刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
TJUC08-08-100-1T	8	8	100	30	-	6	1	CCMT 060204 CPMT 080204Z	M2.5×6	T8	●	332700	-	90
TJUC10-10-100-1T	10	10	100	25	-	6	1				●	332702	67	90
TJUC12-12-130-1T	12	12	130	30	-	6	1				●	332704	67	95
TJUC16-16-120-2T	16	16	120	40	-	6	2	CCMT 060204 CPMT 090204Z	M2.5×6 M3.5×8	T8 T15	●	332706	93	110
TJUC16-16-150-2T	16	16	150	50	-	6	2				●	332708	93	120
TJUC16-16-200-2T	16	16	200	60	100	6	2				●	332710	110	150
TJUC25-16-250-2T	16	25	250	60	-	6	2				●	332712	167	-
TJUC16-17-120-2T	17	16	120	40	-	6	2				●	332714	93	-
TJUC16-17-150-2T	17	16	150	50	100	6	2				●	332716	93	120
TJUC16-17-200-2T	17	16	200	60	100	6	2				●	332718	110	150
TJUC20-20-120-2T	20	20	120	40	-	6	2				●	332720	107	-
TJUC20-20-150-2T	20	20	150	50	-	6	2				●	332722	107	140
TJUC20-20-200-2T	20	20	200	60	100	6	2				●	332724	127	150
TJUC25-20-250-2T	20	25	250	60	-	6	2				●	332726	200	-
TJUC20-21-150-2T	21	20	150	40	100	6	2				●	332728	107	140
TJUC20-21-200-2T	21	20	200	50	-	6	2				●	332730	127	-
TJUC25-25-150-2T	25	25	150	50	-	9	2	CPMT 090308 CPMT 120308Z	M4×9	T15	●	332732	133	160
TJUC25-25-200-2T	25	25	200	60	-	9	2				●	332734	160	180
TJUC25-25-250-2T	25	25	250	70	115	9	2				●	332736	200	195
TJUC32-25-300-2T	25	32	300	70	-	9	2				●	332738	300	-
TJUC25-26-150-2T	26	25	150	50	-	9	2				●	332740	133	160
TJUC25-26-200-2T	26	25	200	60	115	9	2				●	332742	160	180
TJUC25-26-250-2T	26	25	250	60	-	9	2				●	332744	200	-
TJUC32-32-150-2T	32	32	150	60	-	12	2	CPMT 120408 CPMT 160408Z	M5×12	T20	●	332746	200	200
TJUC32-32-200-2T	32	32	200	60	-	12	2				●	332748	227	210
TJUC32-32-250-2T	32	32	250	60	-	12	2				●	332750	267	220
TJUC32-32-300-2T	32	32	300	60	165	12	2				●	332752	333	250
TJUC32-32-350-2T	32	35	350	60	215	12	2				●	332754	400	-

■ TJUM 钻铣刀

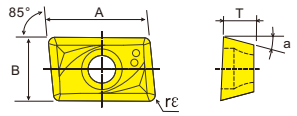
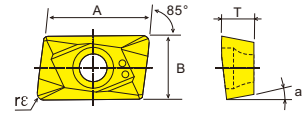
Boring & Milling Cutter(TJUM)



☞ 切削参数 (Cutting Parameters): R18
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	L	d	M	Teeth	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
TJUM162M08	16	35	8.5	M8	2	CCMT060204 CPMT080204Z	M2.5X6	T8	●	332800	150
TJUM202M10	20	35	10.5	M10	2	CCMT060204 CPMT090204Z	M2.5X6/M3.5X8	T8/T15	●	332802	150
TJUM252M12	25	40	12.5	M12	2	CPMT090308 CPMT120308Z	M4X9	T15	●	332804	160
TJUM322M16	32	40	17	M16	2	CPMT120408 CPMT160408Z	M5X12	T20	●	332806	200

ADMT APMT 钻铣共用有孔铣削刀片

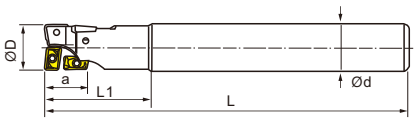
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	a	配套刀柄 Matching Toolholder	PCD CBN-K CBN-S ZN01 ZC32S ZP201 ZP151 ZP152 ZP153 ZP163
平面铣削／倒角加工 Plane milling／chamfering		 底刃	ADMT 080308L	0.8	7.8	6.2	3.0	15	刀柄：(Toolholder) D54	● ●●
			100308L	0.8	10.4	6.35	3.18	15		● ●●
			12T308L	0.8	12.6	7.93	3.9	15		● ●●
			APMT 160408L	0.8	16.45	9.53	4.76	11		● ●●
			170408L	0.8	17.6	9.53	4.76	11		
			190508L	0.8	19.6	10	5.0	11		
			250508L	0.8	25.4	11	5.5	11		
平面铣削／倒角加工 Plane milling／chamfering		 外周刃	APMT 090208R	0.8	9.1	5.1	2.6	11	刀柄：(Toolholder) D54	● ●●
			ACMT 100308R	0.8	10.1	6.35	3.4	7		● ●●
			APMT 100320R	2.0	10.1	6.35	3.4	7		
			12T308R	0.8	13.14	7.93	3.9	11		● ●●
			12T320R	2.0	13.14	7.93	3.9	11		
			12T330R	3.0	13.14	7.93	3.9	11		
			150408R	0.8	15.88	9.53	4.76	11		● ●●
			150430R	3.0	15.88	9.53	4.76	11		

■ ASJ-4P 钻铣刀

Drilling and milling cutter







☞ 切削参数 (Cutting Parameters): R18
零配件 (Spare Parts): P01-P04

- 无底孔状态下由钻孔加工至立铣加工
- 底刃刀片角度较大，加工阻力轻
- 刀片为四刃，可做深粗铣加工

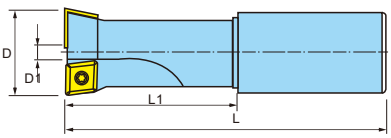
★ Bottom-free state from drilling to milling process.
★ At the end of blade edge angle of greater resistance to light processing.
★ Four-edge blade, do the deep rough milling.

型号 Cat. No	尺寸 Size D	d	L	L1	L2	a	刀片 Insert 底刃 外周刃	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
ASJC16-17-160-4T	17	16	160	40	-	16	ADMT080308L APMT09208R	M2.5×6/M2×5	T8/T6	●	332400	175
ASJC20-20-160-4T	20	20	160	40	-	20	ADMT1003□□L ACMT1003□□L	M2.5×6	T8	●	332402	200
ASJC20-20-200-4T	20	20	200	40	-	20				●	332404	215
ASJC20-21-160-4T	21	20	160	35	-	20				●	332406	200
ASJC20-21-200-4T	21	20	200	35	-	20				●	332408	215
ASJC25-25-160-4T	25	25	160	50	-	25	ADMT12T3□□L APMT12T3□□L	M3.5×7	T10	●	332410	230
ASJC25-25-200-4T	25	25	200	75	-	25				●	332412	250
ASJC25-25-250-4T	25	25	250	75	-	25				●	332414	270
ASJC25-26-160-4T	26	25	160	50	-	25				●	332416	230
ASJC25-26-200-4T	26	25	200	50	-	25				●	332418	250
ASJC25-26-250-4T	26	25	250	50	-	25				●	332420	270
ASJC25-30-160-4T	30	25	160	80	-	25	APMT1604□□L APMT1504□□L	M4×9	T15	●	332422	240
ASJC25-30-200-4T	30	25	200	80	-	25				●	332424	260
ASJC32-30-250-4T	30	25	250	80	-	25				●	332426	280
ASJC32-33-160-4T	33	32	160	80	-	32				●	332428	250
ASJC32-33-200-4T	33	32	200	90	-	32				●	332430	275
ASJC32-33-250-4T	33	32	250	120	-	32				●	332432	300
ASJC32-35-160-4T	35	32	160	80	-	32				●	332434	250
ASJC32-35-200-4T	35	32	200	90	-	32				●	332436	275
ASJC32-35-250-4T	35	32	250	120	-	32				●	332438	300
ASJC32-35-300-4T	35	32	300	120	-	32				●	332440	330
ASJC32-35-350-4T	35	32	350	120	-	32				●	332442	375
ASJC32-35-400-4T	35	32	400	120	-	32				●	332444	400

■ CH 螺丝沉头孔铣刀

Screw Countersunk Head Milling Cutter





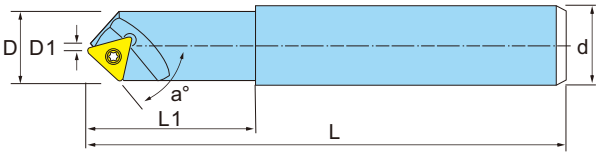
☞ 切削参数 (Cutting Parameters): R18
零配件 (Spare Parts): P01-P04

- 把传统的钻孔与沉头加工结合于一体，一次加工完成，大幅提高螺丝沉头孔的加工效率

型号 Cat. No	尺寸 Size D	D1	d	L1	L	刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
CH-8-14-C25	14	2.9	25	21	108	1	CCMT060204	M2.5×6	T8	●	332600	200
CH-10-17.5-C25	17.5	5.3	25	26	115	2				●	332602	200
CH-12-20-C25	20	7.8	25	30	120	2				●	332604	200
CH-14-23-C25	23	10.8	25	34.5	126	2				●	332606	250
CH-16-26-C32	26	8.5	32	39	132	2	CCMT09T308	M4×9	T15	●	332608	250
CH-18-29-C32	29	11.5	32	43.5	139	2				●	332610	300
CH-20-32-C32	32	14.5	32	59	144	2				●	332612	300

SSP45° 定位倒角 有孔 铣削刀片





零配件 (Spare Parts): P01-P04

- 本铣刀可45° 切削，亦可做倒角，V槽切削，可中心定位钻使用
- 适合一般铣床，CNC铣床，CNC车床，钻床倒角

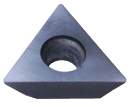
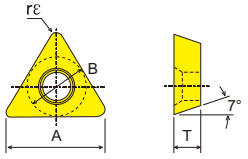
- ★ This cutter can be 45 ° cutting, chamfering can be done, groove cutting, drilling may be the use of central location
- ★ Suitable for general milling machine, CNC milling machines,CNC lathes, drilling chamfering

型号 Cat. No	尺寸 Size						刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L1	L	a°									
SSPC12-12-110	12	12	0	30	110	45°	1	Ø0~Ø12	45°	TCMX0902..	M2.2x5	T6	●	333801	200
SSPC12-12-105-TC10	12	12	0	26	105	45°	1	Ø0~Ø12	45°	TCMX1003..	M2.5x5	T8	●	333803	200
SSPC16-15-110	15	16	0	30	110	45°	1	Ø0~Ø15	45°	TCMX1102..	M2.5x6	T8	●	333802	200
SSPC16-16-110-TC13	16	16	0	30	110	45°	1	Ø0~Ø16	45°	TCMX13T3..	M3.5x8	T15	●	333805	200
SSPC20-20-130	20	20	0	30	130	45°	1	Ø0~Ø20	45°	TCMX16T3..	M4x9	T15	●	333800	200

TCMX 铣削加工 Milling 定点倒角 Fixed point chamfer 有孔 With Holes

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
定位定点倒角加工 Positioning point chamfering			TCMX 090204	0.4	8.6	5.56	2.38	刀柄 : (Toolholder) D55							●		●		
			110204	0.4	10	6.35	2.38								●		●		
			16T304	0.4	15.5	9.525	3.97								●		●		
			TCMX 100304E	0.4	10	6.0	3.18									●		●	
			13T304E	0.4	13.4	7.94	3.97									●		●	
			16T304E	0.4	16.5	9.525	3.97									●		●	

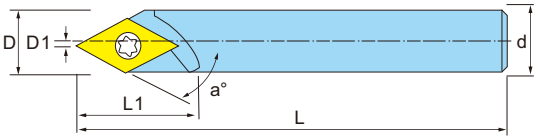


SSP07-60 °

定点钻 / 倒角刀

SSP07-60° Positioning Chamfering







DCEX070204-ZP163

型号 Cat. No	尺寸 Size						刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L1	L	a°									
SSP07-C04-40L-60°		4		20	40	60°	1	Ø0~Ø7	60°	DCEX0702..	M2.5x5	T8	●		
SSP07-C06-60L-60°		6		20	60	60°	1	Ø0~Ø7	60°	DCEX0702..	M2.5x5	T8	●		
SSP07-C08-80L-60°		8		-	80	60°	1	Ø0~Ø7	60°	DCEX0702..	M2.5x5	T8	●		

工件材质 Workpiece material		主轴速度r.p.m Spindle speed r.p.m	机台进给（mm/rev） Machine feed (mm/rev)	刀片材质 Blade material
碳钢	Carbon steel	5000~40000	0.01~0.05	ZP50,ZP15
合金钢	Alloy steel	5000~40000	0.01~0.03	ZP15,ZP163
热处理≥**HRC40°~56**	Heat treatment ≥HRC40°~56	5000~40000	0.01~0.02	ZP163,ZP16S
不锈钢	Stainless steel	5000~40000	0.01~0.05	ZP15,ZP163
铸铁	Cast iron	5000~40000	0.01~0.03	ZP163
铝、非铁金属	Aluminum, non-ferrous metals	5000~40000	0.01~0.08	ZK01

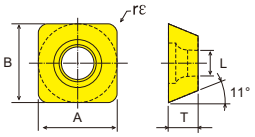
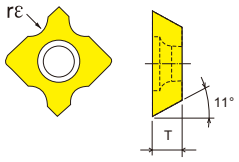
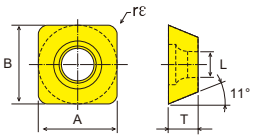
下刀深度Tmax:2mm Cutting depth Tmax: 2mm

材质 material quality / AP		1st	2nd	3rd	4th	5th	6th		精细加工 Fine processing
碳钢	Carbon steel	0.8	0.6	0.3	0.2	0.1	–	–	0. 1
合金钢	Alloy steel	0.5	0.4	0.3	0.3	0.2	0. 2	0. 1	0. 1
热处理≥**HRC40°~56**	Heat treatment ≥HRC40°~56	0.2	0.2	0.15	0.15	0.1	0.1	0. 1	0. 55
不锈钢	Stainless steel	0.5	0.4	0.3	0.3	0.2	0.2	0. 1	0. 55
铸铁	Cast iron	0.8	0.6	0.3	0.2	0.1	–	–	0. 1
铝、非铁金属	Aluminum, non-ferrous metals	1.0	0.8	0.2	–	–	–	–	0. 1

SP 定位倒角有孔铣削刀片

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

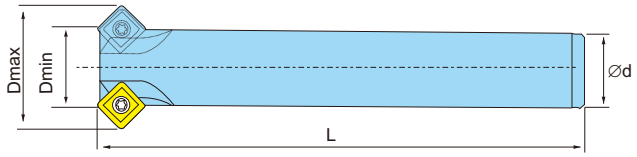
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
倒角刀片 Chamfer Inserts			SPGX 050204 060204 090404	0.4 0.4 0.4	5.0 6.0 9.8	5.0 6.0 9.8	2.38 2.38 4.30	2.2 2.6 4.2	刀柄: (Toolholder) D57-D58		●		●			●	●	●	●	●
倒角刀片 Chamfer Inserts			SPGX0904-R1.0 R1.5 R2.0 R2.5 R3.0 R4.0 R5.0	1.0 1.5 2.0 2.5 3.0 4.0 5.0			4.3 4.3 4.3 4.3 4.3 4.3 4.3		刀柄: (Toolholder) D57-D58		●		●			●	●	●	●	●
钻孔刀片 Drilling Inserts			SPMT 040204-PD SPMG 050204-TT 060204-TT 07T308-TT 090408-TT 110408-TT 140512-TT	0.4 0.4 0.4 0.8 0.8 0.8 1.2	4.7 5.0 6.0 7.94 9.8 11.5 14.3	4.7 5.0 6.0 7.94 9.8 11.5 14.3	2.38 2.38 2.38 3.97 4.30 4.8 5.0	2.3 2.2 2.6 2.8 4.2 4.4 5.75	刀柄: (Toolholder) D57-D58											

B45 内外倒角刀

Internal And External Chamfering



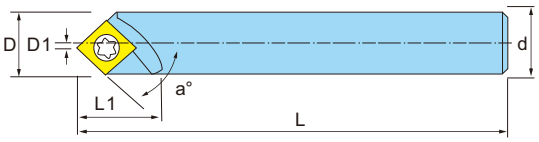


型号 Cat. No	尺寸 Size Dmax	Dmin	d	L	a°	刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
B45-C10-7-60-2T-SP04	11	7	10	60	45°	2	Ø7~Ø11	90°	SPMT04	M1.8x4	T6	●		
B45-C12-11-100-4T-SP04	16	11	12	100	45°	4	Ø11~Ø16	90°	SPMT04	M1.8x4	T6	●		
B45-C12-4-120-1T-SP05	9	4	12	120	45°	1	Ø4~Ø9	90°	SPMG05	M2.0x5	T6	●		
B45-C12-6-120-1T-SP05	11	6	12	120	45°	1	Ø6~Ø11	90°	SPMG05	M2.0x5	T6	●		
B45-C12-8-120-1T-SP06	16	8	12	120	45°	1	Ø8~Ø16	90°	SPMG06	M2.2x5	T6	●		
B45-C16-15-120-4T-SP06	21	15	16	120	45°	4	Ø15~Ø21	90°	SPMG06	M2.2x5	T6	●		
B45-C16-14-120-1T-SP09	20	14	16	120	45°	1	Ø14~Ø20	90°	SPMG09	M3.5x8	T15	●		
B45-C20-19-130-4T-SP06	25	19	20	130	45°	4	Ø15~Ø25	90°	SPMG06	M2.2x5	T6	●		
B45-C20-17-160-2T-SP07	25	17	20	160	45°	2	Ø17~Ø25	90°	SPMG07	M2.5x6	T8	●		
B45-C20-22-130-4T-SP09	32	22	20	130	45°	4	Ø22~Ø32	90°	SPMG09	M3.5x8	T15	●		
B45-C20-9-120-1T-SC09	22	9	20	120	45°	1	Ø9~Ø22	90°	SCMT09	M4.0x9	T15	●		
B45-C20-19-120-2T-SC09	32	19	20	120	45°	2	Ø19~Ø32	90°	SCMT09	M4.0x9	T15	●		
B45-C25-22-180-4T-SP09	32	22	25	180	45°	4	Ø22~Ø32	90°	SPMG09	M3.5x8	T15	●		

Work piece Material		线速 wire speed	每刃进给 Feed per blade		
			SP..04/05..	SP..06/07..	SP..09..
material Group	Sample Code(JIS)		Max.Chamfering1.5mm	Max.Chamfering2.5mm	Max.Chamfering4mm
低碳钢C<0.3%	SS400	150-250-350	0.06~0.12	0.10~0.25	0.10~0.25
中碳钢C>0.3%	S50C, P5	200-300-400	0.06~0.10	0.10~0.20	0.10~0.25
低合金C<0.3%	SCM420	180-240-260	0.06~0.10	0.10~0.20	0.10~0.20
合金钢C>0.3%	SKD11	120-150-200	0.06~0.10	0.10~0.15	0.10~0.15
热处理<HRC50°	SKD61SU	80-90-100	0.06~0.10	0.06~0.12	0.10~0.15
不锈钢	S304	120-150-180	0.06~0.10	0.06~0.15	0.10~0.20
铸铁	FC25	120-150-180	0.06~0. 10	0.10~0.15	0.10~0.20
铜、铝非铁金属	A6061	200-400-600	0.06~0.15	0.10~0.25	0.10~0.25

SSP-90° 定点钻 / 倒角刀
SSP-90° Positioning Chamfering



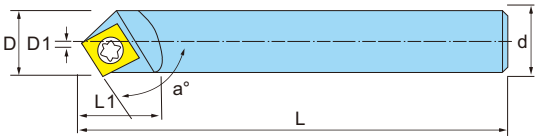




SPGX050204-ZP163
SPGX060204-ZP163
SPGX090404-ZP163

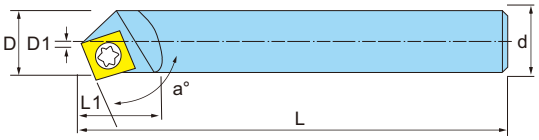
型号 Cat. No	尺寸 Size						刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L1	L	a°									
SSP05-C06-70L-90°	5	6	0		70	45°	1	Ø0~Ø5	90°	SPGX05	M2.0x5	T6	●		
SSP06-C08-80L-90°	7	8	0		80	45°	1	Ø0~Ø7	90°	SPGX06	M2.2x5	T6	●		
SSP09-C10-100L-90°	12.5	10	0		100	45°	1	Ø0~Ø12.5	90°	SPGX09	M3.5x8	T15	●		
SSP09-C12-100L-90°	12.8	12	0		100	45°	1	Ø0~Ø12.8	90°	SPGX09	M3.5x8	T15	●		

SP-120° 倒角刀
SP-120° Chamfering



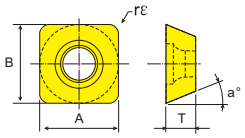
型号 Cat. No	尺寸 Size						刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L1	L	a°									
SP09-C12-100L-120°	13	12	3		100	60°	1	Ø3~Ø13	120°	SPMG09	M3.5x8	T15	●		
SP09-C16-100L-120°	16	16	5		100	60°	1	Ø5~Ø16	120°	SPMG09	M3.5x8	T15	●		
SP09-C20-100L-120°	20	20	10		100	60°	1	Ø10~Ø20	120°	SPMG09	M3.5x8	T15	●		

SP-142° 倒角刀
SP-142°Chamfering



型号 Cat. No	尺寸 Size						刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L1	L	a°									
SP09-C16-100L-142°	16	16	5		100	71°	1	Ø5~Ø16	142°	SPMG09	M3.5x8	T15	●		
SP09-C20-100L-142°	20	20	10		100	71°	1	Ø10~Ø20	142°	SPMG09	M3.5x8	T15	●		

SPMW SDMB 倒角加工 有孔 铣削刀片

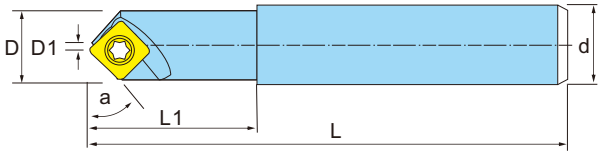
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸Dimension (mm) rε	A	B	T	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	CN60	ZK01	ZK02S	ZP251	ZP150	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			SPMW090304	0.4	9.525	9.525	3.18	11°	刀柄：(Toolholder) D59		•		•	•	••					
			SDMB 26152	0.4	8.3	8.3	2.5	15°			•		•	•	••					

SB-45° 倒角刀
Chamfering

● 用于内外倒角加工，端面槽加工
● 刀片形状为正方形，使用时可转位4次，更经济

★ For internal and external chamfering processing, end-groove.
★ Blade shape is square, use indexable four times more economical.





零配件 (Spare Parts): P01-P04

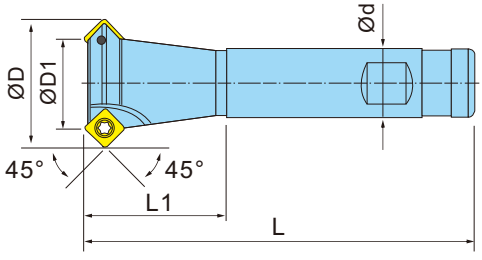
型号 Cat. No	尺寸 Size D	d	D1	L1	L	a	刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SB16-C16-110	15	16	3	30	110	45°	1	Ø3~Ø15	45°	SPMW0903	M4x8	T15	•	333820	200
SD03-C12-110	12	12	4	30	110	45°	1	Ø4~Ø12	45°	SDMB26152	M3x7	T8	•	333822	200

SD-45° 内外倒角刀
Internal And External Chamfering

● 用于内外倒角加工，端面槽加工
● 刀片形状为正方形，使用时可转位4次，更经济

★ For internal and external chamfering processing, end-groove.
★ Blade shape is square, use indexable four times more economicial.

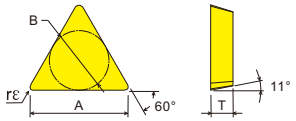
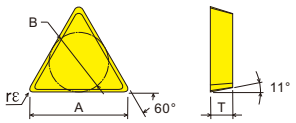




零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	D1	L1	L	a	刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SD12-C16-110-1T	22	16	12	30	110	45°	1	Ø12~Ø22	45°	SDMB26152	M3x7	T8	•	333600	200
SD25-C20-110-2T	25	20	15	30	110	45°	2	Ø15~Ø25	45°				•	333602	200
SD20-C20-110-2T	30	20	22	30	110	45°	2	Ø22~Ø30	45°				•	333604	200
SD30-C20-110-2T	40	20	30	30	110	45°	2	Ø30~Ø40	45°					333608	250
SD40-C20-110-2T	50	20	40	30	110	45°	2	Ø40~Ø50	45°					333610	300

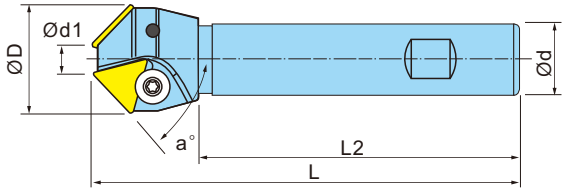
TPKN TPKR 直角/倒角 无孔 铣削刀片

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
平面铣削 / 倒角加工 Plane milling / chamfering			TPKN 110304	0.4	11	6.35	3.18	刀柄 : (Toolholder) D60		•		•	•	•	•	•	•	•	•
			110308	0.8	11	6.35	3.18			•		•	•	•	•	•	•	•	•
			160304	0.4	16.5	9.525	3.18			•		•	•	•	•	•	•	•	•
			160308	0.8	16.5	9.525	3.18			•		•	•	•	•	•	•	•	•
			220404	0.4	22	12.7	4.76			•		•	•	•	•	•	•	•	•
			220408	0.8	22	12.7	4.76			•		•	•	•	•	•	•	•	•
			220412	1.2	22	12.7	4.76			•		•	•	•	•	•	•	•	•
			2204PDR	-	22	12.7	4.76			•		•	•	•	•	•	•	•	•
平面铣削 / 倒角加工 Plane milling / chamfering			TPMR 090204	0.4	9.6	5.56	2.38	刀柄 : (Toolholder) D60		•		•	•	•	•	•	•	•	•
			110304	0.4	11	6.35	3.18			•		•	•	•	•	•	•	•	•
			110308	0.8	11	6.35	3.18			•		•	•	•	•	•	•	•	•
			160304	0.4	16.5	9.525	3.18			•		•	•	•	•	•	•	•	•
			160308	0.8	16.5	9.525	3.18			•		•	•	•	•	•	•	•	•
			160312	1.2	16.5	9.525	3.18			•		•	•	•	•	•	•	•	•
			220412	1.2	22	12.7	4.76			•		•	•	•	•	•	•	•	•
			330916	1.6	33	19.05	9.52			•		•	•	•	•	•	•	•	•

TP30°/ 45°/ 60°

倒角刀
Chamfering







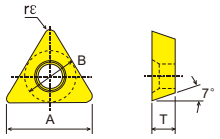
☞ 零配件 (Spare Parts): P01-P04

- 可30°/45°/60°切削，亦可倒角
- 适合加工中心及一般铣床用

★ Can be 30 °, 45 °, 60 ° cutting, can be chamfered.
★ Milling machine for machining centers and general use.

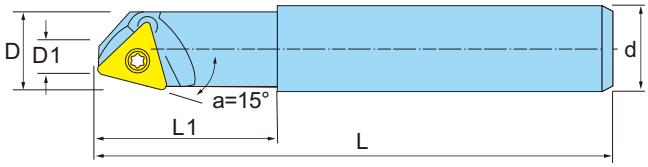
型号 Cat. No	尺寸 Size a°	D	d1	d	L	L2	倒角范围 Chamfering range	刃数 No. of flutes	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
TP16R30C20-40-120-2T	30	40	27	20	120	90	Ø27-Ø40	2	TPMN1603..	TP-16	1/4伞形	L4	•	333400	200
TP16R45C16-20-110-1T	45	20	5	16	110	80	Ø5-Ø20	1	TPMN1603..	TP-16	1/4伞形	L4	•	333402	200
TP16R45C20-25-110-1T	45	25	5	20	110	80	Ø5-Ø25	1					•	333404	200
TP22R45C20-32-120-1T	45	32	10	20	120	90	Ø10-Ø32	1	TPMN2204..	TP-22	5/16伞形	L5	•	333406	250
TP22R45C20-32-130-2T	45	32	10	20	130	100	Ø10-Ø32	2					•	333408	250
TP22R45C20-50-130-2T	45	50	26	20	130	100	Ø26-Ø50	2					•	333410	300
TP16R60C20-25-110-1T	60	25	10	20	110	80	Ø10-Ø25	1	TPMN1603..	TP-16	1/4伞形	L4	•	333412	200
TP22R60C20-40-120-2T	60	40	16	20	120	90	Ø16-Ø40	2	TPMN2204..	TP-22	5/16伞形	L5	•	333414	250

TCMT 正三角 有孔 多用途

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD CBN-K CBN-S ZN60 ZK01 ZC32S ZP201 ZP150 ZP152 ZP153 ZP163
倒角加工 chamfering			TCMT 090204 110204 16T304	0.4 0.4 0.4	8.6 10 15.5	5.56 6.35 9.525	2.38 2.38 2.38	刀柄 : (Toolholder) D61-D62	● ●●●● ●●●●

■ SSO-15° 倒角刀
15° Chamfering







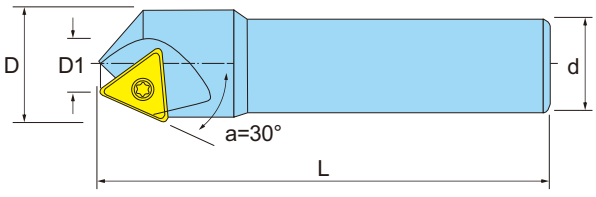
零配件 (Spare Parts):P01-P04

● 适合一般铣床，CNC铣床，CNC车床，钻床倒角
★ Suitable for general milling machine, CNC milling machines,CNC lathes, drilling chamfering

型号 Cat. No	尺寸 Size D	d	D1	L1	L	a	刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SSOC16-16-110	16	16	11	30	110	15°	1	Ø11~Ø16	15°	TCMT1102..	M2.5x6	T8	●	333810	300

■ SSY-30° 倒角刀
30° Chamfering







零配件 (Spare Parts):P01-P04

● 适合一般铣床，CNC铣床，CNC车床，钻床倒角
★ Suitable for general milling machine, CNC milling machines,CNC lathes, drilling chamfering

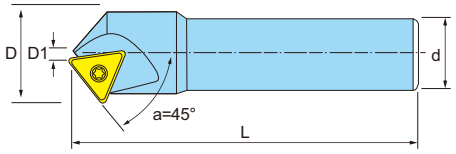
型号 Cat. No	尺寸 Size D	d	D1	L1	L	a	刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SSYC12-12-110	12	12	3	30	110	30°	1	Ø3~Ø12	30°	TCMT0902..	M2.2x5	T6	●	333840	200
SSYC16-16-110	16	16	5	30	110	30°	1	Ø5~Ø16	30°	TCMT1102..	M2.5x6	T8	●	333841	200
SSYC20-20-130	20	20	5	30	130	30°	1	Ø5~Ø20	30°	TCMT16T3..	M4x9	T15	●	333843	200

TCMT 正三角 有孔 多用途

TCM-45° 倒角刀
45° Chamfering







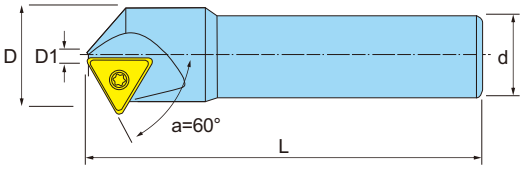
零配件 (Spare Parts):P01-P04

● 适合一般铣床，CNC铣床，CNC车床，钻床倒角
★ Suitable for general milling machine, CNC milling machines,CNC lathes, drilling chamfering

型号 Cat. No	尺寸 Size						刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L1	L	a									
TCMC12-20-110	20	12	5	30	110	45°	1	Ø5~Ø20	45°	TCMT16T3..	M4x9	T15	●	333830	200
TCMC16-20-110	20	16	5	30	110	45°	1	Ø5~Ø20	45°				●	333832	200
TCMC20-25-110	25	20	5	30	110	45°	1	Ø5~Ø25	45°				●	333834	200
TCMC20-30-110	30	20	10	30	110	45°	1	Ø10~Ø30	45°				●	333836	250
TCMC20-40-110	40	20	18	30	110	45°	2	Ø18~Ø40	45°				●	333838	300

SSH-60° 倒角刀
60° Chamfering





零配件 (Spare Parts):P01-P04

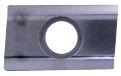
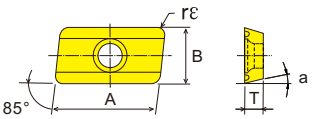
● 适合一般铣床，CNC铣床，CNC车床，钻床倒角
★ Suitable for general milling machine, CNC milling machines,CNC lathes, drilling chamfering

型号 Cat. No	尺寸 Size						刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L1	L	a									
SSHC12-15-110	15	12	4	30	110	60°	1	Ø4~Ø15	60°	TCMT0902..	M2.2x5	T6	●	333820	200
SSHC16-18-130	18	16	4	30	130	60°	1	Ø4~Ø18	60°	TCMT1102..	M2.5x6	T8	● ●	333822	200
SSHC20-25-130	25	20	5	30	130	60°	1	Ø5~Ø25	60°	TCMT16T3..	M4x9	T15		333824	200

ADNT 倒角加工 有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

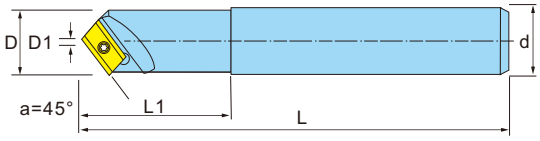
P	钢	Steel	● ● ✖ ✖ ✖ ● ●
M	不锈钢	Stainless Steel	● ✖ ✖ ✖ ✖ ● ●
K	铸铁	Iron	● ● ✖ ✖ ✖ ✖
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	● ●
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	● ✖ ✖ ● ●
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	● ✖ ✖ ● ●

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T		a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
直角台肩铣削 Right Angle Milling			ADNT160308SR	0.8	15.875	9.525	3.18		15°	刀柄 : (Toolholder) D63			●				●		●	●	

■ SSK-45°舍弃式倒角刀

SSK45° Discarding Chamfering







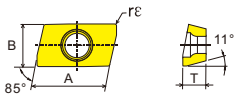
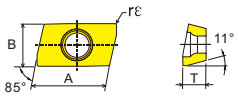
● 本铣刀可45° 切削，亦可做倒角，V槽切削
● 适合一般铣床，CNC铣床，CNC车床，钻床倒角

★ This cutter can be 45 ° cutting, chamfering can be done.
★ Suitable for general milling machine, integrated machining center.

零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	D1	L1	L	a	刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SSKC20-20-130N	20	20	8	30	130	45°	1	Ø8~Ø20	45°	AD..1603..	M4x8	T15	●	333700	200

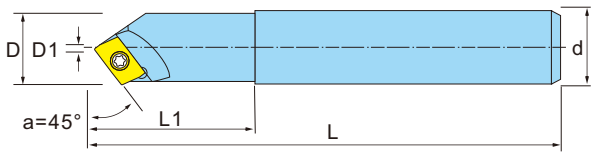
APMT 直角台肩 有孔 铣削刀片

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD CBN-K CBN-S ZN60 ZK01 ZC32S ZP201 ZP151 ZP152 ZP153 ZP163
直角台肩铣削 Right Angle Milling	铜铝非铁金属专用 Special for copper aluminum metal		APKT 160402-AL 160404-AL 160408-AL	0.2 0.4 0.8	16.5 16.5 16.5	9.525 9.525 9.525	4.76 4.76 4.76	刀柄：(Toolholder) D64	• • •
直角台肩铣削 Right Angle Milling	通用加工 General processing		APMT 1135PDER-M2 1604PDER-M2	0.8 0.8	11 16.5	6.35 9.525	3.5 4.76	刀柄：(Toolholder) D64	• • • • • • • •

SSK45° 舍弃式倒角刀

SSK45° Discarding Chamfering





☞ 零配件 (Spare Parts): P01-P04

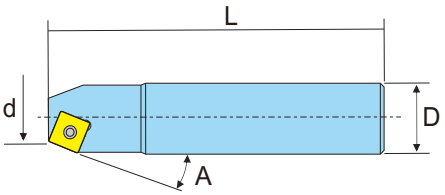
- 本铣刀可45° 切削，亦可做倒角，V槽切削
- 适合一般铣床，CNC铣床，CNC车床，钻床倒角

- ★ This cutter can be 45 ° cutting, chamfering can be done.
- ★ Suitable for general milling machine, integrated machining center.

型号 Cat. No	尺寸 Size D	d	D1	L1	L	a	刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SSK C12-15-110	15	12	5	30	110	45°	1	Ø5~Ø15	45°	AP..1135..	M2.5x6	T8	•	333710	200
SSK C16-16-110	16	16	5	30	110	45°	1	Ø5~Ø16	45°				•	333712	200
SSK C16-20-110	20	16	8	30	110	45°	1	Ø8~Ø20	45°	AP..1604..	M4x9	T15	•	333714	200
SSK C20-20-130	20	20	8	30	130	45°	1	Ø8~Ø20	45°				•	333716	200
SSK C20-20-200	20	20	8	30	200	45°	1	Ø8~Ø20	45°				•	333718	200
SSK C25-25-120	25	25	10	30	120	45°	1	Ø10~Ø25	45°				•	333720	300

BMC/MC 倒角加工 有孔 铣削刀片





倒角加工 Plane milling

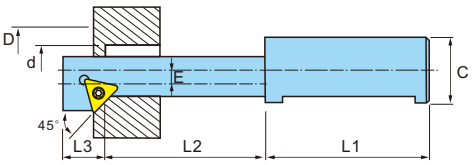
零配件 (Spare Parts): P03-P05

- 多种角度，适用孔背及反边倒角，减少二次装夹，省时高效！
- A Ariety Of Angles, Applicable Hole Back And The Edge Chamfer, Reduce Secondary Clamping, Time Efficient!

型号 Cat. No	尺寸 Size 直径d	倒角角度A	柄径D	总长L	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
BMC09-3015D-C20-150	30	15	20	150	SDMT090308	M4x9	T10	●	333200	350
BMC09-3030D-C20-150	30	30	20	150				●	333202	350
BMC09-3045D-C20-150	30	45	20	150				●	333204	400
BMC09-3060D-C20-150	30	60	20	150				●	333206	400
MC09-1215D-C20-135	12	15	20	135				●	333208	300
MC09-1230D-C20-135	12	30	20	135				●	333210	300
MC09-1245D-C20-135	12	45	20	135				●	333212	350
MC09-1260D-C20-135	12	60	20	135				●	333214	350

■ 倒拉倒角刀
Inverted Chamfering





倒角加工 Plane milling

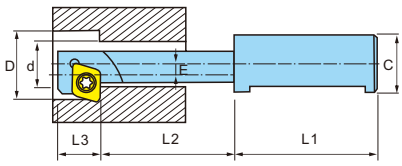
- 不用正反转，减少损坏概率
- 特殊设计本体刚性最佳
- No need for reverse running of spinds that minimizes defect of tool.
- Specially designed body gives maximum rigidity.

零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	C	L1	L2	L3	E	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
BC-2014	20	14	16	48	40	13	3.2	TCMT110204 TCGT110204	M2.5×6.5	T8	●	333100	260
BC-2317	23	17	20	50	50	13	3.2				●	333102	260
BC-2721	27	21	25	56	70	13	3.2				●	333104	380
BC-3124	31	24	25	56	80	13	3.7				●	333106	380

■ 倒拉沉头刀
Inverted Countersunk Head





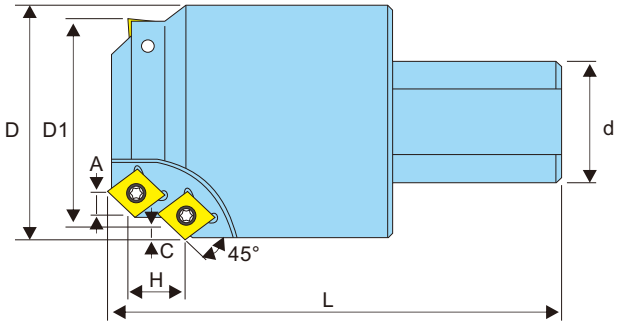
倒角加工 Plane milling

- ●减少二次加工，增加微调机构
- ●不用正反转，减少损坏概率
- ●特殊设计本体刚性最佳
- Reduce secondary processing and add fine-tuning mechanisms
- No need for forward and reverse rotation, reducing the probability of damage
- Specially designed body with optimal rigidity

零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	C	L1	L2	L3	E	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
M10-1810	18	10.5	16	48	35	13	4	CCMT060204 CCGT060204	M2.5×6.5	T8	●	333900	200
M12-2013	20	13	16	48	10	13	3.85				●	333902	200
M16-2617	26	17	20	50	50	13	4.85	CCMT09T308 CCGT09T308	M4×9	T15	●	333904	300
M20-3321	33	21	25	56	70	13	6.4				●	333906	300
M24-4025	40	25	25	56	80	13	7.9				●	333908	300

CA 倒角加工 有孔 沉头刀





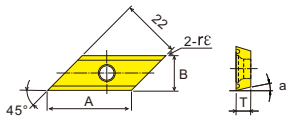
零配件 (Spare Parts): P03-P05

型 号 Cat. No	刀具直径 D	底孔直径 D1	沉孔深度 H	倒角尺寸 A	倒角尺寸 C	柄部直径 d	总长 L	刀片Insert	螺钉Screw	扳手Wrench	Stock	Order Number	Price (RMB)
CA1218-6.5	18	12	6.5	0.8	0.8	25	100	T8	M2.5X6	CCMT 0602..	•	333920	365
CA1521-6.5	21	15	6.5	1.0	0.8	25	120				•	333922	365
CA1622-6.5	22	16	6.5	1.0	0.8	25	120				•	333924	365
CA2026-6.5	26	20	6.5	1.0	0.8	25	120				•	333926	365
CA2026-8.5	26	20	8.5	1.0	0.8	25	120				•	333928	365
CA2531-6.5	31	25	6.5	1.0	0.8	32	120	T15	M4.0X9	CCMT 09T3..	•	333930	365
CA2531-8.5	31	25	8.5	1.0	0.8	32	120				•	333932	365
CA2531-10.5	31	25	10.5	1.0	0.8	32	120				•	333934	365
CA3036-8.5	36	30	8.5	1.0	0.8	32	120				•	333936	365
CA3036-10.5	36	30	10.5	1.0	0.8	32	120				•	333938	365
CA3541-8.5	41	35	8.5	1.0	0.8	32	120				•	333940	433
CA3541-10.5	41	35	10.5	1.0	0.8	32	120				•	333942	433
CA4046-10.5	46	40	10.5	1.0	0.8	32	120				•	333944	500
CA4248-10.5	48	42	10.5	1.0	0.8	32	120				•	333946	500
CA4552-10.5	52	45	10.5	1.0	0.8	32	120				•	333948	548
CA4855-10.5	55	48	10.5	1.0	0.8	32	120				•	333950	548
CA5057-12.5	57	50	12.5	1.0	0.8	32	120				•	333952	548
CA5562-10.5	62	55	10.5	1.0	0.8	32	120				•	333954	548
CA6067-15.5	67	60	15.5	1.0	0.8	40	130				•	333956	705
CA7077-12.5	77	70	12.5	1.0	0.8	40	130				•	333958	820
CA7077-15.5	77	70	15.5	1.0	0.8	40	130				•	333960	820
CA8088-15.5	88	80	15.5	1.0	0.8	40	130				•	333962	978
CA8088-20.5	88	80	20.5	1.0	0.8	40	130				•	333964	978
CA9098-20.5	98	90	20.5	1.0	0.8	40	130				•	333966	1115

XCET 倒角加工 有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

			PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
P	钢	Steel		●	◕		◕	✕	✕	✕	✕	◕	●
M	不锈钢	Stainless Steel			◕		◕	✕	✕	✕	✕	◕	○
K	铸铁	Iron		●		◕		✕	✕	✕	✕		
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●				◕						
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●							✕	✕	◕	●
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●							✕	✕	◕	●

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T		a	配套刀柄 Matching Toolholder
角度成型铣削 Chamfering			XCET 310404ER	0.4	31	12.7	4.5		7°	刀柄: (Toolholder) D67-D68

■ ECC-45° 舍弃式倒角刀

ECC-45° Discarding Chamfering



- 本铣刀可45° 切削，亦可做倒角，V槽切削
- 适合一般铣床，CNC铣床，CNC车床，钻床倒角

★ This cutter can be 45 ° cutting, chamfering can be done.
★ Suitable for general milling machine, integrated machining center.

零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	D1	A	B	a	刃数 No. of flutes	倒角范围 Chamfering range	角度 Angle	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
XCET31005R-30	40	32	34	14.5	25.5	60°	1	Ø5~Ø52	30°	XCET 310404ER	M5x12	T20	●	333725	500
XCET31005R-45	56	32	46	20.5	20.5	45°	2	Ø5~Ø42	45°				●	333726	500
XCET31005R-60	72	32	55	25.5	14.5	30°	2	Ø5~Ø33	60°				●	333727	500

■ 标准切削条件 Standard cutting conditions

被加工材料 Processed material	材质 Material Quality	转数n(min⁻¹) Revolution	每齿进给量 Feed per tooth fz(mm/t)
碳钢(S55C等) Mild steel (S55C, etc.)	ZP20,ZP15,ZP153	1000-3000-7000	0.1~0.25
合金钢(SCM440等)300HB以下 Alloy steel (SCM440, etc.) below 300HB	ZP15,ZP153	700-2000-4900	
模具钢(SKD61等) 300HB以下 Die steel (SKD61, etc.) below 300HB	ZP153	1000-3000-7000	0.1~0.2
不锈钢(SUS304等)250HB以下 Stainless steel (SUS304, etc.) below 250HB	ZP153,ZP163	1000-3000-7000	0.1~0.25
铸铁(FC250等) Cast iron (FC250, etc.)	ZP163	1000-3000-7000	0.1~0.25

・转数在上表所列范围内，倒角直径小时，或者使用铁刀中心附近的切削刃倒角时，把转数调节到高转数一侧，当倒角直径大时或者使用铣刀外侧附近的切削刃倒角时 把转数调节到低转数一侧。
・在切入式小孔(φ10以下)倒角中，请不要用步进式进给。
・在切入式小孔(φ10以下)倒角及使用铣刀中心附近切削刃倒角时，请将进给量设定在0.15mm/齿以下。

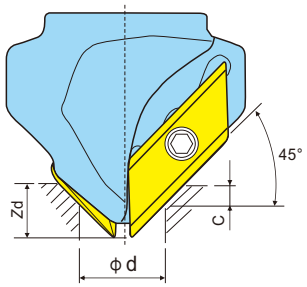
·When the number of revolutions is within the range listed in the table above, and the chamfer diameter is small, or when using a cutting edge near the center of the iron knife to chamfer, adjust the number of revolutions to the high rotation side. When the chamfer diameter is large, or use a cutting edge near the outside of the milling cutterWhen chamfering the cutting edge, adjust the number of revolutions to the low side.
·In the cut-in hole φ Please do not use step feed during chamfering.
·In the cut-in hole φ When chamfering and chamfering the cutting edge near the center of the milling cutter, please set the feed rate below 0.15 mm/tooth.

编制程序时的基准 TAC quick chamfering milling cutter

用切入式铣削对内孔作45° 倒角时Z轴方向切入深度Zd（mm）

Cutting depth Zd (mm) in the Z-axis direction when chamfering the inner hole with a 45 ° chamfer using cut-in milling

孔径 φd Aperture	倒角大小C（mm） Chamfer size C						
	0.5	1	1.5	2	3	4	5
5	0.7	1.2	1.7	2.2	3.2		
6	1.2	1.7	2.2	2.7	3.7		
6.8	1.6	2.1	2.6	3.1	4.1		
8	2.2	2.7	3.2	3.7	4.7		
8.5	2.4	2.9	3.4	3.9	4.9		
10	3.2	3.7	4.2	4.7	5.7	6.7	7.7
10.2	3.3	3.8	4.3	4.8	5.8	6.8	7.8
12	4.2	4.7	5.2	5.7	6.7	7.7	8.7
14	5.2	5.7	6.2	6.7	7.7	8.7	9.7
16	6.2	6.7	7.2	7.7	8.7	9.7	10.7
17.5	6.9	7.4	7.9	8.4	9.4	10.4	11.4
20	8.2	8.7	9.2	9.7	10.7	11.7	12.7
21	8.7	9.2	9.7	10.2	11.2	12.2	13.2
24	10.2	10.7	11.2	11.7	12.7	13.7	14.7
30	13.2	13.7	14.2	14.7	15.7	16.7	17.7
33	14.7	15.2	15.7	16.2	17.2	18.2	19.2
36	16.2	16.7	17.2	17.7	18.7	19.7	
42	19.2	19.7	20.2				



铣刀·XCET31005R-45

hobbing

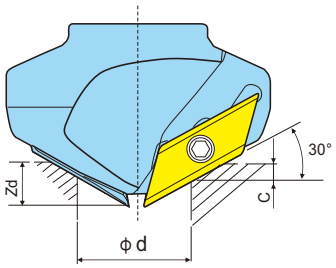
注）当孔深比Z轴方向切入深度Zd还要浅时，需要对铣刀端部和孔底部的干涉进行研究。

Note) When the hole depth is shallower than the Z-axis direction cutting depth Zd,The interference between the end of the milling cutter and the bottom of the hole needs to be studied.

用切入式铣削对内孔作30° 倒角时Z轴方向切入深度Zd（mm）

Cutting depth Zd (mm) in the Z-axis direction when chamfering the inner hole with a 30 ° chamfer using cut-in milling

孔径 φd Aperture	倒角大小C（mm） Chamfer size C						
	0.5	1	1.5	2	2.5	3	3.5
5	0.6	1.1	1.6	2.1			
6	0.9	1.4	1.9	2.4			
6.8	1.1	1.6	2.1	2.6			
8	1.4	1.9	2.4	2.9			
8.5	1.6	2.1	2.6	3.1			
10	2.0	2.5	3.0	3.5	4.0	4.5	5.0
10.2	2.1	2.6	3.1	3.6	4.1	4.6	5.1
12	2.6	3.1	3.6	4.1	4.6	5.1	5.6
16	3.7	4.2	4.7	5.2	5.7	6.2	6.7
17.5	4.2	4.7	5.2	5.7	6.2	6.7	7.2
20	4.9	5.4	5.9	6.4	6.9	7.4	7.9
21	5.2	5.7	6.2	6.7	7.2	7.7	8.2
24	6.1	6.6	7.1	7.6	8.1	8.6	9.1
30	7.8	8.3	8.8	9.3	9.8	10.3	10.8
33	8.7	9.2	9.7	10.2	10.7	11.2	11.7
36	9.5	10.0	10.5	11.0	11.5	12.0	12.5
38	10.1	10.6	11.1	11.6	12.1	12.6	13.1
42	11.2	11.7	12.2	12.7	13.2	13.7	14.2
46	12.4	12.9	13.4	13.9	14.4		
48	13	13.5	14	14.5			
52	14.1						



铣刀·XCET31005R-60

hobbing

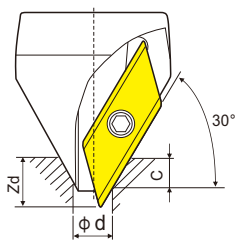
注）当孔深比Z轴方向切入深度Zd还要浅时，需要对铣刀端部和孔底部的干涉进行研究。

Note) When the hole depth is shallower than the Z-axis direction cutting depth Zd,The interference between the end of the milling cutter and the bottom of the hole needs to be studied.

用切入式铣削对内孔作60° 倒角时Z轴方向切入深度Zd（mm）

Cutting depth Zd (mm) in the Z-axis direction when chamfering the inner hole with a 60 ° chamfer using cut-in milling

孔径 φd Aperture	倒角大小C（mm） Chamfer size C							
	0.5	1	1.5	2	2.5	3	3.5	4
5	0.8	1.3	1.8	2.3	2.8			
6	1.7	2.2	2.7	3.2	3.7			
6.8	2.4	2.9	3.4	3.9	4.4			
8	3.4	3.9	4.4	4.9	5.4			
8.5	3.8	4.3	4.8	5.3	5.8			
10	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6
10.2	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8
12	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4
16	10.3	10.8	11.3	11.8	12.3	12.8	13.3	13.8
17.5	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1
20	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2
21	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1
24	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7
30	22.4	22.9	23.4	23.9	24.4	24.9	25.4	
33	24.9	25.4						



铣刀·XCET31005R-30

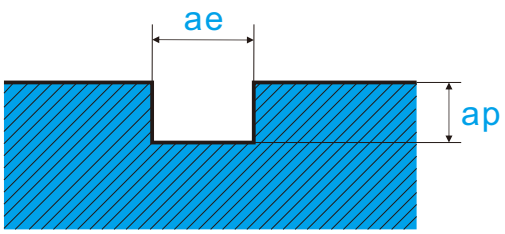
hobbing

注）当孔深比Z轴方向切入深度Zd还要浅时，需要对铣刀端部和孔底部的干涉进行研究。

Note) When the hole depth is shallower than the Z-axis direction cutting depth Zd,The interference between the end of the milling cutter and the bottom of the hole needs to be studied.

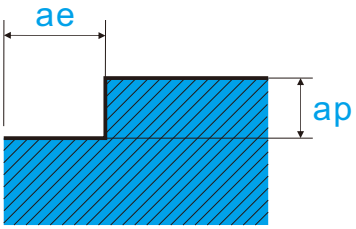
可转位玉米型铣削刀具（推荐切削参数）
Indexable corn milling cutter (Recommended cutting parameters)

槽铣加工
Groove milling



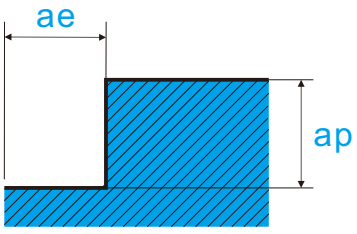
ae与刀具直径一致ap≤0.5D

方肩台阶铣
Step milling



ae≤0.5D *ap*≤1.2D

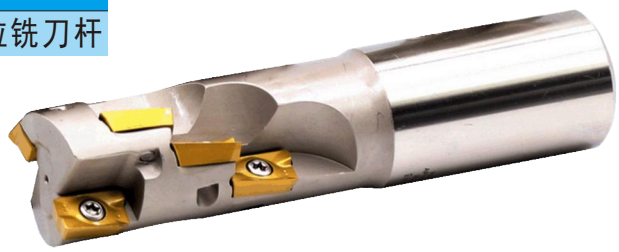
深方肩台阶铣
Deep step milling



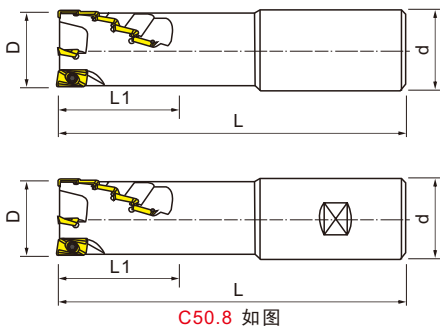
ae≤0.2D *ap*小于切削刃长

被加工材料 Processed Material	硬度 HB	刀片材质 Inserts Material	切削用量 Cutting amount			
			方肩台阶铣 Square shoulder milling			
			Vc (m/min)	f (mm/z)		
				精加工 Finish	中切削 Medium	重切削 Heavy
低碳钢、软钢 Mild Steels	≤180	ZP151 ZP163	270(240-350)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP201	220(180-300)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP153	270(200-360)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP152	240(180-350)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
高碳钢、合金钢 Carbon Steel & Alloy Steels	180-280	ZP151 ZP163	240(210-320)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP201	200(160-280)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP153	240(180-360)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP152	220(150-330)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
合金工具钢 Die Steel	280-350	ZP151 ZP163	220(180-300)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP201	180(150-250)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP153	220(160-340)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP152	200(120-300)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
不锈钢 Stainless Steels	≤270	ZP153	170(120-240)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP152	160(150-270)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP151	150(110-270)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP150	140(100-250)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
铸铁 Cast Iron	180-250	ZK50S	200(120-240)	0.1(0.08-0.2)	0.2(0.1-0.3)	
		ZK50	180(120-300)	0.1(0.08-0.2)	0.2(0.1-0.3)	
				-AL		
铝合金 Aluminum	---	ZK01	300-	0.2(0.08-0.4)		
		PCD	300-	0.2(0.08-0.4)		

APK 深孔加工 粗铣 玉米粒铣刀杆







C50.8 如图

- 高效能型粗铣刀，能加工深孔。
- 尺寸可由刀杆随意变换深度，发挥最大效能。

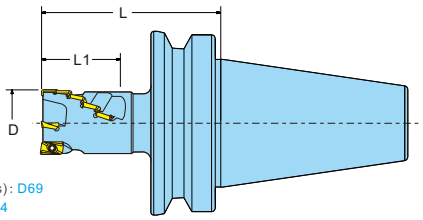
★ High-performance-based rough milling, deep hole can be processed.
★ Arbor size can be arbitrarily change the depth of maximum efficiency.

切削参数 (Cutting Parameters): D69
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	L1	L	刃数 No. of Flutes	刀片数 T	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
C20-20AP11-28-125-2T	20	20	28	125	2	6	AP..1135..	M2.5X6	T8	●	334500	1750
C20-20AP11-35-110-2T	20	20	35	110	2	8				●	334502	1040
C25-25AP11-38-130-2T	25	25	38	130	2	8				●	334504	1900
C25-25AP11-35-120-2T	25	25	35	120	2	8				●	334506	1280
C32-32AP11-48-150-3T	32	32	48	150	3	12				●	334508	2750
C32-32AP16-55-135-2T	32	32	55	135	2	8	AP..1604..	M4.0X12	T15	●	334510	1440
C32-40AP16-70-150-3T	40	32	70	150	3	12				●	334512	3000
C32-40AP16-55-135-2T	40	32	55	135	2	8				●	334514	1680
C32-50AP16-55-135-4T	50	32	55	135	4	16				●	334516	1880
C50.8-50AP16-80-205-3T	50	50.8	80	205	3	18	APKT1504.. SPMT45272..	M5	T20	●	334518	5440
C50.8-50AP16-125-250-3T	50	50.8	125	250	3	29				●	334520	6480

■ AP 整体式玉米型粗铣刀

AP Integral Type Maize Rough Milling Cutter





切削参数 (Cutting Parameters): D69
零配件 (Spare Parts): P01-P04

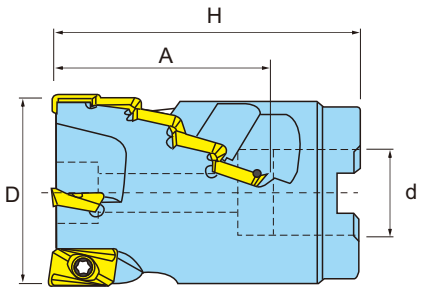
订购编码 Order	规格型号 Specification	Dimensions D	L1	L	刀片数 T	刃数 Edge	价格 Price
334550	BT40-50AP16-70-125-4T	50	70	125	16	4	10000
334552	BT40-63AP16-110-160-4T	63	110	160	24	4	16800
334554	BT50-80AP16-165-250-4T	80	165	250	36	4	20000

配件(Accessory): 刀片:APMT1604.. 螺钉:M4X10 扳手:T15

■ APC 玉米型粗铣刀盘

Corn Type Rough Milling Cutter





- 高效能型粗铣刀，能加工深孔
- 尺寸可由刀杆随意变换深度，发挥最大效能

★ High-performance-based rough milling, deep hole can be processed.
★ Arbor size can be arbitrarily change the depth of maximum efficiency.

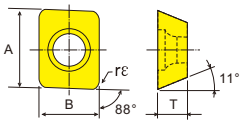
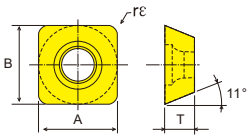
切削参数 (Cutting Parameters): D69
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	A	H	刀片数T	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
D50AP16-22-42-65-3T	50	22	42	65	9	APKT1604	M4	T15	●	334530	2750
D50AP16-22-70-90-4T	50	22	70	90	16				●	334532	3040
D63AP16-27-42-65-4T	63	27	42	65	12				●	334534	3000
D63AP16-22-70-90-4T	63	22	70	90	16				●	334536	3280
D80AP16-32-70-100-5T	80	32	70	100	16				●	334538	3750
D80AP16-27-110-135-4T	80	27	110	135	24				●	334540	3720

LPMT SPMT 侧铣槽铣 有孔 粗铣加工

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

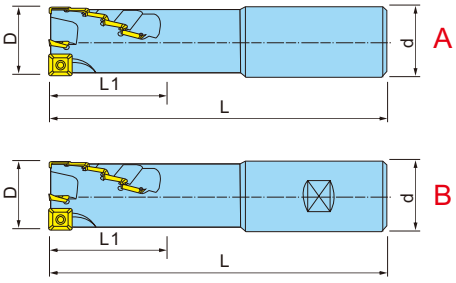
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZK01	ZK01	ZC22S	ZP201	ZP151	ZP152	ZP153	ZP163
铣削刀片 Milling Inserts			APKT 150412-PM 150412-KM LPMT 150412-PM 150412-KM	1.2 1.2 1.2 1.2	16.33 16.33 16.33 16.33	12.7 12.7 12.7 12.7	4.76 4.76 4.76 4.76	刀柄 : (Toolholder) D71-D72				●	●		●	●	●	●	●
铣削刀片 Milling Inserts			SPMT 120408-PM 120408-KM	0.8 0.8	12.7 12.7	12.7 12.7	4.76 4.76	刀柄 : (Toolholder) D71-D72				●	●		●	●	●	●	●

■ SPM 玉米立铣刀杆
SPM Corn End Mill

切削参数 (Cutting Parameters) D69
零配件 (Spare Parts): P01-P04





- 高效能型粗铣刀，能加工深孔。
- 尺寸可由刀杆随意变换深度，发挥最大效能。

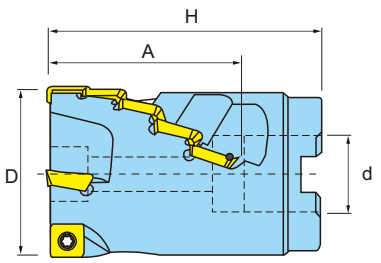
★ High-performance-based rough milling, deep hole can be processed.
★ Arbor size can be arbitrarily change the depth of maximum efficiency.

型号 Cat. No	尺寸 Size D	d	L1	L	图示 Figure	刃数 No. of flutes	刀片 Insert T		T		螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SPM-32-120-40-C32	32	32	40	120	A	3					M4	T15	●	334600	1200
SPM-32-150-40-C32	32	32	40	150	A	3				SCMT09T304			●	334602	1300
SPM-38-120-40-C32	38	32	40	120	A	3				SCMT09T308			●	334604	1400
SPM-38-150-40-C32	38	32	40	150	A	3							●	334606	1500
SPM-40-150-50L-32	40	32	50	150	A	4	2	P27215-3	12	SDMT090308	M4	T15	●	334608	1600
SPM-40-170-56L-C42	40	42	56	170	B	2	1	LPMT1504	15	SPMT1204	M5	T20	●	334610	1800
SPM-50-200-77L-C42	50	42	77	200	B	4	2	LPMT1504	14	SPMT1204	M5	T20	●	334612	2000
SPM-50-250-158-C42	50	42	158	250	B	4	2	LPMT1504	30	SPMT1204	M5	T20	●	334614	2200

■ SPC 玉米型粗铣刀盘
Corn Type Rough Milling Cutter

切削参数 (Cutting Parameters): D69
零配件 (Spare Parts): P01-P04





- 高效能型粗铣刀，能加工深孔。
- 尺寸可由刀杆随意变换深度，发挥最大效能。

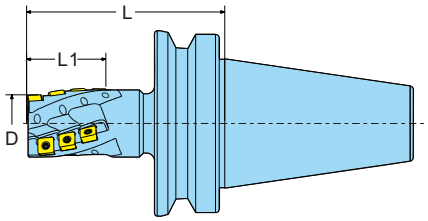
★ High-performance-based rough milling, deep hole can be processed.
★ Arbor size can be arbitrarily change the depth of maximum efficiency.

型号 Cat. No	尺寸 Size D	d	A	H	刃数T	刀片 Insert	T		T	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SPC-80-31.75-80L	80	31.75	67	80	6	LPMT1504	3	SPMT1204	18	M5	T20	●	334400	3200
SPC-80-32-80L	80	32	67	80	6							●	334402	3200
SPC-100-40-100L	100	40	77	100	8	LPMT1504	4	SPMT1204	24	M5	T20	●	334404	4500

SPC 整体式 有孔 粗铣加工

切削参数 (Cutting Parameters): D69
零配件 (Spare Parts): P01-P04





配件(Accessory):
刀片: LPMT1504..
SPMT1204..
螺钉:M5X12
扳手:T20

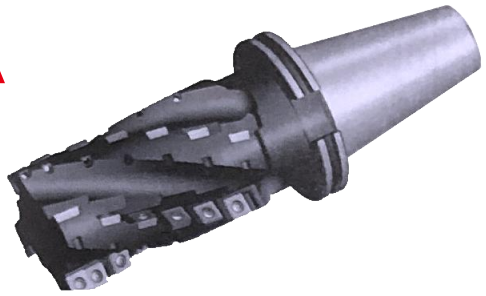
- 整体式结构, 切削刚性更好!
- 多种切深长度，灵活选择。
- ★ The overall structure, cutting better rigidity!
- ★ A variety of cutting length, flexible choice.

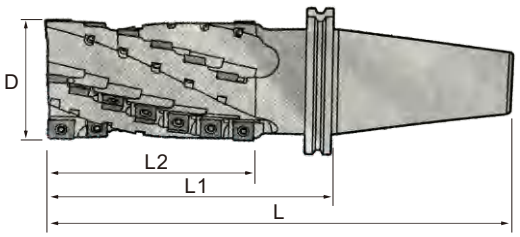
订购编码 Order	规格型号 Specification	Dimensions D	L1	L	刀片数 T	刃数 Edge	价格 Price
334214	**BT40-SPC40-60**	40	60	107		4	8000
334216	**BT40-SPC50-60**	50	60	117		4	8000
334218	**BT50-SPC50-60**	50	60	138		4	9000
334220	**BT50-SPC63-80**	63	80	153		4	9000
334222	**BT50-SPC80-120**	80	120	188		4	10000
334224	**BT50-SPC80-150**	80	150	203		4	11000

■ HMP01 整体式玉米型粗铣刀

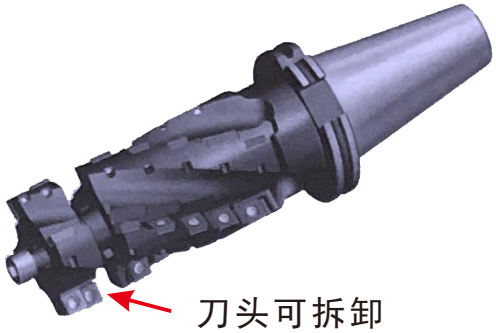
HMP01 Integral Type Maize Rough Milling Cutter

A

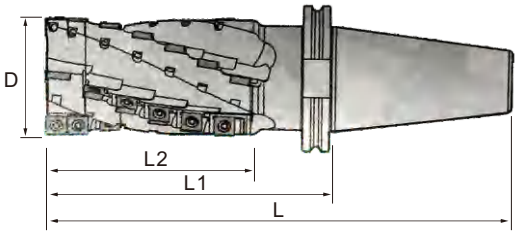




B



刀头可拆卸
Detachable head



切削参数 (Cutting Parameters) D69
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	L2	L1	L	图示 Figure	槽数 Edges	刀片 Insert T		T		螺钉 Screw	扳手 Wrench	Order Number	Price (RMB)
HMP01- 050-84-BT50-SP12	50	84	145	246	A	4	2	AKPT1504	16	SPMT1204	M5x13	T20	334620	9000
063-74-BT50-SP12	63	74	135	236	A	4	2		14				334622	9000
063-104-BT50-SP12	63	104	165	266	A	4	2		20				334624	9000
063-134-BT50-SP12	63	134	195	296	A	4	2		26				334626	10000
080-104-BT50-SP12	80	104	165	266	A	4	2		20				334628	10000
080-144-BT50-SP12	80	144	205	306	A	4	2		28				334630	12000
HMP01- 050-84EC-BT50-SP12	50	84	145	246	B	4	2	AKPT1504	16	SPMT1204	M5x13	T20	334632	10000
063-74EC-BT50-SP12	63	74	135	236	B	4	2		14				334634	10000
063-104EC-BT50-SP12	63	104	165	266	B	4	2		20				334635	12000
063-134EC-BT50-SP12	63	134	195	296	B	4	2		26				334636	13000
080-104EC-BT50-SP12	80	104	165	266	B	4	2		20				334637	12000
080-144EC-BT50-SP12	80	144	205	306	B	4	2		28				334639	13000

HTS T型槽铣刀 有孔 粗铣加工

HTS 铣刀盘
T-Slot Side Mill

槽/切入加工 Slot,plungemilling
台阶面加工 Shoulder milling



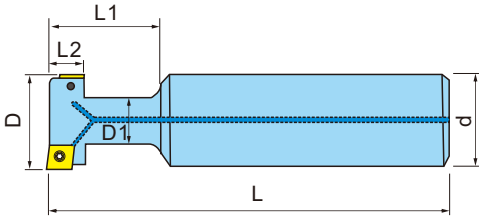


Fig.1

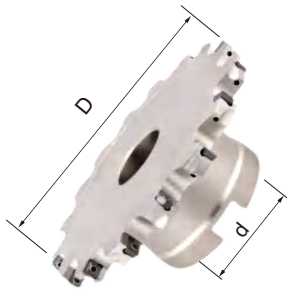


Fig.2

零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size							刃数 No. of Flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L	L1	L2	Fig							
HTS-20-H08-C14-120-2T	20	14	12.5	120	32			2				●		
HTS-25-H08-C16-120-2T	25	16	14	120	33			2				●		
HTS-30-H08-C16-120-2T	30	16	15.5	120	33			2				●		
HTS-35-H08-C20-120-2T	35	20	19.5	120	34			2				●		
HTS-40-H08-C20-120-4T	40	20	19.5	120	34			4				●		
HTS-40-H08-C20-200-4T	40	20	19.5	200	34			4				●		
HTS-45-H08-C20-150-4T	45	20	19.5	150	34			4				●		
HTS-45-H08-C20-200-4T	45	20	19.5	200	34			4				●		
HTS-50-H08-C20-150-4T	50	20	19.5	150	34			4				●		
HTS-50-H08-C20-200-4T	50	20	19.5	200	34			4				●		
HTS-55-H08-C20-150-4T	55	20	19.5	150	34	8	Fig.1	4	CCMT060204	M2.5×6	T8	●		
HTS-60-H08-C32-150-6T	60	32	24.5	150	36			6				●		
HTS-60-H08-C32-200-6T	60	32	24.5	200	36			6				●		
HTS-65-H08-C32-150-6T	65	32	24.5	150	36			6				●		
HTS-70-H08-C32-150-8T	70	32	31.5	150	36			8				●		
HTS-70-H08-C32-200-8T	70	32	31.5	200	36			8				●		
HTS-80-H08-C32-150-8T	80	32	31.5	150	36			8				●		
HTS-80-H08-C32-200-8T	80	32	31.5	200	36			8				●		
HTS-100-H08-C32-150-10T	100	32	31.5	150	36			10				●		
HTS-100-H08-C32-200-10T	100	32	31.5	200	36			10				●		
MTS-20-H08-C14-120-2T	20	14	12.5	120	32			2				●		
MTS-25-H08-C16-120-2T	25	16	14	120	33	8	Fig.1	2	MPHT060304	M2.5×6	T8	●		
MTS-30-H08-C16-120-4T	30	16	15.15	120	33			4				●		
MTS-35-H08-C20-120-4T	35	20	19.5	120	34			4				●		
HTS-20-H10-C14-150-2T	20	14	12.5	150	32			2				●		
HTS-20-H10-C14-200-2T	20	14	12.5	200	32			2				●		
HTS-25-H10-C16-150-2T	25	16	14	150	33			2				●		
HTS-25-H10-C16-200-2T	25	16	14	200	33			2				●		
HTS-30-H10-C16-150-4T	30	16	15.5	150	33			4				●		
HTS-30-H10-C16-200-4T	30	16	15.5	200	33			4				●		
HTS-35-H10-C16-150-4T	35	16	19.5	150	34			4				●		
HTS-35-H10-C20-150-4T	35	20	19.5	150	34			4				●		
HTS-40-H10-C20-150-4T	40	20	19.5	150	34			4				●		
HTS-40-H10-C20-200-4T	40	20	19.5	200	34			4				●		
HTS-45-H10-C20-150-4T	45	20	19.5	150	34			4				●		
HTS-45-H10-C20-200-4T	45	20	19.5	200	34			4				●		
HTS-50-H10-C20-150-4T	50	20	19.5	150	34	10	Fig.1	4	CCMT060204	M2.5×6	T8	●		
HTS-50-H10-C20-200-4T	50	20	19.5	200	34			4				●		
HTS-60-H10-C25-150-6T	60	25	24.5	150	36			6				●		
HTS-60-H10-C25-200-6T	60	25	24.5	200	36			6				●		
HTS-65-H10-C25-150-6T	65	25	24.5	150	36			6				●		
HTS-65-H10-C25-200-6T	65	25	24.5	200	36			6				●		
HTS-70-H10-C32-150-8T	70	32	31.5	150	36			8				●		
HTS-70-H10-C32-200-8T	70	32	31.5	200	36			8				●		
HTS-80-H10-C32-150-8T	80	32	31.5	150	36			8				●		
HTS-80-H10-C32-200-8T	80	32	31.5	200	36			8				●		
HTS-100-H10-C32-150-10T	100	32	31.5	150	36			10				●		
HTS-100-H10-C32-200-10T	100	32	31.5	200	36			10				●		
HTS-120-H10-C32-150-10T	120	32	31.5	150	36			10				●		
HTS-80-H10-FMB22-8T	80	22						8				●		
HTS-100-H10-FMB27-10T	100	27				10	Fig.2	10	CCMT060204	M2.5×6	T8	●		
HTS-125-H10-FMB32-10T	125	32						10				●		
HTS-160-H10-FMB40-10T	160	40						10				●		

TMR T型槽铣刀 有孔 粗铣加工

TMR 铣刀盘
T-Slot Side Mill

槽/切入加工 Sloot,plungemilling　台阶面加工 Shoulder milling

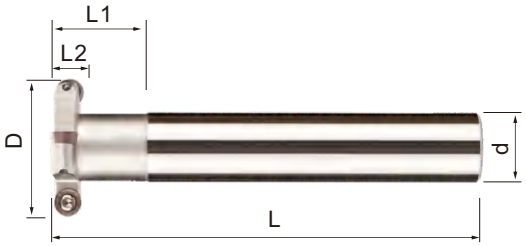


Fig.1

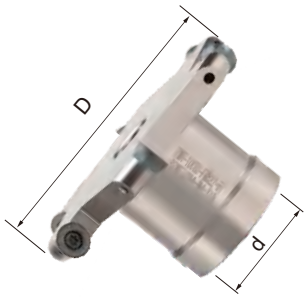


Fig.2

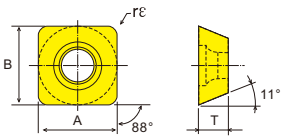
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size							刃数 No. of Flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L	L1	L2	Fig							
TMR-C14-20R3-150-4T	20	14	12.5	150	32	8	Fig.1	4	RCMT0602	M2.5×6	T8	●		
TMR-C16-25R3-150-4T	25	16	14	150	33			4				●		
TMR-C16-30R3-150-4T	30	16	15.5	150	33			4				●		
TMR-C20-35R3-150-4T	35	20	19.5	150	34			4				●		
TMR-C20-40R3-150-4T	40	20	19.5	150	34			4				●		
TMR-C16-30R4-150-4T	30	16	15.5	150	34	8	Fig.1	4	RPMT0802	M3.0×8	T8	●		
TMR-C20-35R4-150-4T	35	20	19.5	150	34			4				●		
TMR-C20-40R4-150-5T	40	20	19.5	150	34			5				●		
TMR-C20-50R4-150-5T	50	20	19.5	150	34			5				●		
TMR-C20-40R5-150-4T	40	20	19.5	150	34	8	Fig.1	4	RPMT10T3	M4.0×10	T15	●		
TMR-C20-50R5-150-4T	50	20	19.5	150	34			4				●		
TMR-C25-60R5-150-5T	60	25	24.5	150	36			5				●		
TMR-C32-80R5-150-6T	80	32	31.5	150	36			6				●		
TMR-C20-50R6-150-4T	50	20	19.5	150	34	8	Fig.1	4	RPMT1204	M4.0×10	T15	●		
TMR-C25-60R6-150-4T	60	25	24.5	150	36			4				●		
TMR-C32-80R6-150-5T	80	32	31.5	150	36			5				●		
TMR-80R4-FMB22-8T	80	22				8	Fig.2	8	RPMT0802	M3.0×8	T8	●		
TMR-100R4-FMB22-9T	100	22						9				●		
TMR-125R4-FMB27-10T	125	27						10				●		
TMR-80R5-FMB22-6T	80	22				8	Fig.2	6	RPMT10T3	M4.0×10	T15	●		
TMR-100R5-FMB22-6T	100	22						6				●		
TMR-125R5-FMB27-8T	125	27						8				●		
TMR-160R5-FMB32-10T	160	32						10				●		
TMR-80R6-FMB22-5T	80	22				8	Fig.2	5	RPMT1204	M4.0×10	T15	●		
TMR-100R6-FMB22-6T	100	22						6				●		
TMR-125R6-FMB27-7T	125	27						7				●		
TMR-160R6-FMB32-9T	160	32						9				●		

MPHT 槽加工 有孔 铣削加工

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

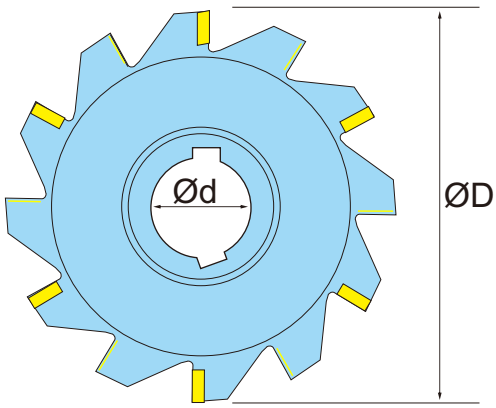
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	CBN-H	ZK01	ZC22S	ZP201	ZP151	ZP152	ZP153	ZP163
铣削刀片 Milling Inserts			MPHT 060304-DM 080305-DM 120408-DM	0.4 0.5 0.8	6.35 8.3 12.7	6.35 8.3 12.7	3.18 3.18 4.76	刀柄: (Toolholder) D75-D76							●	●	●	●	●

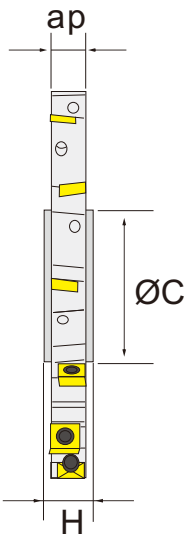
■ DMP 三面刃铣刀(卡口型)

DMP three-sided edge milling cutter (bayonet type)









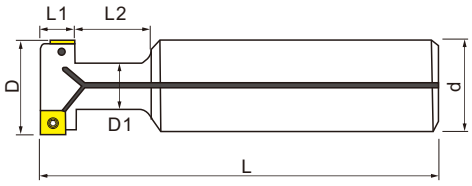
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size ØD	ØC	Ød	ap	H	齿数 Z	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
DMP06-08008-K27	80	41	27	8	12	10	MP□T060304	M2.5X6.5	T8	●	335200	1400
DMP06-10008-K32	100	47	32	8	12	14				●	335202	1500
DMP06-10010-K32	100	47	32	10	14	14				●	335204	1500
DMP06-12510-K40	125	55	40	10	14	16				●	335206	1700
DMP08-12512-K40	125	55	40	12	16	12	MP□T080305	M3X7	T10	●	335208	1700
DMP08-16012-K40	160	62	40	12	16	14				●	335210	2300
DMP12-16012-K40	160	62	40	16	20	12	MP□T120408	M5X13	T20	●	335212	2300
DMP12-16018-K40	160	62	40	18	24	12				●	335214	2300
DMP12-16020-K40	160	62	40	20	26	12				●	335216	2300
DMP12-20016-K50	200	72	50	16	20	14				●	335218	2800
DMP12-20018-K50	200	72	50	18	24	14				●	335220	2800
DMP12-20020-K50	200	72	50	20	26	14				●	335222	2800

DMP 槽加工 有孔 T型槽铣刀







零配件 (Spare Parts): P01-P04

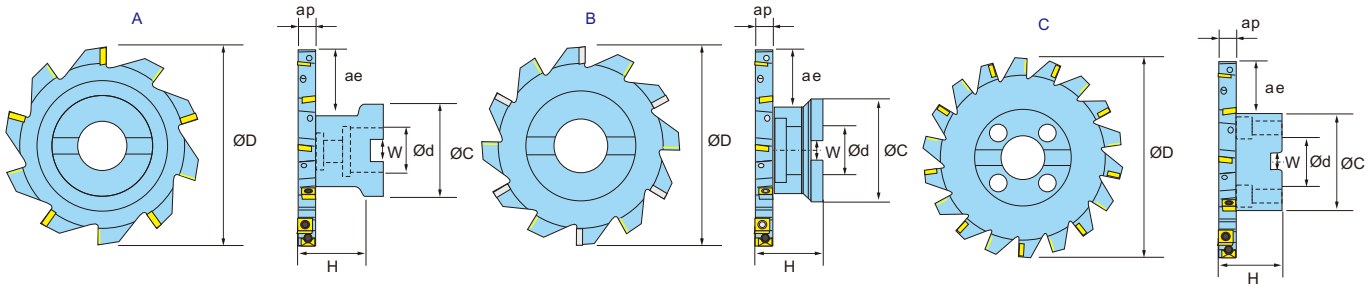
型号 Cat. No	尺寸 Size							刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L	L1	L2								
DMP06-21-9	21	25	10	100	9	32		1	MPHT0603..	M2.5×6	T8	●	335510	400
DMP06-25-11	25	25	12	100	11	35		1	MPHT0603..	M2.5×6	T8	●	335512	500
DMP08-32-14	32	32	15	110	14	45		2	MPHT0803..	M3×7	T10	●	335514	600
DMP12-40-18	40	32	19	125	18	55		2	MPHT1204..	M5×11	T20	●	335516	700
DMP12-50-22	50	40	25	140	22	65		2	MPHT1204..	M5×11	T20	●	335518	800

DMP 三面刃铣刀(刀盘型)

DMP Three-sided Edge Milling Cutter (cutter Type)







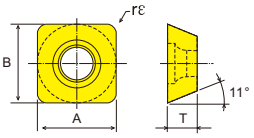
零配件 (Spare Parts): P01-P04

型 号 Cat. No	尺 寸 Size						齿数 Z	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	ØD	ØC	Ød	ap	W	H							
DMP06-08008-B22	80	45	22	8	10.4	40	10	MP□T060304	M2.5X6.5	T8	●	335300	1500
DMP06-10008-B27	100	55	27	8	12.4	40	14				●	335302	1600
DMP06-10010-B27	100	55	27	10	12.4	40	14				●	335304	1600
DMP06-12510-B32	125	65	32	10	14.4	50	16				●	335306	1800
DMP08-12512-B32	125	65	32	12	14.4	50	12	MP□T080305	M3X7	T10	●	335308	1800
DMP08-16012-B40	160	89	40	12	16.4	50	14				●	335310	2500
DMP08-20012-B40	200	89	40	12	16.4	50	18				●	335312	3000
DMP12-12512-B32	125	65	32	16	14.4	50	10	MP□T120408	M5X13	T20	●	335314	1800
DMP12-16016-B40	160	89	40	16	16.4	50	12				●	335316	2500
DMP12-16018-B40	160	89	40	18	16.4	50	12				●	335318	2500
DMP12-16020-B40	160	89	40	20	16.4	50	12				●	335320	2500
DMP12-20016-B40	200	89	40	16	16.4	50	14				●	335322	3000
DMP12-20018-B40	200	89	40	18	16.4	50	14				●	335324	3000
DMP12-20020-B40	200	89	40	20	16.4	50	14				●	335326	3000

SPMG 钻孔/槽加工 有孔 铣削加工

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

			PCD	CBN-K	CBN-S	CBN	ZK01	ZK01	ZC22S	ZP201	ZP151	ZP152	ZP153	ZP163
P	钢	Steel				●	●		✖	✖	✖	✖	●	●
M	不锈钢	Stainless Steel					●		✖	✖	✖	✖	●	●
K	铸铁	Iron				●	●		✖	✖	✖	✖		
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●				●							
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●								✖	✖	●	●
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●								✖	✖	●	●

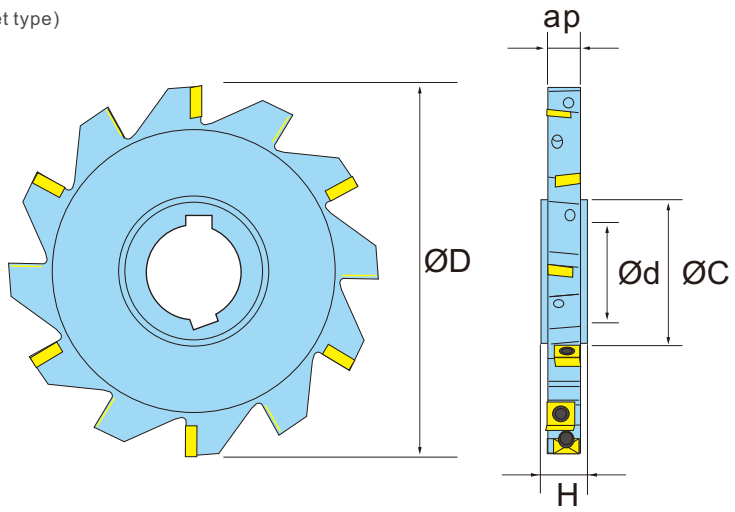
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder
铣削刀片 Milling Inserts			SPMG 050204-TT	0.4	5.0	5.0	2.38	刀柄: (Toolholder) D77-D78
			060204-TT	0.4	6.0	6.0	2.38	
			07T308-TT	0.8	7.94	7.94	3.97	
			090408-TT	0.8	9.8	9.8	4.30	
			110408-TT	0.8	11.5	11.5	4.8	
			140512-TT	1.2	14.3	14.3	5.0	

SMP 三面刃铣刀(卡口型)

SMP three-sided edge milling cutter (bayonet type)

零配件 (Spare Parts): P01-P04



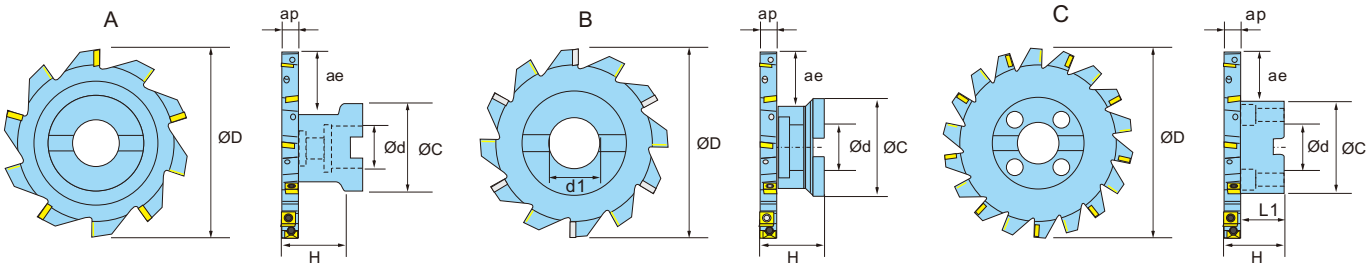




型号 Cat. No	尺寸 Size ØD	ap	Ød	H	ØC	T	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SMP-80-06-8T-K22	80	6	22	12	44	2X4	SPMG050204	TS2003	T6	●	335600	1400
SMP-80-08-8T-K22		8					SPMG060204	TS2202	T6	●	335602	1400
SMP-80-10-8T-K22		10								●	335604	1400
SMP-80-12-8T-K22		12					SPMG07T308	TS2511	T8	●	335606	1400
SMP-100-06-10T-K27	100	6	27	12	50	2X5	SPMG050204	TS2003	T8	●	335608	1500
SMP-100-08-10T-K27		8					SPMG060204	TS2202	T8	●	335610	1500
SMP-100-10-10T-K27		10								●	335612	1500
SMP-100-12-10T-K27		12					SPMG07T308	TS2511	T8	●	335614	1500
SMP-100-14-10T-K27		14		16			SPMG090408	TS3504	T15	●	335616	1500
SMP-100-16-10T-K27		16								●	335618	1500
SMP-125-06-12T-K32	125	6	32	12	65	2X6	SPMG050204	TS2003	T6	●	335620	1650
SMP-125-08-12T-K32		8					SPMG060204	TS2202	T6	●	335622	1650
SMP-125-10-12T-K32		10								●	335624	1650
SMP-125-12-12T-K32		12					SPMG07T308	TS2511	T8	●	335626	1650
SMP-125-14-12T-K32		14		16			SPMG090408	TS3504	T15	●	335628	1650
SMP-125-16-12T-K32		16								●	335630	1650
SMP-125-18-10T-K32		18		20		2X5	SPMG110408	TS4006	T15	●	335632	1650
SMP-125-20-10T-K32		20								●	335634	1650
SMP-125-25-10T-K32		25		25			SPMG140512	TS5009	T20	●	335636	1650
SMP-160-12-16T-K40	160	12	40	12	75	2X8	SPMG07T308	TS2511	T8	●	335638	2300
SMP-160-16-16T-K40		16		16			SPMG090408	TS3504	T15	●	335640	2300
SMP-160-18-12T-K40		18		20		2X6	SPMG110408	TS4006	T15	●	335642	2300
SMP-160-20-12T-K40		20								●	335644	2300
SMP-160-25-12T-K40		25		25			SPMG140512	TS5009	T20	●	335646	2300
SMP-200-16-18T-K40	200	16	40	16	80	2X9	SPMG090408	TS3504	T15	●	335648	2800
SMP-200-18-14T-K40		18		20		2X7	SPMG110408	TS4006	T15	●	335650	2800
SMP-200-20-14T-K40		20								●	335652	2800
SMP-200-25-14T-K40		25		25			SPMG140512	TS5009	T20	●	335654	2800

SMP 三面刃刀盘 有孔 铣槽加工



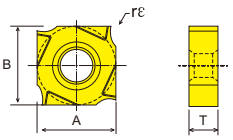


型 号 Cat. No	尺 寸 Size								刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	ØD	ap	H	L1	ØC	d1	Ød	T						
SMP-80-06-8T-B22	80	6	40	22	45	32	22	2X4	SPMG050204	TS2003	T6	●	335700	1500
SMP-80-08-8T-B22		8							SPMG060204	TS2202	T6	●	335702	1500
SMP-80-10-8T-B22		10										●	335704	1500
SMP-80-12-8T-B22		12							SPMG07T308	TS2511	T8	●	335706	1500
SMP-100-06-10T-B27	100	6	40	22	50	32	27	2X5	SPMG050204	TS2003	T8	●	335708	1600
SMP-100-08-10T-B27		8							SPMG060204	TS2202	T8	●	335710	1600
SMP-100-10-10T-B27		10										●	335712	1600
SMP-100-12-10T-B27		12							SPMG07T308	TS2511	T8	●	335714	1600
SMP-100-14-10T-B27		14							SPMG090408	TS3504	T15	●	335716	1600
SMP-100-16-10T-B27		16										●	335718	1600
SMP-125-06-12T-B32	125	6	45	25	70	46	32	2X6	SPMG050204	TS2003	T6	●	335720	1800
SMP-125-08-12T-B32		8							SPMG060204	TS2202	T6	●	335722	1800
SMP-125-10-12T-B32		10										●	335724	1800
SMP-125-12-12T-B32		12							SPMG07T308	TS2511	T8	●	335726	1800
SMP-125-14-12T-B32		14							SPMG090408	TS3504	T15	●	335728	1800
SMP-125-16-12T-B32		16										●	335730	1800
SMP-125-18-10T-B32		18						2X5	SPMG110408	TS4006	T15	●	335732	2500
SMP-125-20-10T-B32		20										●	335734	2500
SMP-125-25-10T-B32		25							SPMG140512	TS5009	T20	●	335736	2500
SMP-160-12-16T-B40	160	12	50	28	80	52	40	2X8	SPMG07T308	TS2511	T8	●	335738	2500
SMP-160-16-16T-B40		16							SPMG090408	TS3504	T15	●	335740	2500
SMP-160-18-12T-B40		18						2X6	SPMG110408	TS4006	T15	●	335742	2500
SMP-160-20-12T-B40		20										●	335744	2500
SMP-160-25-12T-B40		25							SPMG140512	TS5009	T20	●	335746	2500
SMP-200-16-18T-B40	200	16	50	28	80	52	40	2X9	SPMG090408	TS3504	T15	●	335748	3000
SMP-200-18-14T-B40		18						2X7	SPMG110408	TS4006	T15	●	335750	3000
SMP-200-20-14T-B40		20										●	335752	3000
SMP-200-25-14T-B40		25							SPMG140512	TS5009	T20	●	335754	3000

XSEQ 槽加工 有孔 铣削加工

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

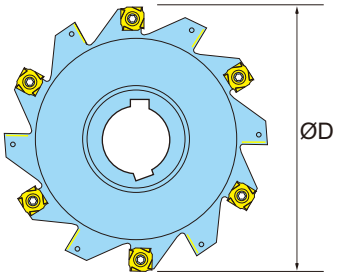
Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZK01	ZK01	ZC22S	ZP201	ZP151	ZP152	ZP153	ZP163
铣削刀片 Milling Inserts			XSEQ 1202 1203 12T3 1204 12T4	12.7 12.7 12.7 12.7 12.7	12.7 12.7 12.7 12.7 12.7	2.3 3.0 3.5 4.0 4.5	刀柄: (Toolholder) D61-D62												

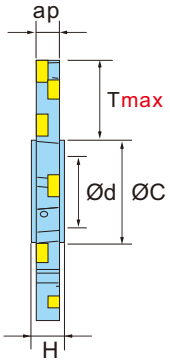
■ SMP01 三面刃铣刀(卡口型)

SMP01 three-sided edge milling cutter (bayonet type)

槽、切入加工 Sloot,plunge milling　台阶面加工 Shoulder milling





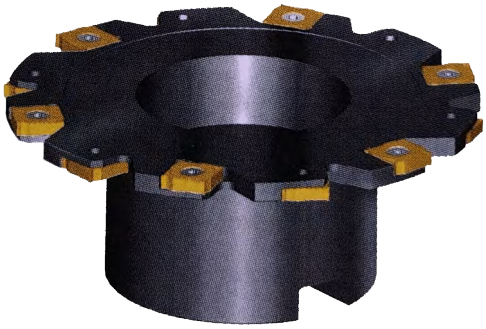


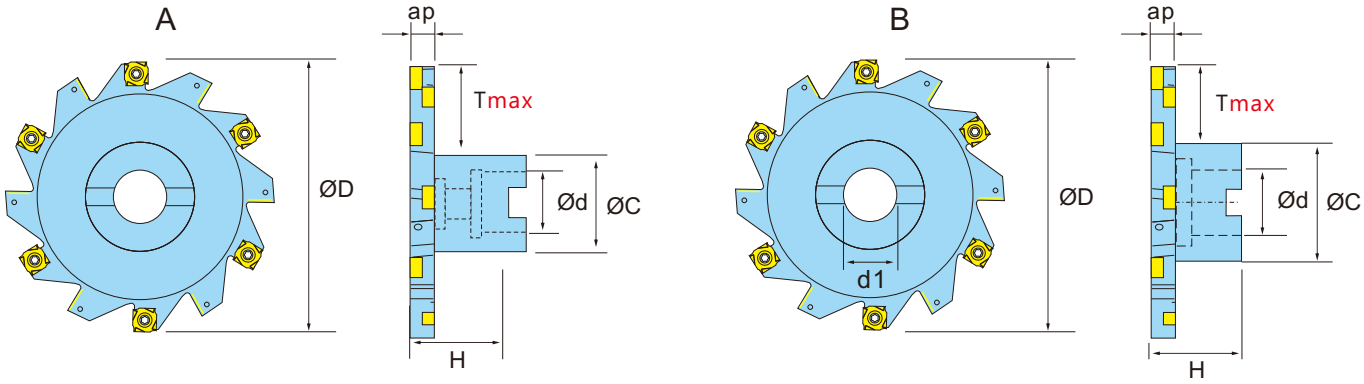
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size ØD	ap	Ød	H	ØC	Tmax	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
SMP01- 100X4-K27-10	100	4	27	12	45	25	XSEQ1202	M4x3.2X	T15	●	335800	1500
100X5-K27-10		5					XSEQ1203	M4x4.2X		●	335802	1500
100X6-K27-10		6					XSEQ12T3	M4x5.1X		●	335804	1500
100X7-K27-10		7					XSEQ1204	M4x6.1X		●	335806	1500
100X8-K27-10		8					XSEQ12T4	M4x7.1X		●	335808	1500
SMP01- 125X4-K40-16	125	4	40	12	56	32	XSEQ1202	M4x3.2X	T15	●	335810	1800
125X5-K40-16		5					XSEQ1203	M4x4.2X		●	335812	1800
125X6-K40-16		6					XSEQ12T3	M4x5.1X		●	335814	1800
125X7-K40-16		7					XSEQ1204	M4x6.1X		●	335816	1800
125X8-K40-16		8					XSEQ12T4	M4x7.1X		●	335818	1800
SMP01- 160X4-K40-16	160	4	40	12	67	45	XSEQ1202	M4x3.2X	T15	●	335820	2000
160X5-K40-16		5					XSEQ1203	M4x4.2X		●	335822	2000
160X6-K40-16		6					XSEQ12T3	M4x5.1X		●	335824	2000
160X7-K40-16		7					XSEQ1204	M4x6.1X		●	335826	2000
160X8-K40-16		8					XSEQ12T4	M4x7.1X		●	335828	2000
SMP01- 200X6-K50-18	200	6	50	12	71	62	XSEQ12T3	M4x5.1X	T15	●	335830	3000
200X7-K50-18		7					XSEQ1204	M4x6.1X		●	335832	3000
200X8-K50-18		8					XSEQ12T4	M4x7.1X		●	335834	3000
SMP01- 250X6-K50-24	250	6	50	12	71	87	XSEQ12T3	M4x5.1X	T15	●	335836	4000
250X7-K50-24		7					XSEQ1204	M4x6.1X		●	335838	4000
250X8-K50-24		8					XSEQ12T4	M4x7.1X		●	335840	4000

SMP01 三面刃铣刀盘 有孔 铣削加工







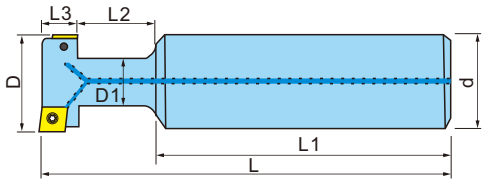
零配件 (Spare Parts): P01-P04

型 号 Cat. No	尺 寸 Size						刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	ØD	ap	Ød	H	ØC	Tmax						
SMP01- 063X4-A22-08	63	4	22	40	32	14	XSEQ1202	M4x3.2X	T15	●	335850	1500
063X5-A22-08		5					XSEQ1203	M4x4.2X		●	335852	1500
063X6-A22-08		6					XSEQ12T3	M4x5.1X		●	335854	1500
063X7-A22-08		7					XSEQ1204	M4x6.1X		●	335856	1500
063X8-A22-08		8					XSEQ12T4	M4x7.1X		●	335858	1500
SMP01- 080X4-A22-08	80	4	22	50	40	18	XSEQ1202	M4x3.2X	T15	●	335860	1800
080X5-A22-08		5					XSEQ1203	M4x4.2X		●	335862	1800
080X6-A22-08		6					XSEQ12T3	M4x5.1X		●	335864	1800
080X7-A22-08		7					XSEQ1204	M4x6.1X		●	335866	1800
080X8-A22-08		8					XSEQ12T4	M4x7.1X		●	335868	1800
SMP01- 100X4-A27-10	100	4	27	50	48	23	XSEQ1202	M4x3.2X	T15	●	335870	2000
100X5-A27-10		5					XSEQ1203	M4x4.2X		●	335872	2000
100X6-A27-10		6					XSEQ12T3	M4x5.1X		●	335874	2000
100X7-A27-10		7					XSEQ1204	M4x6.1X		●	335876	2000
100X8-A27-10		8					XSEQ12T4	M4x7.1X		●	335878	2000
SMP01- 125X6-B32-12	125	6	32	50	70	30	XSEQ12T3	M4x5.1X	T15	●	335880	3000
125X7-B32-12		7					XSEQ1204	M4x6.1X		●	335882	3000
125X8-B32-12		8					XSEQ12T4	M4x7.1X		●	335884	3000
SMP01- 160X6-B40-16	160	6	40	50	70	41	XSEQ12T3	M4x5.1X	T15	●	335886	4000
160X7-B40-16		7					XSEQ1204	M4x6.1X		●	335888	4000
160X8-B40-16		8					XSEQ12T4	M4x7.1X		●	335890	4000

ATS T型槽铣刀
T-Slot Side Mill



槽/切入加工 Sloot,plungemilling
台阶面加工 Shoulder milling



零配件 (Spare Parts): P01-P04

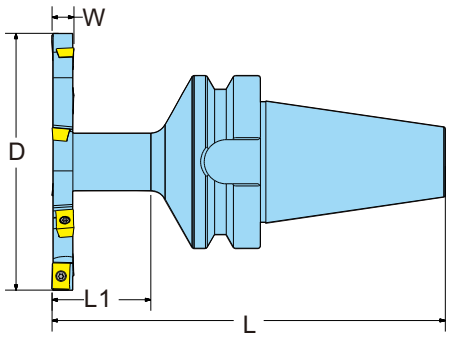
型号 Cat. No	尺寸 Size							刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	D1	L	L1	L2	L3							
ATS-24-11	24	25	12.5	112	80	21	11	2	CCMT060204	M2.5×6	T8	●	335500	300
ATS-31-14	31	32	16	120	77	30	14	4	CCMT080304	M3×7	T10	●	335502	320
ATS-39-18	39	32	20	130	80	32	18	4	CCMT09T308	M4×10	T15	●	335504	350
ATS-49-22	49	32	26	140	80	39	22	4	CCMT120408	M5×11	T20	●	335506	400

890 一体式高速强力T形刀
890 Integrated high power T cutter

零配件 (Spare Parts): P01-P04



槽，切入加工 Sloot, plunge milling

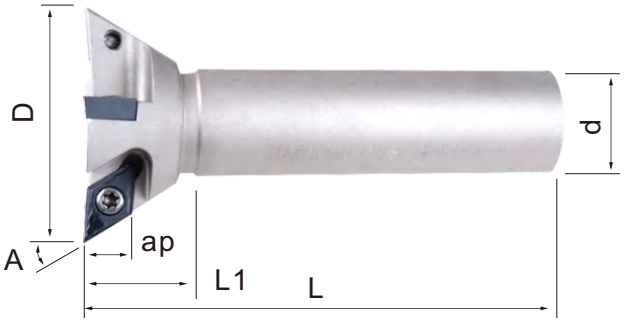


● 高刚性一体式结构，使型腔加工更加轻松！

★ High rigid integral structure, so that the cavity processing more easily!

型 号 Cat. No	刃数 Blade number	直径 D Diameter	切削宽度 W Cutting width	d	L	刀 片 Insert	Stock	Order Number	Price (RMB)
890-220172R98.5-BT40	8	98.5	8	21	36	N331.1A-054508	●	335100	2600
890-220172R96-BT40	8	96	8	21	36		●	335102	2900
890-220172R115-BT40	8	115	8	21	36		●	335104	3400

YWD 燕尾槽铣刀
Dovetail groove milling cutter



零配件 (Spare Parts): P01-P04

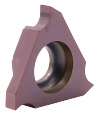
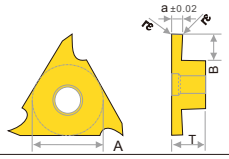
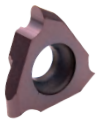
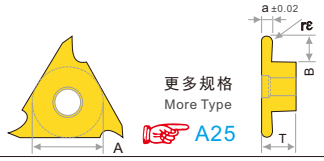
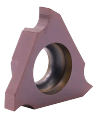
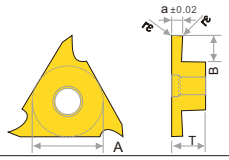
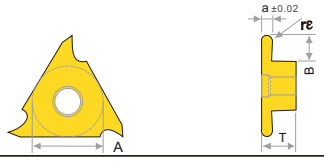
型号 Cat. No	尺寸 Size							刃数 No. of Flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	L	L1	L	A	ap							
YWD55-25-C16-120-DC07	25	16	120	25		55°	6.6	2	DCMT0702	M2.5×6	T8	●		
YWD55-25-C20-120-DC07	25	20	120	25				2				●		
YWD55-30-C20-120-DC07	30	20	120	25								●		
YWD55-40-C25-160-DC07	40	25	160	25								●		
YWD55-50-C32-160-DC11	50	32	160	30		55°	9.9		DCMT11T3	M4.0×10	T15	●		
YWD55-60-C32-160-DC11	60	32	160	30								●		
YWD55-80-C32-160-DC11	80	32	160	30								●		
YWD60-25-C16-120-DC07	25	16	120	25		60°	6.3		DCMT0702	M2.5×6	T8	●		
YWD60-25-C20-120-DC07	25	20	120	25								●		
YWD60-30-C20-120-DC07	30	20	120	25								●		
YWD60-40-C25-160-DC07	40	25	160	25								●		
YWD60-50-C32-160-DC11	50	32	160	30		60°	9.5		DCMT11T3	M4.0×10	T15	●		
YWD60-60-C32-160-DC11	60	32	160	30								●		
YWD60-80-C32-160-DC11	80	32	160	30								●		
YWD45-40-C20-160-VC11	40	20	160	25		45°	4.0		VCMT1103	M2.5×6	T8	●		
YWD45-50-C25-160-VC11	50	25	160	30								●		
YWD45-60-C32-160-VC11	60	32	160	30								●		
YWD45-80-C32-160-VC11	80	32	160	30								●		

TT 正三角 有孔 切槽加工

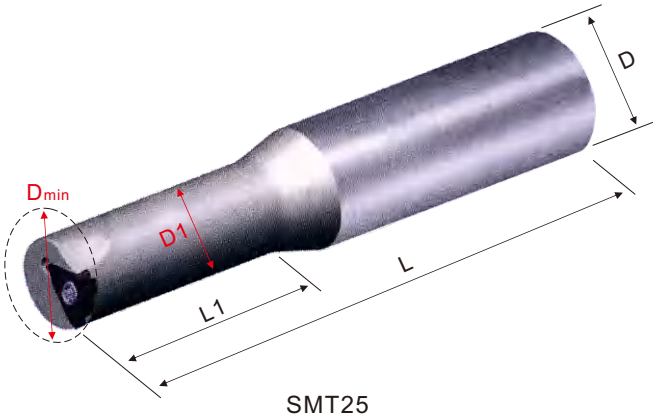
切削形态: Cutting Environment　● 稳定切削 Stable Cutting　● 一般切削 General Cutting　✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

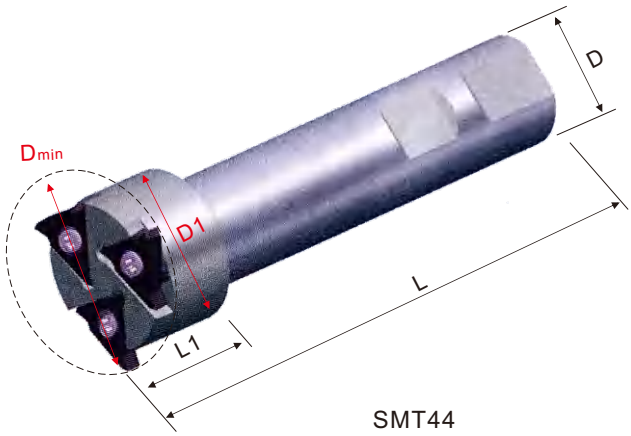
刀杆刀盘
直角台肩立铣刀
圆角铣刀
球头铣刀
钻铣刀杆
倒角刀杆
玉米铣刀
三面刃槽刀
快进给系列
龙门平面铣刀
锁牙式刀柄

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZK60	ZK01	ZC22S	ZP201	ZP151	ZP152	ZP153	ZP163
切槽刀片 Grooving Inserts		 更多规格 More Type A25	TGF32L 150 200 250 300 350	0.1 0.15 0.15 0.15 0.15	16	2.0 2.8 2.8 2.8 2.8	3.18	1.5 2.0 2.5 3.0 3.5	刀柄：(Toolholder) D84	●	●	●	●		●	●	●	●	●	●
切槽刀片 Grooving Inserts		 更多规格 More Type A25	TGF32L 150-R0.75 200-R1.0 250-R1.25 300-R1.5	0.75 1.0 1.25 1.5	16	2.0 2.8 2.8 2.8	3.18	R0.75 R1.0 R1.25 R1.5	刀柄：(Toolholder) D84	●	●	●	●		●	●	●	●	●	●
切槽刀片 Grooving Inserts			TT43L 200 250 300 350 400 500	0.2 0.2 0.2 0.2 0.2 0.2	22	4.8	5.0	2.0 2.5 3.0 3.5 4.0 5.0	刀柄：(Toolholder) D84	●	●	●	●		●	●	●	●	●	●
切槽刀片 Grooving Inserts			TT43L 200-R1.0 250-R1.25 300-R1.5 350-R1.75 400-R2.0 500-R2.5	1.0 1.25 1.5 1.75 2.0 2.5	22	4.8	5.0	R1.0 R1.25 R1.5 R1.75 R2.0 R2.5	刀柄：(Toolholder) D84	●	●	●	●		●	●	●	●	●	●

SMT T型槽 有孔 铣刀



SMT25
SMT32



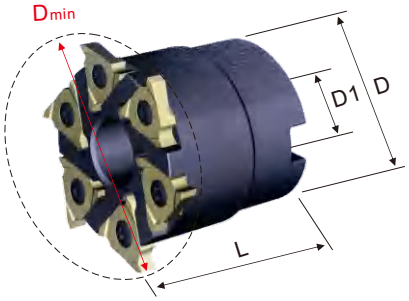
SMT44

零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size							刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	Dmin	D	D1	L	L1									
SMT 25-25KT32-1	25	25	17	125	56			1	TGF32L	M3.5×10	T15	●	335530	500
32-32KT32-1	32	32	24	125	77			1	TGF32L	M3.5×10	T15	●	335532	600
39-25KT32-3	39	25	30	125	23			3	TT43L	M5×13	T20	●	335534	800
44-25KT43-3	44	25	36	125	23			3	TT43L	M5×13	T20	●	335536	1000

■ SMT T型槽铣刀

T-Slot Side Mill

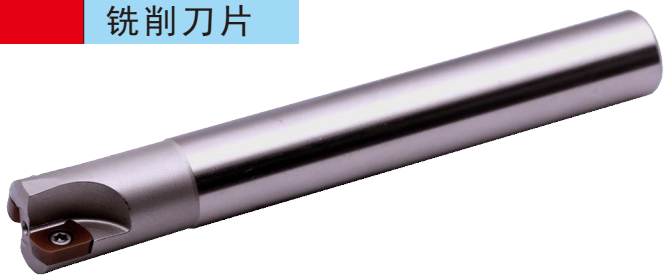


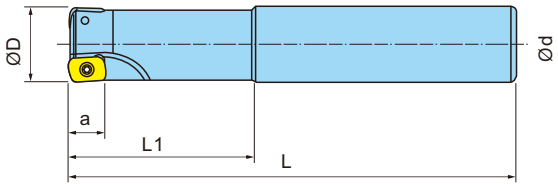
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size							刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	Dmin	D	D1	L										
SMT 63-22T43-6	63	50	22	50				6	TT43L	M5×13	T20	●	335538	900
80-27T43-8	80	50	27	50				8	TT43L	M5×13	T20	●	335539	1200

ASR 平面高进给 单面有孔 铣削刀片







- 双重夹紧机构刚性好
- 最适合大进给切削
- 具有标准冷却孔
- 刀片为特殊形状的4刃角型号

★ Double clamping body rigidity
★ The most suitable for large-feed cutting
★ With standard cooling holes
★ 4 for special shaped blade edge angle

切削参数 (Cutting Parameters): R23-R24
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	d	L	L1	刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
ASR06RC16-16-120-2T	16	16	120	40	2	EPNW0603TN-8 EPMT0603TN-8	M2.5×6	T8	●	321500	100	150
ASR06RC16-16-150-2T	16	16	150	40	2				●	321502	100	160
ASR06RC16-16-200-2T	16	16	200	50	2				●	321504	133	180
ASR06RC16-17-120-2T	17	16	120	40	2				●	321506	100	150
ASR06RC16-17-150-2T	17	16	150	40	2				●	321508	100	160
ASR06RC16-17-200-2T	17	16	200	50	2				●	321510	133	180
ASR06RC20-20-120-3T	20	20	120	40	3(2)				●	321512	-	160
ASR06RC20-20-150-3T	20	20	150	40	3(2)				●	321514	150	170
ASR06RC20-20-200-3T	20	20	200	50	3(2)				●	321516	183	200
ASR06RC20-21-120-3T	21	20	120	40	3(2)				●	321518	-	170
ASR06RC20-21-150-3T	21	20	150	40	3(2)				●	321520	150	170
ASR06RC20-21-200-3T	21	20	200	50	3(2)				●	321522	183	200
ASR06RC25-25-150-3T	25	25	150	50	3(4)				●	321524	183	175
ASR06RC25-25-200-3T	25	25	200	50	3(4)				●	321526	217	225
ASR06RC25-25-250-3T	25	25	250	60	3(4)				●	321528	250	260
ASR06RC25-26-150-3T	26	25	150	50	3(4)				●	321530	183	180
ASR06RC25-26-200-3T	26	25	200	50	3(4)				●	321532	217	240
ASR06RC25-26-250-3T	26	25	250	60	3(4)				●	321534	250	260
ASR06RC25-28-180-4T	28	25	180	60	4				●	321536	-	220
ASR06RC25-30-200-4T	30	25	200	60	4				●	321538	-	260
ASR06RC25-30-250-4T	30	25	250	60	4				●	321540	-	300
ASR06RC32-32-150-4T	32	32	150	50	4(5)				●	321542	233	260
ASR06RC32-32-200-4T	32	32	200	60	4(5)				●	321544	300	285
ASR06RC32-32-250-4T	32	32	250	60	4(5)				●	321546	367	350
ASR06RC32-33-160-4T	33	32	160	-	4				●	321548	-	260
ASR06RC32-33-200-4T	33	32	200	-	4				●	321550	-	285
ASR06RC32-35-150-4T	35	32	150	50	4(5)				●	321552	267	300
ASR06RC32-35-200-4T	35	32	200	50	4(5)				●	321554	333	380
ASR06RC32-35-250-4T	35	32	250	60	4(5)				●	321556	417	450
ASR06RC32-40-150-4T	40	32	150	50	4(6)				●	321558	300	350
ASR06RC32-40-200-4T	40	32	200	50	4(6)				●	321560	367	450
ASR06RC32-40-250-4T	40	32	250	60	4(6)				●	321562	467	600
ASR08RC20-20-130-2T	20	20	130	50	2	EPNW0803TN-10 EPEW0803TN-10	M3.5×8	T15	●	321564	-	180
ASR08RC20-20-180-2T	20	20	180	100	2				●	321566	-	230
ASR08RC20-20-250-2T	20	20	250	130	2				●	321568	-	280
ASR10RC25-25-140-2T	25	25	140	60	2	EDNW10T3TN-10 EDEW10T3TN-10	M4×9 压板ASR10Y 压板螺丝MS3508	T15	●	321570	-	200
ASR10RC25-25-200-2T	25	25	200	120	2				●	321572	-	260
ASR10RC25-25-300-2T	25	25	300	180	2				●	321574	-	350
ASR13RC32-30-150-2T	30	32	150	70	2	ED..13T4TN-15(Z) ED.W13T4TN-10	M5×10 压板ASR13Y 压板螺丝MS4009	T20	●	321576	-	220
ASR13RC32-30-200-2T	30	32	200	120	2				●	321578	-	300
ASR13RC32-30-300-2T	30	32	300	180	2				●	321580	-	380
ASR13RC32-32-150-2T	32	32	150	70	2				●	321582	-	280
ASR13RC32-32-200-2T	32	32	200	120	2				●	321584	-	350
ASR13RC32-32-300-2T	32	32	300	180	2				●	321586	-	500

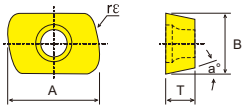
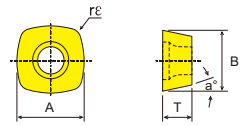
■ 刀杆先进行整体热处理(硬度达到48HRC)，然后再精修。避免二次热处理时使刀体产生变形，从而确保了精度和超强的钢性。

■ Arbor before an overall heat treatment (hardness reached 48 HRC), and then intensive. To avoid secondary heat treatment to make cutter body deformation. So as to ensure the accuracy of the tolerance range and superior rigidity.

EPNW SDNW 平面高进给 单面有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

			PCD	CBN-K	CBN-S	ZN61	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
P	钢	Steel	●	●		◕	✖	✖	✖	◕	◕	●
M	不锈钢	Stainless Steel				◕	◕	✖	✖	✖	◕	○
K	铸铁	Iron		●		◕	◕	✖	✖	✖		
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●				●					
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●					✖	✖	◕	●	
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●					✖	✖	◕	●	

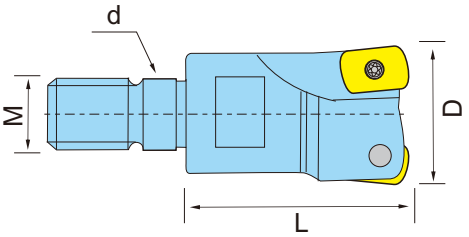
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	a°	配套刀柄 Matching Toolholder
高进给铣削加工 High feed milling			EPNW 0603TN-8	8	10	6.35	3.18	11°	☞ 刀柄: (Toolholder) D85-D88
			EPMT 0603TN-8	8	12	6.35	3.18	11°	
			EDNW 12T3TN-10	10	10	10	3.97	15°	
			EDMT 12T3TN-10	10	12	10	3.97	15°	
高进给铣削加工 High feed milling			EPNW 0803TN-10	10	8.1	8.1	3.18	11°	☞ 刀柄: (Toolholder) D85-D88
			EDNW 10T3TN-10	10	10	10	3.97	15°	
			SDNW 1205ZDTN-R15	15	12.7	12.7	5.56	15°	
			SDMT 1205ZDTN-R15	15	12.7	12.7	5.56	15°	
			EDNW 13T4TN-10	10	13.5	13.5	5.56	15°	
			13T4TN-15	15	13.5	13.5	5.56	15°	
			SDNW 1505ZDTN-R15	15	15.875	15.875	5.56	15°	
			SDMT 1505ZDTN-R15	15	15.875	15.875	5.56	15°	
			带修光刃 1505ZDTN-C15	15	15.875	15.875	5.56	15°	

■ ASRM 高进给圆弧铣刀

ASRM Super Radius Mill

☞ 切削参数 (Cutting Parameters): R23-R24
零配件 (Spare Parts): P01-P04





型号 Cat. No	尺寸 Size D	L	d	M	Teeth	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
ASRM2016R-2	16	25	8.5	M8	2	EPNW0603TN-8 EPMT0603TN-8 EPMT0603EN-8LF	M2.5X6	T8	●	321800	300
ASRM2017R-2	17	25	8.5	M8	2				●	321802	300
ASRM2018R-2	18	25	8.5	M8	2				●	321804	300
ASRM2020R-3	20	30	10.5	M10	3				●	321806	300
ASRM2021R-3	21	30	10.5	M10	3				●	321808	300
ASRM2022R-3	22	30	10.5	M10	3				○	321810	400
ASRM2025R-4	25	35	12.5	M12	4				●	321812	450
ASRM2026R-4	26	35	12.5	M12	4				●	321814	450
ASRM2028R-4	28	35	12.5	M12	4				○	321816	460
ASRM2030R-4	30	40	17	M16	4				○	321818	500
ASRM2032R-5	32	40	17	M16	5				○	321820	500
ASRM2040R-6	40	40	17	M16	6	EPNW0803TN-10 EPEW0803TN-10	M3.5×8	T15	○	321822	560
ASRM0020-2	20	30	10.5	M10	2				○	321824	350
ASRM0021-2	21	30	10.5	M10	2	EDNW10T3TN-10 EDEW10T3TN-10	M4×9 压板ASR10Y 压板螺丝MS3508	T15	○	321826	350
ASRM0025-2	25	35	12.5	M12	2				○	321828	500
ASRM0026-2	26	35	12.5	M12	2				○	321830	500
ASRM0030-3	30	40	17	M16	3				○	321832	550
ASRM0032-3	32	40	17	M16	3				○	321834	550
ASRM0035-3	35	40	17	M16	3				○	321836	600
ASRM0040-4	40	40	17	M16	4				○	321838	600

ASR 12/15 平面高进给 单面有孔 铣削刀片

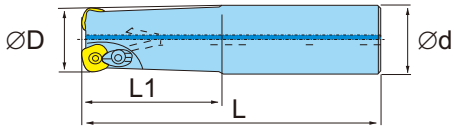
- 经济的ASR型4角型
- 具有超常的切削进给速度深切削加工效率 比传统产品提高3~5倍可缩短加工时间削减加工费用
- 刀片采用独特的R形状, 最大切削深度为2mm

Economical ASR type 4-angle type

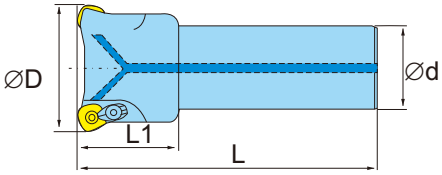
With extraordinary cutting feed speed, deep cutting efficiency is 3-5 times higher than traditional products, which can shorten processing time and reduce processing costs

The blade has a unique R-shape with a maximum cutting depth of 2mm





D=32mm



D＞32mm

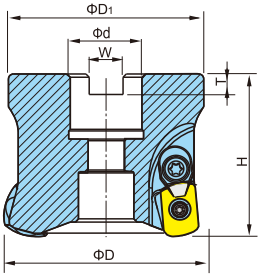
型号 Cat. No	尺寸 Size				刃数 No. of flutes	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	d	L	L1							
ASR12RC32-32-150-2T	32	32	150	70	2	SDNW1 205..	M5.0x12	T20	•		
ASR12RC32-32-200-2T	32	32	200	120	2				•		
ASR12RC32-32-250-2T	32	32	250	180	2				•		
ASR12RC32-40-150-3T	40	32	150	70	3				•		
ASR12RC32-40-250-3T	40	32	250	120	3				•		
ASR12RC32-40-300-3T	40	32	300	180	3				•		
ASR12RC32-50-150-4T	50	32	150	80	4				•		
ASR12RC32-50-250-4T	50	32	250	120	4				•		
ASR12RC32-63-150-4T	63	32	150	80	4				•		
ASR12RC32-63-250-4T	63	32	250	120	4				•		
ASR12RC42-50-150-4T	50	42	150	50	4				•		
ASR12RC42-50-250-4T	50	42	250	50	4				•		
ASR12RC42-63-150-4T	63	42	150	50	4				•		
ASR12RC42-63-250-4T	63	42	250	50	4				•		

EPNW SDNW 平面高进给 单面有孔 铣削刀片

ASR 快进给壳形铣刀

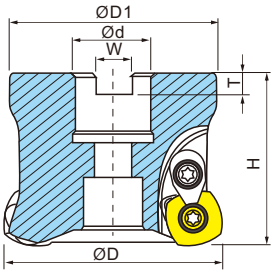
Fast Feed Shell Milling Cutter





ASF





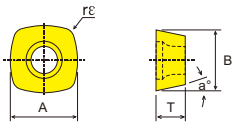
切削参数 (Cutting Parameters): R23-R24
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size						刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	D1	d	H	W	T							
ASR06R50-22-4T	50	47	22	50	10.4	6.3	EPNW0603TN-8 EPMT0603TN-8		M2.5×6	T8	•	321700	
ASR06R63-22-4T	63	60	22	50	10.4	6.3					•	321702	
ASRF12R50-22-4T	50	47	22	50	10.4	6.3	SDNW1205..	ASRT-15	M5×12	T20	•		
ASRF12R63-22-4T	63	60	22	50	10.4	6.3					•		
ASRF12R80-27-5T	80	70	27	50	12.4	7					•		
ASRF15R80-27-5T	80	70	27	50	12.4	7	SDNW1505ZDTN-R15 SDMT1505ZDTN-R15 SDEW1505ZDTN-R15	ASRT-15	M5×12	T20	•	321704	
ASRF15R100-32-5T	100	90	32	50	14.4	8					•	321706	
ASRF15R125-40-6T	125	90	40	50	16.4	9					•	321708	
ASRF15R160-40-8T	160	120	40	50	16.4	9					•	321710	
ASRF15R200-60-8T	200	120	60	50	25.7	14					•	321712	
ASRF15R200-60-10T	200	120	60	50	25.7	14					•	321714	

SOMT 平面高进给 单面有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	a°	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
高进给铣削加工 High feed milling			SOMT 100420ER-GM 140520ER-GM	2.0 2.0	10.3 14.14	10.3 14.14	4.58 5.56	16° 16°	刀柄 : (Toolholder) D89-D90				●				●	●	●	●
													●				●	●	●	●

MFH 快进给铣刀杆

Fast Feed Milling Cutter

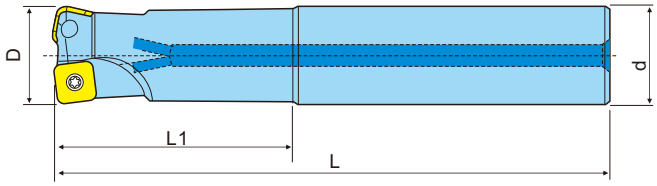


Fig.1

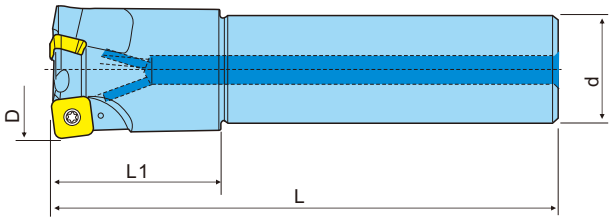


Fig.2

型号 Cat. No	尺寸 Size D	d	L	L1	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number
MFH10R C25-25-150-2T	25	25	150	60	2	Fig.1	SOMT1004	M4.0×9	T15	●	
C32-32-150-2T	32	32	150	70	2					●	
C32-32-200-2T	32	32	200	120	2					●	
C32-32-300-2T	32	32	300	180	2					●	
C32-35-150-3T	35	32	150	50	3	Fig.2				●	
C32-35-200-3T	35	32	200	50	3					●	
C32-35-300-3T	35	32	300	50	3					●	
C32-40-150-4T	40	32	150	50	4					●	
C32-40-200-4T	40	32	200	50	4					●	
C32-40-250-4T	40	32	250	50	4					●	
C32-40-300-4T	40	32	300	50	4					●	
MFH14R C42-50-150-3T	50	42	150	50	3	Fig.2	SOMT1405	M5.0x12	T20	●	
C42-63-150-4T	63	42	150	50	4					●	
C42-80-150-5T	80	42	150	50	5					●	

MFH 快进给铣刀盘

Fast Feed Milling Cutter

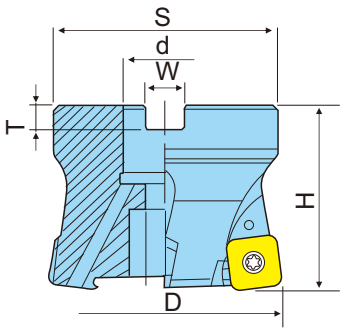


Fig.1

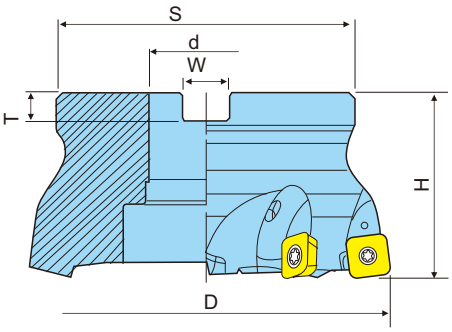


Fig.2

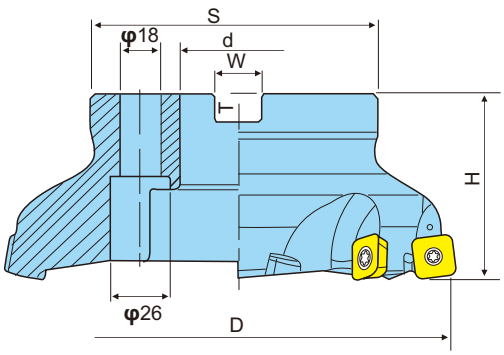
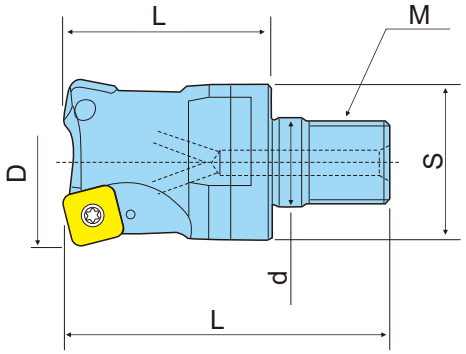


Fig.3

型号 Cat. No	尺寸 Size						Fig	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number
	D	D1	d	H	W	T							
MFH10R 50-22-4T	50	47	22	50	10.4	6.3	Fig.1	SOMT1004	ASRT-15	M4.0×9	T15	●	
50-22-5T	63	47	22	50	10.4	6.3						●	
63-22-5T	50	60	22	50	10.4	6.3						●	
63-22-6T	63	60	22	50	10.4	6.3						●	
80-27-7T	80	70	27	50	12.4	7						●	
MFH14R 50-22-4T	50	47	22	50	10.4	6.3	Fig.1	SOMT1405	ASRT-15	M5×12	T20	●	
63-22-4T	63	60	22	50	10.4	6.3						●	
63-22-5T	63	60	22	50	10.4	6.3						●	
80-27-5T	80	70	27	50	12.4	7						●	
80-27-6T	80	70	27	50	12.4	7						●	
100-32-6T	100	90	32	50	14.4	8	Fig.2					●	
100-32-7T	100	90	32	50	14.4	8						●	
125-40-7T	125	120	40	50	16.4	9						●	
160-40-8T	160	120	40	50	16.4	9	Fig.3					●	

MFH 快进给锁牙式铣刀头

Fast Feed Milling Cutter

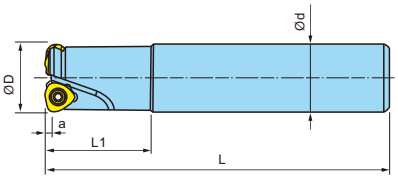


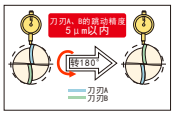
型号 Cat. No	尺寸 Size				刃数 No. of flutes	M	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number
	D	d	L	L1							
MFH10R 25-2T-M12	25	12.5	57	35	2	M12	SOMT1004	M4.0×9	T15	●	
28-2T-M12	28	12.5	57	35	2	M12				●	
32-2T-M16	32	17	63	40	2	M16				●	
32-3T-M16	32	17	63	40	3	M16				●	
35-2T-M16	35	17	63	40	2	M16				●	
35-3T-M16	35	17	63	40	3	M16				●	
40-3T-M16	40	17	63	40	3	M16				●	
40-4T-M16	40	17	63	40	4	M16				●	

AJX 平面高进给 单面有孔 铣削刀片









切削参数 (Cutting Parameters): R21
零配件 (Spare Parts): P01-P04

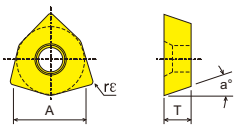
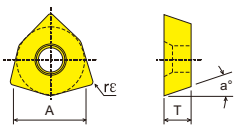
●高进给，高效率
★ The most suitable for large-feed cutting.

型号 Cat. No	尺寸 Size					刃数 No. of flutes	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
	D	d	L	L1	a									
AJX06RC16-16-120-2T	16	16	120	30	1	2	JOMW06T215ZZSR	-	M2.5×6	T8	●	321100	-	150
AJX06RC16-16-160-2T	16	16	160	40	1	2					●	321102	-	150
AJX06RC16-17-120-2T	17	16	120	40	1	2					●	321104	-	150
AJX06RC16-17-160-2T	17	16	160	40	1	2					●	321106	-	150
AJX06RC16-17-200-2T	17	16	200	50	1	2					●	321108	-	180
AJX06RC16-18-150-2T	18	16	150	40	1	2					●	321110	-	180
AJX08RC20-20-160-2T	20	20	160	40	1.5	2	JOMW08320ZZSR	-	M3×7	T10	●	321112	200	165
AJX08RC20-20-200-2T	20	20	200	50	1.5	2					●	321114	233	225
AJX08RC20-20-250-2T	20	20	250	60	1.5	2					●	321116	-	280
AJX08RC20-21-160-2T	21	20	160	40	1.5	2					●	321118	200	165
AJX08RC20-21-200-2T	21	20	200	50	1.5	2					●	321120	233	225
AJX08RC20-21-250-2T	21	20	250	60	1.5	2					●	321122	-	280
AJX08RC20-22-160-2T	22	20	160	40	1.5	2					●	321124	-	200
AJX08RC20-22-200-2T	22	20	200	50	1.5	2					●	321126	-	260
AJX09RC25-25-150-2T	25	25	150	40	2	2	JOMW09T320ZDSR	AJX-09	M4×10	T15	●	321128	233	200
AJX09RC25-25-200-2T	25	25	200	50	2	2					●	321130	267	225
AJX09RC25-25-250-2T	25	25	250	60	2	2					●	321132	-	285
AJX09RC25-25-300-2T	25	25	300	60	2	2					●	321134	-	320
AJX09RC25-26-150-2T	26	25	150	40	2	2					●	321136	233	200
AJX09RC25-26-200-2T	26	25	200	50	2	2					●	321138	267	225
AJX09RC25-26-250-2T	26	25	250	60	2	2					●	321140	-	285
AJX09RC25-26-300-2T	26	25	300	60	2	2					●	321142	-	320
AJX09RC25-28-160-2T	28	25	160	40	2	2					●	321144	-	220
AJX09RC25-28-200-2T	28	25	200	50	2	2					●	321146	-	290
AJX09RC25-28-250-2T	28	25	250	60	2	2					●	321148	-	350
AJX09RC25-28-300-2T	28	25	300	60	2	2					●	321150	-	400
AJX09RC25-30-160-2T	30	25	160	40	2	2					●	321152	-	220
AJX09RC25-30-200-2T	30	25	200	50	2	2					●	321154	-	290
AJX09RC25-30-250-2T	30	25	250	60	2	2					●	321156	-	350
AJX09RC25-30-300-2T	30	25	300	60	2	2					●	321158	-	400
AJX09RC25-32-160-2T	32	25	160	40	2	2					●	321160	-	220
AJX09RC25-32-200-2T	32	25	200	50	2	2					●	321162	-	290
AJX09RC25-32-250-2T	32	25	250	60	2	2					●	321164	-	350
AJX09RC25-32-300-2T	32	25	300	60	2	2					●	321166	-	400
AJX12RC32-25-160-2T	25	32	160	40	2	2	JDMT120420ZDSR	AJX-12	M4×10	T15	●	321168	-	240
AJX12RC32-25-200-2T	25	32	200	50	2	2					●	321170	-	270
AJX12RC32-25-250-2T	25	32	250	60	2	2					●	321172	-	325
AJX12RC32-25-300-2T	25	32	300	60	2	2					●	321174	-	400
AJX12RC32-30-160-2T	30	32	160	40	2	2					●	321176	-	240
AJX12RC32-30-200-2T	30	32	200	50	2	2					●	321178	-	270
AJX12RC32-30-250-2T	30	32	250	60	2	2					●	321180	-	325
AJX12RC32-30-300-2T	30	32	300	60	2	2					●	321182	-	400
AJX12RC32-32-150-3T	32	32	150	40	2	3					●	321184	267	240
AJX12RC32-32-200-3T	32	32	200	50	2	3					●	321186	317	270
AJX12RC32-32-250-3T	32	32	250	60	2	3					●	321188	367	325
AJX12RC32-32-300-3T	32	32	300	60	2	3					●	321190	-	400
AJX12RC32-33-160-2T	33	32	160	40	2	2					●	321192	-	240
AJX12RC32-33-200-2T	33	32	200	50	2	2					●	321194	-	270
AJX12RC32-33-250-2T	33	32	250	60	2	2					●	321196	-	325
AJX12RC32-35-150-3T	35	32	150	40	2	3					●	321198	267	240
AJX12RC32-35-200-3T	35	32	200	50	2	3					●	321200	317	270
AJX12RC32-35-250-3T	35	32	250	60	2	3					●	321202	367	325
AJX12RC32-35-300-3T	35	32	300	60	2	3					●	321204	-	400
AJX12RC32-40-150-3T	40	32	150	40	2	3					●	321206	300	300
AJX12RC32-40-200-3T	40	32	200	50	2	3					●	321208	367	360
AJX12RC32-40-250-3T	40	32	250	60	2	3					●	321210	433	430
AJX14RC42-50-180-4T	50	42	180	35	2	4	JDMT140520ZDSR	AJX-14	M5×10	T20	●	321212	-	420

JDMW 平面高进给 单面有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

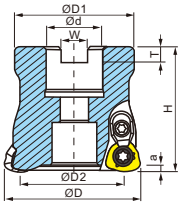
			PCD	CBN-K	CBN-S	ZN61	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
P	钢	Steel				●	◕	◕	✖	✖	✖	◕	●
M	不锈钢	Stainless Steel					◕	◕	✖	✖	✖	◕	○
K	铸铁	Iron					●	◕	✖	✖	✖		
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●			◕							
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●						✖	✖	◕	●	
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●						✖	✖	◕	●	

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	T	a°	配套刀柄 Matching Toolholder
高进给铣削加工 High feed milling			JOMW 06T215ZZSR-FT	1.5	6.35	2.78	13°	刀柄: (Toolholder) D91-D92
			080320ZZSR-FT	2.0	8.0	3.18	13°	
			JDMW 09T320ZDSR-FT	2.0	9.525	3.97	15°	
			120420ZDSR-FT	2.0	12.0	4.76	15°	
			140520ZDSR-FT	2.0	14.0	5.56	15°	
高进给铣削加工 High feed milling			JOMT 06T215ZZSR-JM	1.5	6.35	2.78	13°	刀柄: (Toolholder) D91-D92
			080320ZZSR-JM	2.0	8.0	3.18	13°	
			JDMT 09T320ZDSR-JM	2.0	9.525	3.97	15°	
			120420ZDSR-JM	2.0	12.0	4.76	15°	
			140520ZDSR-JM	2.0	14.0	5.56	15°	

■ AJX 快进给面铣刀盘

Fast Feed Face Milling Cutter







- ●使用15° 正角刀片
- ●双重夹紧机构刚性好
- ●最适合大进给切削
- ●具有标准冷却孔
- ●刀片为特殊形状的3刃角型号

- ★ The use of 15 ° positive angle blade
- ★ Double clamping body rigidity
- ★ The most suitable for large-feed cutting
- ★ With standard cooling holes
- ★ 3 for special shaped blade edge angle

☞ 切削参数 (Cutting Parameters): R21
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	D1	D2	d	H	W	T	a	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
AJX12R50-22-3T	50	47	38.3	22	50	10.4	6.3	1.5	JDMW120420ZDSR-FT	AJX-12	M4×10	T15	●	321200	283	280
AJX12R50-22-4T	50	47	38.3	22	50	10.4	6.3	1.5					●	321202	317	280
AJX12R63-22-4T	63	30	51.3	22	50	10.4	6.3	1.5					●	321204	483	350
AJX14R63-22-3T	63	30	51.1	22	50	10.4	6.3	2	JDMW140520ZDSR-FT	AJX-14	M5×12	T20	●	321206	283	350
AJX14R63-22-4T	63	30	51.1	22	50	10.4	6.3	2					●	321208	317	350
AJX14R80-27-4T	80	76	68.1	27	50	12.4	7	2					●	321210	483	600
AJX14R100-32-5T	100	96	88.1	32	50	14.4	8	2					●	321212	700	800

■ AJX 高进给铣刀头

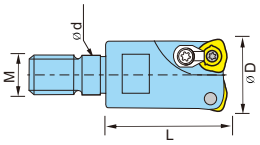
AJX High Feed Milling Head



■ 低转速, 高进给
切削效率是普通圆鼻面铣刀盘的3倍
锥形设计, 钢性高

■ Low-speed, high feed
Cutting efficiency of an ordinary cutter round nose and face plate 3 times
Cone design, steel high





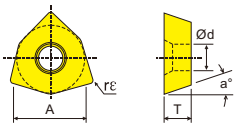
☞ 切削参数 (Cutting Parameters): R21
零配件 (Spare Parts): P01-P04

型 号 Cat. No	尺 寸 Size D	L	d	M	Teeth	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
AJX06R162AM0830	16	30	8.5	M8	2	JOMW06T215 ZZSR-FT	-	M2.5X6	T8	●	321300	150
AJX06R172AM0830	17	30	8.5	M8	2					●	321302	150
AJX08R202AM1030	20	30	10.5	M10	2	JOMW080320 ZZSR-FT	-	M3X6	T15	●	321304	160
AJX08R212AM1030	21	30	10.5	M10	2					●	321306	160
AJX08R222AM1030	22	30	10.5	M10	2					●	321308	200
AJX09R252AM1235	25	35	12.5	M12	2	JDMW09T320 ZDSR-JM	AJX09	M3.5X8	T15	●	321310	160
AJX09R262AM1235	26	35	12.5	M12	2					●	321312	200

WDMW 平面高进给 单面有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

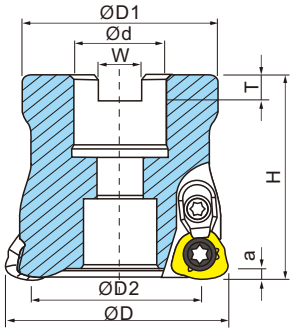
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	T	a°	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZP22S	ZP201	ZP150	ZP152	ZP153	ZP163
高进给铣削加工 High feed milling			WOMW 04T215ZER	1.5	6.5	2.8	13°	刀柄: (Toolholder) D93-D94							●		●		
			WDMW 050316ZER	1.6	8	3.2	13°								●		●		
			050316ZTR	1.6	8	3.2	13°								●		●		
			06T320ZER	2.0	10	3.97	13°								●		●		
			06T320ZTR	2.0	10	3.97	13°								●		●		
			080520ZER	2.0	13	5.5	13°								●		●		
			080520ZTR	2.0	13	5.5	13°								●		●		
			10X620ZER	2.0	16	6	13°								●		●		
			10X620ZTR	2.0	16	6	13°								●		●		

SKS 快进给面铣刀盘

SKS type fast feed milling cutter disc







- ●使用15°正角刀片
- ●双重夹紧机构刚性好
- ●最适合大进给切削
- ●具有标准冷却孔
- ●刀片为特殊形状的3刃角型号

★ The use of 11 ° positive angle blade
★ Double clamping body rigidity
★ The most suitable for large-feed cutting
★ With standard cooling holes
★ 3 for special shaped blade edge angle

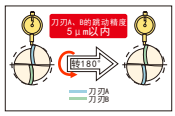
切削参数 (Cutting Parameters): R22
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size D	D1	d	H	W	T	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
SKS08R50-22-4T	50	47	22	50	10.4	6.3	WDMW080520ZTR	SKS-08	M4.5×10.5 M5×11	T20	●	322100	283	280
SKS08R63-22-4T	63	60	22	50	10.4	6.3					●	322102	317	350
SKS08R66-27-4T	66	60	27	50	12.4	7					●	322104	-	500
SKS08R80-27-5T	80	70	27	55	12.4	7					●	322106	483	600
SKS08R100-32-6T	100	90	32	55	14.4	8					●	322108	700	800
SKS10R63-22-4T	63	60	22	50	10.4	6.3	WDMT10X6202TR	SKS-10	M4.5×10.5 M5×11	T20	●	322110	300	425
SKS10R63-27-4T	63	60	27	50	12.4	7					●	322112	350	460
SKS10R80-27-5T	80	76	27	55	12.4	7					●	322114	500	700
SKS10R100-32-6T	100	96	32	55	14.4	8					●	322116	700	960

■ 低转速, 高进给
切削效率是普通圆鼻面铣刀盘的3倍
锥形设计, 钢性高

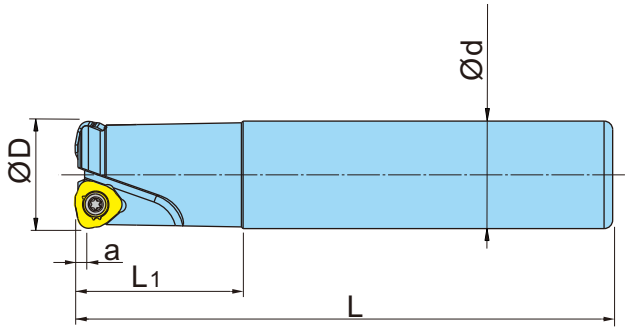
■ Low-speed, high feed
Cutting efficiency of an ordinary cutter round nose and face plate 3 times
Cone design, steel high

SKS 快进立铣刀 有孔 铣削刀片









● 最适合大进给切削

★ The most suitable for large-feed cutting.

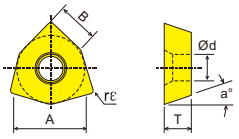
切削参数 (Cutting Parameters): R22
零配件 (Spare Parts): P01-P04

型号 Cat. No	尺寸 Size					刃数 No. of flutes	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
	D	d	L	L1	a									
SKS04RC16-16-150-2T	16	16	150	30	1	2	WOMW04T215	--	M2.5x6	T8	●	321900	-	185
SKS04RC16-17-70-2T	17	16	70	30	1	2					●	321902	-	180
SKS04RC16-17-110-2T	17	16	110	30	1	2					●	321904	-	180
SKS04RC16-17-150-2T	17	16	150	30	1	2					●	321906	-	185
SKS05RC20-20-130-2T	20	20	130	30	1.5	2	WOMW050316	--	M3x7	T10	●	321908	-	200
SKS05RC20-20-180-2T	20	20	180	40	1.5	2					●	321910	-	220
SKS05RC20-20-200-2T	20	20	200	40	1.5	2					●	321912	-	220
SKS05RC20-20-250-2T	20	20	250	50	1.5	2					●	321914	-	250
SKS05RC20-21-130-2T	21	20	130	30	1.5	2					●	321916	233	200
SKS05RC20-21-160-2T	21	20	160	30	1.5	2					●	321918	-	200
SKS05RC20-21-200-2T	21	20	200	40	1.5	2					●	321920	267	250
SKS06RC25-25-140-2T	25	25	140	30	2	2	WDMW06T320	SKS-06	M4x10	T15	●	321922	-	240
SKS06RC25-25-160-2T	25	25	160	30	2	2					●	321924	-	240
SKS06RC25-25-200-2T	25	25	200	40	2	2					●	321926	233	260
SKS06RC25-25-250-2T	25	25	250	50	2	2					●	321928	-	320
SKS06RC25-25-300-2T	25	25	300	60	2	2					●	321930	267	380
SKS06RC25-26-140-2T	26	25	140	30	2	2					●	321932	267	240
SKS06RC25-26-160-2T	26	25	160	30	2	2					●	321934	317	240
SKS06RC25-26-200-2T	26	25	200	40	2	2					●	321936	367	260
SKS06RC32-32-150-3T	32	32	150	30	2	3					●	321938	267	260
SKS06RC32-32-200-3T	32	32	200	40	2	3					●	321940	317	330
SKS06RC32-32-250-3T	32	32	250	50	2	3					●	321942	367	380
SKS06RC32-35-150-3T	35	32	150	30	2	3					●	321944	300	260
SKS06RC32-35-200-3T	35	32	200	40	2	3					●	321946	367	330
SKS06RC32-35-250-3T	35	32	250	50	2	3					●	321948	433	380
SKS06RC32-40-150-3T	40	32	150	30	2	3					●	321950	-	280
SKS06RC32-40-200-3T	40	32	200	40	2	3					●	321952	-	350
SKS06RC32-40-250-3T	40	32	250	50	2	3					●	321954	-	420
SKS08RC32-32-160-2T	32	32	160	40	2	2	WDMW080520	SKS-08	M4.5x10 / M5x11	T15	●	321956	-	280
SKS08RC32-32-200-2T	32	32	200	50	2	2					●	321958	-	320
SKS08RC32-32-250-2T	32	32	250	60	2	2					●	321960	-	380
SKS08RC32-32-300-2T	32	32	300	80	2	2					●	321962	-	450
SKS08RC32-32-350-2T	32	32	350	90	2	2					●	321964	-	560
SKS08RC32-33-160-2T	33	32	160	40	2	2					●	321966	-	300
SKS08RC32-33-200-2T	33	32	200	50	2	2					●	321968	-	320
SKS08RC32-33-250-2T	33	32	250	60	2	2					●	321970	-	380
SKS08RC32-33-300-2T	33	32	300	80	2	2					●	321972	-	450
SKS08RC32-33-350-2T	33	32	350	90	2	2					●	321974	-	560
SKS08RC32-35-160-2T	35	32	160	40	2	2					●	321976	-	300
SKS08RC32-35-200-2T	35	32	200	50	2	2					●	321978	-	320
SKS08RC32-35-250-2T	35	32	250	60	2	2					●	321980	-	380
SKS08RC32-35-300-2T	35	32	300	80	2	2					●	321982	-	450
SKS08RC32-35-350-2T	35	32	350	90	2	2					●	321984	-	560
SKS08RC32-40-160-2T	40	32	160	40	2	2					●	321986	-	330
SKS08RC32-40-200-2T	40	32	200	50	2	2					●	321988	-	350
SKS08RC32-40-250-2T	40	32	250	60	2	2					●	321990	-	380
SKS08RC32-40-300-2T	40	32	300	80	2	2					●	321992	-	460
SKS08RC32-40-350-2T	40	32	350	90	2	2					●	321994	-	580

WPGT 平面高进给 单面有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	Ød	T	a°	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	CS325	ZP250	ZP150	ZP152	ZP153	ZP163
高进给铣削加工 High feed milling			WPGT 050315ZSR	1.5	7.94	6	3.5	11°	☞ 刀柄: (Toolholder) D96							●	●	●	●	
			060415ZSR	1.5	9.525		4.2	11°								●	●	●	●	
			080615ZSR	1.5	12.85		6.35	11°												
			090725ZSR	2.5	15		7.0	11°												
			050315ZSR-PM	1.5	7.94		3.5	11°												
			060415ZSR-PM	1.5	9.525		4.2	11°								●	●	●	●	
			080615ZSR-PM	1.5	12.85		6.35	11°								●	●	●	●	
			090725ZSR-PM	2.5	15		7.0	11°												

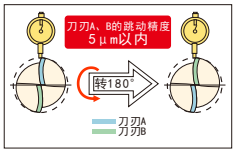
槽型说明;
ZSR-PM槽型刃口锋利，适合应用于机床功率不足及不锈钢/钛合金等较粘材料的加工。
ZSR槽型刃口较钝，适合应用于淬硬钢及铸铁等硬材料加工。

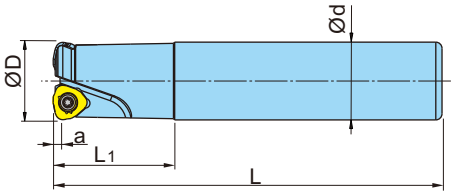
Groove type description;
ZSR-PM has a sharp groove edge, which is suitable for the machining of less power of machine tools and more sticky materials such as stainless steel / titanium alloy.
ZSR groove edge is blunt, which is suitable for hard material processing such as hardened steel and cast iron.

■ TXP 快进给立铣刀

TXP High Feedrate End Mill







切削参数 (Cutting Parameters): R19-R21
零配件 (Spare Parts): P01-P04

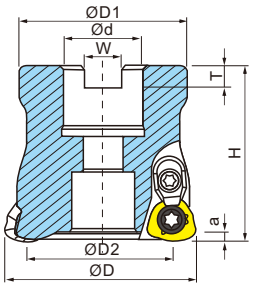
● 最适合大进给切削　　★ The most suitable for large-feed cutting.

型 号 Cat. No	刃数 No.of flutes	尺 寸Size D	d	L	L1	a	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
TXP06RC25-25-160-2T	2	25	25	160	80	2	WPMW06X415ZPR	EXP-06	M4X10	T15	●	322300	240
TXP06RC25-26-200-2T	2	26	25	200	--	2					●	322302	260
TXP06RC32-33-160-3T	3	33	32	160	--	2					●	322304	300
TXP06RC32-33-200-3T	3	33	32	200	--	2					●	322306	320
TXP06RC32-35-200-3T	3	35	32	200	--	2					●	322308	350
TXP06RC32-40-200-3T	3	40	32	200	--	2					●	322310	400
TXP06RC32-40-250-3T	3	40	32	250		2						322312	450
TXP08RC32-35-200-2T	2	35	32	200		2	WPMT080615ZSR	EXP-08	M5X11	T20		322314	350

■ TXP 快进给面铣刀盘

Fast Feed Face Milling Cutter





- ●使用11°正角刀片
- ●双重夹紧机构刚性好
- ●最适合大进给切削
- ●具有标准冷却孔
- ●刀片为特殊形状的3刃角型号

★ The use of 11 ° positive angle blade
★ Double clamping body rigidity
★ The most suitable for large-feed cutting
★ With standard cooling holes
★ 3 for special shaped blade edge angle

切削参数 (Cutting Parameters): R19-R21
零配件 (Spare Parts): P01-P04

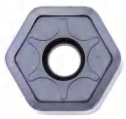
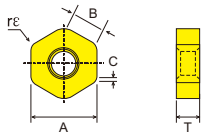
型号 Cat. No	尺寸 Size D	D1	D2	d	H	W	T	a	刀片 Insert	压板 Clamp	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)	Price (RMB)
TXP06R50-22-4T	50	47	41.4	22	50	10.4	6.3	1.5	WPMW06X415ZPR	TXP-06	M4×10	T15	●	322400	-	280
TXP08R50-22-3T	50	47	38.6	22	50	10.4	6.3	1.5	WPMT080615ZSR	TXP-08	M5×11	T20	●	322402	283	280
TXP08R63-22-4T	63	59	51.6	22	50	10.4	6.3	1.5					●	322404	317	350
TXP08R80-27-4T	80	70	68.6	27	50	12.4	7	1.5					●	322406	483	600
TXP08R100-32-6T	100	90	88.6	22	50	14.4	8	1.5					●	322408	700	800

HNGX 正六边形 有孔双面 铣削刀片

刀片(Insert):
HNGX0906ANSN-M ZP163
Ap:0.5-4.5 (mm)
Fz:0.07-0.9 (mm/rev)
Vc:100-300 (m/min)

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

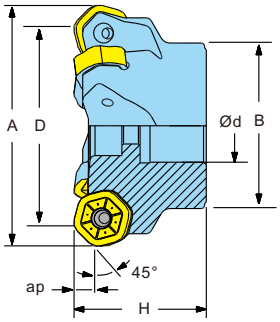
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	C	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
平面铣削加工 Surface milling			HNGX 0906ANSN-M 0906ANSN-R	1.2	15.88	9	1.8	5.56	刀柄: (Toolholder) D97							●	●	●	●	●

■ KSHR 12角刀盘
KSHR 12 Angle Cutter

粗加工 Roughing　台阶面加工 Shoulder milling　含平面仿形加工 Copy milling





- 每个刀片12个切削刃
- 内冷标准
- 切削轻快

★ Each blade 12 cutting edges
★ Internal cooling standard
★ The cutting easy

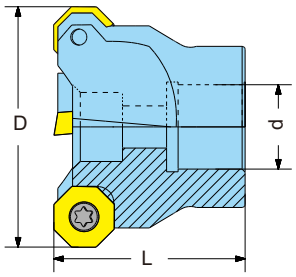
切削参数 (Cutting Parameters): R19-R21
零配件 (Spare Parts): P01-P04

规格型号 Specification	尺寸 Dimensions (mm) D	d	A	B	ap max	刃数 Edges	重量 (kg)	刀片 Insert	螺钉 Screw	扳手 Wrench	库存 Stock	编码 Code	Price (RMB)
KSHR 40A04RS45HN09	40	22	51	39	4.5	4	0.25	HNGX0906..	M4.5×12	T20	●	322710	1167
50A04RS45HN09	50	22	61	38	4.5	4	0.32				●	322712	1167
50A05RS45HN09	50	22	61	38	4.5	4	0.33				●	322714	1200
63A04RS45HN09	63	22	74	50	4.5	4	0.60				●	322716	1283
63A06RS45HN09	63	22	74	50	4.5	6	0.56				●	322718	1680
63A07RS45HN09	63	22	74	50	4.5	7	0.57				●	322720	1700
80A06RS45HN09	80	27	91	60	4.5	6	1.12				●	322722	1750
80A08RS45HN09	80	27	91	60	4.5	8	1.07				●	322724	2217
80A09RS45HN09	80	27	91	60	4.5	9	1.11				●	322726	2300
100B06RS45HN09	100	32	111	80	4.5	6	1.73				●	322728	1983
100B08RS45HN09	100	32	111	80	4.5	8	1.68				●	322730	2520
100B11RS45HN09	100	32	111	80	4.5	11	1.73				●	322732	2600
125B06RS45HN09	125	40	136	90	4.5	6	2.84				●	322734	2053
125B08RS45HN09	125	40	136	90	4.5	8	2.77				●	322736	2520
125B10RS45HN09	125	40	136	90	4.5	10	2.86				●	322738	2987
160C08RS45HN09	160	40	171	110	4.5	8	4.75				●	322740	2987
160C10RS45HN09	160	40	171	110	4.5	10	4.56				●	322742	3337
160C12RS45HN09	160	40	171	110	4.5	12	4.70				●	322744	3920
200C12RS45HN09	200	60	211	130	4.5	12	6.43				●	322746	4153
250C14RS45HN09	250	60	261	130	4.5	14	9.93				●	322748	7700
315C16RS45HN09	315	60	326	230	4.5	16	22.9				●	322750	10600

■ OD 八角刀盘

OD Octagonal Cutter







- 采用15° 正角刀片
- 大进给低切削阻力
- 八角刀粒，经济性好

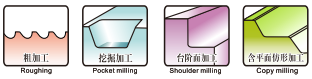
★ Using the 15 degree angle blade
★ High feed low cutting resistance
★ The octagonal tablets, the economy is good

切削参数 (Cutting Parameters): R19-R21
零配件 (Spare Parts): P01-P04

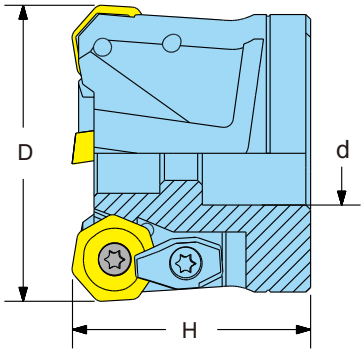
型 号 Cat. No	直径 Diameter	内径 Inside diameter	总长 Long	刃数 Blade number	刀 片 Insert	Stock	Order Number	Price (RMB)
OD-63-22-4T	63	22	50	4	ODMT060508	•	322700	300
OD-80-27-5T	80	27	50	5		•	322702	550
OD-100-32-6T	100	32	63	6		•	322704	750
OD-125-40-8T	125	40	63	8		•	322706	950

■ HEP 系列七角面铣刀盘

HEP Series Seven Angle Face Milling Cutter







切削参数 (Cutting Parameters): R19-R21
零配件 (Spare Parts): P01-P04

- 高效大进给，七角经济性好！

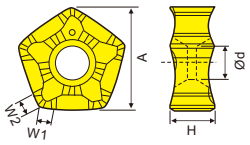
★ High feed, seven angle good economy!

型 号 Cat. No	刃数 Blade number	直径 D Diameter	内孔d Inner hole	高度 H Height	端面直径 Face diameter	重量 Weight	刀 片 Insert	Stock	Order Number	单价 Price
HEP-4063R-08-22	4	63	22	50	60	1.1	XDMT080620	•	322600	460
HEP-5080R-08-27	5	80	27	55	76	1.9		•	322602	800
HEP-6100R-08-32	6	100	32	60	96	3.6		•	322604	1050
HEP-7125R-08-40	7	125	40	65	100	5.5		•	322606	1400
HEP-8160R-08-40	8	160	40	65	100	8.4		•	322608	1800
HEP-9200R-08-60	9	200	60	65	140	10.2		•	322610	2570

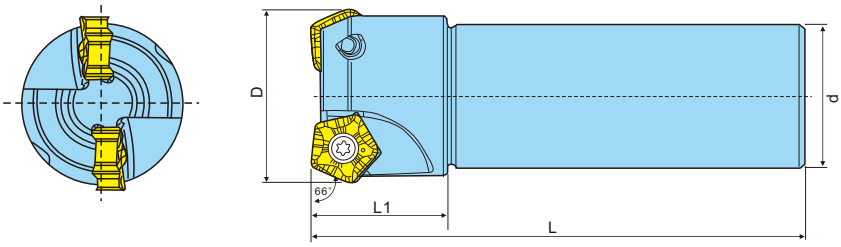
PNMU 平面高进给 单面有孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

			PCD	CBN-K	CBN-S	ZN60	ZK01	ZP325	ZP251	ZP150	ZP153	ZP163
P	钢	Steel				●	◕	✖	✖	✖	◕	●
M	不锈钢	Stainless Steel					◕	✖	✖	✖	◕	○
K	铸铁	Iron				●	◕	✖	✖	✖		
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●				◕					
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●					✖	✖	◕	●	
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●					✖	✖	◕	●	

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) A	H	Ød	W1	W2	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZP325	ZP251	ZP150	ZP153	ZP163
高进给铣削加工 High feed milling			PNMU 0905XNER-GM	14.6	5.56	4.7	2.0	2.0	刀柄: (Toolholder) D99-D100								●	●	●

MFPN66 双面10角面铣刀
Double sided 10 corner milling cutter



型号 Cat. No	尺寸 Size D	d	L	L1	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number
MFPN66R C32-32-110-2T	32	32	110	30	2		PNMU..GM	M4.0×9	T15	●	
C32-40-110-3T	40	32	110	30	3					●	

推荐切削参数 Recommended cutting parameters

加工材料 Processing materials		进给 Feed (fz mm/t)	推荐刀片材质 (切削速度Vc m/min) Recommended blade material (cutting speed Vc m/min) MEGACOAT (PVD涂层硬质合金) MEGACOAT (PVD coated hard alloy) ZP150	ZP163
碳钢	Carbon steel	0.1~0.2~0.3	○ 120~180~250	● 120~180~250
合金钢	Alloy steel	0.1~0.2~0.3	○ 100~160~220	● 100~160~220
模具钢	Die steel	0.1~0.18~0.25	○ 80~140~180	● 80~140~180
奥氏体系不锈钢	Austenitic stainless steel	0.1~0.18~0.25	○ 100~160~200	● 100~150~200
马氏体系不锈钢	Martensitic stainless steel	0.1~0.18~0.25	○ 100~150~200	
沉淀硬化系不锈钢	Precipitation Hardening Stainless Steel	0.1~0.18~0.25	● 90~120~150	
灰口铸铁	Gray iron	0.1~0.2~0.3		● 120~180~250
球墨铸铁	Ductile iron	0.1~0.18~0.25		● 100~150~200
镍基耐热合金	Nickel based heat-resistant alloy	0.1~0.12~0.2	○ 20~30~50	

MFPN66 双面10角面铣刀盘

Double sided 10 corner milling cutter disc

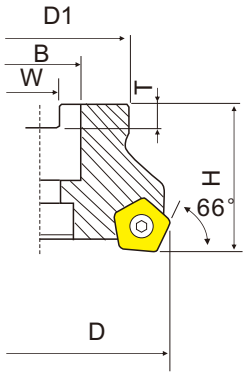


Fig.1

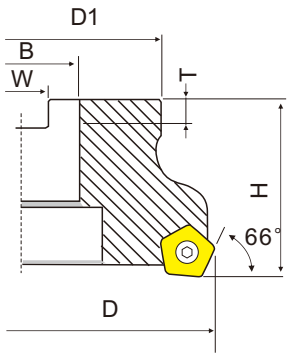


Fig.2

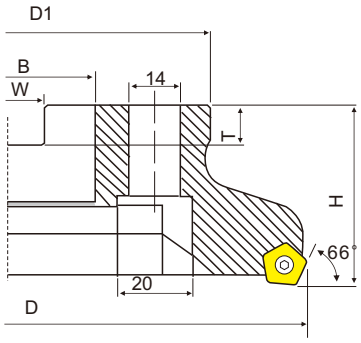


Fig.3

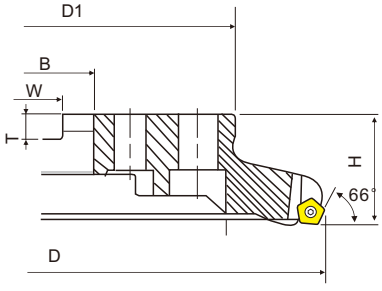


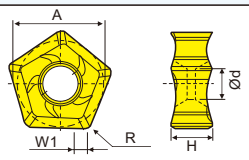
Fig.4

型号 Cat. No	尺寸 Size							刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	D1	d	H	W	T	Fig						
MFPN66R50-22-4T	50	47	22	40	10.4	6.3	Fig.1	PNMU 0905..GM	M4.0×9	T15	•		
50-22-5T	50	47	22	40	10.4	6.3					•		
63-22-5T	63	47	22	40	10.4	6.3					•		
63-22-7T	63	47	22	40	10.4	6.3					•		
80-27-6T	80	70	27	50	12.4	7					•		
80-27-9T	80	70	27	50	12.4	7					•		
100-32-7T	100	80	32	50	14.4	8	Fig.2				•		
100-32-11T	100	80	32	50	14.4	8					•		
125-40-9T	125	90	40	63	16.4	9					•		
125-40-13T	125	90	40	63	16.4	9					•		
160-40-11T	160	90	40	63	16.4	9	Fig.3				•		
160-40-15T	160	90	40	63	16.4	9					•		
200-60-13T	200	140	60	63	25.7	14					•		
200-60-17T	200	140	60	63	25.7	14					•		
250-60-15T	250	140	60	63	25.7	14					•		
250-60-19T	250	140	60	63	25.7	14					•		
315-60-17T	315	220	60	63	25.7	14	Fig.4				•		

PNMU 平面高进给单面有孔铣削刀片

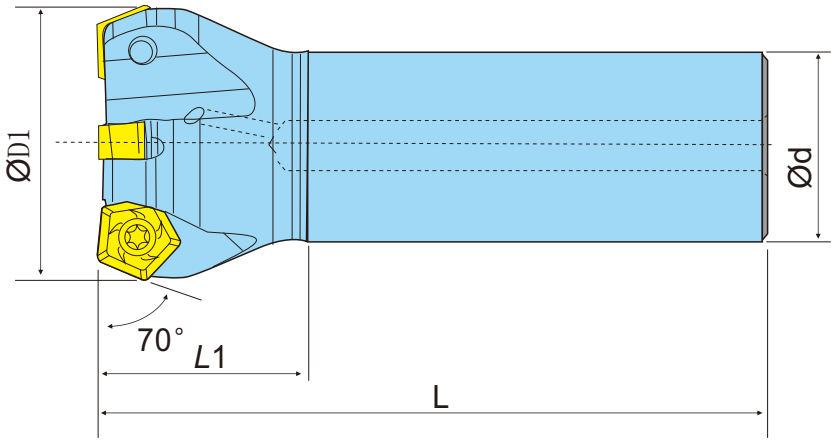
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) A	H	Ød	W1	R	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	CS325	ZP251	ZP150	ZP152	ZP153	ZP163
高进给铣削加工 High feed milling			PNMU 0905GNEN-JL	12.2	5.9	4.7	1.4	0.8	刀柄: (Toolholder) D101-D102							●	●	●	●	●

TEN09R 双面10角面铣刀

Double sided 10 corner milling cutter

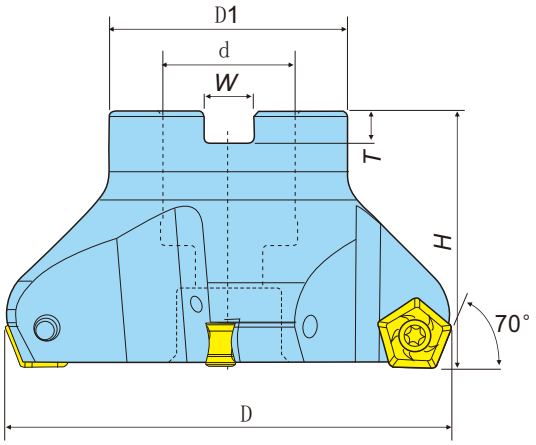


零配件 (Spare Parts):P01-P04

型号 Cat. No	尺寸 Size D	d	L	L1	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number
TEN09R C32-32-115-3T	38	32	115	35	3		PNMU..JL	M4.0×10	T15	●	
C32-40-115-4T	46	32	115	35	4					●	
C32-50-120-4T	56	32	120	40	4					●	
C32-63-120-6T	69	32	120	40	6					●	
C32-80-120-7T	86	32	120	40	7					●	

TEN90R 双面10角面铣刀盘

Double sided 10 corner milling cutter disc



零配件 (Spare Parts):P01-P04

型号 Cat. No	尺寸 Size							刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number	Price (RMB)
	D	D1	d	H	W	T	Fig						
TEN90R 50-22-3T	50	47	22	40	10.4	6.3		PNMU 0905..JL	M4.0×10	T15	●		
50-22-4T	50	47	22	40	10.4	6.3					●		
50-22-6T	50	47	22	40	10.4	6.3					●		
63-22-4T	63	47	22	40	10.4	6.3					●		
63-22-6T	63	47	22	40	10.4	6.3					●		
63-22-8T	63	47	22	40	10.4	6.3					●		
80-27-4T	80	70	27	50	12.4	7					●		
80-27-8T	80	70	27	50	12.4	7					●		
80-27-10T	80	70	27	50	12.4	7					●		
100-32-5T	100	80	32	50	14.4	8					●		
100-32-8T	100	80	32	50	14.4	8					●		
100-32-12T	100	80	32	50	14.4	8					●		
125-40-6T	125	90	40	63	16.4	9					●		
125-40-10T	125	90	40	63	16.4	9					●		
125-40-16T	125	90	40	63	16.4	9					●		
160-40-7T	160	90	40	63	16.4	9					●		
160-40-12T	160	90	40	63	16.4	9					●		
160-40-20T	160	90	40	63	16.4	9					●		
200-60-12T	200	140	60	63	25.7	14					●		
250-60-16T	250	140	60	63	25.7	14					●		

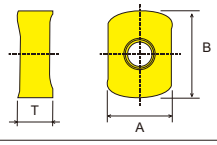
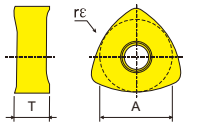
BLMP 平面高进给 双面有孔 铣削刀片

刀片(Insert):

BLMP0603TN ZP153
Ap:0.3-0.8 (mm)
Fz:0.9-1.0 (mm/rev)
Vc:120-160 (m/min)

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

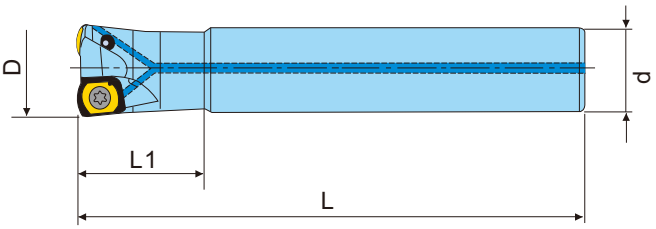
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
高进给铣削加工 High feed milling			BLMP 0603R-M 0904R-M	-	6.39 9.18	9 11.9	3.73 4.80	刀柄：(Toolholder) D103-D104				●	●		●	●	●	●	●
高进给铣削加工 High feed milling			BLMP 1205R-M	15	12	-	5.5	刀柄：(Toolholder) D103-D104				●	●		●	●	●	●	●

TEBL 机夹式快进给立铣刀-双面四角刀片

Clip-Type Fast Feed End Milling Cutter
-Double-Sided Four Corners Insert





● 特点：高进给，高效率
★ Characteristic: High Feed, High Efficiency

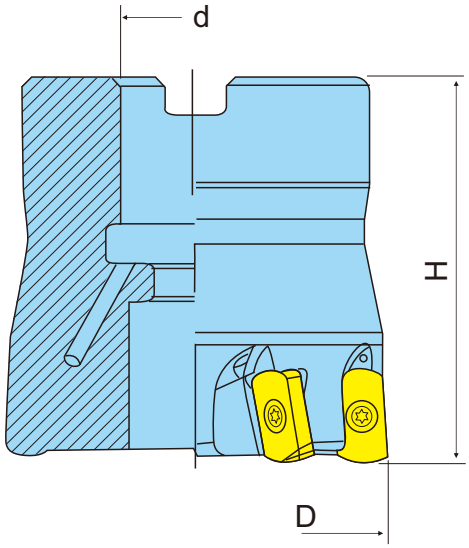
零配件 (Spare Parts):P01-P04

型号 Cat. No	尺寸 Size D	d	L	L1	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number
TEBL06R C20-16-150-2T	16	20	150	40	2		BLMP0603..	M2.5×6	T8	●	337100
C16-16-150-2T	16	16	150	40	2					●	337102
C16-17-150-2T	17	16	150	30	2					●	337104
C20-20-150-3T	20	20	150	50	3					●	337106
C20-21-150-3T	21	20	150	35	3					●	337108
TEBL09R C25-25-180-4T	25	25	180	30	4		BLMP0904..	M3.5×9	T15	●	337110
C25-26-180-4T	26	25	180	40	4					●	337112
C32-32-200-5T	32	32	200	120	5					●	337114
C32-33-200-5T	33	33	200	50	5					●	337116
C32-35-200-5T	35	32	200	50	5					●	
C32-35-300-5T	35	32	300	50	5					●	
C32-40-220-5T	40	32	220	40	5					●	
C32-40-150-6T	40	32	150	40	6					●	
C32-40-220-6T	40	32	220	40	6					●	
C25-25-160-3T	25	25	160	40	3					●	
C25-25-210-3T	25	25	210	50	3					●	
C25-26-160-3T	26	25	160	40	3					●	
C25-26-210-3T	26	25	210	50	3					●	
C25-30-150-3T	30	25	150	40	3					●	
C32-32-160-4T	32	32	160	80	4					●	
C32-32-210-4T	32	32	210	120	4					●	
C32-35-160-4T	35	32	160	40	4					●	
C32-35-210-4T	35	32	210	50	4					●	
C32-40-160-5T	40	32	160	40	5					●	
C32-40-210-5T	40	32	210	50	5					●	

TFBL 机夹式快进给立铣刀刀盘-双面四角刀片

Clip-Type Fast Feed End Milling Cutter Head
-Double-Sided Four Corners Insert





Ap:0.3-0.8 (mm)
Fz:0.9-1.0 (mm/rev)
Vc:120-160 (m/min)

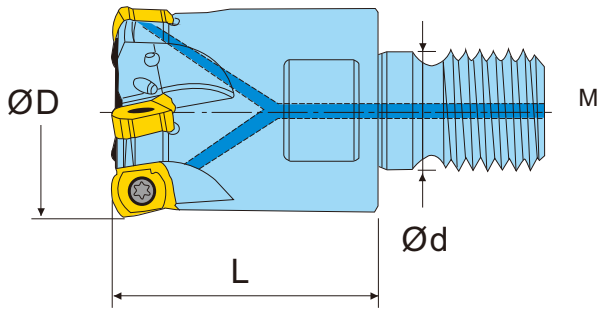
● 特点：高进给，高效率
★ Characteristic: High Feed, High Efficiency

零配件 (Spare Parts):P01-P04

型号 Cat. No	尺寸 Size D	d	H	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手Wrench	Stock	Order Number
TFBL06R 40-22-6T	40	22	40	6		BLMP0603..	M2.5×6	T8	●	337117
50-22-7T	50	22	45	7					●	337118
63-22-8T	63	22	45	8					●	337119
TFBL09R 50-22-6T	50	22	50	6		BLMP0904..	M3.5×9	T15	●	
63-22-7T	63	22	50	7					●	
80-27-8T	80	27	50	8					●	
100-32-10T	100	32	60	10					●	
125-40-12T	125	40	60	12					●	

TEBL 快进给锁牙式刀头-双面四角刀片

Fast feed locking bit - double sided four corner blade



● 特点：高进给，高效率
★ Characteristic: High Feed, High Efficiency

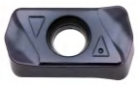
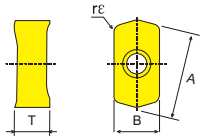
零配件 (Spare Parts):P01-P04

型号 Cat. No	尺寸 Size D	d	L	M	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手Wrench	Stock	Order Number
TEBL06R 16-2T-M08	16	13	25	M8	2		BLMP0603..	M2.5×6	T8	●	337120
20-3T-M10	20	18	30	M10	3					●	337121
25-4T-M12	25	21	35	M12	4					●	337122
32-5T-M16	32	29	40	M16	5					●	337123
35-5T-M16	35	29	43	M16	5					●	337125
42-6T-M16	42	29	43	M16	6					●	337127
TEBL09R 25-2T-M12	25	21	35	M12	2		BLMP0904..	M3.5×9	T15	●	
25-3T-M12	25	21	35	M12	3					●	
26-3T-M12	26	21	35	M12	3					●	
30-3T-M12	30	21	43	M12	3					●	
32-3T-M16	32	29	43	M16	3					●	
32-4T-M16	32	29	43	M16	4					●	
33-4T-M16	33	29	43	M16	4					●	
35-3T-M16	35	29	43	M16	3					●	
35-4T-M16	35	29	43	M16	4					●	
40-4T-M16	40	29	43	M16	4					●	
40-5T-M16	40	29	43	M16	5					●	
42-5T-M16	42	29	43	M16	5					●	

LNMU 平面高进给 双面有孔 铣削刀片

刀片(Insert):
LNMU0303ZER ZP153
Ap:0.06-6.0 (mm)
Fz:0.02-0.30 (mm/rev)
Vc:100-200 (m/min)

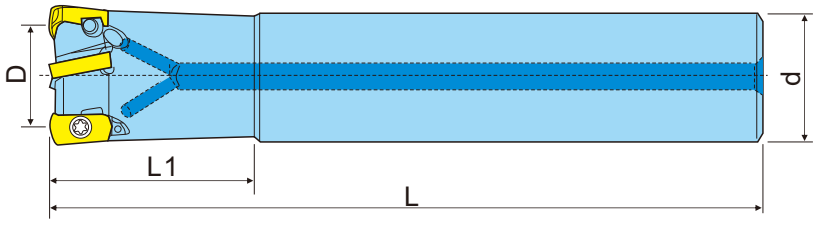
			切削形态: Cutting Environment	稳定切削 Stable Cutting	一般切削 General Cutting	不稳定切削 Unstable Cutting
P	钢	Steel		● ●	● ✕ ✕ ✕ ● ●	
M	不锈钢	Stainless Steel		●	● ● ● ● ● ● ○	
K	铸铁	Iron		● ●	● ✕ ✕ ✕	
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood		●	●	
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy		●	✕ ✕ ● ●	
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber		●	✕ ✕ ● ●	

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
高进给铣削加工 High feed milling			LNMU 0303ZER-MJ 0303ZER-ML	1.2 1.2	11.59 11.59	6.0 6.0	4.29 4.29	刀柄 : (Toolholder) D105-D106							●	●	●	●	●

EXN03R 机夹式快进给立铣刀-双面四角刀片

Clip-Type Fast Feed End Milling Cutter
-Double-Sided Four Corners Insert





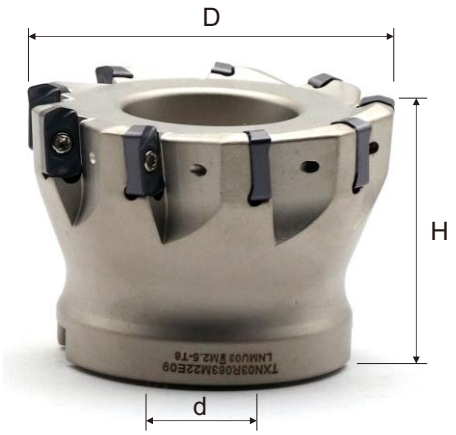
● 特点：高进给，高效率
★ Characteristic: High Feed, High Efficiency

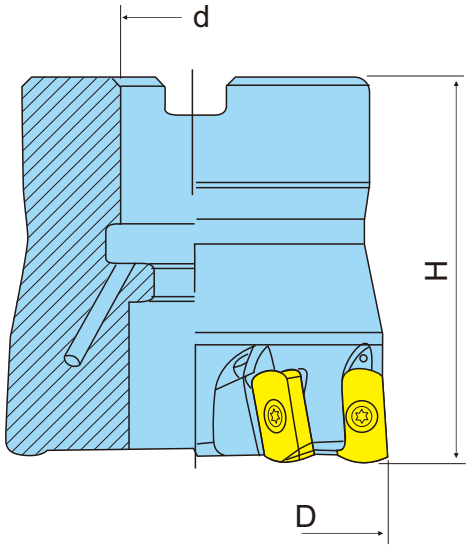
零配件 (Spare Parts):P01-P04
切削参数 (Cutting Parameters): D109-D110

型号 Cat. No	尺寸 Size D	d	L	L1	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number
EXN03R C16-16-100-2T	16	16	100	30	2		LNMU0303..	M2.5×6	T8	●	337130
C16-16-160-2T	16	16	160	35	2					●	337132
C17-16-100-2T	17	16	100	30	2					●	337134
C17-16-160-2T	17	16	160	30	2					●	337136
C18-16-100-2T	18	16	100	30	2					●	337138
C18-16-160-2T	18	16	160	30	2					●	337140
C20-20-130-3T	20	20	130	50	3					●	337142
C20-20-160-3T	20	20	160	60	3					●	337144
C21-20-130-3T	21	20	130	50	3					●	337146
C21-20-160-3T	21	20	160	50	3					●	337148
C22-20-130-3T	22	20	130	50	3					●	337150
C22-20-200-3T	22	20	200	50	3					●	337152
C25-25-140-4T	25	25	140	60	4					●	337154
C25-25-200-4T	25	25	200	80	4					●	337156
C26-25-140-4T	26	25	140	60	4					●	337158
C26-25-200-4T	26	25	200	60	4					●	337160
C28-25-140-4T	28	25	140	40	4					●	337162
C28-25-200-4T	28	25	200	40	4					●	337164
C30-32-160-5T	30	32	160	70	5					●	337166
C30-32-200-5T	30	32	200	80	5					●	337168
C32-32-150-5T	32	32	150	70	5					●	337170
C32-32-200-5T	32	32	200	80	5					●	337172
C35-32-150-5T	35	32	150	40	5					●	337174
C35-32-200-5T	35	32	200	40	5					●	337176

EXN03R 机夹式快进给立铣刀刀盘-双面四角刀片

Clip-Type Fast Feed End Milling Cutter Head
-Double-Sided Four Corners Insert





● 特点：高进给，高效率

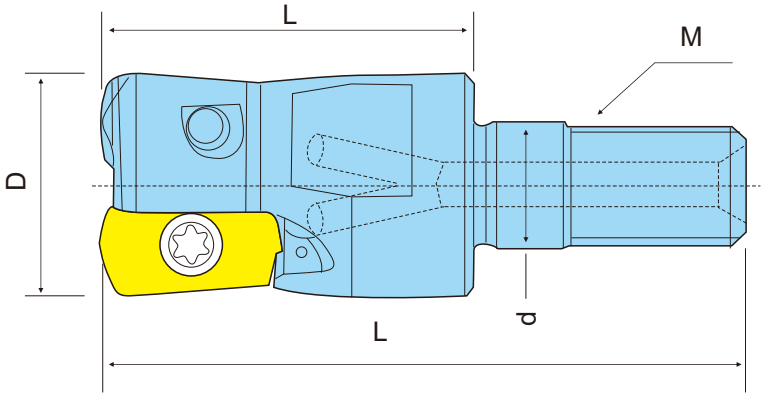
★ Characteristic: High Feed, High Efficiency

零配件 (Spare Parts):P01-P04
切削参数 (Cutting Parameters): D109-D110

型号 Cat. No	尺寸 Size D	d	H		刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number
EXN03R 40-16-6T	40	16	40		6		LNMU0303..	M2.5×6	T8	●	337180
50-22-8T	50	22	45		8					●	337182
63-22-9T	63	22	45		9					●	337184

EXN03R 快进给锁牙式刀头-双面四角刀片

Fast feed locking bit - double sided four corner blade



● 特点：高进给，高效率

★ Characteristic: High Feed, High Efficiency

零配件 (Spare Parts):P01-P04
切削参数 (Cutting Parameters): D109-D110

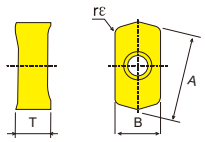
型号 Cat. No	尺寸 Size D	d	L	M	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number
EXN03R 17-2T-M08	17	13	25	M8	2		LNMU0303..	M2.5×6	T8	●	337190
20-2T-M10	20	18	30	M10	2					●	337191
21-2T-M10	21	18	30	M10	2					●	337192
25-2T-M12	25	21	35	M12	2					●	337193
26-2T-M12	26	21	35	M12	2					●	337195
32-3T-M16	32	29	40	M16	3					●	337197
35-3T-M16	35	29	40	M16	3					●	337198

LOGU 平面高进给 双面有孔 铣削刀片

刀片(Insert):

LNMU0303ZER ZP153
Ap:0.06-6.0 (mm)
Fz:0.02-0.30 (mm/rev)
Vc:100-200 (m/min)

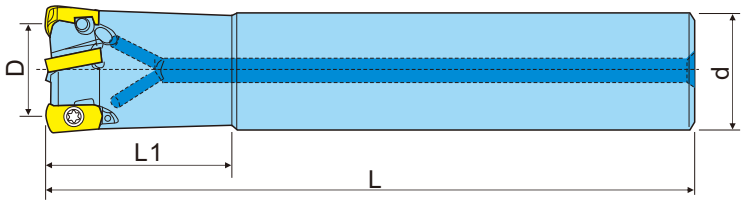
			切削形态: Cutting Environment	稳定切削 Stable Cutting	一般切削 General Cutting	不稳定切削 Unstable Cutting
P	钢	Steel				
M	不锈钢	Stainless Steel				
K	铸铁	Iron				
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood				
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy				
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber				

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
高进给铣削加工 High feed milling			LNMU 030310ER-GM	1.0	11.9	6.2	3.96	刀柄: (Toolholder) D107-D108							●	●	●	●	●

MFH03R 机夹式快进给立铣刀-双面四角刀片

Clip-Type Fast Feed End Milling Cutter
-Double-Sided Four Corners Insert





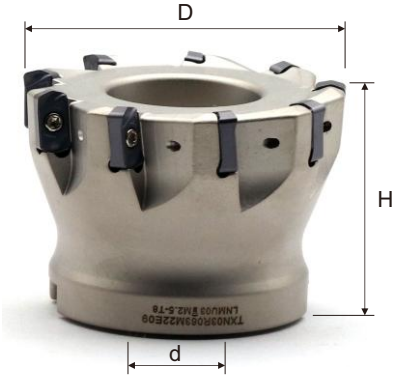
● 特点：高进给，高效率
★ Characteristic: High Feed, High Efficiency

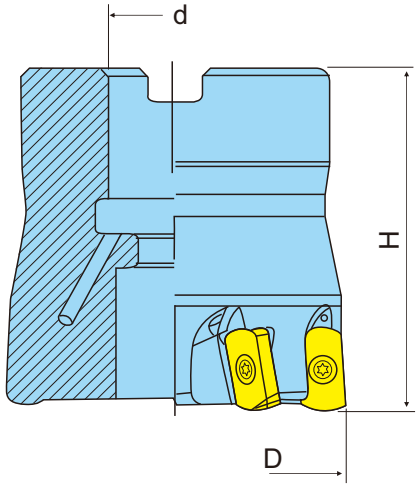
零配件 (Spare Parts):P01-P04
切削参数 (Cutting Parameters): D109-D110

型号 Cat. No	尺寸 Size D	d	L	L1	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手 Wrench	Stock	Order Number
MFH03R C16-16-120-2T	16	16	120	30	2					●	
C16-16-160-2T	16	16	160	50	2					●	
C16-16-200-2T	16	16	200	80	2					●	
C16-17-120-2T	17	16	120	30	2					●	
C16-17-160-2T	17	16	160	30	2					●	
C16-17-200-2T	17	16	200	30	2					●	
C20-20-160-3T	20	20	160	50	3					●	
C20-20-200-3T	20	20	200	80	3					●	
C20-21-160-3T	21	20	160	30	3					●	
C20-21-200-3T	21	20	200	30	3					●	
C25-25-160-3T	25	25	160	60	3					●	
C25-25-200-3T	25	25	200	100	3		LOGU0303..	M3.0×6.5	T8	●	
C25-26-160-3T	26	25	160	40	3					●	
C25-26-200-3T	26	25	200	40	3					●	
C32-32-160-5T	32	32	160	70	5					●	
C32-32-200-5T	32	32	200	120	5					●	
C32-33-160-5T	33	32	160	40	5					●	
C32-33-200-5T	33	32	200	40	5					●	
C32-33-250-5T	33	32	250	50	5					●	
C32-35-160-5T	35	32	160	40	5					●	
C32-35-200-5T	35	32	200	40	5					●	
C32-35-250-5T	35	32	250	50	5					●	
C32-40-160-6T	40	32	160	40	6					●	
C32-40-200-6T	40	32	200	40	6					●	

MFH03R 机夹式快进给立铣刀刀盘-双面四角刀片

Clip-Type Fast Feed End Milling Cutter Head
-Double-Sided Four Corners Insert





● 特点：高进给，高效率

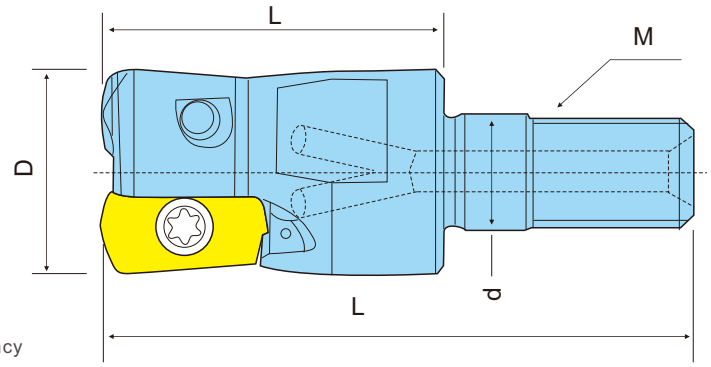
★ Characteristic: High Feed, High Efficiency

零配件 (Spare Parts):P01-P04
切削参数 (Cutting Parameters): D109-D110

型号 Cat. No	尺寸 Size D	d	H		刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手Wrench	Stock	Order Number
MFH03R 40-16-6T	40	16	40		6		LOGU0303..	M3.0×6.5	T8	●	
50-22-8T	50	22	45		8					●	
63-22-9T	63	22	45		9					●	

MFH03R 快进给锁牙式刀头-双面四角刀片

Fast feed locking bit - double sided four corner blade



● 特点：高进给，高效率

★ Characteristic: High Feed, High Efficiency

零配件 (Spare Parts):P01-P04
切削参数 (Cutting Parameters): D109-D110

型号 Cat. No	尺寸 Size D	d	L	M	刃数 No. of flutes	Fig	刀片 Insert	螺钉 Screw	扳手Wrench	Stock	Order Number
MFH03R 16-2T-M08	16	13	25	M8	2		LOGU0303..	M3.0×6.5	T8	●	
17-2T-M08	17	13	25	M8	2					●	
20-2T-M10	20	18	30	M10	2					●	
21-2T-M10	21	18	30	M10	2					●	
25-2T-M12	25	21	35	M12	2					●	
26-2T-M12	26	21	35	M12	2					●	
32-3T-M16	32	29	40	M16	3					●	
35-3T-M16	35	29	40	M16	3					●	

■ 斜降加工参考表 Reference table for inclined descent machining

型号 Model	刀盘径DCX(mm) Knife disc diameter	16	17	18	20	22	25	28	32	40	50
MFH03. .	最大倾斜角度 RMPX Maximum tilt angle	2.8°	2.5°	21°	17°	1.4°	12°	1°	0.8°	0.5°	0.4°
	tan RMPX	0.049	0.042	0.037	0.03	0.024	0.021	0.017	0.014	0.009	0.007

■ 斜降加工注意点 Precautions for inclined descent machining

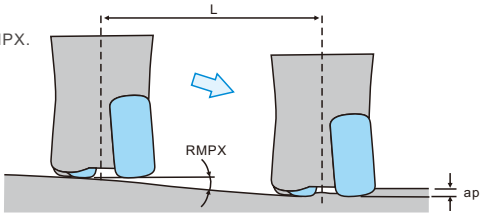
斜降加工的角度请设定在RMPX以下。
请将进给设定为标准的70%以下。

Please set the angle of oblique descent machining below RMPX.
Please set the feed to below 70% of the standard.

根据最大倾斜角度计算切削长度L的计算公式

$$L=\frac{ap}{\tan RMPX}$$

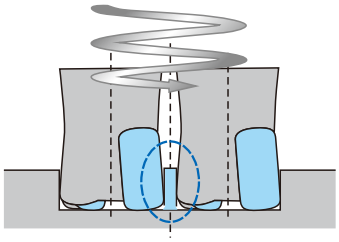
Calculated based on maximum tilt angle
Calculation formula for cutting length L



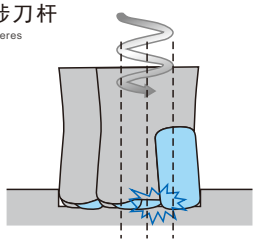
■ 螺旋加工注意点 Precautions for spiral machining

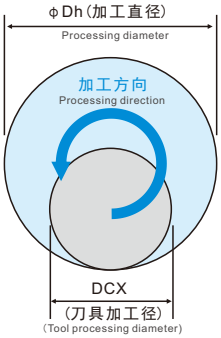
螺旋加工时请在最小~最大加工孔直径范围内进行加工。
When spiral machining, please process within the range of minimum to maximum machining hole diameter.

⊘超过最大加工径
Exceeding the maximum machining diameter
螺旋中心处有残留芯
Residual core at the center of the spiral



⊘不足最小加工径
Insufficient minimum machining diameter
中央的切削残余部干涉刀杆
The residual cutting part in the center interferes with the tool holder





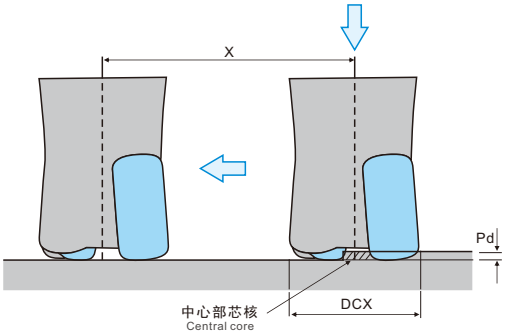
型号 Model	最小加工孔直径 Minimum machining hole diameter	最大加工孔直径 Maximum machining hole diameter
MFH03-...	2×DCX-8	2×DCX-2

单位：mm

・每转下沉深度请设定低于最大纵切深ap (1.0mm)。
・请逆时针(下切)方向旋转刀盘。(参考上图)
・工作台进给请设定在推荐参数的50%以下。
・有可能发生切屑延伸拉长，请注意在安全环境下加工。

·Please set the sinking depth below the maximum longitudinal cutting depth ap (1.0mm) per revolution.
·Please rotate the cutterhead counterclockwise (downward cutting). (Refer to the above figure)
·Please set the feed of the workbench below 50% of the recommended parameters.
·There is a possibility of chip extension and elongation, please pay attention to processing in a safe environment.

■ 深孔加工的注意点 Precautions for deep hole machining



型号 Model	GM型/GH型	
	最大加工深度Pd Maximum machining depth Pd	底面铣平时最小切削长度X Minimum cutting length X during bottom milling
MFH03...	1.0	DCX-9

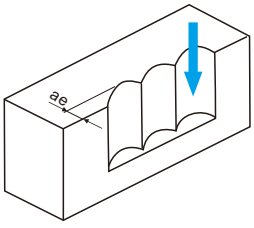
单位：mm

※沉孔加工后，继续进行横向进给加工时，可以利用内刃(主偏角80部分)直切削完切削残余 部分为止，所以工作台进给设定在推荐参数的25%以下。
※沉孔加工时，轴向进给速度设定为0. 2mm/rev以下。

※After the counterbore machining, when continuing the transverse feed machining, the inner edge (with a main deviation angle of 80) can be used to directly cut the remaining part until the cutting is completed. Therefore, the feed of the workbench is set below 25% of the recommended parameters.
※When processing countersunk holes, the axial feed speed is set to below 0.2mm/rev.

■ 关于垂直(插铣)加工 About Vertical (Insert Milling) Machining

垂直(插铣)加工 Vertical (milling) machining



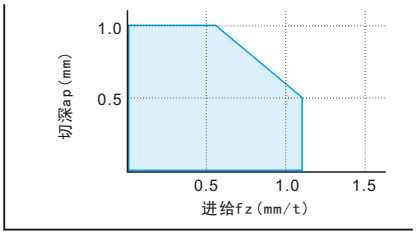
・可垂直(插铣)加工 ・Capable of vertical (insert milling) processing

刀片型号 Blade model	最大切宽(ae) Maximum cutting width
LOGU03型	3.5mm

・垂直(插铣)加工时的进给请设定在fz=0. 2(mm/t)以下。
・Please set the feed during vertical (insert milling) machining below fz=0.2 (mm/t).

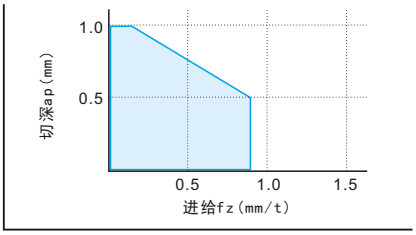
切削能力 Cutting ability

标准刃规格(刀盘径 φ16~φ22)
Standard blade specifications



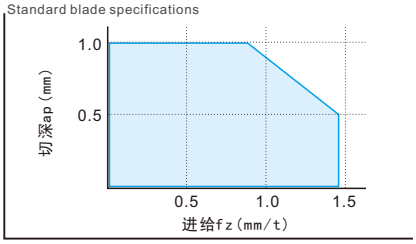
MFH..16-2T, MFH..17-2T, MFH..18-2T
MFH..20-3T, MFH..22-3T,

多刃规格
Multi blade specifications



MFH..20-4T, MFH..22-4T, MFH..25-5T
MFH..28-5T, MFH..32-6T

面铣刀(φ40~φ50) Face milling cutter
标准刃规格(刀盘径 φ25~φ32)
Standard blade specifications



MFH..25-4T, MFH.28-4T, MFH..32-5T
MFH..40-. . . , MFH..50-. . .

注：多刃规格与标准刃规格相比需要降低推荐参数 Note: Compared to standard blade specifications, the recommended parameters need to be reduced for multi blade specifications

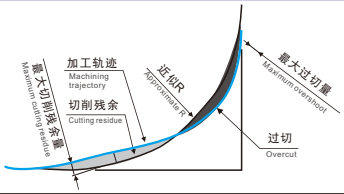
推荐切削参数 Recommended cutting parameters

刀片形状 Blade shape	加工材料 Processing materials	刀杆型号与进给(进给fz mm/t) ※ap=0.5mm的推荐进给(基准值) Tool holder model and feed (Feed fz mm/t) ※ Recommended feed with ap=0.5mm (reference value)								推荐刀片材质(切削速度Vc m/min) Recommended blade material (cutting speed Vc m/min)				
		MFH..16-2T	MFH..20-3T	MFH..20-4T	MFH..25-4T	MFH..25-5T	MFH..32-5T	MFH..32-5T	MFH..R-03	MEGACOAT NANO ZP15	MEGACOAT NANO ZP163	MEGACOAT NANO ZP15	MEGACOAT NANO ZP153	CVD涂层硬质合金 CVD coated hard alloy ZC32S
GM GH	碳钢 Carbon steel	0.2~0.7~1.2		0.2~0.5~0.8	0.2~0.8~1.5	0.2~0.5~0.8	0.2~0.8~1.5	0.2~0.5~0.8	0.2~0.8~1.5	○ 120~180~250	● 120~180~250			
	合金钢 Alloy steel									○ 100~160~220	● 100~160~220			
	模具钢(~40HRC) Die steel	0.2~0.5~0.9		0.2~0.4~0.6	0.2~0.6~1.2	0.2~0.4~0.6	0.2~0.6~1.2	0.2~0.4~0.6	0.2~0.6~1.2	○ 80~140~180	○ 80~140~180		GH○ 80~140~180	
	模具钢(40~50HRC) Die steel	0.2~0.3~0.5		0.2~0.25~0.3	0.2~0.3~0.6	0.2~0.25~0.3	0.2~0.3~0.6	0.2~0.25~0.3	0.2~0.3~0.6		○ 60~100~130		GH○ 60~100~130	
	模具钢(50~55HRC) Die steel	0.1~0.3~0.5		0.1~0.2~0.3	0.1~0.3~0.5	0.1~0.2~0.3	0.1~0.3~0.5	0.1~0.2~0.3	0.1~0.3~0.5		○ 50~70~100		GH○ 50~70~100	
	模具钢(55~60HRC) Die steel	0.03~0.06~0.1 (※仅推荐GH断屑槽)											GH○ 50~60~70	
	奥氏体系不锈钢 Austenitic stainless steel	0.2~0.5~0.9		0.2~0.6~1.2	0.2~0.4~0.6	0.2~0.4~0.6	0.2~0.6~1.2	0.2~0.4~0.6	0.2~0.6~1.2	GM● 100~160~200	GM○ 100~160~200			
	马氏体系不锈钢 Martensitic stainless steel									○ 150~200~250				● 180~240~300
	沉淀硬化系不锈钢 Precipitation Hardening Stainless Steel									● 90~120~150				
	灰口铸铁 Gray iron	0.2~0.7~1.2		0.2~0.8~1.5	0.2~0.5~0.8	0.2~0.5~0.8	0.2~0.8~1.5	0.2~0.5~0.8	0.2~0.8~1.5			● 120~180~250		
	球墨铸铁 Ductile iron	0.2~0.5~0.9		0.2~0.4~1.2	0.2~0.4~0.6	0.2~0.4~0.6	0.2~0.6~1.2	0.2~0.4~0.6	0.2~0.6~1.2			● 100~150~200		
	镍基耐热合金 Nickel based heat-resistant alloy	0.2~0.3~0.6		0.2~0.25~0.4	0.2~0.25~0.4	0.2~0.25~0.4	0.2~0.4~0.8	0.2~0.25~0.4	0.2~0.4~0.8	○ 20~30~50				● 20~30~50
	钛合金 Titanium alloy									● 40~60~80		GM● 30~50~70		

※镍基耐热合金、钛合金推荐湿式加工。
切削参数中的粗体字为推荐参数的中心值。根据实际工况、在范围内调整切削速度、进给。
在加工中心进行BT30相当的加工时、进给推荐设为推荐参数的25%以下。
切槽加工时推荐内冷以及中心冷却。
面铣刀不推荐用于切槽加工或型腔加工。

※Nickel based heat-resistant alloys and titanium alloys are recommended for wet processing.
The bold characters in the cutting parameters are the center values of the recommended parameters.
Adjust the cutting speed and feed within the range according to the actual working conditions.
When performing BT30 equivalent machining in the machining center, the recommended feed is set to less than 25% of the recommended parameters.
Internal cooling and central cooling are recommended during groove cutting processing.Face milling cutters are not recommended for groove cutting or cavity machining.

加工程序上的注意点(近似R的设定) Points to note on the machining program (setting of approximate R)

形状 Form	近似R(mm) Approximate R	最大过切量(mm) Maximum overshoot	最大切削余量(mm) Maximum cutting allowance
	R1.0	0	0. 51
	R1.5	0	0. 41
	R1.6(推荐)	0	0. 39
	R20	0. 09	0. 31

主偏角度12° Principal deviation angle 12 °

SEMT 正四方形 有孔 铣削刀片

刀片(Insert):

SEMT13T3AGSN-JM ZP152

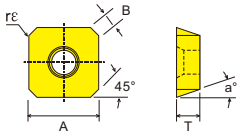
Ap:0.3-0.8 (mm)

Fz:0.1-0.3 (mm/rev)

Vc:100-300 (m/min)

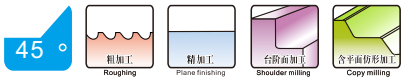
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

			PCD	CBN-K	CBN-S	ZN60	K01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
P	钢	Steel				●	◕	✖	✖	✖	✖	◕	●
M	不锈钢	Stainless Steel					◕	◕	◕	◕	◕	◕	○
K	铸铁	Iron				●	◕	◕	✖	✖	✖	✖	
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●				◕						
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●							✖	✖	◕	●
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●							✖	✖	◕	●

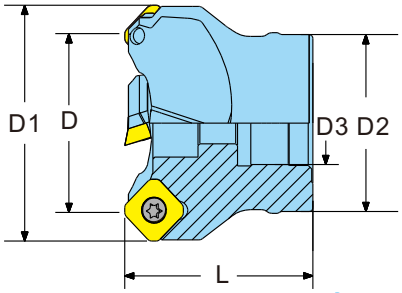
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	a°	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	K01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
平面铣削加工 Surface milling			SEET 13T3AGEN-JL SEMT 13T3AGSN-JH 13T3AGSN-JM	1.5	13.4	1.9	3.97	20°	刀柄 : (Toolholder) D112			●				●	●	●	●	●
												●				●	●	●	●	●
												●				●	●	●	●	●

■ ASX445 铣刀盘

ASX445 Cutter







- 大前角刀片，切削负荷小
- 装有硬质合金刀垫，刀粒切削刚性更好

★ Before the big angle blade, cutting load
★ A hard alloy cutter pad, cutting better rigidity

切削参数 (Cutting Parameters): D117
零配件 (Spare Parts): P01-P04

型 号 Cat. No	刃数 Blade number	大径 D1 Largest diameter	切削径 D Cutting size	端面直径 D2 End face diameter	内径 D3 Inside diameter	总长 L Long	刀 片 Insert	Stock	Order Number	Price (RMB)
ASX445R/L50-22-3T	3	63	50	47	22	50	SEMT13T3	●	331200	350
50-22-4T	4							●	331202	350
50-22-5T	5							●	331204	400
ASX445R/L63-22-4T	4	76	63	47	22	50		●	331206	350
63-22-5T	5							●	331208	350
63-22-6T	6							●	331210	400
ASX445R/L80-27-4T	4	93	80	58	27	50		●	331212	480
80-27-5T	5							●	331214	480
80-27-6T	6							●	331216	600
80-27-8T	8							●	331218	700
ASX445R/L100-32-5T	5	113	100	76	32	50		●	331220	750
100-32-6T	6							●	331222	750
100-32-7T	7							●	331224	800
100-32-10T	10							●	331226	900
ASX445R/L125-40-6T	6	138	125	87	40	63		●	331228	900
125-40-7T	7							●	331230	900
125-40-8T	8							●	331232	1000
125-40-12T	12							●	331234	1200
ASX445R/L160-40-7T	7	173	160	100	40	63		●	331236	1500
160-40-10T	10							●	331238	1500
160-40-16T	16							●	331240	2000
ASX445R/L200-40-8T	8	212.9	200	175	40	63		●	331242	2200
200-40-12T	12							●	331244	2600
ASX445R/L250-60-10T	10	262.9	250	220	60	63		●	331246	2800
250-60-14T	14							●	331248	3200

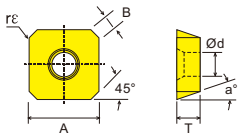
*刀垫Shim：SSS445N;刀垫螺丝Screw：MDS5035;扳手Wrench：PL35;压紧螺丝Screw：MS3512B;压紧扳手Wrench：T15

SEET 正四方形 有孔 铣削刀片

刀片(Insert):
SEET12T3-DM ZP152
Ap:0.3-0.8 (mm)
Fz:0.1-0.3 (mm/rev)
Vc:100-300 (m/min)

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

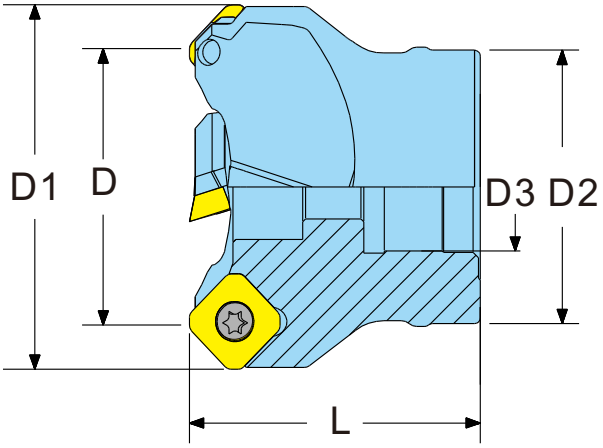
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	Ød	a°	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
平面铣削加工 Surface milling			SEET 12T3-DF 轻切削 12T3-CF 12T3-EF 中切削 12T3-DM 12T3-CM 12T3-EM 重切削 12T3-DR 12T3-CR 铜铝用 12T3-LH	-	13.4	2.55	3.97	4.1	20°	刀柄: (Toolholder) D113							●	●	●	●	●

■ R245 铣刀盘
R245 cutter







● 大前角刀片，切削负荷小
● 装有硬质合金刀垫，刀粒切削刚性更好

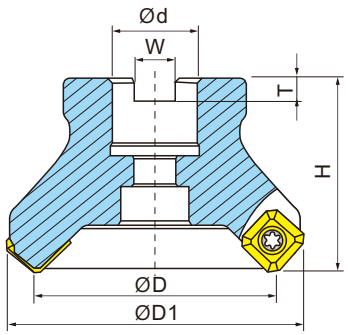
★ Before the big angle blade, cutting load
★ A hard alloy cutter pad, cutting better rigidity

切削参数 (Cutting Parameters): D117
零配件 (Spare Parts): P01-P04

型 号 Cat. No	刃数 Blade number	最大径 D1 Largest diameter	切削径 D Cutting size	端面直径 D2 End face diameter	内径 D3 Inside diameter	总长 L Long	刀片 Insert	Stock	Order Number	Price (RMB)
R245R63-22-5T	5	76	63	47	22	50	SEET-12T3	●	331300	350
R245R80-27-5T	5	93	80	58	27	50		●	331302	480
R245R100-32-6T	6	113	100	76	32	50		●	331304	750
R245R125-40-7T	7	138	125	87	40	63		●	331306	900
R245R160-40-10T	10	173	160	100	40	63		●	331308	1500
R245R200-40-12T	12	212.9	200	175	40	63		●	331310	2200
R245R250-40-14T	14	262.9	250	220	60	63		●	331312	2800

KM 机夹式45° 有孔 平面立铣刀盘





切削参数 (Cutting Parameters): D117
零配件 (Spare Parts): P01-P04

- 适配钢件、铸件、铝件多种材质刀片，适切范围广
- 容屑空间大，排屑好
- 可适用平面铣削的精加工
- 大前角，切削负何小

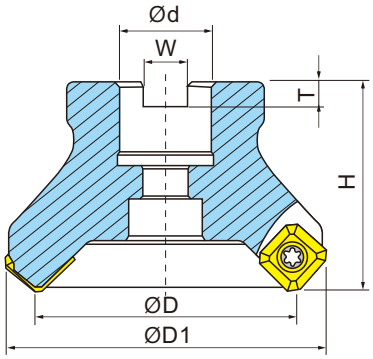
★ Fit steel, castings, aluminum pieces of various materials blade, the relevance of a wide range of
★ Capacity chip a large space, good chip disposal
★ Planar milling finishing applicable
★ Large rake angle, cutting a small load

规格型号 Specification	尺寸 Dimensions (mm)						刃数 Edges	刀片 Insert	螺钉 Screw	扳手 Wrench	库存 Stock	编码 Code	Price (RMB)
	D	D1	d	H	W	T							
KM12R50-22-4T	50	64	22	50	10.4	6.3	4	SE..1204..	M5.0×11	T20	●	331500	240
KM12R63-22-4T	63	77	22	50	10.4	6.3	4				●	331502	280
KM12R80-27-5T	80	94	27	50	12.4	7	5				●	331504	400
KM12R100-32-5T	100	114	32	50	14.4	8	5				●	331506	600
KM12R125-40-6T	125	139	40	63	16.4	9	6				●	331508	750
KM12R160-40-6T	160	174	40	63	16.4	9	6				●	331510	1150
KM12R200-60-8T	200	210	60	63	25.7	14	8				●	331512	1600
KM12R250-60-10T	250	260	60	63	25.7	14	10				●	331514	2100
KM12R300-60-12T	300	310	60	65	25.7	14	12				●	331516	-
KM12R50-25.4-4T	50	64	25.4	50	10	6	4				●	331518	-
KM12R63-25.4-4T	63	77	25.4	50	10	6	4				●	331520	280
KM12R80-25.4-5T	80	94	25.4	50	10	6	5				●	331522	400
KM12R100-31.75-5T	100	114	31.75	50	13	8	5				●	331524	600

AL-KM 机夹式45°平面立铣刀盘-铝制高光

45° Planar End Milling Cutter Head with Machine Clamp -Aluminum High Gloss





切削参数 (Cutting Parameters): D117
零配件 (Spare Parts): P01-P04

- 特点：铝材壳体，重量轻，45°高光效率高

★ Features: Aluminum Shell, Light Weight, 45° High Polishing Efficiency

规格型号 Specification	尺寸 Dimensions (mm)						刃数 Edges	刀片 Insert	螺钉 Screw	扳手 Wrench	库存 Stock	编码 Code	Price (RMB)
	D		d	H	W	T							
AL-KM12-50-22-4T	50		22	50	10.4	6.3	4	SE..1204..	M5.0×11	T20	●	331550	260
AL-KM12-63-22-4T	63		22	50	10.4	6.3	4				●	331552	320
AL-KM12-80-22-6T	80		22	50	12.4	7	6				●	331554	440
AL-KM12-80-27-5T	80		27	50	12.4	7	5				●	331556	440
AL-KM12-80-27-6T	80		27	50	12.4	7	6				●	331558	440
AL-KM12-100-22-6T	100		22	50	14.4	7	6				●	331560	750
AL-KM12-100-27-6T	100		27	50	14.4	8	6				●	331562	750
AL-KM12-100-32-5T	100		32	50	14.4	8	5				●	331564	750
AL-KM12-100-32-6T	100		32	50	14.4	8	6				●	331566	750
AL-KM12-125-22-6T	125		22	63	16.4	8	6				●	331568	1165
AL-KM12-125-27-6T	125		27	63	16.4	9	6				●	331570	1165
AL-KM12-125-32-6T	125		32	63	16.4	9	6				●	331572	1165
AL-KM12-125-40-6T	125		40	63	16.4	9	6				●	331574	1165
AL-KM12-160-27-8T	160		27	63	16.4	9	8				●	331576	1300
AL-KM12-160-32-8T	160		32	63	16.4	9	8				●	331578	1300
AL-KM12-160-40-6T	160		40	63	16.4	9	6				●	331580	1300
AL-KM12-160-40-8T	160		40	63	16.4	9	8				●	331582	1300
AL-KM12-200-40-10T	200		40	63	16.4	9	10				●	331584	2800
AL-KM12-200-60-8T	200		60	63	16.4	9	8				●	331586	2800
AL-KM12-250-60-10T	250		60	63	16.4	9	10				●	331588	3500
AL-KM12-300-60-12T	300		60	63	16.4	9	12				●	331590	4300

SEKT 正四方形 有孔 铣削刀片

刀片(Insert):

SEMT13T3AGSN-JM ZP152

Ap:0.3-0.8 (mm)

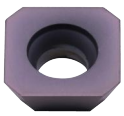
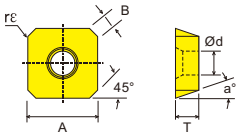
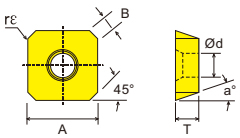
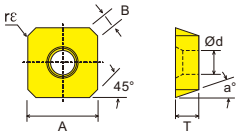
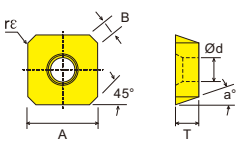
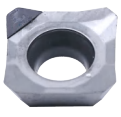
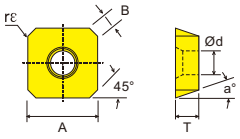
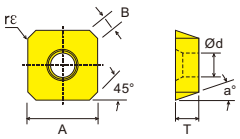
Fz:0.1-0.3 (mm/rev)

Vc:100-300 (m/min)

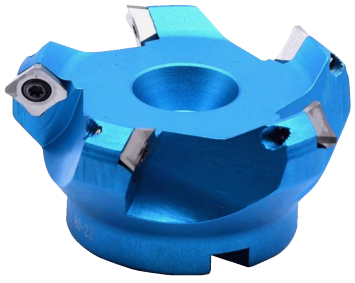
切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

刀杆刀盘
直角台肩立铣刀
圆角铣刀
球头铣刀
钻铣刀杆
倒角刀杆
玉米铣刀
三面刃槽刀
快进给系列
龙门平面铣刀
锁牙式刀柄

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	Ød	a°	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN61	ZK01	ZC232S	ZP201	ZP151	ZP152	ZP153	ZP163
平面铣削加工 Surface milling			SECA 1204AFSN 1204AFTN	- -	12.7 12.7	2.66 2.66	4.76 4.76	5.56 5.56	20° 20°	刀柄: (Toolholder) D114								●	●	●	●
平面铣削加工 Surface milling			SEKT 1204AFTN	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114								●	●	●	●
平面铣削加工 Surface milling			SEHT 1204AFSN	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114								●	●	●	●
平面铣削加工 Surface milling			SEHT 1204-AK	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114				●							
平面铣削加工 Surface milling			SEHT 1204	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114	●										
平面铣削加工 Surface milling			SEHT 1204	-	12.7	2.66	4.76	5.56	20°	刀柄: (Toolholder) D114				●							

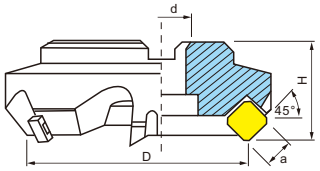






SD45° 正角刀片 有孔 铣刀盘



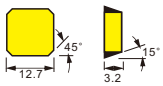
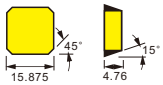


- 使用15° 正角刀片
- 采用高钢性硬质合金刀垫

★ Using the blade angle is 15 °
★ High-rigidity alloy pad.

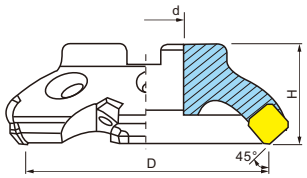
45 °

☞ 切削参数 (Cutting Parameters):D117
零配件 (Spare Parts):P01-P04

型号 Cat. No	尺寸 Size 外径D	孔径d	高度H	刀片数T	刀片规格 Insert		Stock	Order Number	Price (RMB)
SD445R/L03-25.4	80	25.4	55	5		SDKN1203	●	331700	960
SD445R/L04-31.75	100	31.75	55	5			●	331702	1100
SD445R/L05-38.1	125	38.1	60	6			●	331704	1500
SD445R/L06-50.8	160	50.8	60	8			●	331706	2200
SD445R/L08-47.625	200	47.625	65	10			●	331708	2800
SD445R/L10-47.625	250	47.625	65	12			●	331710	4800
SD445R/L12-47.625	300	47.625	65	14			●	331712	7000
SD545R/L03-25.4	80	25.4	55	5		SDKN1504	●	331714	960
SD545R/L04-31.75	100	31.75	55	5			●	331716	1100
SD545R/L05-38.1	125	38.1	60	6			●	331718	1500
SD545R/L06-50.8	160	50.8	60	8			●	331720	2200
SD545R/L08-47.625	200	47.625	65	10			●	331722	2800
SD545R/L10-47.625	250	47.625	65	12			●	331724	4800
SD545R/L12-47.625	300	47.625	65	14			●	331726	7000

■ SE45° 面铣刀盘
Face Milling Cutter



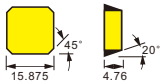
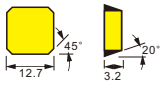


- 使用20° 正角刀片
- 大前角刃形
- 采用高刚性硬质合金刀垫

★ Using the blade angle is 20 °
★ Large front-edge-shaped
★ High-rigidity alloy pad.

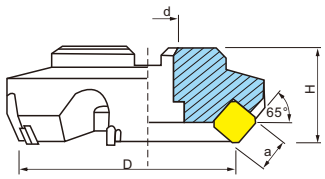
45 °

☞ 切削参数 (Cutting Parameters):D117
零配件 (Spare Parts):P01-P04

型号 Cat. No	尺寸 Size 外径D	孔径d	高度H	刀片数T	刀片规格 Insert		Stock	Order Number	Price (RMB)
SE545R/L03-25.4	80	25.4	50	5		SEKN1504	●	331800	960
SE545R/L04-31.75	100	31.75	50	6			●	331802	1100
SE545R/L05-38.1	125	38.1	50	7			●	331804	1500
SE545R/L06-50.8	160	50.8	55	8			●	331806	2200
SE545R/L08-47.625	200	47.625	55	10			●	331808	2800
SE545R/L10-47.625	250	47.625	55	12			●	331810	4800
SE545R/L12-47.625	300	47.625	55	14			●	331812	7000
SE445R/L63-22	63	22	50	4		SEKN1203	●	331814	850
SE445R/L63-25.4	63	25.4	50	4			●	331816	850
SE445R/L03-25.4	80	25.4	50	5			●	331818	960
SE445R/L04-31.75	100	31.75	50	6			●	331820	1100
SE445R/L05-38.1	125	38.1	50	7			●	331822	1500
SE445R/L06-50.8	160	50.8	55	8			●	331824	2200
SE445R/L08-47.625	200	47.625	55	10			●	331826	2800
SE445R/L10-47.625	250	47.625	55	12			●	331828	4800
SE445R/L12-47.625	300	47.625	55	14			●	331830	7000

■ SP65° 面铣刀盘
Face Milling Cutter



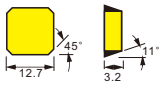
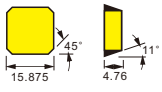


- 使用11° 正角刀片
- 采用高钢性硬质合金刀垫

★ Using the blade angle is 11 °
★ High-rigidity alloy pad.

25 °

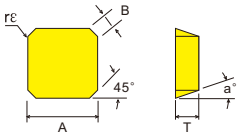
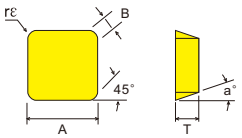
☞ 切削参数 (Cutting Parameters):D117
零配件 (Spare Parts):P01-P04

型号 Cat. No	尺寸 Size 外径D	孔径d	高度H	刀片数T	刀片规格 Insert		Stock	Order Number	Price (RMB)
SP435R/L03-25.4	80	25.4	55	5		SPKN1203	●	331900	960
SP435R/L04-31.75	100	31.75	55	5			●	331902	1100
SP435R/L05-38.1	125	38.1	60	6			●	331904	1500
SP435R/L06-50.8	160	50.8	60	8			●	331906	2200
SP435R/L08-47.625	200	47.625	65	10			●	331908	2800
SP435R/L10-47.625	250	47.625	65	12			●	331910	4800
SP435R/L12-47.625	300	47.625	65	14			●	331912	7000
SP535R/L03-25.4	80	25.4	55	5		SPKN1504	●	331914	960
SP535R/L04-31.75	100	31.75	55	5			●	331916	1100
SP535R/L05-38.1	125	38.1	60	6			●	331918	1500
SP535R/L06-50.8	160	50.8	60	8			●	331920	2200
SP535R/L08-47.625	200	47.625	65	10			●	331922	2800
SP535R/L10-47.625	250	47.625	65	12			●	331924	4800
SP535R/L12-47.625	300	47.625	65	14			●	331926	7000

SEKN 正四方形 无孔 铣削刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

Application 用途	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	a°	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
平面铣削加工 Surface milling			SDKN 1203AETN	-	12.7	1.7	3.18	15°	刀柄: (Toolholder) D116-D117				●	●		●	●	●	●	
			1504AETN	-	15.875	1.7	4.76	15°					●	●		●	●	●	●	
			SEEN 1203AFTN1	1.0	12.7	1.4	3.18	20°					●	●		●	●	●	●	
			1504AFTN1	1.0	15.875	1.4	4.76	20°					●	●		●	●	●	●	
			SEKN 1203AFTN1	-	12.7	1.4	3.18	20°					●	●		●	●	●	●	
			1504AFTN1	-	15.875	1.4	4.78	20°					●	●		●	●	●	●	
			SPKN 1203EDR	-	12.7	1.4	3.18	11°					●	●		●	●	●	●	
平面铣削加工 Surface milling			SEKR 1203AFEN-JS	1.0	12.7	1.4	3.18	20°	刀柄: (Toolholder) D116-D117					●	●		●	●	●	
			1504AFEN-JS	1.0	15.875	1.4	4.76	20°						●	●		●	●	●	

推荐切削条件 Recommend Cutting Conditions

工件材料 Cat. No.		硬度 Hardness	刀片材料 Balde No.	切削速度 (m/min)	每刃进给量 (mm/tooth)
P	软钢 (SS400, S10C等)	≤HB180	**ZP201**	200 (160-250)	0.2(0.1-0.3)
			ZP150	180 (100-250)	
			ZN60	140 (80-200)	
	碳钢, 合金钢 (S45C, SCM440等)	HB180-280	**ZP150**	200 (160-250)	0.2(0.1-0.3)
			ZP152	180 (100-250)	
			ZP153	140 (80-200)	
		HB280-350	**ZP153**	120 (80-160)	0.15(0.1-0.2)
M	不锈钢 (SUS304等)	≤HB270	**ZP152**	150 (100-200)	0.2(0.1-0.3)
K	铸铁, 球墨铸铁 (FCD250,FCD400等)	抗拉强度 ≦450MPa	**ZP201**	175 (100-250)	0.2(0.1-0.3)
			ZP152	160 (100-220)	
N	铝合金		**ZK01**	650 (300-1000)	0.12(0.05-0.2)

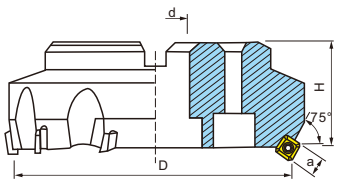
- 刀具转速(min⁻¹)=(1000x切削速度)÷(3.14x刀具切削刃直径)
- 机床工作台进给量(mm/min)=每刃进给量x刀具刃数x刀具转速

■ FP75° 面铣刀盘 Face Milling Cutter

15°

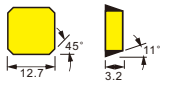
☞ 切削参数 (Cutting Parameters):D117
零配件 (Spare Parts):P01-P04





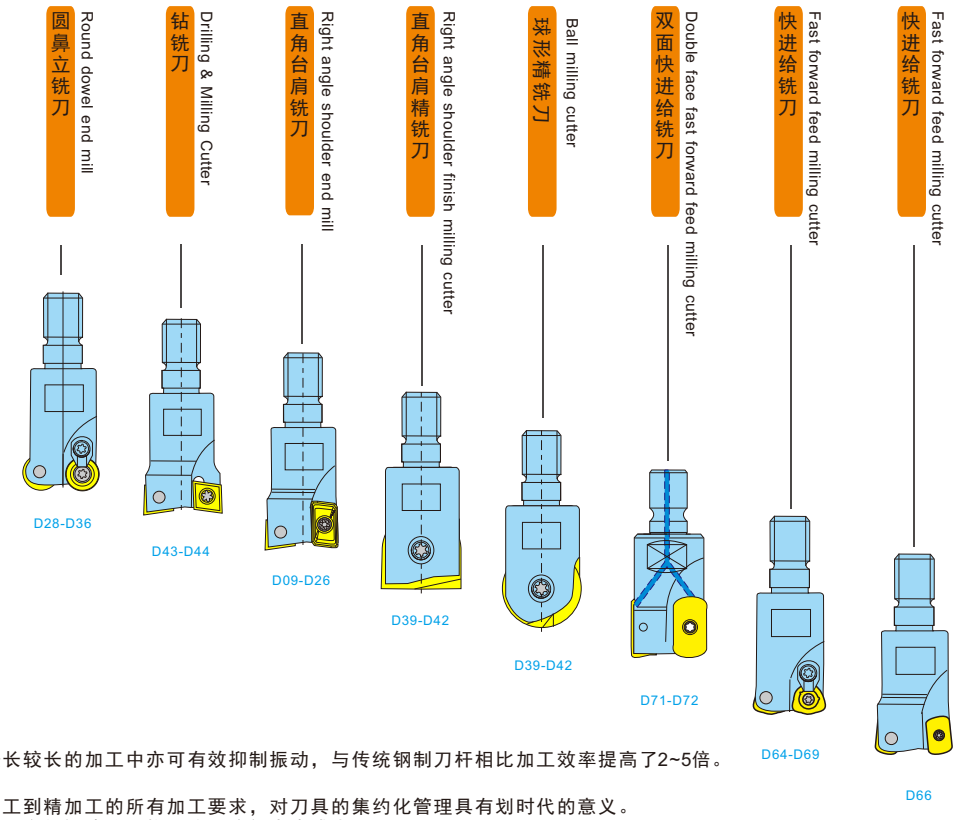
- 使用11° 正角刀片
- 采用高钢性硬质合金刀垫

★ Using the blade angle is 11°
★ High-rigidity alloy pad.

型号 Cat. No	尺寸 Size 外径D	孔径d	高度H	刀片数T	刀片规格 Insert		Stock	Order Number	Price (RMB)
FPR/L03-25.4	80	25.4	55	5		SPKN1203	●	332100	960
FPR/L04-31.75	100	31.75	55	6			●	332102	1100
FPR/L05-38.1	125	38.1	60	8			●	332104	1500
FPR/L06-50.8	160	50.8	60	10			●	332106	2200
FPR/L08-47.625	200	47.625	65	12			●	332108	2800
FPR/L10-47.625	250	47.625	65	16			●	332110	4800
FPR/L12-47.625	300	47.625	65	20			●	332112	7000

MFT 锁牙式 有孔 铣刀





优点 Advantage

高性能可换刀头和刚性刀柄的组合，在悬长较长的加工中亦可有效抑制振动，与传统钢制刀杆相比加工效率提高了2~5倍。加工时间大大缩短，加工成本随之下降。

刀头的自由组合及其可换性，覆盖从粗加工到精加工的所有加工要求，对刀具的集约化管理具有划时代的意义。

由于刀柄和刀杆采用螺纹连接，可在机床上方便迅速的更换刀头，降低生产成本。

High-performance interchangeable cutter head and the handle a combination of rigidity, in the long hanging longer processing caneffectively suppress vibration, as compared with traditional steel arbor processing efficiency is improved by 2 ~ 5 times. Significantly reduce processing time, processing costs drop.

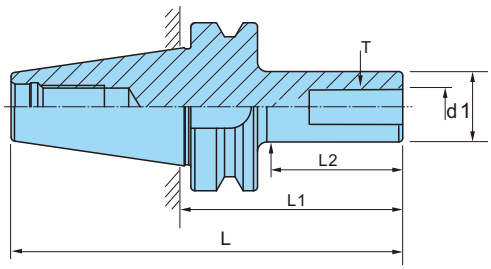
Segment of the free combination and can be changed, coverage from roughing to finishing all the processing requirements, intensive management tool epoch-making significance.

As the shank and arbor with threaded connections, you can easily and quickly on a replacement machine Cutter, reduce production costs.

■ BT-MFT 锁牙式刀柄

BT/MFT Screwed end mills holder





型 号 Cat. No	尺 寸 Size					重量 Weight (KG)	Stock	Order Number	Price (RMB)
	L	L1	L2	d1	T				
BT40-MFT16-M8-60	160.4	95	60	15	M8	1.1	●	336100	350
BT40-MFT16-M8-110	210.4	145	110	15	M8	1.2	●	336102	350
BT40-MFT20-M10-60	160.4	95	60	19	M10	1.1	●	336104	350
BT40-MFT20-M10-110	210.4	145	110	19	M10	1.2	●	336106	350
BT40-MFT25-M12-60	160.4	95	60	24	M12	1.1	●	336108	350
BT40-MFT25-M12-120	220.4	155	120	24	M12	1.3	●	336110	350
BT40-MFT30-M16-50	150.4	85	50	28	M16	1.2	●	336112	350
BT40-MFT30-M16-100	200.4	135	100	28	M16	1.3	●	336114	350
BT40-MFT30-M16-140	240.4	175	140	28	M16	1.6	●	336116	400
BT40-MFT35-M16-60	160.4	95	60	33	M16	1.3	●	336118	350
BT40-MFT35-M16-120	220.4	155	120	33	M16	1.7	●	336120	350
BT50-MFT16-M8-60	206.8	105	60	15	M8	3.1	●	336122	700
BT50-MFT16-M8-120	266.8	165	120	15	M8	3.2	●	336124	700
BT50-MFT20-M10-60	206.8	105	60	19	M10	3.2	●	336126	700
BT50-MFT20-M10-120	266.8	165	120	19	M10	3.3	●	336128	700
BT50-MFT25-M12-60	206.8	105	60	24	M12	3.3	●	336130	700
BT50-MFT25-M12-120	266.8	165	120	24	M12	3.4	●	336132	700
BT50-MFT30-M16-60	206.8	105	60	28	M16	3.4	●	336134	700
BT50-MFT30-M16-120	266.8	165	120	28	M16	3.5	●	336136	700
BT50-MFT35-M16-60	206.8	105	60	33	M16	3.5	●	336138	700
BT50-MFT35-M16-120	266.8	165	120	33	M16	3.7	●	336140	700

■ 整支通孔利于出水及抗震。

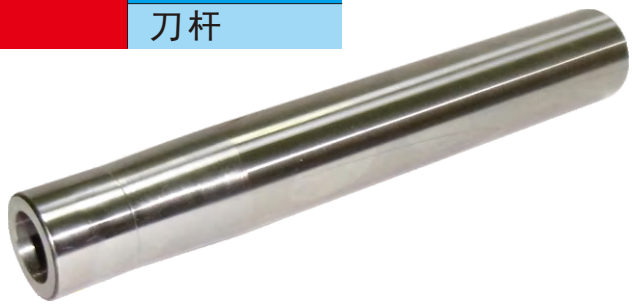
■ Beneficial to the entire branch water and seismic hole.

复合刃高效率刀具

High Efficiency Tool With Composite Cutting Edge



MFL 钨钢锁牙式 有孔 刀杆



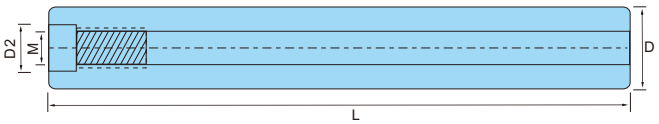


Fig1

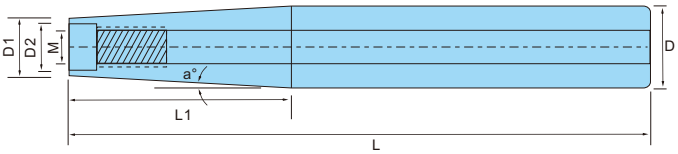
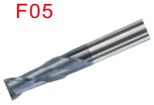
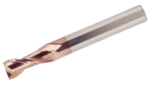
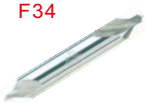
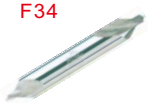


Fig2

订购编码 Order Number	型 号 Cat. No	Fig	L	D	D1	L1	a°	M	D2	Steel Stock	Price (RMB)	Carbide Stock	Price (RMB)
336200	**MFL06-06-060-M03**	1	60	6	6	-	-	M3X0.5	3.5	○	400	●	800
336202	**MFL06-06-120-M03**	1	120	6	6	-	-			○	400	●	800
336204	**MFL08-08-060-M04**	1	60	8	8	-	-	M4X0.7	4.5	○	400	●	800
336206	**MFL08-08-100-M04**	1	100	8	8	-	-			○	400	●	990
336208	**MFL08-08-150-M04**	1	150	8	8	-	-			○	400	●	1100
336210	**MFL08-10-150-M04DT60**	2	150	10	7. 8	60	1°			○	450	○	1200
336212	**MFL10-10-075-M05**	1	75	10	10	-	-	M5X0.8	5.5	○	500	●	1000
336214	**MFL10-10-100-M05**	1	100	10	10	-	-			○	500	●	1080
336216	**MFL10-10-150-M05**	1	150	10	10	-	-			○	500	●	1290
336218	**MFL10-12-150-M05DT60**	2	150	12	9. 8	60	1°			○	550	○	1450
336220	**MFL10-20-300-M05DT135**	2	300	20	9. 8	135	2.15°			○	650	○	5500
336222	**MFL12-12-075-M06**	1	75	12	12	-	-	M6X1.0	6.5	○	500	●	1150
336224	**MFL12-12-100-M06**	1	100	12	12	-	-			○	500	●	1290
336226	**MFL12-12-150-M06**	1	150	12	12	-	-			○	500	●	1480
336228	**MFL12-12-200-M06**	1	200	12	12	-	-			○	500	●	1980
336230	**MFL12-16-150-M06DT70**	2	150	16	11. 8	70	1.65°			○	550	○	2200
336232	**MFL12-16-200-M06DT90**	2	200	16	11. 8	90	1.3°			○	600	○	2600
336234	**MFL12-16-250-M06DT115**	2	250	16	11. 8	115	1°			○	700	○	3200
336236	**MFL12-16-300-M06DT135**	2	300	16	11. 8	135	1.7°			○	800	○	3800
336238	**MFL15.6-15.6-150-M08**	1	150	15. 6	15. 6	-	-	M8X1.25	8.5	○	500	●	1900
336240	**MFL16-16-100-M08**	1	100	16	16	-	-	M8X1.25	8.5	○	500	●	1980
336242	**MFL16-16-150-M08**	1	150	16	16	-	-			○	500	●	2240
336244	**MFL16-16-200-M08**	1	200	16	16	-	-			○	800	●	2630
336246	**MFL16-16-250-M08**	1	250	16	16	-	-			○	900	●	3130
336248	**MFL16-20-200-M08DT90**	2	200	20	15. 5	90	1.3°			○	900	○	4000
336250	**MFL16-20-250-M08DT115**	2	250	20	15. 5	115	1°			○	950	○	4700
336252	**MFL16-20-300-M08DT135**	2	300	20	15. 5	135	0.85°			○	1000	○	5400
336254	**MFL19-19-200-M10**	1	200	19	19	-	-	M10X1.5	10.5	○	800	●	2600
336256	**MFL20-20-100-M10**	1	100	20	20	-	-	M10X1.5	10.5	○	800	●	2650
336258	**MFL20-20-150-M10**	1	150	20	20	-	-			○	900	●	3130
336260	**MFL20-20-200-M10**	1	200	20	20	-	-			○	1100	●	3950
336262	**MFL20-20-250-M10**	1	250	20	20	-	-			○	1300	●	4650
336264	**MFL20-20-300-M10**	1	300	20	20	-	-			○	1600	●	5360
336266	**MFL20-20-400-M10**	1	400	20	20	-	-			○	1800	●	6200
336268	**MFL20-25-200-M10DT90**	2	200	25	19. 8	90	1.6°			○	2000	○	6800
336270	**MFL20-25-250-M10DT115**	2	250	25	19. 8	115	1.25°			○	2300	○	7900
336272	**MFL20-25-300-M10DT135**	2	300	25	19. 8	135	1.1°			○	2800	○	9800
336274	**MFL24-24-200-M12**	1	200	24	24	-	-	M12X1.75	12.5	○	1200	●	4030
336276	**MFL24-24-250-M12**	1	250	24	24	-	-			○	1200	●	4300
336278	**MFL25-25-100-M12**	1	100	25	25	-	-	M12X1.75	12.5	○	1400	●	4670
336280	**MFL25-25-150-M12**	1	150	25	25	-	-			○	1600	●	5360
336282	**MFL25-25-200-M12**	1	200	25	25	-	-			○	2000	●	6700
336284	**MFL25-25-250-M12**	1	250	25	25	-	-			○	2300	●	7860
336286	**MFL25-25-300-M12**	1	300	25	25	-	-			○	2800	●	9600
336288	**MFL25-25-350-M12**	1	350	25	25	-	-			○	3000	●	11200
336290	**MFL25-32-200-M12DT90**	2	200	32	24. 5	90	2.3°			○	2600	○	8500
336292	**MFL25-32-250-M12DT115**	2	250	32	24. 5	115	1.75°			○	3300	○	12000
336294	**MFL25-32-300-M12DT135**	2	300	32	24. 5	135	1.5°			○	4000	○	13500
336296	**MFL29-29-250-M16**	1	250	29	29	-	-	M16X2.0	17	○	2800	●	9300
336298	**MFL32-32-150-M16**	1	150	32	32	-	-	M16X2.0	17	○	2000	●	6600
336300	**MFL32-32-200-M16**	1	200	32	32	-	-			○	2600	●	8500
336302	**MFL32-32-250-M16**	1	250	32	32	-	-			○	3300	●	11150
336304	**MFL32-32-300-M16**	1	300	32	32	-	-			○	4000	●	13400
336306	**MFL32-32-350-M16**	1	350	32	32	-	-			○	4500	○	15400
336308	**MFL32-32-400-M16**	1	400	32	32	-	-			○	5000	○	17500
336310	**MFL42-42-250-M20**	1	250	42	42	-	-	M20X2.5	21	○	4000	○	15000
336312	**MFL42-42-300-M20**	1	300	42	42	-	-			○	4500	○	18000
336314	**MFL42-42-400-M20**	1	400	42	42	-	-			○	5000	○	25000
336316	**MFL42-42-500-M20**	1	500	42	42	-	-			○	6000	○	32000



2刃45°直角	4刃45°直角	2刃50°直角	4刃50°直角	2刃55°直角	4刃55°直角	2刃60°直角	4刃60°直角
F03	F03	F04	F04	F05	F05	F06	F06
							
钨钢铣刀 加工HRC45°以下 立铣刀	钨钢铣刀 加工HRC45°以下 立铣刀	钨钢铣刀 加工HRC50°以下 立铣刀	钨钢铣刀 加工HRC50°以下 立铣刀	钨钢铣刀 加工HRC55°以下 立铣刀	钨钢铣刀 加工HRC55°以下 立铣刀	钨钢铣刀 加工HRC60°以下 立铣刀	钨钢铣刀 加工HRC60°以下 立铣刀
2刃65°直角	**4刃65°直角**	**4刃-不涂层**	**2刃-不涂层**	**3刃-不涂层**	**3刃-铝用铣刀**	**深沟平底-铝用**	**深沟平底铣刀**
F07	F07	F08	F09	F09	F10	F11	F11
							
钨钢铣刀 加工HRC65°以下 立铣刀	钨钢铣刀 加工HRC65°以下 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝非铁金属加工 立铣刀	钨钢铣刀 铜铝非铁金属加工 立铣刀	钨钢铣刀 铜铝非铁金属加工 立铣刀	钨钢铣刀 钢件/不锈钢加工 立铣刀
深沟球头-铝用	**深沟球头铣刀**	**小径平底-铝用**	**小径平底铣刀**	**小径球刀-铝用**	**2刃45°直角**	**小数点铣刀**	**小数点涂层铣刀**
F12	F12	F13	F13	F14	F14	F15	F15
							
钨钢铣刀 铜铝非铁金属加工 立铣刀	钨钢铣刀 钢件/不锈钢加工 立铣刀	钨钢铣刀 铜铝非铁金属加工 立铣刀	钨钢铣刀 钢件/不锈钢加工 立铣刀	钨钢铣刀 铜铝非铁金属加工 立铣刀	钨钢铣刀 钢件/不锈钢加工 立铣刀	钨钢铣刀 铜铝非铁金属加工 立铣刀	钨钢铣刀 钢件/不锈钢加工 立铣刀
2刃45°圆角	**4刃45°圆角**	**2刃50°圆角**	**4刃50°圆角**	**2刃55°圆角**	**4刃55°圆角**	**2刃65°圆角**	**4刃65°圆角**
F17	F17	F18	F18	F19	F19	F20	F20
							
钨钢铣刀 加工HRC45°以下 立铣刀	钨钢铣刀 加工HRC45° 以下 立铣刀	钨钢铣刀 加工HRC50°以下 立铣刀	钨钢铣刀 加工HRC50°以下 立铣刀	钨钢铣刀 加工HRC55°以下 立铣刀	钨钢铣刀 加工HRC55°以下 立铣刀	钨钢铣刀 加工HRC65°以下 立铣刀	钨钢铣刀 加工HRC65°以下 立铣刀

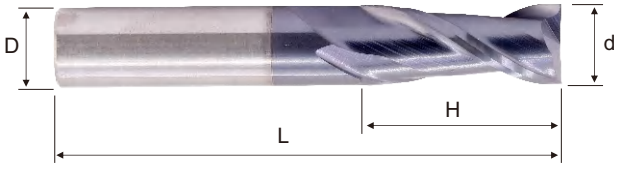
球刀-45°	球刀-50°	球刀-55°	球刀-铝用	球刀-60°	球刀-65°	3刃铝用粗铣刀	白钢粗皮刀
F21	F21	F22	F22	F23	F23	F25	F25
							
钨钢铣刀 加工HRC45°以下 立铣刀	钨钢铣刀 加工HRC50°以下 立铣刀	钨钢铣刀 加工HRC55°以下 立铣刀	钨钢铣刀 铜铝非铁金属加工 立铣刀	钨钢铣刀 加工HRC60°以下 立铣刀	钨钢铣刀 加工HRC65°以下 立铣刀	钨钢铣刀 铜铝非铁金属加工 立铣刀	高速钢铣刀 铜铝钢件加工 立铣刀
4刃钨钢粗铣刀	4刃白钢铣刀	2刃白钢铣刀	4刃白钢铣刀	2刃锥度铣刀	4刃锥度铣刀	球头锥度铣刀	2刃-焊接铣刀
F25	F25	F26	F26	F27	F27	F28	F29
							
钨钢铣刀 钢件/不锈钢加工 立铣刀	高速钢铣刀 铜铝钢件加工 立铣刀	高速钢铣刀 铜铝钢件加工 立铣刀	高速钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢焊刃式铣刀 铜铝钢件加工 立铣刀
4刃-焊接铣刀	焊刃式粗铣刀	焊刃式粗铣刀	焊刃式铣刀盘	焊刃式面铣刀	2F铝用定心钻	2F/3F倒角刀	2F/3F铝用倒角刀
F29	F29	F30	F30	F30	F31	F31	F32
							
钨钢焊刃式铣刀 铜铝钢件加工 立铣刀	钨钢焊刃式铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢焊刃式铣刀 铝合金加工 立铣刀	钨钢焊刃式铣刀 铜铝钢件加工 立铣刀	钨钢焊刃式铣刀 铝合金加工 立铣刀
2F/3F铝用倒角刀	2F/3F倒角刀	45°定位倒角刀	45°单刃倒角刀	45°三刃倒角刀	焊刃锥度铣刀	钨钢内R铣刀	焊刃内R铣刀
F32	F32	F33	F33	F33	F33	F34	F34
							
钨钢焊刃式铣刀 铝合金加工 立铣刀	钨钢焊刃式铣刀 铝合金加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀
钨钢中心钻	高速刚中心钻	SWT超微T型铣刀	SWTS超微T型铣刀	SWTI超微T型铣刀	三面刃铣刀盘	钨钢T型槽铣刀	棒棒糖铣刀
F34	F34	F35	F35	F35	F35	F36	F36
							
钨钢铣刀 铜铝钢件加工 中心钻	钨钢铣刀 铜铝钢件加工 通用型中心钻	焊刃式（平齿刃） 模具加工专用 立铣刀	焊刃式（千鸟刃） 模具加工专用 立铣刀	焊刃式（平齿刀） 模具加工专用 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	60° 槽铣刀 铜铝钢件加工 立铣刀	涂层铣刀 铜铝钢件加工 立铣刀
45°燕尾槽刀	60°燕尾槽刀	45°燕尾槽刀盘	钨钢燕尾槽刀	平齿三面刃刀盘	错齿三面刃刀盘	锯片刀杆	单刃亚克力铣刀
F37	F37	F37	F38	F39	F40	F41	F43
							
钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	单刃亚克力铣刀 铜铝钢件加工 立铣刀
55°直刃钨钢绞刀	55°螺旋刃绞刀	钨钢沉头铣刀	钨钢沉头铣刀	钨钢圆棒			
F44	F44	F45	F45	F46			
							
直刃绞刀 铜铝钢件加工 钨钢绞刀	螺旋刃绞刀 铜铝钢件加工 钨钢绞刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀	钨钢铣刀 铜铝钢件加工 立铣刀			

2刃 HRC45° 平底钨钢立铣刀

2F Edge HRC45° Tungsten Steel Coated End Milling Cutter

应用：切削加工HRC45°.以下钢材

Application: Milling the steel hardness under HRC45°.



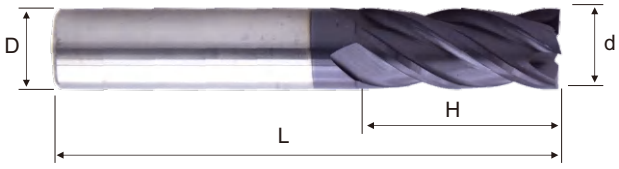
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000000	**2F45C-1X50**	Ø1.0	3	50	4	
36000002	**2F45C-1.5X50**	Ø1.5	4	50	4	
36000004	**2F45C-2X50**	Ø2.0	6	50	4	
36000006	**2F45C-2.5X50**	Ø2.5	7	50	4	
36000008	**2F45C-3X3X50**	Ø3.0	8	50	3	
36000010	**2F45C-3X4X50**	Ø3.0	8	50	4	
36000012	**2F45C-3.5X50**	Ø3.5	10	50	4	
36000014	**2F45C-4X50**	Ø4.0	10	50	4	
36000016	**2F45C-4X75**	Ø4.0	20	75	4	
36000018	**2F45C-4X100**	Ø4.0	25	100	4	
36000020	**2F45C-5X5X50**	Ø5.0	13	50	5	
36000022	**2F45C-5X6X50**	Ø5.0	13	50	6	
36000024	**2F45C-6X50**	Ø6.0	15	50	6	
36000026	**2F45C-6X75**	Ø6.0	20	75	6	
36000028	**2F45C-6X100**	Ø6.0	30	100	6	
36000030	**2F45C-6X150**	Ø6.0	30	150	6	
36000032	**2F45C-8X60**	Ø8.0	20	60	8	
36000034	**2F45C-8X75**	Ø8.0	25	75	8	
36000036	**2F45C-8X100**	Ø8.0	35	100	8	
36000038	**2F45C-8X150**	Ø8.0	40	150	8	
36000040	**2F45C-10X75**	Ø10	25	75	10	
36000042	**2F45C-10X100**	Ø10	40	100	10	
36000044	**2F45C-10X150**	Ø10	45	150	10	
36000046	**2F45C-12X75**	Ø12	30	75	12	
36000048	**2F45C-12X100**	Ø12	45	100	12	
36000050	**2F45C-12X150**	Ø12	50	150	12	
36000052	**2F45C-14X100**	Ø14	40	100	14	
36000054	**2F45C-14X150**	Ø14	50	150	14	
36000056	**2F45C-16X100**	Ø16	40	100	16	
36000058	**2F45C-16X150**	Ø16	55	150	16	
36000060	**2F45C-16X200**	Ø16	65	200	16	
36000062	**2F45C-18X100**	Ø18	40	100	18	
36000064	**2F45C-18X150**	Ø18	55	150	18	
36000066	**2F45C-20X100**	Ø20	40	100	20	
36000068	**2F45C-20X150**	Ø20	55	150	20	
36000070	**2F45C-20X200**	Ø20	75	200	20	

4刃 HRC45° 平底钨钢立铣刀

4F Edge HRC45° Tungsten Steel Coated End Milling Cutter

应用：切削加工HRC45°.以下钢材

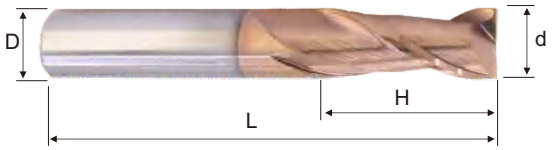
Application: Milling the steel hardness under HRC45°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000100	**4F45C1X50**	Ø1.0	3	50	4	
36000102	**4F45C1.5X50**	Ø1.5	4	50	4	
36000104	**4F45C2X50**	Ø2.0	6	50	4	
36000106	**4F45C2.5X50**	Ø2.5	7	50	4	
36000108	**4F45C3X3X50**	Ø3.0	8	50	3	
36000110	**4F45C3X4X50**	Ø3.0	8	50	4	
36000112	**4F45C3.5X50**	Ø3.5	10	50	4	
36000114	**4F45C4X50**	Ø4.0	10	50	4	
36000116	**4F45C4X75**	Ø4.0	20	75	4	
36000118	**4F45C4X100**	Ø4.0	25	100	4	
36000120	**4F45C5X5X50**	Ø5.0	13	50	5	
36000122	**4F45C5X6X50**	Ø5.0	13	50	6	
36000124	**4F45C6X50**	Ø6.0	15	50	6	
36000126	**4F45C6X75**	Ø6.0	20	75	6	
36000128	**4F45C6X100**	Ø6.0	30	100	6	
36000130	**4F45C6X150**	Ø6.0	30	150	6	
36000132	**4F45C8X60**	Ø8.0	20	60	8	
36000134	**4F45C8X75**	Ø8.0	25	75	8	
36000136	**4F45C8X100**	Ø8.0	35	100	8	
36000138	**4F45C8X150**	Ø8.0	40	150	8	
36000140	**4F45C10X75**	Ø10	25	75	10	
36000142	**4F45C10X100**	Ø10	40	100	10	
36000144	**4F45C10X150**	Ø10	45	150	10	
36000146	**4F45C12X75**	Ø12	30	75	12	
36000148	**4F45C12X100**	Ø12	45	100	12	
36000150	**4F45C12X150**	Ø12	50	150	12	
36000152	**4F45C14X100**	Ø14	40	100	14	
36000154	**4F45C14X150**	Ø14	50	150	14	
36000156	**4F45C16X100**	Ø16	40	100	16	
36000158	**4F45C16X150**	Ø16	55	150	16	
36000160	**4F45C16X200**	Ø16	65	200	16	
36000162	**4F45C18X100**	Ø18	40	100	18	
36000164	**4F45C18X150**	Ø18	55	150	18	
36000166	**4F45C20X100**	Ø20	40	100	20	
36000168	**4F45C20X150**	Ø20	55	150	20	
36000170	**4F45C20X200**	Ø20	75	200	20	

2刃 HRC50° 平底钨钢立铣刀
2F Edge HRC50° Tungsten Steel Coated End Milling Cutter

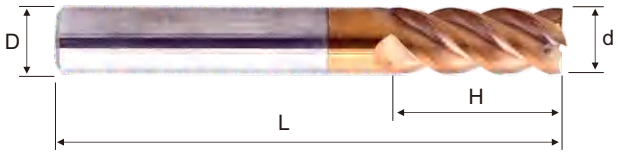
应用：切削加工HRC50°.以下钢材
Application: Milling the steel hardness under HRC50°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000200	**2F50C-1X50**	Ø1.0	3	50	4	
36000202	**2F50C-1.5X50**	Ø1.5	4	50	4	
36000204	**2F50C-2X50**	Ø2.0	6	50	4	
36000206	**2F50C-2.5X50**	Ø2.5	7	50	4	
36000208	**2F50C-3X3X50**	Ø3.0	8	50	3	
36000210	**2F50C-3X4X50**	Ø3.0	8	50	4	
36000212	**2F50C-3.5X50**	Ø3.5	10	50	4	
36000214	**2F50C-4X50**	Ø4.0	10	50	4	
36000216	**2F50C-4X75**	Ø4.0	20	75	4	
36000218	**2F50C-4X100**	Ø4.0	25	100	4	
36000220	**2F50C-5X5X50**	Ø5.0	13	50	5	
36000222	**2F50C-5X6X50**	Ø5.0	13	50	6	
36000224	**2F50C-6X50**	Ø6.0	15	50	6	
36000226	**2F50C-6X75**	Ø6.0	20	75	6	
36000228	**2F50C-6X100**	Ø6.0	30	100	6	
36000230	**2F50C-6X150**	Ø6.0	30	150	6	
36000232	**2F50C-8X60**	Ø8.0	20	60	8	
36000234	**2F50C-8X75**	Ø8.0	25	75	8	
36000236	**2F50C-8X100**	Ø8.0	35	100	8	
36000238	**2F50C-8X150**	Ø8.0	40	150	8	
36000240	**2F50C-10X75**	Ø10	25	75	10	
36000242	**2F50C-10X100**	Ø10	40	100	10	
36000244	**2F50C-10X150**	Ø10	45	150	10	
36000246	**2F50C-12X75**	Ø12	30	75	12	
36000248	**2F50C-12X100**	Ø12	45	100	12	
36000250	**2F50C-12X150**	Ø12	50	150	12	
36000252	**2F50C-14X100**	Ø14	40	100	14	
36000254	**2F50C-14X150**	Ø14	50	150	14	
36000256	**2F50C-16X100**	Ø16	40	100	16	
36000258	**2F50C-16X150**	Ø16	55	150	16	
36000260	**2F50C-16X200**	Ø16	65	200	16	
36000262	**2F50C-18X100**	Ø18	40	100	18	
36000264	**2F50C-18X150**	Ø18	55	150	18	
36000266	**2F50C-20X100**	Ø20	40	100	20	
36000268	**2F50C-20X150**	Ø20	55	150	20	
36000270	**2F50C-20X200**	Ø20	75	200	20	

4刃 HRC50° 平底钨钢立铣刀
4F Edge HRC50° Tungsten Steel Coated End Milling Cutter

应用：切削加工HRC50°.以下钢材
Application: Milling the steel hardness under HRC50°.



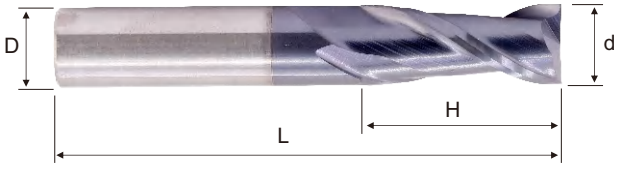
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000300	**4F50C-1X50**	Ø1.0	3	50	4	
36000302	**4F50C-1.5X50**	Ø1.5	4	50	4	
36000304	**4F50C-2X50**	Ø2.0	6	50	4	
36000306	**4F50C-2.5X50**	Ø2.5	7	50	4	
36000308	**4F50C-3X3X50**	Ø3.0	8	50	3	
36000310	**4F50C-3X4X50**	Ø3.0	8	50	4	
36000312	**4F50C-3.5X50**	Ø3.5	10	50	4	
36000314	**4F50C-4X50**	Ø4.0	10	50	4	
36000316	**4F50C-4X75**	Ø4.0	20	75	4	
36000318	**4F50C-4X100**	Ø4.0	25	100	4	
36000320	**4F50C-5X5X50**	Ø5.0	13	50	5	
36000322	**4F50C-5X6X50**	Ø5.0	13	50	6	
36000324	**4F50C-6X50**	Ø6.0	15	50	6	
36000326	**4F50C-6X75**	Ø6.0	20	75	6	
36000328	**4F50C-6X100**	Ø6.0	30	100	6	
36000330	**4F50C-6X150**	Ø6.0	30	150	6	
36000332	**4F50C-8X60**	Ø8.0	20	60	8	
36000334	**4F50C-8X75**	Ø8.0	25	75	8	
36000336	**4F50C-8X100**	Ø8.0	35	100	8	
36000338	**4F50C-8X150**	Ø8.0	40	150	8	
36000340	**4F50C-10X75**	Ø10	25	75	10	
36000342	**4F50C-10X100**	Ø10	40	100	10	
36000344	**4F50C-10X150**	Ø10	45	150	10	
36000346	**4F50C-12X75**	Ø12	30	75	12	
36000348	**4F50C-12X100**	Ø12	45	100	12	
36000350	**4F50C-12X150**	Ø12	50	150	12	
36000352	**4F50C-14X100**	Ø14	40	100	14	
36000354	**4F50C-14X150**	Ø14	50	150	14	
36000356	**4F50C-16X100**	Ø16	40	100	16	
36000358	**4F50C-16X150**	Ø16	55	150	16	
36000360	**4F50C-16X200**	Ø16	65	200	16	
36000362	**4F50C-18X100**	Ø18	40	100	18	
36000364	**4F50C-18X150**	Ø18	55	150	18	
36000366	**4F50C-20X100**	Ø20	40	100	20	
36000368	**4F50C-20X150**	Ø20	55	150	20	
36000370	**4F50C-20X200**	Ø20	75	200	20	

2刃 HRC55° 平底钨钢立铣刀

2F Edge HRC55° Tungsten Steel Coated End Milling Cutter

应用：切削加工HRC55°.以下钢材

Application: Milling the steel hardness under HRC55°.



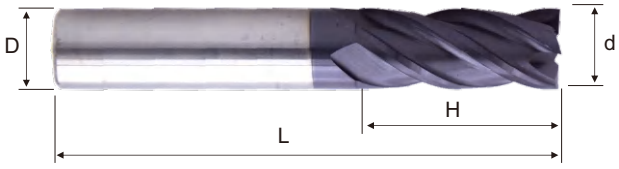
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000400	2F55C-1X50	Ø1.0	3	50	4	
36000402	2F55C-1.5X50	Ø1.5	4	50	4	
36000404	2F55C-2X50	Ø2.0	6	50	4	
36000406	2F55C-2.5X50	Ø2.5	7	50	4	
36000408	2F55C-3X3X50	Ø3.0	8	50	3	
36000410	2F55C-3X4X50	Ø3.0	8	50	4	
36000412	2F55C-3.5X50	Ø3.5	10	50	4	
36000414	2F55C-4X50	Ø4.0	10	50	4	
36000416	2F55C-4X75	Ø4.0	20	75	4	
36000418	2F55C-4X100	Ø4.0	25	100	4	
36000420	2F55C-5X5X50	Ø5.0	13	50	5	
36000422	2F55C-5X6X50	Ø5.0	13	50	6	
36000424	2F55C-6X50	Ø6.0	15	50	6	
36000426	2F55C-6X75	Ø6.0	20	75	6	
36000428	2F55C-6X100	Ø6.0	30	100	6	
36000430	2F55C-6X150	Ø6.0	30	150	6	
36000432	2F55C-8X60	Ø8.0	20	60	8	
36000434	2F55C-8X75	Ø8.0	25	75	8	
36000436	2F55C-8X100	Ø8.0	35	100	8	
36000438	2F55C-8X150	Ø8.0	40	150	8	
36000440	2F55C-10X75	Ø10	25	75	10	
36000442	2F55C-10X100	Ø10	40	100	10	
36000444	2F55C-10X150	Ø10	45	150	10	
36000446	2F55C-12X75	Ø12	30	75	12	
36000448	2F55C-12X100	Ø12	45	100	12	
36000450	2F55C-12X150	Ø12	50	150	12	
36000452	2F55C-14X100	Ø14	40	100	14	
36000454	2F55C-14X150	Ø14	50	150	14	
36000456	2F55C-16X100	Ø16	40	100	16	
36000458	2F55C-16X150	Ø16	55	150	16	
36000460	2F55C-16X200	Ø16	65	200	16	
36000462	2F55C-18X100	Ø18	40	100	18	
36000464	2F55C-18X150	Ø18	55	150	18	
36000466	2F55C-20X100	Ø20	40	100	20	
36000468	2F55C-20X150	Ø20	55	150	20	
36000470	2F55C-20X200	Ø20	75	200	20	

4刃 HRC55° 平底钨钢立铣刀

4F Edge HRC55° Tungsten Steel Coated End Milling Cutter

应用：切削加工HRC55°.以下钢材

Application: Milling the steel hardness under HRC55°.



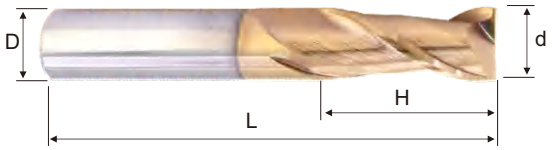
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000500	4F55C-1X50	Ø1.0	3	50	4	
36000502	4F55C-1.5X50	Ø1.5	4	50	4	
36000504	4F55C-2X50	Ø2.0	6	50	4	
36000506	4F55C-2.5X50	Ø2.5	7	50	4	
36000508	4F55C-3X3X50	Ø3.0	8	50	3	
36000510	4F55C-3X4X50	Ø3.0	8	50	4	
36000512	4F55C-3.5X50	Ø3.5	10	50	4	
36000514	4F55C-4X50	Ø4.0	10	50	4	
36000516	4F55C-4X75	Ø4.0	20	75	4	
36000518	4F55C-4X100	Ø4.0	25	100	4	
36000520	4F55C-5X5X50	Ø5.0	13	50	5	
36000522	4F55C-5X6X50	Ø5.0	13	50	6	
36000524	4F55C-6X50	Ø6.0	15	50	6	
36000526	4F55C-6X75	Ø6.0	20	75	6	
36000528	4F55C-6X100	Ø6.0	30	100	6	
36000530	4F55C-6X150	Ø6.0	30	150	6	
36000532	4F55C-8X60	Ø8.0	20	60	8	
36000534	4F55C-8X75	Ø8.0	25	75	8	
36000536	4F55C-8X100	Ø8.0	35	100	8	
36000538	4F55C-8X150	Ø8.0	40	150	8	
36000540	4F55C-10X75	Ø10	25	75	10	
36000542	4F55C-10X100	Ø10	40	100	10	
36000544	4F55C-10X150	Ø10	45	150	10	
36000546	4F55C-12X75	Ø12	30	75	12	
36000548	4F55C-12X100	Ø12	45	100	12	
36000550	4F55C-12X150	Ø12	50	150	12	
36000552	4F55C-14X100	Ø14	40	100	14	
36000554	4F55C-14X150	Ø14	50	150	14	
36000556	4F55C-16X100	Ø16	40	100	16	
36000558	4F55C-16X150	Ø16	55	150	16	
36000560	4F55C-16X200	Ø16	65	200	16	
36000562	4F55C-18X100	Ø18	40	100	18	
36000564	4F55C-18X150	Ø18	55	150	18	
36000566	4F55C-20X100	Ø20	40	100	20	
36000568	4F55C-20X150	Ø20	55	150	20	
36000570	4F55C-20X200	Ø20	75	200	20	

2刃 HRC60° 平底钨钢立铣刀

2F Edge HRC60° Tungsten Steel Coated End Milling Cutter

应用：切削加工不锈钢及HRC60°以下钢材

Application: Milling Stainless Steel And Steel Hardness Under HRC60°.



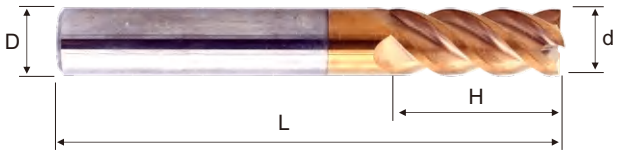
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000600	2F60C-1X50	Ø1.0	3	50	4	
36000602	2F60C-1.5X50	Ø1.5	4	50	4	
36000604	2F60C-2X50	Ø2.0	6	50	4	
36000606	2F60C-2.5X50	Ø2.5	7	50	4	
36000608	2F60C-3X3X50	Ø3.0	8	50	3	
36000610	2F60C-3X4X50	Ø3.0	8	50	4	
36000612	2F60C-3.5X50	Ø3.5	10	50	4	
36000614	2F60C-4X50	Ø4.0	10	50	4	
36000616	2F60C-4X75	Ø4.0	20	75	4	
36000618	2F60C-4X100	Ø4.0	25	100	4	
36000620	2F60C-5X5X50	Ø5.0	13	50	5	
36000622	2F60C-5X6X50	Ø5.0	13	50	6	
36000624	2F60C-6X50	Ø6.0	15	50	6	
36000626	2F60C-6X75	Ø6.0	20	75	6	
36000628	2F60C-6X100	Ø6.0	30	100	6	
36000630	2F60C-6X150	Ø6.0	30	150	6	
36000632	2F60C-8X60	Ø8.0	20	60	8	
36000634	2F60C-8X75	Ø8.0	25	75	8	
36000636	2F60C-8X100	Ø8.0	35	100	8	
36000638	2F60C-8X150	Ø8.0	40	150	8	
36000640	2F60C-10X75	Ø10	25	75	10	
36000642	2F60C-10X100	Ø10	40	100	10	
36000644	2F60C-10X150	Ø10	45	150	10	
36000646	2F60C-12X75	Ø12	30	75	12	
36000648	2F60C-12X100	Ø12	45	100	12	
36000650	2F60C-12X150	Ø12	50	150	12	
36000652	2F60C-14X100	Ø14	40	100	14	
36000654	2F60C-14X150	Ø14	50	150	14	
36000656	2F60C-16X100	Ø16	40	100	16	
36000658	2F60C-16X150	Ø16	55	150	16	
36000660	2F60C-16X200	Ø16	65	200	16	
36000662	2F60C-18X100	Ø18	40	100	18	
36000664	2F60C-18X150	Ø18	55	150	18	
36000666	2F60C-20X100	Ø20	40	100	20	
36000668	2F60C-20X150	Ø20	55	150	20	
36000670	2F60C-20X200	Ø20	75	200	20	

4刃 HRC60° 平底钨钢立铣刀

4F Edge HRC60° Tungsten Steel Coated End Milling Cutter

应用：切削加工不锈钢及HRC60°以下钢材

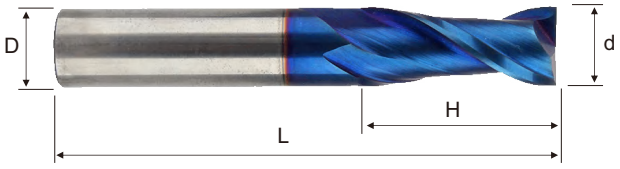
Application: Milling Stainless Steel And Steel Hardness Under HRC60°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000700	4F60C-1X50	Ø1.0	3	50	4	
36000702	4F60C-1.5X50	Ø1.5	4	50	4	
36000704	4F60C-2X50	Ø2.0	6	50	4	
36000706	4F60C-2.5X50	Ø2.5	7	50	4	
36000708	4F60C-3X3X50	Ø3.0	8	50	3	
36000710	4F60C-3X4X50	Ø3.0	8	50	4	
36000712	4F60C-3.5X50	Ø3.5	10	50	4	
36000714	4F60C-4X50	Ø4.0	10	50	4	
36000716	4F60C-4X75	Ø4.0	20	75	4	
36000718	4F60C-4X100	Ø4.0	25	100	4	
36000720	4F60C-5X5X50	Ø5.0	13	50	5	
36000722	4F60C-5X6X50	Ø5.0	13	50	6	
36000724	4F60C-6X50	Ø6.0	15	50	6	
36000726	4F60C-6X75	Ø6.0	20	75	6	
36000728	4F60C-6X100	Ø6.0	30	100	6	
36000730	4F60C-6X150	Ø6.0	30	150	6	
36000732	4F60C-8X60	Ø8.0	20	60	8	
36000734	4F60C-8X75	Ø8.0	25	75	8	
36000736	4F60C-8X100	Ø8.0	35	100	8	
36000738	4F60C-8X150	Ø8.0	40	150	8	
36000740	4F60C-10X75	Ø10	25	75	10	
36000742	4F60C-10X100	Ø10	40	100	10	
36000744	4F60C-10X150	Ø10	45	150	10	
36000746	4F60C-12X75	Ø12	30	75	12	
36000748	4F60C-12X100	Ø12	45	100	12	
36000750	4F60C-12X150	Ø12	50	150	12	
36000752	4F60C-14X100	Ø14	40	100	14	
36000754	4F60C-14X150	Ø14	50	150	14	
36000756	4F60C-16X100	Ø16	40	100	16	
36000758	4F60C-16X150	Ø16	55	150	16	
36000760	4F60C-16X200	Ø16	65	200	16	
36000762	4F60C-18X100	Ø18	40	100	18	
36000764	4F60C-18X150	Ø18	55	150	18	
36000766	4F60C-20X100	Ø20	40	100	20	
36000768	4F60C-20X150	Ø20	55	150	20	
36000770	4F60C-20X200	Ø20	75	200	20	

2刃 HRC65° 平底钨钢立铣刀
2F Edge HRC65° Tungsten Steel Coated End Milling Cutter

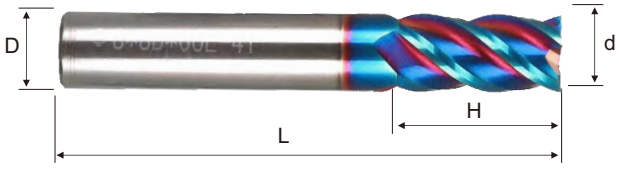
应用：切削加工不锈钢及HRC65°以下钢材
Application: Milling Stainless Steel And Steel Hardness Under HRC65°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000800	2F65C-1X50	Ø1.0	3	50	4	
36000802	2F65C-1.5X50	Ø1.5	4	50	4	
36000804	2F65C-2X50	Ø2.0	6	50	4	
36000806	2F65C-2.5X50	Ø2.5	7	50	4	
36000808	2F65C-3X3X50	Ø3.0	8	50	3	
36000810	2F65C-3X4X50	Ø3.0	8	50	4	
36000812	2F65C-3.5X50	Ø3.5	10	50	4	
36000814	2F65C-4X50	Ø4.0	10	50	4	
36000816	2F65C-4X75	Ø4.0	20	75	4	
36000818	2F65C-4X100	Ø4.0	25	100	4	
36000820	2F65C-5X5X50	Ø5.0	13	50	5	
36000822	2F65C-5X6X50	Ø5.0	13	50	6	
36000824	2F65C-6X50	Ø6.0	15	50	6	
36000826	2F65C-6X75	Ø6.0	20	75	6	
36000828	2F65C-6X100	Ø6.0	30	100	6	
36000830	2F65C-6X150	Ø6.0	30	150	6	
36000832	2F65C-8X60	Ø8.0	20	60	8	
36000834	2F65C-8X75	Ø8.0	25	75	8	
36000836	2F65C-8X100	Ø8.0	35	100	8	
36000838	2F65C-8X150	Ø8.0	40	150	8	
36000840	2F65C-10X75	Ø10	25	75	10	
36000842	2F65C-10X100	Ø10	40	100	10	
36000844	2F65C-10X150	Ø10	45	150	10	
36000846	2F65C-12X75	Ø12	30	75	12	
36000848	2F65C-12X100	Ø12	45	100	12	
36000850	2F65C-12X150	Ø12	50	150	12	
36000852	2F65C-14X100	Ø14	40	100	14	
36000854	2F65C-14X150	Ø14	50	150	14	
36000856	2F65C-16X100	Ø16	40	100	16	
36000858	2F65C-16X150	Ø16	55	150	16	
36000860	2F65C-16X200	Ø16	65	200	16	
36000862	2F65C-18X100	Ø18	40	100	18	
36000864	2F65C-18X150	Ø18	55	150	18	
36000866	2F65C-20X100	Ø20	40	100	20	
36000868	2F65C-20X150	Ø20	55	150	20	
36000870	2F65C-20X200	Ø20	75	200	20	

4刃 HRC65° 平底钨钢立铣刀
4F Edge HRC65° Tungsten Steel Coated End Milling Cutter

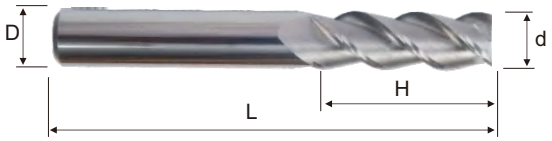
应用：切削加工不锈钢及HRC65°以下钢材
Application: Milling Stainless Steel And Steel Hardness Under HRC65°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36000900	4F65C-1X50	Ø1.0	3	50	4	
36000902	4F65C-1.5X50	Ø1.5	4	50	4	
36000904	4F65C-2X50	Ø2.0	6	50	4	
36000906	4F65C-2.5X50	Ø2.5	7	50	4	
36000908	4F65C-3X3X50	Ø3.0	8	50	3	
36000910	4F65C-3X4X50	Ø3.0	8	50	4	
36000912	4F65C-3.5X50	Ø3.5	10	50	4	
36000914	4F65C-4X50	Ø4.0	10	50	4	
36000916	4F65C-4X75	Ø4.0	20	75	4	
36000918	4F65C-4X100	Ø4.0	25	100	4	
36000920	4F65C-5X5X50	Ø5.0	13	50	5	
36000922	4F65C-5X6X50	Ø5.0	13	50	6	
36000924	4F65C-6X50	Ø6.0	15	50	6	
36000926	4F65C-6X75	Ø6.0	20	75	6	
36000928	4F65C-6X100	Ø6.0	30	100	6	
36000930	4F65C-6X150	Ø6.0	30	150	6	
36000932	4F65C-8X60	Ø8.0	20	60	8	
36000934	4F65C-8X75	Ø8.0	25	75	8	
36000936	4F65C-8X100	Ø8.0	35	100	8	
36000938	4F65C-8X150	Ø8.0	40	150	8	
36000940	4F65C-10X75	Ø10	25	75	10	
36000942	4F65C-10X100	Ø10	40	100	10	
36000944	4F65C-10X150	Ø10	45	150	10	
36000946	4F65C-12X75	Ø12	30	75	12	
36000948	4F65C-12X100	Ø12	45	100	12	
36000950	4F65C-12X150	Ø12	50	150	12	
36000952	4F65C-14X100	Ø14	40	100	14	
36000954	4F65C-14X150	Ø14	50	150	14	
36000956	4F65C-16X100	Ø16	40	100	16	
36000958	4F65C-16X150	Ø16	55	150	16	
36000960	4F65C-16X200	Ø16	65	200	16	
36000962	4F65C-18X100	Ø18	40	100	18	
36000964	4F65C-18X150	Ø18	55	150	18	
36000966	4F65C-20X100	Ø20	40	100	20	
36000968	4F65C-20X150	Ø20	55	150	20	
36000970	4F65C-20X200	Ø20	75	200	20	

4刃HRC50° 平底钨钢立铣刀-无涂层
4F Edge HRC50° Tungsten Steel Coated End Milling Cutter-Nothing Coating

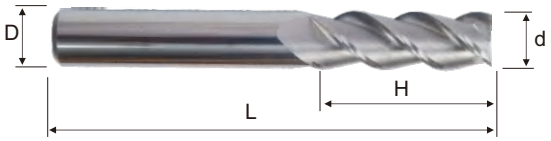
应用：切削加工HRC45°以下钢材
Application: Milling Stainless Steel And Steel Hardness Under HRC45°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36002700	AL-4F50C-1X50	Ø1.0	3	50	4	
36002702	AL-4F50C-1.5X50	Ø1.5	4	50	4	
36002704	AL-4F50C-2X50	Ø2.0	6	50	4	
36002706	AL-4F50C-2.5X50	Ø2.5	7	50	4	
36002708	AL-4F50C-3X3X50	Ø3.0	8	50	3	
36002710	AL-4F50C-3X4X50	Ø3.0	8	50	4	
36002712	AL-4F50C-3.5X50	Ø3.5	10	50	4	
36002714	AL-4F50C-4X50	Ø4.0	10	50	4	
36002716	AL-4F50C-4X75	Ø4.0	20	75	4	
36002718	AL-4F50C-4X100	Ø4.0	25	100	4	
36002720	AL-4F50C-5X5X50	Ø5.0	13	50	5	
36002722	AL-4F50C-5X6X50	Ø5.0	13	50	6	
36002724	AL-4F50C-6X50	Ø6.0	15	50	6	
36002726	AL-4F50C-6X75	Ø6.0	20	75	6	
36002728	AL-4F50C-6X100	Ø6.0	30	100	6	
36002730	AL-4F50C-6X150	Ø6.0	30	150	6	
36002732	AL-4F50C-8X60	Ø8.0	20	60	8	
36002734	AL-4F50C-8X75	Ø8.0	25	75	8	
36002736	AL-4F50C-8X100	Ø8.0	35	100	8	
36002738	AL-4F50C-8X150	Ø8.0	40	150	8	
36002740	AL-4F50C-10X75	Ø10	25	75	10	
36002742	AL-4F50C-10X100	Ø10	40	100	10	
36002744	AL-4F50C-10X150	Ø10	45	150	10	
36002746	AL-4F50C-12X75	Ø12	30	75	12	
36002748	AL-4F50C-12X100	Ø12	45	100	12	
36002750	AL-4F50C-12X150	Ø12	50	150	12	
36002752	AL-4F50C-14X100	Ø14	40	100	14	
36002754	AL-4F50C-14X150	Ø14	50	150	14	
36002756	AL-4F50C-16X100	Ø16	40	100	16	
36002758	AL-4F50C-16X150	Ø16	55	150	16	
36002760	AL-4F50C-16X200	Ø16	65	200	16	
36002762	AL-4F50C-18X100	Ø18	40	100	18	
36002764	AL-4F50C-18X150	Ø18	55	150	18	
36002766	AL-4F50C-20X100	Ø20	40	100	20	
36002768	AL-4F50C-20X150	Ø20	55	150	20	
36002770	AL-4F50C-20X200	Ø20	75	200	20	

4刃HRC55° 平底钨钢立铣刀-无涂层
4F Edge HRC55° Tungsten Steel Coated End Milling Cutter-Nothing Coating

应用：切削加工HRC50°以下钢材
Application: Milling Stainless Steel And Steel Hardness Under HRC50°.



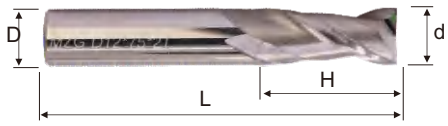
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36003000	AL-4F55C-1X50	Ø1.0	3	50	4	
36003002	AL-4F55C-1.5X50	Ø1.5	4	50	4	
36003004	AL-4F55C-2X50	Ø2.0	6	50	4	
36003006	AL-4F55C-2.5X50	Ø2.5	7	50	4	
36003008	AL-4F55C-3X3X50	Ø3.0	8	50	3	
36003010	AL-4F55C-3X4X50	Ø3.0	8	50	4	
36003012	AL-4F55C-3.5X50	Ø3.5	10	50	4	
36003014	AL-4F55C-4X50	Ø4.0	10	50	4	
36003016	AL-4F55C-4X75	Ø4.0	20	75	4	
36003018	AL-4F55C-4X100	Ø4.0	25	100	4	
36003020	AL-4F55C-5X5X50	Ø5.0	13	50	5	
36003022	AL-4F55C-5X6X50	Ø5.0	13	50	6	
36003024	AL-4F55C-6X50	Ø6.0	15	50	6	
36003026	AL-4F55C-6X75	Ø6.0	20	75	6	
36003028	AL-4F55C-6X100	Ø6.0	30	100	6	
36003030	AL-4F55C-6X150	Ø6.0	30	150	6	
36003032	AL-4F55C-8X60	Ø8.0	20	60	8	
36003034	AL-4F55C-8X75	Ø8.0	25	75	8	
36003036	AL-4F55C-8X100	Ø8.0	35	100	8	
36003038	AL-4F55C-8X150	Ø8.0	40	150	8	
36003040	AL-4F55C-10X75	Ø10	25	75	10	
36003042	AL-4F55C-10X100	Ø10	40	100	10	
36003044	AL-4F55C-10X150	Ø10	45	150	10	
36003046	AL-4F55C-12X75	Ø12	30	75	12	
36003048	AL-4F55C-12X100	Ø12	45	100	12	
36003050	AL-4F55C-12X150	Ø12	50	150	12	
36003052	AL-4F55C-14X100	Ø14	40	100	14	
36003054	AL-4F55C-14X150	Ø14	50	150	14	
36003056	AL-4F55C-16X100	Ø16	40	100	16	
36003058	AL-4F55C-16X150	Ø16	55	150	16	
36003060	AL-4F55C-16X200	Ø16	65	200	16	
36003062	AL-4F55C-18X100	Ø18	40	100	18	
36003064	AL-4F55C-18X150	Ø18	55	150	18	
36003066	AL-4F55C-20X100	Ø20	40	100	20	
36003068	AL-4F55C-20X150	Ø20	55	150	20	
36003070	AL-4F55C-20X200	Ø20	75	200	20	

2刃 HRC50° 平底钨钢立铣刀-无涂层

4F Edge HRC50° Tungsten Steel Coated End Milling Cutter-Nothing Coating

应用：铣削钢材HRC50°以下硬度以及铜和铝等有色金属材料

Application: Milling the steel hardness under HRC50° and Nonferrous metal materials such as copper and aluminum



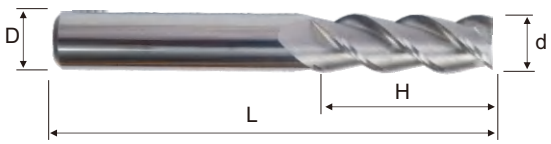
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36002800	AL-2F50C-1X50	Ø1.0	3	50	4	
36002802	AL-2F50C-1.5X50	Ø1.5	4	50	4	
36002804	AL-2F50C-2X50	Ø2.0	6	50	4	
36002806	AL-2F50C-2.5X50	Ø2.5	7	50	4	
36002808	AL-2F50C-3X3X50	Ø3.0	8	50	3	
36002810	AL-2F50C-3X4X50	Ø3.0	8	50	4	
36002812	AL-2F50C-3.5X50	Ø3.5	10	50	4	
36002814	AL-2F50C-4X50	Ø4.0	10	50	4	
36002816	AL-2F50C-4X75	Ø4.0	20	75	4	
36002818	AL-2F50C-4X100	Ø4.0	25	100	4	
36002820	AL-2F50C-5X5X50	Ø5.0	13	50	5	
36002822	AL-2F50C-5X6X50	Ø5.0	13	50	6	
36002824	AL-2F50C-6X50	Ø6.0	15	50	6	
36002826	AL-2F50C-6X75	Ø6.0	20	75	6	
36002828	AL-2F50C-6X100	Ø6.0	30	100	6	
36002830	AL-2F50C-6X150	Ø6.0	30	150	6	
36002832	AL-2F50C-8X60	Ø8.0	20	60	8	
36002834	AL-2F50C-8X75	Ø8.0	25	75	8	
36002836	AL-2F50C-8X100	Ø8.0	35	100	8	
36002838	AL-2F50C-8X150	Ø8.0	40	150	8	
36002840	AL-2F50C-10X75	Ø10	25	75	10	
36002842	AL-2F50C-10X100	Ø10	40	100	10	
36002844	AL-2F50C-10X150	Ø10	45	150	10	
36002846	AL-2F50C-12X75	Ø12	30	75	12	
36002848	AL-2F50C-12X100	Ø12	45	100	12	
36002850	AL-2F50C-12X150	Ø12	50	150	12	
36002852	AL-2F50C-14X100	Ø14	40	100	14	
36002854	AL-2F50C-14X150	Ø14	50	150	14	
36002856	AL-2F50C-16X100	Ø16	40	100	16	
36002858	AL-2F50C-16X150	Ø16	55	150	16	
36002860	AL-2F50C-16X200	Ø16	65	200	16	
36002862	AL-2F50C-18X100	Ø18	40	100	18	
36002864	AL-2F50C-18X150	Ø18	55	150	18	
36002866	AL-2F50C-20X100	Ø20	40	100	20	
36002868	AL-2F50C-20X150	Ø20	55	150	20	
36002870	AL-2F50C-20X200	Ø20	75	200	20	

3刃 HRC50° 平底钨钢立铣刀-无涂层

3F Edge HRC50° Tungsten Steel Coated End Milling Cutter-Nothing Coating

应用：铣削钢材HRC50°以下硬度以及铜和铝等有色金属材料

Application: Milling the steel hardness under HRC50° and Nonferrous metal materials such as copper and aluminum



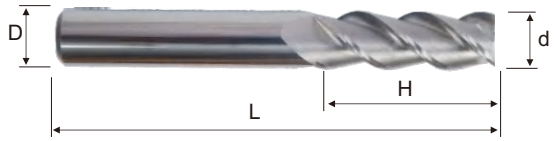
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36002900	AL-3F50C-1X50	Ø1.0	3	50	4	
36002902	AL-3F50C-1.5X50	Ø1.5	4	50	4	
36002904	AL-3F50C-2X50	Ø2.0	6	50	4	
36002906	AL-3F50C-2.5X50	Ø2.5	7	50	4	
36002908	AL-3F50C-3X3X50	Ø3.0	8	50	3	
36002910	AL-3F50C-3X4X50	Ø3.0	8	50	4	
36002912	AL-3F50C-3.5X50	Ø3.5	10	50	4	
36002914	AL-3F50C-4X50	Ø4.0	10	50	4	
36002916	AL-3F50C-4X75	Ø4.0	20	75	4	
36002918	AL-3F50C-4X100	Ø4.0	25	100	4	
36002920	AL-3F50C-5X5X50	Ø5.0	13	50	5	
36002922	AL-3F50C-5X6X50	Ø5.0	13	50	6	
36002924	AL-3F50C-6X50	Ø6.0	15	50	6	
36002926	AL-3F50C-6X75	Ø6.0	20	75	6	
36002928	AL-3F50C-6X100	Ø6.0	30	100	6	
36002930	AL-3F50C-6X150	Ø6.0	30	150	6	
36002932	AL-3F50C-8X60	Ø8.0	20	60	8	
36002934	AL-3F50C-8X75	Ø8.0	25	75	8	
36002936	AL-3F50C-8X100	Ø8.0	35	100	8	
36002938	AL-3F50C-8X150	Ø8.0	40	150	8	
36002940	AL-3F50C-10X75	Ø10	25	75	10	
36002942	AL-3F50C-10X100	Ø10	40	100	10	
36002944	AL-3F50C-10X150	Ø10	45	150	10	
36002946	AL-3F50C-12X75	Ø12	30	75	12	
36002948	AL-3F50C-12X100	Ø12	45	100	12	
36002950	AL-3F50C-12X150	Ø12	50	150	12	
36002952	AL-3F50C-14X100	Ø14	40	100	14	
36002954	AL-3F50C-14X150	Ø14	50	150	14	
36002956	AL-3F50C-16X100	Ø16	40	100	16	
36002958	AL-3F50C-16X150	Ø16	55	150	16	
36002960	AL-3F50C-16X200	Ø16	65	200	16	
36002962	AL-3F50C-18X100	Ø18	40	100	18	
36002964	AL-3F50C-18X150	Ø18	55	150	18	
36002966	AL-3F50C-20X100	Ø20	40	100	20	
36002968	AL-3F50C-20X150	Ø20	55	150	20	
36002970	AL-3F50C-20X200	Ø20	75	200	20	

3刃 HRC55° 平底钨钢铝用高光立铣刀

3F Edge HRC55° High gloss end mill for tungsten steel and aluminum

应用：铣削钢材HRC55°以下硬度以及铜和铝等有色金属材料

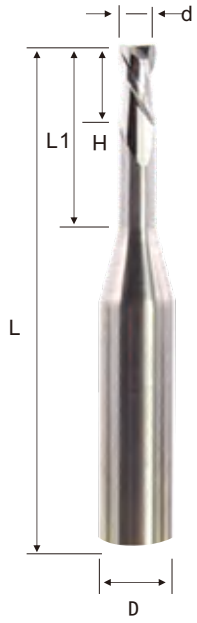
Application: Milling the steel hardness under HRC55° and Nonferrous metal materials such as copper and aluminum



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36003100	ALG-3F55C-1X50	Ø1.0	3	50	4	
36003102	ALG-3F55C-1.5X50	Ø1.5	4	50	4	
36003104	ALG-3F55C-2X50	Ø2.0	6	50	4	
36003106	ALG-3F55C-2.5X50	Ø2.5	7	50	4	
36003108	ALG-3F55C-3X3X50	Ø3.0	8	50	3	
36003110	ALG-3F55C-3X4X50	Ø3.0	8	50	4	
36003112	ALG-3F55C-3.5X50	Ø3.5	10	50	4	
36003114	ALG-3F55C-4X50	Ø4.0	10	50	4	
36003116	ALG-3F55C-4X75	Ø4.0	20	75	4	
36003118	ALG-3F55C-4X100	Ø4.0	25	100	4	
36003120	ALG-3F55C-5X5X50	Ø5.0	13	50	5	
36003122	ALG-3F55C-5X6X50	Ø5.0	13	50	6	
36003124	ALG-3F55C-6X50	Ø6.0	15	50	6	
36003126	ALG-3F55C-6X75	Ø6.0	20	75	6	
36003128	ALG-3F55C-6X100	Ø6.0	30	100	6	
36003130	ALG-3F55C-6X150	Ø6.0	30	150	6	
36003132	ALG-3F55C-8X60	Ø8.0	20	60	8	
36003134	ALG-3F55C-8X75	Ø8.0	25	75	8	
36003136	ALG-3F55C-8X100	Ø8.0	35	100	8	
36003138	ALG-3F55C-8X150	Ø8.0	40	150	8	
36003140	ALG-3F55C-10X75	Ø10	25	75	10	
36003142	ALG-3F55C-10X100	Ø10	40	100	10	
36003144	ALG-3F55C-10X150	Ø10	45	150	10	
36003146	ALG-3F55C-12X75	Ø12	30	75	12	
36003148	ALG-3F55C-12X100	Ø12	45	100	12	
36003150	ALG-3F55C-12X150	Ø12	50	150	12	
36003152	ALG-3F55C-14X100	Ø14	40	100	14	
36003154	ALG-3F55C-14X150	Ø14	50	150	14	
36003156	ALG-3F55C-16X100	Ø16	40	100	16	
36003158	ALG-3F55C-16X150	Ø16	55	150	16	
36003160	ALG-3F55C-16X200	Ø16	65	200	16	
36003162	ALG-3F55C-18X100	Ø18	40	100	18	
36003164	ALG-3F55C-18X150	Ø18	55	150	18	
36003166	ALG-3F55C-20X100	Ø20	40	100	20	
36003168	ALG-3F55C-20X150	Ø20	55	150	20	
36003170	ALG-3F55C-20X200	Ø20	75	200	20	

2刃深沟长颈钨钢平底立铣刀-无涂层
2 Edge Tungsten Steel Uncoated Deep Ditch End Milling Cutter

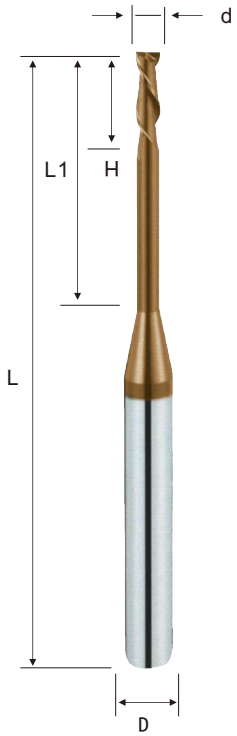
应用：铣削钢和铜、铝等有色金属材料
Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	H	L1	L	D	
36004100	AL-SG2F60C-0.5L2	Ø0.5	0.8	2	50	4	100
36004102	AL-SG2F60C-0.5L4	Ø0.5	0.8	4	50	4	100
36004104	AL-SG2F60C-0.5L6	Ø0.5	0.8	6	50	4	100
36004106	AL-SG2F60C-0.6L2	Ø0.6	1	2	50	4	100
36004108	AL-SG2F60C-1L6	Ø1	1.5	6	50	4	100
36004110	AL-SG2F60C-1L8	Ø1	1.5	8	50	4	100
36004112	AL-SG2F60C-1L10	Ø1	1.5	10	50	4	100
36004114	AL-SG2F60C-1.5L6	Ø1.5	2	6	50	4	100
36004116	AL-SG2F60C-1.5L8	Ø1.5	2	8	50	4	100
36004118	AL-SG2F60C-1.5L10	Ø1.5	2	10	50	4	100
36004120	AL-SG2F60C-1.5L12	Ø1.5	2	12	50	4	100
36004122	AL-SG2F60C-2L8	Ø2	2.5	8	50	4	100
36004124	AL-SG2F60C-2L10	Ø2	2.5	10	50	4	100
36004126	AL-SG2F60C-2L12	Ø2	2.5	12	50	4	100
36004128	AL-SG2F60C-2L14	Ø2	2.5	14	50	4	100
36004130	AL-SG2F60C-2L16	Ø2	2.5	16	50	4	100
36004132	AL-SG2F60C-2.5L8	Ø2.5	4	8	50	4	100
36004134	AL-SG2F60C-2.5L12	Ø2.5	4	12	50	4	100
36004136	AL-SG2F60C-2.5L16	Ø2.5	4	16	50	4	100
36004138	AL-SG2F60C-2.5L20	Ø2.5	4	20	50	4	100
36004140	AL-SG2F60C-3L10	Ø3	4.5	10	50	4	100
36004142	AL-SG2F60C-3L12	Ø3	4.5	12	50	4	100
36004144	AL-SG2F60C-3L16	Ø3	4.5	16	75	4	100
36004146	AL-SG2F60C-3L20	Ø3	4.5	20	75	4	100
36004148	AL-SG2F60C-4L12	Ø4	6	12	50	6	100
36004150	AL-SG2F60C-4L16	Ø4	6	16	60	6	100
36004152	AL-SG2F60C-4L20	Ø4	6	20	75	6	100
36004154	AL-SG2F60C-4L25	Ø4	6	25	75	6	100
36004156	AL-SG2F60C-4L30	Ø4	6	30	75	6	100
36004158	AL-SG2F60C-4L35	Ø4	6	35	75	6	100

2刃深沟长颈钨钢平底立铣刀-纳米涂层
2 Edge Tungsten Steel Coated Deep Ditch End Milling Cutter

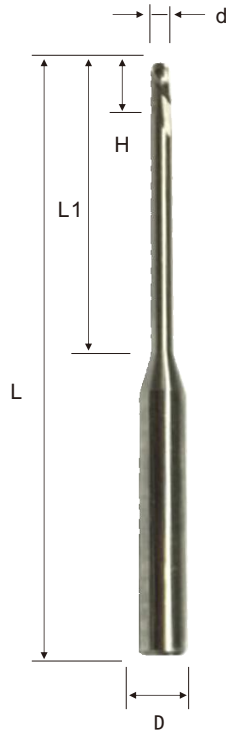
应用：铣削HRC60°钢、铸铁及不锈钢等材料
Application: Milling HRC60 ° steel, cast iron and stainless steel



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	H	L1	L	D	
36004200	SG2F60C-0.5L2	Ø0.5	0.8	2	50	4	100
36004202	SG2F60C-0.5L4	Ø0.5	0.8	4	50	4	100
36004204	SG2F60C-0.5L6	Ø0.5	0.8	6	50	4	100
36004206	SG2F60C-0.6L2	Ø0.6	1	2	50	4	100
36004208	SG2F60C-1L6	Ø1	1.5	6	50	4	100
36004210	SG2F60C-1L8	Ø1	1.5	8	50	4	100
36004212	SG2F60C-1L10	Ø1	1.5	10	50	4	100
36004214	SG2F60C-1.5L6	Ø1.5	2	6	50	4	100
36004216	SG2F60C-1.5L8	Ø1.5	2	8	50	4	100
36004218	SG2F60C-1.5L10	Ø1.5	2	10	50	4	100
36004220	SG2F60C-1.5L12	Ø1.5	2	12	50	4	100
36004222	SG2F60C-2L8	Ø2	2.5	8	50	4	100
36004224	SG2F60C-2L10	Ø2	2.5	10	50	4	100
36004226	SG2F60C-2L12	Ø2	2.5	12	50	4	100
36004228	SG2F60C-2L14	Ø2	2.5	14	50	4	100
36004230	SG2F60C-2L16	Ø2	2.5	16	50	4	100
36004232	SG2F60C-2.5L8	Ø2.5	4	8	50	4	100
36004234	SG2F60C-2.5L12	Ø2.5	4	12	50	4	100
36004236	SG2F60C-2.5L16	Ø2.5	4	16	50	4	100
36004238	SG2F60C-2.5L20	Ø2.5	4	20	50	4	100
36004240	SG2F60C-3L10	Ø3	4.5	10	50	4	100
36004242	SG2F60C-3L12	Ø3	4.5	12	50	4	100
36004244	SG2F60C-3L16	Ø3	4.5	16	75	4	100
36004246	SG2F60C-3L20	Ø3	4.5	20	75	4	100
36004248	SG2F60C-4L12	Ø4	6	12	50	6	100
36004250	SG2F60C-4L16	Ø4	6	16	60	6	100
36004252	SG2F60C-4L20	Ø4	6	20	75	6	100
36004254	SG2F60C-4L25	Ø4	6	25	75	6	100
36004256	SG2F60C-4L30	Ø4	6	30	75	6	100
36004258	SG2F60C-4L35	Ø4	6	35	75	6	100

2刃深沟长颈球头钨钢平底立铣刀-无涂层
2 Edge Tungsten Steel Uncoated Deep Ditch Ball Head End Milling Cutter

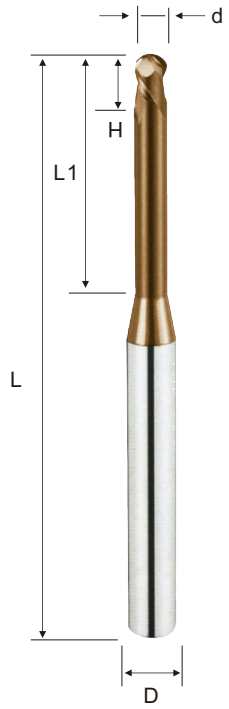
应用：铣削钢和铜、铝等有色金属材料
Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	H	L1	L	D	
36004300	AL-SG2F60C-R0.25L2	R0.25	0.8	2	50	4	100
36004302	AL-SG2F60C-R0.25L4	R0.25	0.8	4	50	4	100
36004304	AL-SG2F60C-R0.25L6	R0.25	0.8	6	50	4	100
36004306	AL-SG2F60C-R0.3L2	R0.3	1	2	50	4	100
36004308	AL-SG2F60C-R0.5L6	R0.5	1.5	6	50	4	100
36004310	AL-SG2F60C-R0.5L8	R0.5	1.5	8	50	4	100
36004312	AL-SG2F60C-R0.5L10	R0.5	1.5	10	50	4	100
36004314	AL-SG2F60C-R0.75L6	R0.75	2	6	50	4	100
36004316	AL-SG2F60C-R0.75L8	R0.75	2	8	50	4	100
36004318	AL-SG2F60C-R0.75L10	R0.75	2	10	50	4	100
36004320	AL-SG2F60C-R0.75L12	R0.75	2	12	50	4	100
36004322	AL-SG2F60C-R1L8	R1	2.5	8	50	4	100
36004324	AL-SG2F60C-R1L10	R1	2.5	10	50	4	100
36004326	AL-SG2F60C-R1L12	R1	2.5	12	50	4	100
36004328	AL-SG2F60C-R1L14	R1	2.5	14	50	4	100
36004330	AL-SG2F60C-R1L16	R1	2.5	16	50	4	100
36004332	AL-SG2F60C-R1.25L8	R1.25	4	8	50	4	100
36004334	AL-SG2F60C-R1.25L12	R1.25	4	12	50	4	100
36004336	AL-SG2F60C-R1.25L16	R1.25	4	16	50	4	100
36004338	AL-SG2F60C-R1.25L20	R1.25	4	20	50	4	100
36004340	AL-SG2F60C-R1.5L10	R1.5	4.5	10	50	4	100
36004342	AL-SG2F60C-R1.5L12	R1.5	4.5	12	50	4	100
36004344	AL-SG2F60C-R1.5L16	R1.5	4.5	16	75	4	100
36004346	AL-SG2F60C-R1.5L20	R1.5	4.5	20	75	4	100
36004348	AL-SG2F60C-R2L12	R2	6	12	50	6	100
36004350	AL-SG2F60C-R2L16	R2	6	16	60	6	100
36004352	AL-SG2F60C-R2L20	R2	6	20	75	6	100
36004354	AL-SG2F60C-R2L25	R2	6	25	75	6	100
36004356	AL-SG2F60C-R2L30	R2	6	30	75	6	100
36004358	AL-SG2F60C-R2L35	R2	6	35	75	6	100

2刃深沟长颈球头钨钢平底立铣刀-纳米涂层
2 Edge Tungsten Steel Coated Deep Ditch Ball Head End Milling Cutter

应用：铣削HRC60°钢、铸铁及不锈钢等材料
Application: Milling HRC60 ° steel, cast iron and stainless steel



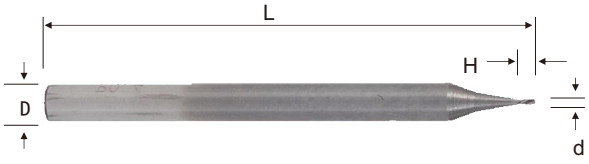
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	H	L1	L	D	
36004400	SG2F60C-R0.25L2	R0.25	0.8	2	50	4	100
36004402	SG2F60C-R0.25L4	R0.25	0.8	4	50	4	100
36004404	SG2F60C-R0.25L6	R0.25	0.8	6	50	4	100
36004406	SG2F60C-R0.3L2	R0.3	1	2	50	4	100
36004408	SG2F60C-R0.5L6	R0.5	1.5	6	50	4	100
36004410	SG2F60C-R0.5L8	R0.5	1.5	8	50	4	100
36004412	SG2F60C-R0.5L10	R0.5	1.5	10	50	4	100
36004414	SG2F60C-R0.75L6	R0.75	2	6	50	4	100
36004416	SG2F60C-R0.75L8	R0.75	2	8	50	4	100
36004418	SG2F60C-R0.75L10	R0.75	2	10	50	4	100
36004420	SG2F60C-R0.75L12	R0.75	2	12	50	4	100
36004422	SG2F60C-R1L8	R1	2.5	8	50	4	100
36004424	SG2F60C-R1L10	R1	2.5	10	50	4	100
36004426	SG2F60C-R1L12	R1	2.5	12	50	4	100
36004428	SG2F60C-R1L14	R1	2.5	14	50	4	100
36004430	SG2F60C-R1L16	R1	2.5	16	50	4	100
36004432	SG2F60C-R1.25L8	R1.25	4	8	50	4	100
36004434	SG2F60C-R1.25L12	R1.25	4	12	50	4	100
36004436	SG2F60C-R1.25L16	R1.25	4	16	50	4	100
36004438	SG2F60C-R1.25L20	R1.25	4	20	50	4	100
36004440	SG2F60C-R1.5L10	R1.5	4.5	10	50	4	100
36004442	SG2F60C-R1.5L12	R1.5	4.5	12	50	4	100
36004444	SG2F60C-R1.5L16	R1.5	4.5	16	75	4	100
36004446	SG2F60C-R1.5L20	R1.5	4.5	20	75	4	100
36004448	SG2F60C-R2L12	R2	6	12	50	6	100
36004450	SG2F60C-R2L16	R2	6	16	60	6	100
36004452	SG2F60C-R2L20	R2	6	20	75	6	100
36004454	SG2F60C-R2L25	R2	6	25	75	6	100
36004456	SG2F60C-R2L30	R2	6	30	75	6	100
36004458	SG2F60C-R2L35	R2	6	35	75	6	100

2刃微小径钨钢平底立铣刀-无涂层

2 Edge Tungsten Steel Uncoated Small Diameter End Milling Cutter

应用：铣削钢和铜、铝等有色金属材料

Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



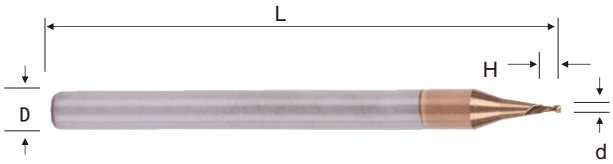
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm) d	H	L	D	单价 (RMB) Price
36003500	**AL-2F60C-0.3**	Ø0.3	0.6	50	3	60
36003502	**AL-2F60C-0.3**	Ø0.3	0.6	50	4	60
36003504	**AL-2F60C-0.4**	Ø0.4	0.8	50	3	60
36003506	**AL-2F60C-0.4**	Ø0.4	0.8	50	4	60
36003508	**AL-2F60C-0.5**	Ø0.5	1	50	3	60
36003510	**AL-2F60C-0.5**	Ø0.5	1	50	4	60
36003512	**AL-2F60C-0.6**	Ø0.6	1.2	50	3	60
36003514	**AL-2F60C-0.6**	Ø0.6	1.2	50	4	60
36003516	**AL-2F60C-0.7**	Ø0.7	1.4	50	3	60
36003518	**AL-2F60C-0.7**	Ø0.7	1.4	50	4	60
36003520	**AL-2F60C-0.8**	Ø0.8	1.6	50	3	60
36003522	**AL-2F60C-0.8**	Ø0.8	1.6	50	4	60
36003524	**AL-2F60C-0.9**	Ø0.9	1.8	50	3	60
36003526	**AL-2F60C-0.9**	Ø0.9	1.8	50	4	60
36003528	**AL-2F60C-1.1**	Ø1.1	2.2	50	4	90
36003530	**AL-2F60C-1.2**	Ø1.2	2.4	50	4	90
36003532	**AL-2F60C-1.3**	Ø1.3	2.6	50	4	90
36003534	**AL-2F60C-1.4**	Ø1.4	2.8	50	4	90
36003536	**AL-2F60C-1.6**	Ø1.6	3.2	50	4	90
36003538	**AL-2F60C-1.7**	Ø1.7	3.4	50	4	90
36003540	**AL-2F60C-1.8**	Ø1.8	3.6	50	4	90
36003542	**AL-2F60C-1.9**	Ø1.9	3.8	50	4	90
36003544	**AL-2F60C-2.1**	Ø2.1	4.2	50	4	90
36003546	**AL-2F60C-2.2**	Ø2.2	4.4	50	4	90
36003548	**AL-2F60C-2.3**	Ø2.3	4.6	50	4	90
36003550	**AL-2F60C-2.4**	Ø2.4	4.8	50	4	90
36003552	**AL-2F60C-2.6**	Ø2.6	5.2	50	4	90
36003554	**AL-2F60C-2.7**	Ø2.7	5.4	50	4	90
36003556	**AL-2F60C-2.8**	Ø2.8	5.6	50	4	90
36003558	**AL-2F60C-2.9**	Ø2.9	5.8	50	4	90
36003560	**AL-2F60C-4.5**	Ø4.5	9	50	6	90
36003562	**AL-2F60C-5.5**	Ø5.5	11	50	6	90
36003564	**AL-2F60C-6.5**	Ø6.5	13	60	8	160
36003566	**AL-2F60C-7**	Ø7	14	60	8	160
36003568	**AL-2F60C-7.5**	Ø7.5	15	60	8	160
36003570	**AL-2F60C-8.5**	Ø8.5	17	75	10	260
36003572	**AL-2F60C-9**	Ø9	18	75	10	260
36003574	**AL-2F60C-9.5**	Ø9.5	19	75	10	260
36003576	**AL-2F60C-11**	Ø11	22	75	12	445
36003578	**AL-2F60C-13**	Ø13	26	100	14	775

2刃微小径钨钢平底立铣刀-纳米涂层

2 Edge Tungsten Steel Coated Small Diameter End Milling Cutter

应用：铣削HRC60°钢、铸铁及不锈钢等材料

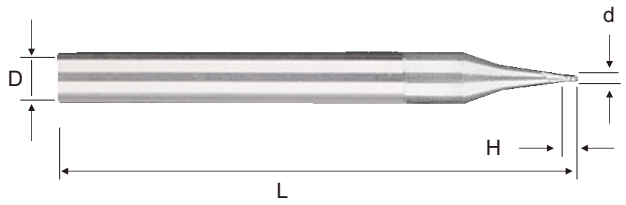
Application: Milling HRC60 ° steel, cast iron and stainless steel



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm) d	H	L	D	单价 (RMB) Price
36003600	**2F60C-0.3**	Ø0.3	0.6	50	3	60
36003602	**2F60C-0.3**	Ø0.3	0.6	50	4	60
36003604	**2F60C-0.4**	Ø0.4	0.8	50	3	60
36003606	**2F60C-0.4**	Ø0.4	0.8	50	4	60
36003608	**2F60C-0.5**	Ø0.5	1	50	3	60
36003610	**2F60C-0.5**	Ø0.5	1	50	4	60
36003612	**2F60C-0.6**	Ø0.6	1.2	50	3	60
36003614	**2F60C-0.6**	Ø0.6	1.2	50	4	60
36003616	**2F60C-0.7**	Ø0.7	1.4	50	3	60
36003618	**2F60C-0.7**	Ø0.7	1.4	50	4	60
36003620	**2F60C-0.8**	Ø0.8	1.6	50	3	60
36003622	**2F60C-0.8**	Ø0.8	1.6	50	4	60
36003624	**2F60C-0.9**	Ø0.9	1.8	50	3	60
36003626	**2F60C-0.9**	Ø0.9	1.8	50	4	60
36003628	**2F60C-1.1**	Ø1.1	2.2	50	4	90
36003630	**2F60C-1.2**	Ø1.2	2.4	50	4	90
36003632	**2F60C-1.3**	Ø1.3	2.6	50	4	90
36003634	**2F60C-1.4**	Ø1.4	2.8	50	4	90
36003636	**2F60C-1.6**	Ø1.6	3.2	50	4	90
36003638	**2F60C-1.7**	Ø1.7	3.4	50	4	90
36003640	**2F60C-1.8**	Ø1.8	3.6	50	4	90
36003642	**2F60C-1.9**	Ø1.9	3.8	50	4	90
36003644	**2F60C-2.1**	Ø2.1	4.2	50	4	90
36003646	**2F60C-2.2**	Ø2.2	4.4	50	4	90
36003648	**2F60C-2.3**	Ø2.3	4.6	50	4	90
36003650	**2F60C-2.4**	Ø2.4	4.8	50	4	90
36003652	**2F60C-2.6**	Ø2.6	5.2	50	4	90
36003654	**2F60C-2.7**	Ø2.7	5.4	50	4	90
36003656	**2F60C-2.8**	Ø2.8	5.6	50	4	90
36003658	**2F60C-2.9**	Ø2.9	5.8	50	4	90
36003660	**2F60C-4.5**	Ø4.5	9	50	6	90
36003662	**2F60C-5.5**	Ø5.5	11	50	6	90
36003664	**2F60C-6.5**	Ø6.5	13	60	8	160
36003666	**2F60C-7**	Ø7	14	60	8	160
36003668	**2F60C-7.5**	Ø7.5	15	60	8	160
36003670	**2F60C-8.5**	Ø8.5	17	75	10	260
36003672	**2F60C-9**	Ø9	18	75	10	260
36003674	**2F60C-9.5**	Ø9.5	19	75	10	260
36003676	**2F60C-11**	Ø11	22	75	12	445
36003678	**2F60C-13**	Ø13	26	100	14	775

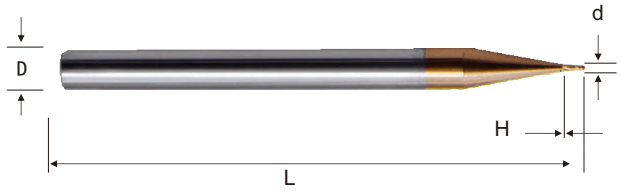
微小径钨钢球头立铣刀-2刃无涂层铝用
2 Edge Tungsten Steel Uncoated Small Diameter Ball Head End Milling Cutter

应用：铣削钢和铜、铝等有色金属材料
Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



微小径钨钢球头立铣刀-2刃涂层
2 Edge Tungsten Steel Coated Small Diameter Ball Head End Milling Cutter

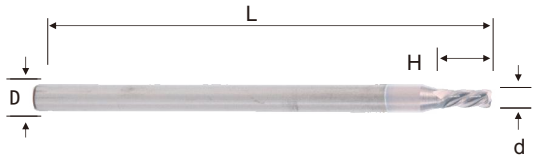
应用：铣削HRC60°以下钢、铸铁及不锈钢材料
Application: Milling Stainless Steel And Steel Hardness Under HRC60°



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36003700	**AL-2F60C-R0.15**	R0.15	0.6	50	3	60
36003702	**AL-2F60C-R0.15**	R0.15	0.6	50	4	60
36003704	**AL-2F60C-R0.2**	R0.2	0.8	50	3	60
36003706	**AL-2F60C-R0.2**	R0.2	0.8	50	4	60
36003708	**AL-2F60C-R0.25**	R0.25	1	50	3	60
36003710	**AL-2F60C-R0.25**	R0.25	1	50	4	60
36003712	**AL-2F60C-R0.3**	R0.3	1.2	50	3	60
36003714	**AL-2F60C-R0.3**	R0.3	1.2	50	4	60
36003716	**AL-2F60C-R0.35**	R0.35	1.4	50	3	60
36003718	**AL-2F60C-R0.35**	R0.35	1.4	50	4	60
36003720	**AL-2F60C-R0.4**	R0.4	1.6	50	3	60
36003722	**AL-2F60C-R0.4**	R0.4	1.6	50	4	60
36003724	**AL-2F60C-R0.45**	R0.45	1.8	50	3	60
36003726	**AL-2F60C-R0.45**	R0.45	1.8	50	4	60
36003728	**AL-2F60C-R0.55**	R0.55	2.2	50	4	90
36003730	**AL-2F60C-R0.6**	R0.6	2.4	50	4	90
36003732	**AL-2F60C-R0.65**	R0.65	2.6	50	4	90
36003734	**AL-2F60C-R0.7**	R0.7	2.8	50	4	90
36003736	**AL-2F60C-R0.8**	R0.8	3.2	50	4	90
36003738	**AL-2F60C-R0.85**	R0.85	3.4	50	4	90
36003740	**AL-2F60C-R0.9**	R0.9	3.6	50	4	90
36003742	**AL-2F60C-R0.95**	R0.95	3.8	50	4	90
36003744	**AL-2F60C-R1.05**	R1.05	4.2	50	4	90
36003746	**AL-2F60C-R1.1**	R1.1	4.4	50	4	90
36003748	**AL-2F60C-R1.15**	R1.15	4.6	50	4	90
36003750	**AL-2F60C-R1.2**	R1.2	4.8	50	4	90
36003752	**AL-2F60C-R1.3**	R1.3	5.2	50	4	90
36003754	**AL-2F60C-R1.35**	R1.35	5.4	50	4	90
36003756	**AL-2F60C-R1.4**	R1.4	5.6	50	4	90
36003758	**AL-2F60C-R1.45**	R1.45	5.8	50	4	90
36003760	**AL-2F60C-R2.25**	R2.25	9	50	6	90
36003762	**AL-2F60C-R2.75**	R2.75	11	50	6	90
36003764	**AL-2F60C-R3.25**	R3.25	13	60	8	160
36003766	**AL-2F60C-R3.5**	R3.5	14	60	8	160
36003768	**AL-2F60C-R3.75**	R3.75	15	60	8	160
36003770	**AL-2F60C-R4.25**	R4.25	17	75	10	260
36003772	**AL-2F60C-R4.5**	R4.5	18	75	10	260
36003774	**AL-2F60C-R4.75**	R4.75	19	75	10	260
36003776	**AL-2F60C-R5.5**	R5.5	22	75	12	445
36003778	**AL-2F60C-R6.5**	R6.5	26	100	14	775

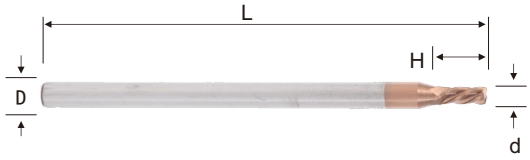
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36003800	**2F60C-R0.15**	R0.15	0.6	50	3	60
36003802	**2F60C-R0.15**	R0.15	0.6	50	4	60
36003804	**2F60C-R0.2**	R0.2	0.8	50	3	60
36003806	**2F60C-R0.2**	R0.2	0.8	50	4	60
36003808	**2F60C-R0.25**	R0.25	1	50	3	60
36003810	**2F60C-R0.25**	R0.25	1	50	4	60
36003812	**2F60C-R0.3**	R0.3	1.2	50	3	60
36003814	**2F60C-R0.3**	R0.3	1.2	50	4	60
36003816	**2F60C-R0.35**	R0.35	1.4	50	3	60
36003818	**2F60C-R0.35**	R0.35	1.4	50	4	60
36003820	**2F60C-R0.4**	R0.4	1.6	50	3	60
36003822	**2F60C-R0.4**	R0.4	1.6	50	4	60
36003824	**2F60C-R0.45**	R0.45	1.8	50	3	60
36003826	**2F60C-R0.45**	R0.45	1.8	50	4	60
36003828	**2F60C-R0.55**	R0.55	2.2	50	4	90
36003830	**2F60C-R0.6**	R0.6	2.4	50	4	90
36003832	**2F60C-R0.65**	R0.65	2.6	50	4	90
36003834	**2F60C-R0.7**	R0.7	2.8	50	4	90
36003836	**2F60C-R0.8**	R0.8	3.2	50	4	90
36003838	**2F60C-R0.85**	R0.85	3.4	50	4	90
36003840	**2F60C-R0.9**	R0.9	3.6	50	4	90
36003842	**2F60C-R0.95**	R0.95	3.8	50	4	90
36003844	**2F60C-R1.05**	R1.05	4.2	50	4	90
36003846	**2F60C-R1.1**	R1.1	4.4	50	4	90
36003848	**2F60C-R1.15**	R1.15	4.6	50	4	90
36003850	**2F60C-R1.2**	R1.2	4.8	50	4	90
36003852	**2F60C-R1.3**	R1.3	5.2	50	4	90
36003854	**2F60C-R1.35**	R1.35	5.4	50	4	90
36003856	**2F60C-R1.4**	R1.4	5.6	50	4	90
36003858	**2F60C-R1.45**	R1.45	5.8	50	4	90
36003860	**2F60C-R2.25**	R2.25	9	50	6	90
36003862	**2F60C-R2.75**	R2.75	11	50	6	90
36003864	**2F60C-R3.25**	R3.25	13	60	8	160
36003866	**2F60C-R3.5**	R3.5	14	60	8	160
36003868	**2F60C-R3.75**	R3.75	15	60	8	160
36003870	**2F60C-R4.25**	R4.25	17	75	10	260
36003872	**2F60C-R4.5**	R4.5	18	75	10	260
36003874	**2F60C-R4.75**	R4.75	19	75	10	260
36003876	**2F60C-R5.5**	R5.5	22	75	12	445
36003878	**2F60C-R6.5**	R6.5	26	100	14	775

4刃钨钢平底立铣刀-无涂层
4 Edge Tungsten Steel Uncoated End Milling Cutter
应用：铣削钢和铜、铝等有色金属材料
Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm) d	H	L	D	单价 (RMB) Price
36003900	**AL-4F55C-1.1**	Ø1.1	2.2	50	4	90
36003902	**AL-4F55C-1.2**	Ø1.2	2.4	50	4	90
36003904	**AL-4F55C-1.3**	Ø1.3	2.6	50	4	90
36003906	**AL-4F55C-1.4**	Ø1.4	2.8	50	4	90
36003908	**AL-4F55C-1.6**	Ø1.6	3.2	50	4	90
36003910	**AL-4F55C-1.7**	Ø1.7	3.4	50	4	90
36003912	**AL-4F55C-1.8**	Ø1.8	3.6	50	4	90
36003914	**AL-4F55C-1.9**	Ø1.9	3.8	50	4	90
36003916	**AL-4F55C-2.1**	Ø2.1	4.2	50	4	90
36003918	**AL-4F55C-2.2**	Ø2.2	4.4	50	4	90
36003920	**AL-4F55C-2.3**	Ø2.3	4.6	50	4	90
36003922	**AL-4F55C-2.4**	Ø2.4	4.8	50	4	90
36003924	**AL-4F55C-2.6**	Ø2.6	5.2	50	4	90
36003926	**AL-4F55C-2.7**	Ø2.7	5.4	50	4	90
36003928	**AL-4F55C-2.8**	Ø2.8	5.6	50	4	90
36003930	**AL-4F55C-2.9**	Ø2.9	5.8	50	4	90
36003932	**AL-4F55C-4.5**	Ø4.5	9	50	6	90
36003934	**AL-4F55C-5.5**	Ø5.5	11	50	6	90
36003936	**AL-4F55C-6.5**	Ø6.5	13	60	8	160
36003938	**AL-4F55C-7**	Ø7	14	60	8	160
36003940	**AL-4F55C-7.5**	Ø7.5	15	60	8	160
36003942	**AL-4F55C-8.5**	Ø8.5	17	75	10	260
36003944	**AL-4F55C-9**	Ø9	18	75	10	260
36003946	**AL-4F55C-9.5**	Ø9.5	19	75	10	260
36003948	**AL-4F55C-11**	Ø11	22	75	12	445
36003950	**AL-4F55C-13**	Ø13	26	100	14	775

4刃钨钢平底立铣刀-纳米涂层
4 Edge Tungsten Steel Coated End Milling Cutter
应用：铣削HRC55°钢、铸铁及不锈钢等材料
Application: Milling HRC60 ° steel, cast iron and stainless steel



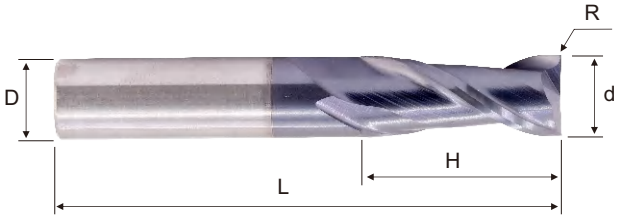
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm) d	H	L	D	单价 (RMB) Price
36004000	**4F55C-1.1**	Ø1.1	2.2	50	4	90
36004002	**4F55C-1.2**	Ø1.2	2.4	50	4	90
36004004	**4F55C-1.3**	Ø1.3	2.6	50	4	90
36004006	**4F55C-1.4**	Ø1.4	2.8	50	4	90
36004008	**4F55C-1.6**	Ø1.6	3.2	50	4	90
36004010	**4F55C-1.7**	Ø1.7	3.4	50	4	90
36004012	**4F55C-1.8**	Ø1.8	3.6	50	4	90
36004014	**4F55C-1.9**	Ø1.9	3.8	50	4	90
36004016	**4F55C-2.1**	Ø2.1	4.2	50	4	90
36004018	**4F55C-2.2**	Ø2.2	4.4	50	4	90
36004020	**4F55C-2.3**	Ø2.3	4.6	50	4	90
36004022	**4F55C-2.4**	Ø2.4	4.8	50	4	90
36004024	**4F55C-2.6**	Ø2.6	5.2	50	4	90
36004026	**4F55C-2.7**	Ø2.7	5.4	50	4	90
36004028	**4F55C-2.8**	Ø2.8	5.6	50	4	90
36004030	**4F55C-2.9**	Ø2.9	5.8	50	4	90
36004032	**4F55C-4.5**	Ø4.5	9	50	6	90
36004034	**4F55C-5.5**	Ø5.5	11	50	6	90
36004036	**4F55C-6.5**	Ø6.5	13	60	8	160
36004038	**4F55C-7**	Ø7	14	60	8	160
36004040	**4F55C-7.5**	Ø7.5	15	60	8	160
36004042	**4F55C-8.5**	Ø8.5	17	75	10	260
36004044	**4F55C-9**	Ø9	18	75	10	260
36004046	**4F55C-9.5**	Ø9.5	19	75	10	260
36004048	**4F55C-11**	Ø11	22	75	12	445
36004050	**4F55C-13**	Ø13	26	100	14	775

2刃 HRC45° 平底圆角钨钢立铣刀

2 Edge HRC45° Coated Tungsten Steel Round Angle End Mill

应用：切削加工HRC45°.以下钢材

Application: Milling the steel hardness under HRC45°.



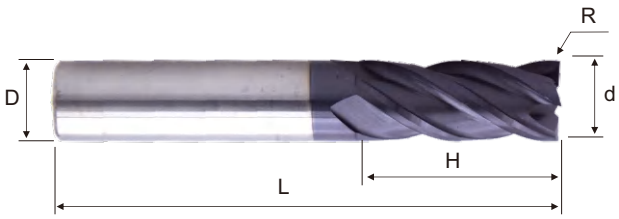
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	R	H	L	D	
36001500	**2F45C-1R0.2**	Ø1	R0.2	2	50	4	50
36001502	**2F45C-1.5R0.2**	Ø1.5	R0.2	3	50	4	50
36001504	**2F45C-1.5R0.2**	Ø1.5	R0.2	3	50	4	50
36001506	**2F45C-2R0.2**	Ø2	R0.2	4	50	4	50
36001508	**2F45C-2R0.5**	Ø2	R0.5	4	50	4	50
36001510	**2F45C-2.5R0.2**	Ø2.5	R0.2	5	50	4	50
36001512	**2F45C-2.5R0.5**	Ø2.5	R0.5	5	50	4	50
36001514	**2F45C-3R0.2**	Ø3	R0.2	6	50	4	50
36001516	**2F45C-3R0.5**	Ø3	R0.5	6	50	4	50
36001518	**2F45C-3R1**	Ø3	R1.0	6	50	4	50
36001520	**2F45C-4R0.2**	Ø4	R0.2	8	50	4	50
36001522	**2F45C-4R0.5**	Ø4	R0.5	8	50	4	50
36001524	**2F45C-4R1**	Ø4	R1.0	8	50	4	50
36001526	**2F45C-5R0.5**	Ø5	R0.5	10	50	6	95
36001528	**2F45C-5R1.0**	Ø5	R1.0	10	50	6	95
36001530	**2F45C-6R0.2**	Ø6	R0.2	12	50	6	95
36001532	**2F45C-6R0.5**	Ø6	R0.5	12	50	6	95
36001534	**2F45C-6R1**	Ø6	R1.0	12	50	6	95
36001536	**2F45C-6R1.5**	Ø6	R1.5	12	50	6	95
36001538	**2F45C-6R2**	Ø6	R2.0	12	50	8	155
36001540	**2F45C-8R0.5**	Ø8	R0.5	16	60	8	155
36001542	**2F45C-8R1.0**	Ø8	R1.0	16	60	8	155
36001544	**2F45C-8R1.5**	Ø8	R1.5	16	60	8	155
36001546	**2F45C-8R2**	Ø8	R2.0	16	60	8	155
36001548	**2F45C-10R0.5**	Ø10	R0.5	20	75	10	245
36001550	**2F45C-10R1**	Ø10	R1.0	20	75	10	245
36001552	**2F45C-10R1.5**	Ø10	R1.5	20	75	10	245
36001554	**2F45C-10R2**	Ø10	R2.0	20	75	10	245
36001556	**2F45C-10R2.5**	Ø10	R2.5	20	75	10	245
36001558	**2F45C-10R3**	Ø10	R3.0	20	75	10	245
36001560	**2F45C-12R0.5**	Ø12	R0.5	24	75	12	320
36001562	**2F45C-12R1**	Ø12	R1.0	24	75	12	320
36001564	**2F45C-12R1.5**	Ø12	R1.5	24	75	12	320
36001566	**2F45C-12R2**	Ø12	R2.0	24	75	12	320
36001568	**2F45C-12R2.5**	Ø12	R2.5	24	75	12	320
36001570	**2F45C-12R3**	Ø12	R3.0	24	75	12	320

4刃 HRC45° 平底圆角钨钢立铣刀

4 Edge HRC45° Coated Tungsten Steel Round Angle End Mill

应用：切削加工HRC45°.以下钢材

Application: Milling the steel hardness under HRC45°.



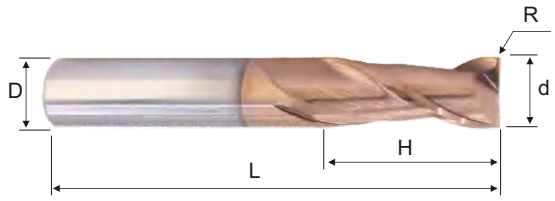
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	R	H	L	D	
36001600	**4F45C-1R0.2**	Ø1	R0.2	2	50	4	50
36001602	**4F45C-1.5R0.2**	Ø1.5	R0.2	3	50	4	50
36001604	**4F45C-1.5R0.2**	Ø1.5	R0.2	3	50	4	50
36001606	**4F45C-2R0.2**	Ø2	R0.2	4	50	4	50
36001608	**4F45C-2R0.5**	Ø2	R0.5	4	50	4	50
36001610	**4F45C-2.5R0.2**	Ø2.5	R0.2	5	50	4	50
36001612	**4F45C-2.5R0.5**	Ø2.5	R0.5	5	50	4	50
36001614	**4F45C-3R0.2**	Ø3	R0.2	6	50	4	50
36001616	**4F45C-3R0.5**	Ø3	R0.5	6	50	4	50
36001618	**4F45C-3R1**	Ø3	R1.0	6	50	4	50
36001620	**4F45C-4R0.2**	Ø4	R0.2	8	50	4	50
36001622	**4F45C-4R0.5**	Ø4	R0.5	8	50	4	50
36001624	**4F45C-4R1**	Ø4	R1.0	8	50	4	50
36001626	**4F45C-5R0.5**	Ø5	R0.5	10	50	6	95
36001628	**4F45C-5R1.0**	Ø5	R1.0	10	50	6	95
36001630	**4F45C-6R0.2**	Ø6	R0.2	12	50	6	95
36001632	**4F45C-6R0.5**	Ø6	R0.5	12	50	6	95
36001634	**4F45C-6R1**	Ø6	R1.0	12	50	6	95
36001636	**4F45C-6R1.5**	Ø6	R1.5	12	50	6	95
36001638	**4F45C-6R2**	Ø6	R2.0	12	50	8	155
36001640	**4F45C-8R0.5**	Ø8	R0.5	16	60	8	155
36001642	**4F45C-8R1.0**	Ø8	R1.0	16	60	8	155
36001644	**4F45C-8R1.5**	Ø8	R1.5	16	60	8	155
36001646	**4F45C-8R2**	Ø8	R2.0	16	60	8	155
36001648	**4F45C-10R0.5**	Ø10	R0.5	20	75	10	245
36001650	**4F45C-10R1**	Ø10	R1.0	20	75	10	245
36001652	**4F45C-10R1.5**	Ø10	R1.5	20	75	10	245
36001654	**4F45C-10R2**	Ø10	R2.0	20	75	10	245
36001656	**4F45C-10R2.5**	Ø10	R2.5	20	75	10	245
36001658	**4F45C-10R3**	Ø10	R3.0	20	75	10	245
36001660	**4F45C-12R0.5**	Ø12	R0.5	24	75	12	320
36001662	**4F45C-12R1**	Ø12	R1.0	24	75	12	320
36001664	**4F45C-12R1.5**	Ø12	R1.5	24	75	12	320
36001666	**4F45C-12R2**	Ø12	R2.0	24	75	12	320
36001668	**4F45C-12R2.5**	Ø12	R2.5	24	75	12	320
36001670	**4F45C-12R3**	Ø12	R3.0	24	75	12	320

2刃 HRC50° 平底圆角钨钢立铣刀

2 Edge HRC50° Coated Tungsten Steel Round Angle End Mill

应用：切削加工HRC50°.以下钢材

Application: Milling the steel hardness under HRC50°.



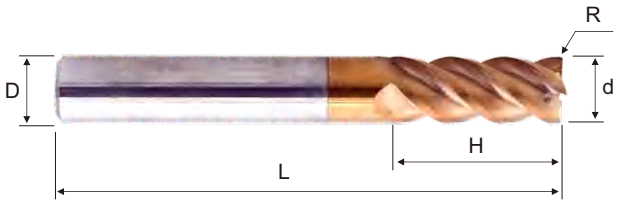
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	R	H	L	D	
36001700	**2F50C-1R0.2**	Ø1	R0.2	2	50	4	65
36001702	**2F50C-1.5R0.2**	Ø1.5	R0.2	3	50	4	65
36001704	**2F50C-1.5R0.2**	Ø1.5	R0.2	3	50	4	65
36001706	**2F50C-2R0.2**	Ø2	R0.2	4	50	4	65
36001708	**2F50C-2R0.5**	Ø2	R0.5	4	50	4	65
36001710	**2F50C-2.5R0.2**	Ø2.5	R0.2	5	50	4	65
36001712	**2F50C-2.5R0.5**	Ø2.5	R0.5	5	50	4	65
36001714	**2F50C-3R0.2**	Ø3	R0.2	6	50	4	65
36001716	**2F50C-3R0.5**	Ø3	R0.5	6	50	4	65
36001718	**2F50C-3R1**	Ø3	R1.0	6	50	4	65
36001720	**2F50C-4R0.2**	Ø4	R0.2	8	50	4	65
36001722	**2F50C-4R0.5**	Ø4	R0.5	8	50	4	65
36001724	**2F50C-4R1**	Ø4	R1.0	8	50	4	65
36001726	**2F50C-5R0.5**	Ø5	R0.5	10	50	6	112.5
36001728	**2F50C-5R1.0**	Ø5	R1.0	10	50	6	112.5
36001730	**2F50C-6R0.2**	Ø6	R0.2	12	50	6	112.5
36001732	**2F50C-6R0.5**	Ø6	R0.5	12	50	6	112.5
36001734	**2F50C-6R1**	Ø6	R1.0	12	50	6	112.5
36001736	**2F50C-6R1.5**	Ø6	R1.5	12	50	6	112.5
36001738	**2F50C-6R2**	Ø6	R2.0	12	50	8	172.5
36001740	**2F50C-8R0.5**	Ø8	R0.5	16	60	8	172.5
36001742	**2F50C-8R1.0**	Ø8	R1.0	16	60	8	172.5
36001744	**2F50C-8R1.5**	Ø8	R1.5	16	60	8	172.5
36001746	**2F50C-8R2**	Ø8	R2.0	16	60	8	172.5
36001748	**2F50C-10R0.5**	Ø10	R0.5	20	75	10	295
36001750	**2F50C-10R1**	Ø10	R1.0	20	75	10	295
36001752	**2F50C-10R1.5**	Ø10	R1.5	20	75	10	295
36001754	**2F50C-10R2**	Ø10	R2.0	20	75	10	295
36001756	**2F50C-10R2.5**	Ø10	R2.5	20	75	10	295
36001758	**2F50C-10R3**	Ø10	R3.0	20	75	10	295
36001760	**2F50C-12R0.5**	Ø12	R0.5	24	75	12	405
36001762	**2F50C-12R1**	Ø12	R1.0	24	75	12	405
36001764	**2F50C-12R1.5**	Ø12	R1.5	24	75	12	405
36001766	**2F50C-12R2**	Ø12	R2.0	24	75	12	405
36001768	**2F50C-12R2.5**	Ø12	R2.5	24	75	12	405
36001770	**2F50C-12R3**	Ø12	R3.0	24	75	12	405

4刃 HRC50° 平底圆角钨钢立铣刀

4 Edge HRC50° Coated Tungsten Steel Round Angle End Mill

应用：切削加工HRC50°.以下钢材

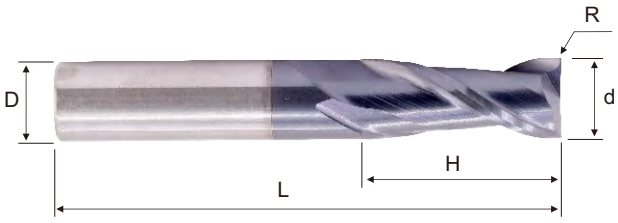
Application: Milling the steel hardness under HRC50°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	R	H	L	D	
36001800	**4F50C-1R0.2**	Ø1	R0.2	2	50	4	65
36001802	**4F50C-1.5R0.2**	Ø1.5	R0.2	3	50	4	65
36001804	**4F50C-1.5R0.2**	Ø1.5	R0.2	3	50	4	65
36001806	**4F50C-2R0.2**	Ø2	R0.2	4	50	4	65
36001808	**4F50C-2R0.5**	Ø2	R0.5	4	50	4	65
36001810	**4F50C-2.5R0.2**	Ø2.5	R0.2	5	50	4	65
36001812	**4F50C-2.5R0.5**	Ø2.5	R0.5	5	50	4	65
36001814	**4F50C-3R0.2**	Ø3	R0.2	6	50	4	65
36001816	**4F50C-3R0.5**	Ø3	R0.5	6	50	4	65
36001818	**4F50C-3R1**	Ø3	R1.0	6	50	4	65
36001820	**4F50C-4R0.2**	Ø4	R0.2	8	50	4	65
36001822	**4F50C-4R0.5**	Ø4	R0.5	8	50	4	65
36001824	**4F50C-4R1**	Ø4	R1.0	8	50	4	65
36001826	**4F50C-5R0.5**	Ø5	R0.5	10	50	6	112.5
36001828	**4F50C-5R1.0**	Ø5	R1.0	10	50	6	112.5
36001830	**4F50C-6R0.2**	Ø6	R0.2	12	50	6	112.5
36001832	**4F50C-6R0.5**	Ø6	R0.5	12	50	6	112.5
36001834	**4F50C-6R1**	Ø6	R1.0	12	50	6	112.5
36001836	**4F50C-6R1.5**	Ø6	R1.5	12	50	6	112.5
36001838	**4F50C-6R2**	Ø6	R2.0	12	50	8	172.5
36001840	**4F50C-8R0.5**	Ø8	R0.5	16	60	8	172.5
36001842	**4F50C-8R1.0**	Ø8	R1.0	16	60	8	172.5
36001844	**4F50C-8R1.5**	Ø8	R1.5	16	60	8	172.5
36001846	**4F50C-8R2**	Ø8	R2.0	16	60	8	172.5
36001848	**4F50C-10R0.5**	Ø10	R0.5	20	75	10	295
36001850	**4F50C-10R1**	Ø10	R1.0	20	75	10	295
36001852	**4F50C-10R1.5**	Ø10	R1.5	20	75	10	295
36001854	**4F50C-10R2**	Ø10	R2.0	20	75	10	295
36001856	**4F50C-10R2.5**	Ø10	R2.5	20	75	10	295
36001858	**4F50C-10R3**	Ø10	R3.0	20	75	10	295
36001860	**4F50C-12R0.5**	Ø12	R0.5	24	75	12	405
36001862	**4F50C-12R1**	Ø12	R1.0	24	75	12	405
36001864	**4F50C-12R1.5**	Ø12	R1.5	24	75	12	405
36001866	**4F50C-12R2**	Ø12	R2.0	24	75	12	405
36001868	**4F50C-12R2.5**	Ø12	R2.5	24	75	12	405
36001870	**4F50C-12R3**	Ø12	R3.0	24	75	12	405

2刃 HRC55° 平底圆角钨钢立铣刀
2 Edge HRC55° Coated Tungsten Steel Round Angle End Mill

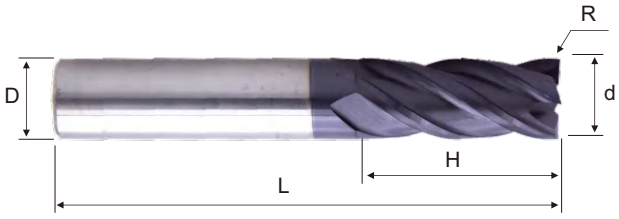
应用：切削加工HRC55°.以下钢材
Application: Milling the steel hardness under HRC55°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	R	H	L	D	
36001900	2F55C-1R0.2	Ø1	R0.2	2	50	4	80
36001902	2F55C-1.5R0.2	Ø1.5	R0.2	3	50	4	80
36001904	2F55C-1.5R0.2	Ø1.5	R0.2	3	50	4	80
36001906	2F55C-2R0.2	Ø2	R0.2	4	50	4	80
36001908	2F55C-2R0.5	Ø2	R0.5	4	50	4	80
36001910	2F55C-2.5R0.2	Ø2.5	R0.2	5	50	4	80
36001912	2F55C-2.5R0.5	Ø2.5	R0.5	5	50	4	80
36001914	2F55C-3R0.2	Ø3	R0.2	6	50	4	80
36001916	2F55C-3R0.5	Ø3	R0.5	6	50	4	80
36001918	2F55C-3R1	Ø3	R1.0	6	50	4	80
36001920	2F55C-4R0.2	Ø4	R0.2	8	50	4	80
36001922	2F55C-4R0.5	Ø4	R0.5	8	50	4	80
36001924	2F55C-4R1	Ø4	R1.0	8	50	4	80
36001926	2F55C-5R0.5	Ø5	R0.5	10	50	6	125
36001928	2F55C-5R1.0	Ø5	R1.0	10	50	6	125
36001930	2F55C-6R0.2	Ø6	R0.2	12	50	6	125
36001932	2F55C-6R0.5	Ø6	R0.5	12	50	6	125
36001934	2F55C-6R1	Ø6	R1.0	12	50	6	125
36001936	2F55C-6R1.5	Ø6	R1.5	12	50	6	125
36001938	2F55C-6R2	Ø6	R2.0	12	50	8	202.5
36001940	2F55C-8R0.5	Ø8	R0.5	16	60	8	202.5
36001942	2F55C-8R1.0	Ø8	R1.0	16	60	8	202.5
36001944	2F55C-8R1.5	Ø8	R1.5	16	60	8	202.5
36001946	2F55C-8R2	Ø8	R2.0	16	60	8	202.5
36001948	2F55C-10R0.5	Ø10	R0.5	20	75	10	345
36001950	2F55C-10R1	Ø10	R1.0	20	75	10	345
36001952	2F55C-10R1.5	Ø10	R1.5	20	75	10	345
36001954	2F55C-10R2	Ø10	R2.0	20	75	10	345
36001956	2F55C-10R2.5	Ø10	R2.5	20	75	10	345
36001958	2F55C-10R3	Ø10	R3.0	20	75	10	345
36001960	2F55C-12R0.5	Ø12	R0.5	24	75	12	487.5
36001962	2F55C-12R1	Ø12	R1.0	24	75	12	487.5
36001964	2F55C-12R1.5	Ø12	R1.5	24	75	12	487.5
36001966	2F55C-12R2	Ø12	R2.0	24	75	12	487.5
36001968	2F55C-12R2.5	Ø12	R2.5	24	75	12	487.5
36001970	2F55C-12R3	Ø12	R3.0	24	75	12	487.5

4刃 HRC55° 平底圆角钨钢立铣刀
4 Edge HRC55° Coated Tungsten Steel Round Angle End Mill

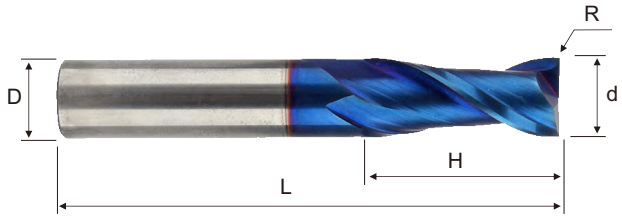
应用：切削加工HRC55°.以下钢材
Application: Milling the steel hardness under HRC55°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	R	H	L	D	
36002000	4F55C-1R0.2	Ø1	R0.2	2	50	4	80
36002002	4F55C-1.5R0.2	Ø1.5	R0.2	3	50	4	80
36002004	4F55C-1.5R0.2	Ø1.5	R0.2	3	50	4	80
36002006	4F55C-2R0.2	Ø2	R0.2	4	50	4	80
36002008	4F55C-2R0.5	Ø2	R0.5	4	50	4	80
36002010	4F55C-2.5R0.2	Ø2.5	R0.2	5	50	4	80
36002012	4F55C-2.5R0.5	Ø2.5	R0.5	5	50	4	80
36002014	4F55C-3R0.2	Ø3	R0.2	6	50	4	80
36002016	4F55C-3R0.5	Ø3	R0.5	6	50	4	80
36002018	4F55C-3R1	Ø3	R1.0	6	50	4	80
36002020	4F55C-4R0.2	Ø4	R0.2	8	50	4	80
36002022	4F55C-4R0.5	Ø4	R0.5	8	50	4	80
36002024	4F55C-4R1	Ø4	R1.0	8	50	4	80
36002026	4F55C-5R0.5	Ø5	R0.5	10	50	6	125
36002028	4F55C-5R1.0	Ø5	R1.0	10	50	6	125
36002030	4F55C-6R0.2	Ø6	R0.2	12	50	6	125
36002032	4F55C-6R0.5	Ø6	R0.5	12	50	6	125
36002034	4F55C-6R1	Ø6	R1.0	12	50	6	125
36002036	4F55C-6R1.5	Ø6	R1.5	12	50	6	125
36002038	4F55C-6R2	Ø6	R2.0	12	50	8	202.5
36002040	4F55C-8R0.5	Ø8	R0.5	16	60	8	202.5
36002042	4F55C-8R1.0	Ø8	R1.0	16	60	8	202.5
36002044	4F55C-8R1.5	Ø8	R1.5	16	60	8	202.5
36002046	4F55C-8R2	Ø8	R2.0	16	60	8	202.5
36002048	4F55C-10R0.5	Ø10	R0.5	20	75	10	345
36002050	4F55C-10R1	Ø10	R1.0	20	75	10	345
36002052	4F55C-10R1.5	Ø10	R1.5	20	75	10	345
36002054	4F55C-10R2	Ø10	R2.0	20	75	10	345
36002056	4F55C-10R2.5	Ø10	R2.5	20	75	10	345
36002058	4F55C-10R3	Ø10	R3.0	20	75	10	345
36002060	4F55C-12R0.5	Ø12	R0.5	24	75	12	487.5
36002062	4F55C-12R1	Ø12	R1.0	24	75	12	487.5
36002064	4F55C-12R1.5	Ø12	R1.5	24	75	12	487.5
36002066	4F55C-12R2	Ø12	R2.0	24	75	12	487.5
36002068	4F55C-12R2.5	Ø12	R2.5	24	75	12	487.5
36002070	4F55C-12R3	Ø12	R3.0	24	75	12	487.5

2刃 HRC65° 平底圆角钨钢立铣刀
2 Edge HRC65° Coated Tungsten Steel Round Angle End Mill

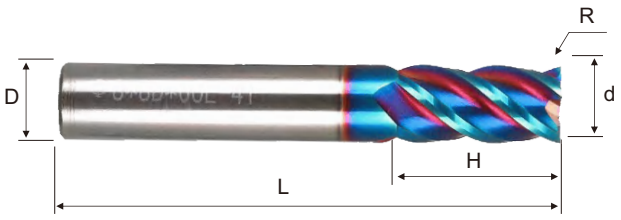
应用：切削加工不锈钢及HRC65°以下钢材
Application: Milling Stainless Steel And Steel Hardness Under HRC65°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	R	H	L	D	
36002300	2F65C-1R0.2	Ø1	R0.2	2	50	4	115
36002302	2F65C-1.5R0.2	Ø1.5	R0.2	3	50	4	115
36002304	2F65C-1.5R0.2	Ø1.5	R0.2	3	50	4	115
36002306	2F65C-2R0.2	Ø2	R0.2	4	50	4	115
36002308	2F65C-2R0.5	Ø2	R0.5	4	50	4	115
36002310	2F65C-2.5R0.2	Ø2.5	R0.2	5	50	4	115
36002312	2F65C-2.5R0.5	Ø2.5	R0.5	5	50	4	115
36002314	2F65C-3R0.2	Ø3	R0.2	6	50	4	115
36002316	2F65C-3R0.5	Ø3	R0.5	6	50	4	115
36002318	2F65C-3R1	Ø3	R1.0	6	50	4	115
36002320	2F65C-4R0.2	Ø4	R0.2	8	50	4	115
36002322	2F65C-4R0.5	Ø4	R0.5	8	50	4	115
36002324	2F65C-4R1	Ø4	R1.0	8	50	4	115
36002326	2F65C-5R0.5	Ø5	R0.5	10	50	6	192.5
36002328	2F65C-5R1.0	Ø5	R1.0	10	50	6	192.5
36002330	2F65C-6R0.2	Ø6	R0.2	12	50	6	192.5
36002332	2F65C-6R0.5	Ø6	R0.5	12	50	6	192.5
36002334	2F65C-6R1	Ø6	R1.0	12	50	6	192.5
36002336	2F65C-6R1.5	Ø6	R1.5	12	50	6	192.5
36002338	2F65C-6R2	Ø6	R2.0	12	50	8	312.5
36002340	2F65C-8R0.5	Ø8	R0.5	16	60	8	312.5
36002342	2F65C-8R1.0	Ø8	R1.0	16	60	8	312.5
36002344	2F65C-8R1.5	Ø8	R1.5	16	60	8	312.5
36002346	2F65C-8R2	Ø8	R2.0	16	60	8	312.5
36002348	2F65C-10R0.5	Ø10	R0.5	20	75	10	495
36002350	2F65C-10R1	Ø10	R1.0	20	75	10	495
36002352	2F65C-10R1.5	Ø10	R1.5	20	75	10	495
36002354	2F65C-10R2	Ø10	R2.0	20	75	10	495
36002356	2F65C-10R2.5	Ø10	R2.5	20	75	10	495
36002358	2F65C-10R3	Ø10	R3.0	20	75	10	495
36002360	2F65C-12R0.5	Ø12	R0.5	24	75	12	615
36002362	2F65C-12R1	Ø12	R1.0	24	75	12	615
36002364	2F65C-12R1.5	Ø12	R1.5	24	75	12	615
36002366	2F65C-12R2	Ø12	R2.0	24	75	12	615
36002368	2F65C-12R2.5	Ø12	R2.5	24	75	12	615
36002370	2F65C-12R3	Ø12	R3.0	24	75	12	615

4刃 HRC65° 平底圆角钨钢立铣刀
4 Edge HRC65° Coated Tungsten Steel Round Angle End Mill

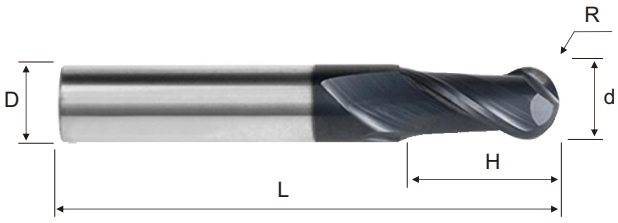
应用：切削加工不锈钢及HRC65°以下钢材
Application: Milling Stainless Steel And Steel Hardness Under HRC65°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)					单价 (RMB) Price
		d	R	H	L	D	
36002400	4F65C-1R0.2	Ø1	R0.2	2	50	4	115
36002402	4F65C-1.5R0.2	Ø1.5	R0.2	3	50	4	115
36002404	4F65C-1.5R0.2	Ø1.5	R0.2	3	50	4	115
36002406	4F65C-2R0.2	Ø2	R0.2	4	50	4	115
36002408	4F65C-2R0.5	Ø2	R0.5	4	50	4	115
36002410	4F65C-2.5R0.2	Ø2.5	R0.2	5	50	4	115
36002412	4F65C-2.5R0.5	Ø2.5	R0.5	5	50	4	115
36002414	4F65C-3R0.2	Ø3	R0.2	6	50	4	115
36002416	4F65C-3R0.5	Ø3	R0.5	6	50	4	115
36002418	4F65C-3R1	Ø3	R1.0	6	50	4	115
36002420	4F65C-4R0.2	Ø4	R0.2	8	50	4	115
36002422	4F65C-4R0.5	Ø4	R0.5	8	50	4	115
36002424	4F65C-4R1	Ø4	R1.0	8	50	4	115
36002426	4F65C-5R0.5	Ø5	R0.5	10	50	6	192.5
36002428	4F65C-5R1.0	Ø5	R1.0	10	50	6	192.5
36002430	4F65C-6R0.2	Ø6	R0.2	12	50	6	192.5
36002432	4F65C-6R0.5	Ø6	R0.5	12	50	6	192.5
36002434	4F65C-6R1	Ø6	R1.0	12	50	6	192.5
36002436	4F65C-6R1.5	Ø6	R1.5	12	50	6	192.5
36002438	4F65C-6R2	Ø6	R2.0	12	50	8	312.5
36002440	4F65C-8R0.5	Ø8	R0.5	16	60	8	312.5
36002442	4F65C-8R1.0	Ø8	R1.0	16	60	8	312.5
36002444	4F65C-8R1.5	Ø8	R1.5	16	60	8	312.5
36002446	4F65C-8R2	Ø8	R2.0	16	60	8	312.5
36002448	4F65C-10R0.5	Ø10	R0.5	20	75	10	495
36002450	4F65C-10R1	Ø10	R1.0	20	75	10	495
36002452	4F65C-10R1.5	Ø10	R1.5	20	75	10	495
36002454	4F65C-10R2	Ø10	R2.0	20	75	10	495
36002456	4F65C-10R2.5	Ø10	R2.5	20	75	10	495
36002458	4F65C-10R3	Ø10	R3.0	20	75	10	495
36002460	4F65C-12R0.5	Ø12	R0.5	24	75	12	615
36002462	4F65C-12R1	Ø12	R1.0	24	75	12	615
36002464	4F65C-12R1.5	Ø12	R1.5	24	75	12	615
36002466	4F65C-12R2	Ø12	R2.0	24	75	12	615
36002468	4F65C-12R2.5	Ø12	R2.5	24	75	12	615
36002470	4F65C-12R3	Ø12	R3.0	24	75	12	615

2刃 HRC45° 球头钨钢立铣刀
2 Edge HRC45° Tungsten Steel Coated Ball End Milling Cutter

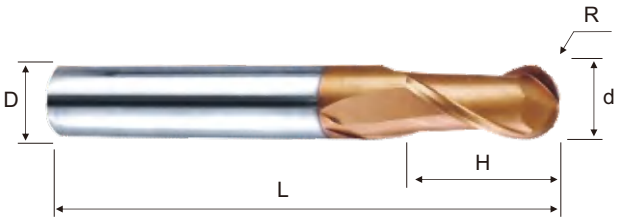
应用：切削加工HRC45°.以下钢材
Application: Milling the steel hardness under HRC45°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36001000	2F45C-R0.5X50	R0.5	2	50	4	27.5
36001002	2F45C-R0.75X50	R0.75	3	50	4	27.5
36001004	2F45C-R1X50	R1	4	50	4	27.5
36001006	2F45C-R1.25X50	R1.25	5	50	4	27.5
36001008	2F45C-R1.5X3X50	R1.5	6	50	3	27.5
36001010	2F45C-R1.5X4X50	R1.5	6	50	4	27.5
36001012	2F45C-R1.75X50	R1.75	7	50	4	27.5
36001014	2F45C-R2X50	R2	8	50	4	27.5
36001016	2F45C-R2X75	R2	8	75	4	40
36001018	2F45C-R2X100	R2	8	100	4	45
36001020	2F45C-R2.5X5X50	R2.5	10	50	5	55
36001022	2F45C-R2.5X6X50	R2.5	10	50	6	55
36001024	2F45C-R3X50	R3	12	50	6	55
36001026	2F45C-R3X75	R3	12	75	6	70
36001028	2F45C-R3X100	R3	12	100	6	85
36001030	2F45C-R3X150	R3	12	150	6	190
36001032	2F45C-R4X60	R4	16	60	8	95
36001034	2F45C-R4X75	R4	16	75	8	115
36001036	2F45C-R4X100	R4	16	100	8	135
36001038	2F45C-R4X150	R4	16	150	8	300
36001040	2F45C-R5X75	R5	20	75	10	160
36001042	2F45C-R5X100	R5	20	100	10	205
36001044	2F45C-R5X150	R5	20	150	10	450
36001046	2F45C-R6X75	R6	24	75	12	200
36001048	2F45C-R6X100	R6	24	100	12	275
36001050	2F45C-R6X150	R6	24	150	12	545
36001052	2F45C-R7X100	R7	30	100	14	430
36001054	2F45C-R7X150	R7	30	150	14	800
36001056	2F45C-R8X100	R8	30	100	16	525
36001058	2F45C-R8X150	R8	30	150	16	1000
36001060	2F45C-R8X200	R8	30	200	16	1750
36001062	2F45C-R9X100	R9	30	100	18	685
36001064	2F45C-R9X150	R9	30	150	18	1175
36001066	2F45C-R10X100	R10	30	100	20	775
36001068	2F45C-R10X150	R10	30	150	20	1370
36001070	2F45C-R10X200	R10	30	200	20	2250

2刃 HRC50° 球头钨钢立铣刀
2 Edge HRC50° Tungsten Steel Coated Ball End Milling Cutter

应用：切削加工HRC50°.以下钢材
Application: Milling the steel hardness under HRC50°.



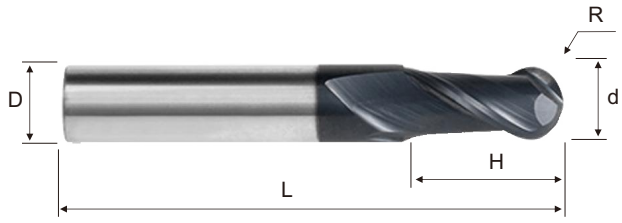
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36001100	2F50C-R0.5X50	R0.5	2	50	4	40
36001102	2F50C-R0.75X50	R0.75	3	50	4	40
36001104	2F50C-R1X50	R1	4	50	4	40
36001106	2F50C-R1.25X50	R1.25	5	50	4	40
36001108	2F50C-R1.5X3X50	R1.5	6	50	3	40
36001110	2F50C-R1.5X4X50	R1.5	6	50	4	40
36001112	2F50C-R1.75X50	R1.75	7	50	4	40
36001114	2F50C-R2X50	R2	8	50	4	40
36001116	2F50C-R2X75	R2	8	75	4	65
36001118	2F50C-R2X100	R2	8	100	4	72.5
36001120	2F50C-R2.5X5X50	R2.5	10	50	5	70
36001122	2F50C-R2.5X6X50	R2.5	10	50	6	70
36001124	2F50C-R3X50	R3	12	50	6	70
36001126	2F50C-R3X75	R3	12	75	6	110
36001128	2F50C-R3X100	R3	12	100	6	130
36001130	2F50C-R3X150	R3	12	150	6	275
36001132	2F50C-R4X60	R4	16	60	8	125
36001134	2F50C-R4X75	R4	16	75	8	165
36001136	2F50C-R4X100	R4	16	100	8	205
36001138	2F50C-R4X150	R4	16	150	8	375
36001140	2F50C-R5X75	R5	20	75	10	220
36001142	2F50C-R5X100	R5	20	100	10	300
36001144	2F50C-R5X150	R5	20	150	10	575
36001146	2F50C-R6X75	R6	24	75	12	312.5
36001148	2F50C-R6X100	R6	24	100	12	405
36001150	2F50C-R6X150	R6	24	150	12	720
36001152	2F50C-R7X100	R7	30	100	14	595
36001154	2F50C-R7X150	R7	30	150	14	945
36001156	2F50C-R8X100	R8	30	100	16	775
36001158	2F50C-R8X150	R8	30	150	16	1260
36001160	2F50C-R8X200	R8	30	200	16	2125
36001162	2F50C-R9X100	R9	30	100	18	955
36001164	2F50C-R9X150	R9	30	150	18	1485
36001166	2F50C-R10X100	R10	30	100	20	1110
36001168	2F50C-R10X150	R10	30	150	20	1600
36001170	2F50C-R10X200	R10	30	200	20	2500

2刃 HRC55° 球头钨钢立铣刀

2 Edge HRC55° Tungsten Steel Coated Ball End Milling Cutter

应用：切削加工HRC55°.以下钢材

Application: Milling the steel hardness under HRC55°.



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36001200	2F55C-R0.5X50	R0.5	2	50	4	60
36001202	2F55C-R0.75X50	R0.75	3	50	4	60
36001204	2F55C-R1X50	R1	4	50	4	60
36001206	2F55C-R1.25X50	R1.25	5	50	4	60
36001208	2F55C-R1.5X3X50	R1.5	6	50	3	60
36001210	2F55C-R1.5X4X50	R1.5	6	50	4	60
36001212	2F55C-R1.75X50	R1.75	7	50	4	60
36001214	2F55C-R2X50	R2	8	50	4	60
36001216	2F55C-R2X75	R2	8	75	4	95
36001218	2F55C-R2X100	R2	8	100	4	102.5
36001220	2F55C-R2.5X5X50	R2.5	10	50	5	107.5
36001222	2F55C-R2.5X6X50	R2.5	10	50	6	107.5
36001224	2F55C-R3X50	R3	12	50	6	107.5
36001226	2F55C-R3X75	R3	12	75	6	150
36001228	2F55C-R3X100	R3	12	100	6	180
36001230	2F55C-R3X150	R3	12	150	6	370
36001232	2F55C-R4X60	R4	16	60	8	185
36001234	2F55C-R4X75	R4	16	75	8	235
36001236	2F55C-R4X100	R4	16	100	8	287.5
36001238	2F55C-R4X150	R4	16	150	8	475
36001240	2F55C-R5X75	R5	20	75	10	312.5
36001242	2F55C-R5X100	R5	20	100	10	402.5
36001244	2F55C-R5X150	R5	20	150	10	750
36001246	2F55C-R6X75	R6	24	75	12	442.5
36001248	2F55C-R6X100	R6	24	100	12	540
36001250	2F55C-R6X150	R6	24	150	12	975
36001252	2F55C-R7X100	R7	30	100	14	705
36001254	2F55C-R7X150	R7	30	150	14	1275
36001256	2F55C-R8X100	R8	30	100	16	990
36001258	2F55C-R8X150	R8	30	150	16	1725
36001260	2F55C-R8X200	R8	30	200	16	2500
36001262	2F55C-R9X100	R9	30	100	18	1200
36001264	2F55C-R9X150	R9	30	150	18	1980
36001266	2F55C-R10X100	R10	30	100	20	1425
36001268	2F55C-R10X150	R10	30	150	20	2250
36001270	2F55C-R10X200	R10	30	200	20	2750

2刃 HRC50°球头钨钢立铣刀-无涂层铝用

2 Edge Tungsten Steel Uncoated Ball End End Milling Cutter

应用：铣削钢和铜、铝等有色金属材料

Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



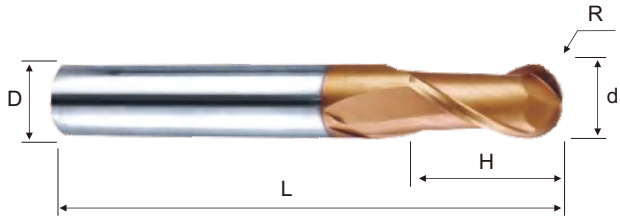
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36003300	AL-2F50C-R0.5X50	R0.5	2	50	4	40
36003302	AL-2F50C-R0.75X50	R0.75	3	50	4	40
36003304	AL-2F50C-R1X50	R1	4	50	4	40
36003306	AL-2F50C-R1.25X50	R1.25	5	50	4	40
36003308	AL-2F50C-R1.5X3X50	R1.5	6	50	3	40
36003310	AL-2F50C-R1.5X4X50	R1.5	6	50	4	40
36003312	AL-2F50C-R1.75X50	R1.75	7	50	4	40
36003314	AL-2F50C-R2X50	R2	8	50	4	40
36003316	AL-2F50C-R2X75	R2	8	75	4	65
36003318	AL-2F50C-R2X100	R2	8	100	4	72.5
36003320	AL-2F50C-R2.5X5X50	R2.5	10	50	5	70
36003322	AL-2F50C-R2.5X6X50	R2.5	10	50	6	70
36003324	AL-2F50C-R3X50	R3	12	50	6	70
36003326	AL-2F50C-R3X75	R3	12	75	6	110
36003328	AL-2F50C-R3X100	R3	12	100	6	130
36003330	AL-2F50C-R3X150	R3	12	150	6	275
36003332	AL-2F50C-R4X60	R4	16	60	8	125
36003334	AL-2F50C-R4X75	R4	16	75	8	165
36003336	AL-2F50C-R4X100	R4	16	100	8	205
36003338	AL-2F50C-R4X150	R4	16	150	8	375
36003340	AL-2F50C-R5X75	R5	20	75	10	220
36003342	AL-2F50C-R5X100	R5	20	100	10	300
36003344	AL-2F50C-R5X150	R5	20	150	10	575
36003346	AL-2F50C-R6X75	R6	24	75	12	312.5
36003348	AL-2F50C-R6X100	R6	24	100	12	405
36003350	AL-2F50C-R6X150	R6	24	150	12	720
36003352	AL-2F50C-R7X100	R7	30	100	14	595
36003354	AL-2F50C-R7X150	R7	30	150	14	945
36003356	AL-2F50C-R8X100	R8	30	100	16	775
36003358	AL-2F50C-R8X150	R8	30	150	16	1260
36003360	AL-2F50C-R8X200	R8	30	200	16	2125
36003362	AL-2F50C-R9X100	R9	30	100	18	955
36003364	AL-2F50C-R9X150	R9	30	150	18	1485
36003366	AL-2F50C-R10X100	R10	30	100	20	1110
36003368	AL-2F50C-R10X150	R10	30	150	20	1600
36003370	AL-2F50C-R10X200	R10	30	200	20	2500

2刃 HRC60°球头钨钢立铣刀

2 Edge HRC60° Tungsten Steel Coated Ball End Milling Cutter

应用：铣削加工HRC60°以下钢、铸铁及不锈钢等材料

Application: Milling Stainless Steel And Steel Hardness Under HRC60° .

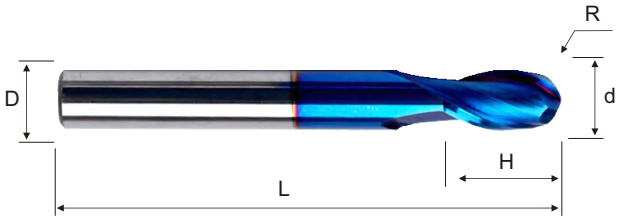


2刃 HRC65°球头钨钢立铣刀

2 Edge HRC65° Tungsten Steel Coated Ball End Milling Cutter

应用：铣削加工HRC65°以下钢、铸铁及不锈钢等材料

Application: Milling Stainless Steel And Steel Hardness Under HRC65°



订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36001300	**2F60C-R0.5X50**	R0.5	50	2	4	75
36001302	**2F60C-R0.75X50**	R0.75	50	3	4	75
36001304	**2F60C-R1X50**	R1	50	4	4	75
36001306	**2F60C-R1.25X50**	R1.25	50	5	4	75
36001308	**2F60C-R1.5X3X50**	R1.5	50	6	3	75
36001310	**2F60C-R1.5X4X50**	R1.5	50	6	4	75
36001312	**2F60C-R1.75X50**	R1.75	50	7	4	75
36001314	**2F60C-R2X50**	R2	50	8	4	75
36001316	**2F60C-R2X75**	R2	75	8	4	97.5
36001318	**2F60C-R2X100**	R2	100	8	4	115
36001320	**2F60C-R2.5X5X50**	R2.5	50	10	5	140
36001322	**2F60C-R2.5X6X50**	R2.5	50	10	6	140
36001324	**2F60C-R3X50**	R3	50	12	6	140
36001326	**2F60C-R3X75**	R3	75	12	6	167.5
36001328	**2F60C-R3X100**	R3	100	12	6	197.5
36001330	**2F60C-R3X150**	R3	150	12	6	390
36001332	**2F60C-R4X60**	R4	60	16	8	225
36001334	**2F60C-R4X75**	R4	75	16	8	260
36001336	**2F60C-R4X100**	R4	100	16	8	325
36001338	**2F60C-R4X150**	R4	150	16	8	545
36001340	**2F60C-R5X75**	R5	75	20	10	362.5
36001342	**2F60C-R5X100**	R5	100	20	10	460
36001344	**2F60C-R5X150**	R5	150	20	10	800
36001346	**2F60C-R6X75**	R6	75	24	12	480
36001348	**2F60C-R6X100**	R6	100	24	12	640
36001350	**2F60C-R6X150**	R6	150	24	12	1040
36001352	**2F60C-R7X100**	R7	100	30	14	800
36001354	**2F60C-R7X150**	R7	150	30	14	1340
36001356	**2F60C-R8X100**	R8	100	30	16	1070
36001358	**2F60C-R8X150**	R8	150	30	16	1960
36001360	**2F60C-R8X200**	R8	200	30	16	2750
36001362	**2F60C-R9X100**	R9	100	30	18	1300
36001364	**2F60C-R9X150**	R9	150	30	18	2250
36001366	**2F60C-R10X100**	R10	100	30	20	1550
36001368	**2F60C-R10X150**	R10	150	30	20	2650
36001370	**2F60C-R10X200**	R10	200	30	20	3250

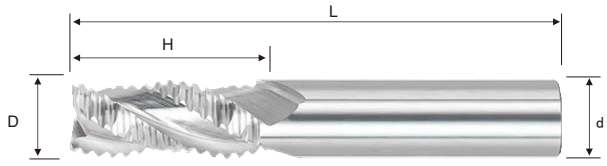
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		d	H	L	D	
36001400	**2F65C-R0.5X50**	R0.5	2	50	4	87.5
36001402	**2F65C-R0.75X50**	R0.75	3	50	4	87.5
36001404	**2F65C-R1X50**	R1	4	50	4	87.5
36001406	**2F65C-R1.25X50**	R1.25	5	50	4	87.5
36001408	**2F65C-R1.5X3X50**	R1.5	6	50	3	87.5
36001410	**2F65C-R1.5X4X50**	R1.5	6	50	4	87.5
36001412	**2F65C-R1.75X50**	R1.75	7	50	4	87.5
36001414	**2F65C-R2X50**	R2	8	50	4	87.5
36001416	**2F65C-R2X75**	R2	8	75	4	115
36001418	**2F65C-R2X100**	R2	8	100	4	137.5
36001420	**2F65C-R2.5X5X50**	R2.5	10	50	5	165
36001422	**2F65C-R2.5X6X50**	R2.5	10	50	6	165
36001424	**2F65C-R3X50**	R3	12	50	6	165
36001426	**2F65C-R3X75**	R3	12	75	6	197.5
36001428	**2F65C-R3X100**	R3	12	100	6	235
36001430	**2F65C-R3X150**	R3	12	150	6	440
36001432	**2F65C-R4X60**	R4	16	60	8	270
36001434	**2F65C-R4X75**	R4	16	75	8	307.5
36001436	**2F65C-R4X100**	R4	16	100	8	385
36001438	**2F65C-R4X150**	R4	16	150	8	675
36001440	**2F65C-R5X75**	R5	20	75	10	430
36001442	**2F65C-R5X100**	R5	20	100	10	550
36001444	**2F65C-R5X150**	R5	20	150	10	915
36001446	**2F65C-R6X75**	R6	24	75	12	572.5
36001448	**2F65C-R6X100**	R6	24	100	12	725
36001450	**2F65C-R6X150**	R6	24	150	12	1300
36001452	**2F65C-R7X100**	R7	30	100	14	940
36001454	**2F65C-R7X150**	R7	30	150	14	1680
36001456	**2F65C-R8X100**	R8	30	100	16	1210
36001458	**2F65C-R8X150**	R8	30	150	16	2140
36001460	**2F65C-R8X200**	R8	30	200	16	3250
36001462	**2F65C-R9X100**	R9	30	100	18	1485
36001464	**2F65C-R9X150**	R9	30	150	18	2600
36001466	**2F65C-R10X100**	R10	30	100	20	1780
36001468	**2F65C-R10X150**	R10	30	150	20	3290
36001470	**2F65C-R10X200**	R10	30	200	20	4000

3刃不涂层铝用钨钢粗皮铣刀

3 Edge Tungsten Steel Uncoated Rough Machining End Milling Cutter

应用:铣削钢和铜，铝等有色金属材料

Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



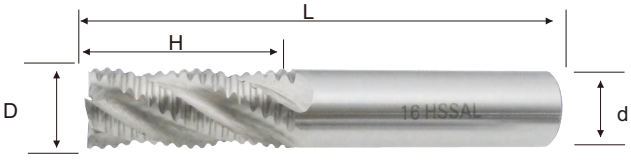
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		D	H	L	d	
36004500	AL-CP4F55C-4	Ø4	12	50	4	80
36004502	AL-CP4F55C-6	Ø6	15	50	6	125
36004504	AL-CP4F55C-6X100	Ø6	15	100	6	225
36004506	AL-CP4F55C-8	Ø8	20	60	8	162.5
36004508	AL-CP4F55C-8X100	Ø8	20	100	8	340
36004510	AL-CP4F55C-10	Ø10	25	75	10	325
36004512	AL-CP4F55C-10X100	Ø10	40	100	10	435
36004514	AL-CP4F55C-12	Ø12	30	75	12	440
36004516	AL-CP4F55C-12X100	Ø12	45	100	12	650
36004518	AL-CP4F55C-14	Ø14	40	100	14	725
36004520	AL-CP4F55C-16	Ø16	55	100	16	900
36004522	AL-CP4F55C-18	Ø18	55	100	18	1100
36004524	AL-CP4F55C-20	Ø20	55	100	20	1250

高速钢粗皮铣刀

Milling cutter for rough machining of high speed steel

应用:铣削钢和铜，铝等有色金属材料

Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



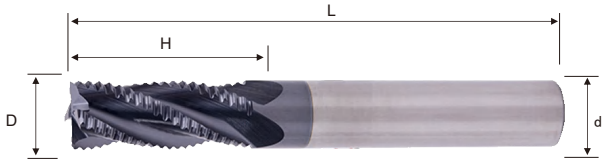
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		D	H	L	d	
36006100	4FSU-6	Ø6	20	60	6	35
36006102	4FSU-8	Ø8	20	60	8	42.5
36006104	4FSU-10	Ø10	30	75	10	50
36006106	4FSU-12	Ø12	35	85	12	65
36006108	4FSU-14	Ø14	35	85	12	80
36006110	4FSU-16	Ø16	40	95	16	90
36006112	4FSU-18	Ø18	40	95	16	125
36006114	4FSU-20	Ø20	45	110	20	145
36006116	4FSU-22	Ø22	45	110	20	180
36006118	4FSU-25	Ø25	50	120	25	225

4刃涂层钨钢粗皮铣刀

4 Edge Tungsten Steel Coated Rough Machining End Milling Cutter

应用:铣削HRC55°以下钢件，铸件及不锈钢

Application: Milling Stainless Steel And Steel Hardness Under HRC55°



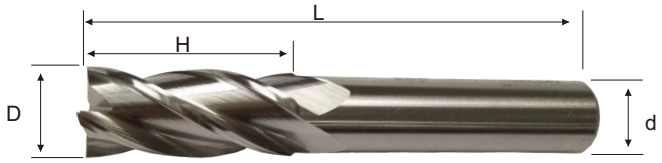
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		D	H	L	d	
36004550	CP4F55C-4	Ø4	12	50	4	80
36004552	CP4F55C-6	Ø6	15	50	6	125
36004554	CP4F55C-6X100	Ø6	15	100	6	225
36004556	CP4F55C-8	Ø8	20	60	8	162.5
36004558	CP4F55C-8X100	Ø8	20	100	8	340
36004560	CP4F55C-10	Ø10	25	75	10	325
36004562	CP4F55C-10X100	Ø10	40	100	10	435
36004564	CP4F55C-12	Ø12	30	75	12	440
36004566	CP4F55C-12X100	Ø12	45	100	12	650
36004568	CP4F55C-14	Ø14	40	100	14	725
36004570	CP4F55C-16	Ø16	55	100	16	900
36004572	CP4F55C-18	Ø18	55	100	18	1100
36004574	CP4F55C-20	Ø20	55	100	20	1250

4刃高速钢平底铣刀-英制规格

4 Edge High Speed Steel Vertical Milling Cutter Made By Holistic Grinding-Inch

应用:铣削钢和铜，铝等有色金属材料

Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



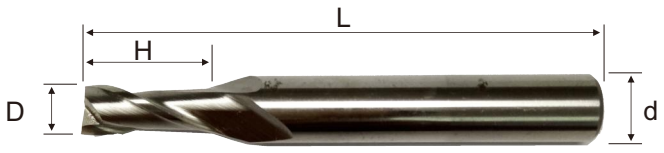
订购编码 Order No.	规格型号 Type	尺寸 Dimensions (mm)				单价 (RMB) Price
		D	H	L	d	
36006000	4FSI-1/16	Ø1/16"	3/16"	2"	1/4"	17.5
36006002	4FSI-3/32	Ø3/32"	9/32"	2-7/64"	1/4"	15
36006004	4FSI-1/8	Ø1/8"	3/8"	2-3/16"	1/4"	12.5
36006006	4FSI-1/8L	Ø1/8"	1"	2-15/16"	1/4"	17.5
36006008	4FSI-5/32	Ø5/32"	7/16"	2-1/4"	1/4"	12.5
36006010	4FSI-3/16	Ø3/16"	1/2"	2-1/4"	1/4"	12.5
36006012	4FSI-3/16L	Ø3/16"	1"	2-3/4"	1/4"	17.5
36006014	4FSI-1/4	Ø1/4"	5/8"	2-7/16"	1/4"	12.5
36006016	4FSI-1/4L	Ø1/4"	1-1/4"	3-1/16"	1/4"	17.5
36006018	4FSI-5/16	Ø5/16"	3/4"	2-1/2"	3/8"	25
36006020	4FSI-5/16L	Ø5/16"	1-3/8"	3-1/8"	3/8"	37.5
36006022	4FSI-3/8	Ø3/8"	3/4"	2-1/2"	3/8"	32.5
36006024	4FSI-3/8L	Ø3/8"	1-1/2"	3-1/4"	3/8"	47.5
36006026	4FSI-1/2	Ø1/2"	1-1/4"	3-1/4"	1/2"	42.5
36006028	4FSI-1/2L	Ø1/2"	2"	4"	1/2"	60
36006030	4FSI-5/8	Ø5/8"	1-5/8"	3-3/4"	5/8"	72.5
36006032	4FSI-5/8L	Ø5/8"	2-1/2"	4-5/8"	5/8"	100
36006034	4FSI-3/4	Ø3/4"	1-5/8"	3-7/8"	3/4"	112.5
36006036	4FSI-3/4L	Ø3/4"	3"	5-1/4"	3/4"	150
36006038	4FSI-1	Ø1"	2"	4-1/2"	1"	250
36006040	4FSI-1L	Ø1"	4"	6-1/2"	1"	300

2刃高速钢平底铣刀

2 Edge High Speed Steel Vertical Milling Cutter Made By Holistic Grinding

应用:铣削钢和铜，铝等有色金属材料

Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



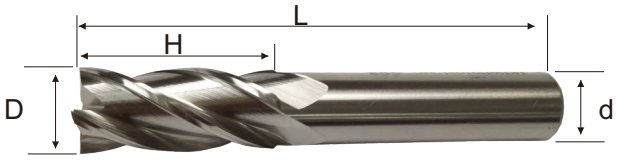
订购编码 Order No.	规格型号 Type	尺寸Dimensions (mm)				单价 (RMB) Price
		D	H	L	d	
36005800	**2FS-1**	Ø1	2.5	50	6	17.5
36005802	**2FS-1.5**	Ø1.5	4	50	6	17.5
36005804	**2FS-2**	Ø2	6	50	6	12.5
36005806	**2FS-2.5**	Ø2.5	7	50	6	15
36005808	**2FS-3**	Ø3	10	50	6	12.5
36005810	**2FS-3L**	Ø3	15	60	6	17.5
36005812	**2FS-3.5**	Ø3.5	12	55	6	15
36005814	**2FS-4**	Ø4	12	55	6	12.5
36005816	**2FS-4L**	Ø4	20	65	6	17.5
36005818	**2FS-4.5**	Ø4.5	15	60	6	15
36005820	**2FS-5**	Ø5	15	60	6	12.5
36005822	**2FS-5L**	Ø5	25	70	6	17.5
36005824	**2FS-5.5**	Ø5.5	15	60	6	15
36005826	**2FS-6**	Ø6	15	60	6	12.5
36005828	**2FS-6L**	Ø6	25	70	6	17.5
36005830	**2FS-6.5**	Ø6.5	20	70	8	30
36005832	**2FS-7**	Ø7	20	70	8	25
36005834	**2FS-8**	Ø8	20	70	8	25
36005836	**2FS-8L**	Ø8	35	85	8	37.5
36005838	**2FS-9**	Ø9	25	75	10	32.5
36005840	**2FS-10**	Ø10	25	75	10	32.5
36005842	**2FS-10L**	Ø10	45	100	10	47.5
36005844	**2FS-11**	Ø11	30	90	12	42.5
36005846	**2FS-12**	Ø12	30	90	12	42.5
36005848	**2FS-12L**	Ø12	55	115	12	60
36005850	**2FS-13**	Ø13	35	90	12	60
36005852	**2FS-14**	Ø14	35	90	12	55
36005854	**2FS-14L**	Ø14	55	115	12	80
36005856	**2FS-15**	Ø15	40	105	16	80
36005858	**2FS-16**	Ø16	40	105	16	72.5
36005860	**2FS-16L**	Ø16	65	130	16	100
36005862	**2FS-17**	Ø17	40	105	16	100
36005864	**2FS-18**	Ø18	40	105	16	87.5
36005866	**2FS-18L**	Ø18	65	130	16	125
36005868	**2FS-20**	Ø20	45	115	20	112.5
36005870	**2FS-20L**	Ø20	75	145	20	150
36005872	**2FS-22**	Ø22	45	115	20	150
36005874	**2FS-22L**	Ø22	75	145	20	190
36005876	**2FS-25**	Ø25	50	120	20	190
36005878	**2FS-25L**	Ø25	90	165	20	250

4刃高速钢平底铣刀

4 Edge High Speed Steel Vertical Milling Cutter Made By Holistic Grinding

应用:铣削钢和铜，铝等有色金属材料

Application: Milling Steel And Nonferrous Metal Materials Such As Copper And Aluminum



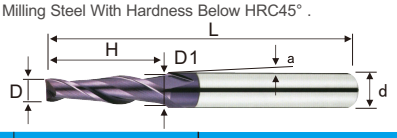
订购编码 Order No.	规格型号 Type	尺寸Dimensions (mm)				单价 (RMB) Price
		D	H	L	d	
36005900	**4FS-1**	Ø1	2.5	50	6	17.5
36005902	**4FS-1.5**	Ø1.5	4	50	6	17.5
36005904	**4FS-2**	Ø2	6	50	6	12.5
36005906	**4FS-2.5**	Ø2.5	7	50	6	15
36005908	**4FS-3**	Ø3	10	50	6	12.5
36005910	**4FS-3L**	Ø3	15	60	6	17.5
36005912	**4FS-3.5**	Ø3.5	12	55	6	15
36005914	**4FS-4**	Ø4	12	55	6	12.5
36005916	**4FS-4L**	Ø4	20	65	6	17.5
36005918	**4FS-4.5**	Ø4.5	15	60	6	15
36005920	**4FS-5**	Ø5	15	60	6	12.5
36005922	**4FS-5L**	Ø5	25	70	6	17.5
36005924	**4FS-5.5**	Ø5.5	15	60	6	15
36005926	**4FS-6**	Ø6	15	60	6	12.5
36005928	**4FS-6L**	Ø6	25	70	6	17.5
36005930	**4FS-6.5**	Ø6.5	20	70	8	30
36005932	**4FS-7**	Ø7	20	70	8	25
36005934	**4FS-8**	Ø8	20	70	8	25
36005936	**4FS-8L**	Ø8	35	85	8	37.5
36005938	**4FS-9**	Ø9	25	75	10	32.5
36005940	**4FS-10**	Ø10	25	75	10	32.5
36005942	**4FS-10L**	Ø10	45	100	10	47.5
36005944	**4FS-11**	Ø11	30	90	12	42.5
36005946	**4FS-12**	Ø12	30	90	12	42.5
36005948	**4FS-12L**	Ø12	55	115	12	60
36005950	**4FS-13**	Ø13	35	90	12	60
36005952	**4FS-14**	Ø14	35	90	12	55
36005954	**4FS-14L**	Ø14	55	115	12	80
36005956	**4FS-15**	Ø15	40	105	16	80
36005958	**4FS-16**	Ø16	40	105	16	72.5
36005960	**4FS-16L**	Ø16	65	130	16	100
36005962	**4FS-17**	Ø17	40	105	16	100
36005964	**4FS-18**	Ø18	40	105	16	87.5
36005966	**4FS-18L**	Ø18	65	130	16	125
36005968	**4FS-20**	Ø20	45	115	20	112.5
36005970	**4FS-20L**	Ø20	75	145	20	150
36005972	**4FS-22**	Ø22	45	115	20	150
36005974	**4FS-22L**	Ø22	75	145	20	190
36005976	**4FS-25**	Ø25	50	120	20	190
36005978	**4FS-25L**	Ø25	90	165	20	250

2刃45度钨钢涂层锥度立铣刀

2 Edge Tungsten Steel Coated Tapers End Milling Cutter

应用：铣削加工硬度在HRC45°以下的钢材。

Application: Milling Steel With Hardness Below HRC45° .



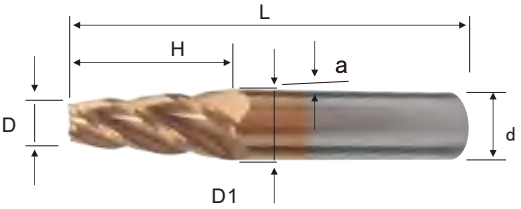
订购编码 Order No.	规格型号 Type	尺寸 Dimensions(mm) D	斜度a	大径D1	H	L	d	单价 Price
36004800	ZDXD2F45C1x0.5	Ø1	0.5°	1.07	4	50	4	87.5
36004802	ZDXD2F45C1x1	Ø1	1°	1.14	4	50	4	87.5
36004804	ZDXD2F45C1x1.5	Ø1	1.5°	1.21	4	50	4	87.5
36004806	ZDXD2F45C1x2	Ø1	2°	1.28	4	50	4	87.5
36004808	ZDXD2F45C1x2.5	Ø1	2.5°	1.35	4	50	4	87.5
36004810	ZDXD2F45C1x3	Ø1	3°	1.42	4	50	4	87.5
36004812	ZDXD2F45C1x5	Ø1	5°	1.7	4	50	4	87.5
36004814	ZDXD2F45C1x7	Ø1	7°	1.98	4	50	4	87.5
36004816	ZDXD2F45C1x10	Ø1	10°	2.41	4	50	4	87.5
36004818	ZDXD2F45C1.5x0.5	Ø1.5	0.5°	1.59	5	50	4	87.5
36004820	ZDXD2F45C1.5x1	Ø1.5	1°	1.67	5	50	4	87.5
36004822	ZDXD2F45C1.5x1.5	Ø1.5	1.5°	1.76	5	50	4	87.5
36004824	ZDXD2F45C1.5x2	Ø1.5	2°	1.85	5	50	4	87.5
36004826	ZDXD2F45C1.5x2.5	Ø1.5	2.5°	1.93	5	50	4	87.5
36004828	ZDXD2F45C1.5x3	Ø1.5	3°	2.02	5	50	4	87.5
36004830	ZDXD2F45C1.5x5	Ø1.5	5°	2.37	5	50	4	87.5
36004832	ZDXD2F45C1.5x7	Ø1.5	7°	2.73	5	50	4	87.5
36004834	ZDXD2F45C1.5x10	Ø1.5	10°	3.26	5	50	4	87.5
36004836	ZDXD2F45C2x0.5	Ø2	0.5°	2.1	6	50	4	87.5
36004838	ZDXD2F45C2x1	Ø2	1°	2.21	6	50	4	87.5
36004840	ZDXD2F45C2x1.5	Ø2	1.5°	2.31	6	50	4	87.5
36004842	ZDXD2F45C2x2	Ø2	2°	2.41	6	50	4	87.5
36004844	ZDXD2F45C2x2.5	Ø2	2.5°	2.52	6	50	4	87.5
36004846	ZDXD2F45C2x3	Ø2	3°	2.62	6	50	4	87.5
36004848	ZDXD2F45C2x5	Ø2	5°	3.05	6	50	4	87.5
36004850	ZDXD2F45C2x7	Ø2	7°	3.47	6	50	4	87.5
36004852	ZDXD2F45C2x10	Ø2	10°	4.12	8	50	6	165
36004854	ZDXD2F45C2.5x0.5	Ø2.5	0.5°	2.64	8	50	4	87.5
36004856	ZDXD2F45C2.5x1	Ø2.5	1°	2.78	8	50	4	87.5
36004858	ZDXD2F45C2.5x1.5	Ø2.5	1.5°	2.91	8	50	4	87.5
36004860	ZDXD2F45C2.5x2	Ø2.5	2°	3.05	8	50	4	87.5
36004862	ZDXD2F45C2.5x2.5	Ø2.5	2.5°	3.2	8	50	4	87.5
36004864	ZDXD2F45C2.5x3	Ø2.5	3°	3.33	8	50	4	87.5
36004866	ZDXD2F45C2.5x5	Ø2.5	5°	3.9	8	50	4	87.5
36004868	ZDXD2F45C2.5x7	Ø2.5	7°	4.46	8	50	6	165
36004870	ZDXD2F45C2.5x10	Ø2.5	10°	5.32	8	50	6	165
36004872	ZDXD2F45C3x0.5	Ø3	0.5°	3.17	10	50	4	87.5
36004874	ZDXD2F45C3x1	Ø3	1°	3.35	10	50	4	87.5
36004876	ZDXD2F45C3x1.5	Ø3	1.5°	3.52	10	50	4	87.5
36004878	ZDXD2F45C3x2	Ø3	2°	3.69	10	50	4	87.5
36004880	ZDXD2F45C3x2.5	Ø3	2.5°	3.87	10	50	4	87.5
36004882	ZDXD2F45C3x3	Ø3	3°	4.05	10	50	6	165
36004884	ZDXD2F45C3x5	Ø3	5°	4.75	10	50	6	165
36004886	ZDXD2F45C3x7	Ø3	7°	5.54	10	50	6	165
36004888	ZDXD2F45C3x10	Ø3	10°	6.53	10	50	8	270
36004890	ZDXD2F45C4x0.5	Ø4	0.5°	4.26	15	50	6	165
36004892	ZDXD2F45C4x1	Ø4	1°	4.52	15	50	6	165
36004894	ZDXD2F45C4x1.5	Ø4	1.5°	4.79	15	50	6	165
36004896	ZDXD2F45C4x2	Ø4	2°	5.04	15	50	6	165
36004898	ZDXD2F45C4x2.5	Ø4	2.5°	5.31	15	50	6	165
36004900	ZDXD2F45C4x3	Ø4	3°	5.57	15	50	6	165
36004902	ZDXD2F45C4x5	Ø4	5°	6.62	15	60	8	270
36004904	ZDXD2F45C4x7	Ø4	7°	7.68	15	60	8	270
36004906	ZDXD2F45C4x10	Ø4	10°	9.3	15	75	10	430
36004908	ZDXD2F45C5x0.5	Ø5	0.5°	5.34	20	50	6	165
36004910	ZDXD2F45C5x1	Ø5	1°	5.7	20	50	6	165
36004912	ZDXD2F45C5x1.5	Ø5	1.5°	6.04	20	60	6	165
36004914	ZDXD2F45C5x2	Ø5	2°	6.39	20	60	8	270
36004916	ZDXD2F45C5x2.5	Ø5	2.5°	6.74	20	60	8	270
36004918	ZDXD2F45C5x3	Ø5	3°	7.1	20	60	8	270
36004920	ZDXD2F45C5x5	Ø5	5°	8.5	20	75	10	430
36004922	ZDXD2F45C5x7	Ø5	7°	9.91	20	75	10	430
36004924	ZDXD2F45C5x10	Ø5	10°	12.05	20	75	12	572.5
36004926	ZDXD2F45C6x0.5	Ø6	0.5°	6.35	20	60	8	270
36004928	ZDXD2F45C6x1	Ø6	1°	6.7	20	60	8	270
36004930	ZDXD2F45C6x1.5	Ø6	1.5°	7.05	20	60	8	270
36004932	ZDXD2F45C6x2	Ø6	2°	7.4	20	60	8	270
36004934	ZDXD2F45C6x2.5	Ø6	2.5°	7.75	20	60	8	270
36004936	ZDXD2F45C6x3	Ø6	3°	8.1	20	75	8	270
36004938	ZDXD2F45C6x5	Ø6	5°	9.5	20	75	10	430
36004940	ZDXD2F45C6x7	Ø6	7°	10.91	20	75	12	572.5
36004942	ZDXD2F45C6x10	Ø6	10°	13.05	20	75	12	572.5
36004944	ZDXD2F45C8x0.5	Ø8	0.5°	8.44	25	75	10	430
36004946	ZDXD2F45C8x1	Ø8	1°	8.87	25	75	10	430
36004948	ZDXD2F45C8x1.5	Ø8	1.5°	9.31	25	75	10	430
36004950	ZDXD2F45C8x2	Ø8	2°	9.74	25	75	10	430
36004952	ZDXD2F45C8x2.5	Ø8	2.5°	10.18	25	75	10	430
36004954	ZDXD2F45C8x3	Ø8	3°	10.62	25	75	12	572.5
36004956	ZDXD2F45C8x5	Ø8	5°	12.37	25	75	12	572.5
36004958	ZDXD2F45C8x7	Ø8	7°	14.14	25	75	12	572.5
36004960	ZDXD2F45C8x10	Ø8	10°	16.82	25	100	16	1210
36004962	ZDXD2F45C10x0.5	Ø10	0.5°	10.61	35	100	12	572.5
36004964	ZDXD2F45C10x1	Ø10	1°	11.22	35	100	12	572.5
36004966	ZDXD2F45C10x1.5	Ø10	1.5°	11.83	35	100	12	572.5
36004968	ZDXD2F45C10x2	Ø10	2°	12.44	35	100	12	572.5
36004970	ZDXD2F45C10x2.5	Ø10	2.5°	13.06	35	100	12	572.5
36004972	ZDXD2F45C10x3	Ø10	3°	13.67	35	100	12	572.5
36004974	ZDXD2F45C10x5	Ø10	5°	16.12	35	100	16	1210
36004976	ZDXD2F45C10x7	Ø10	7°	18.6	35	100	16	1210
36004978	ZDXD2F45C10x10	Ø10	10°	22.34	35	100	20	1780

4刃55度钨钢涂层锥度立铣刀

4 Edge Tungsten Steel Coated Tapers End Milling Cutter

应用：铣削加工硬度在HRC55°以下的钢材。

Application: Milling Steel With Hardness Below HRC55° .



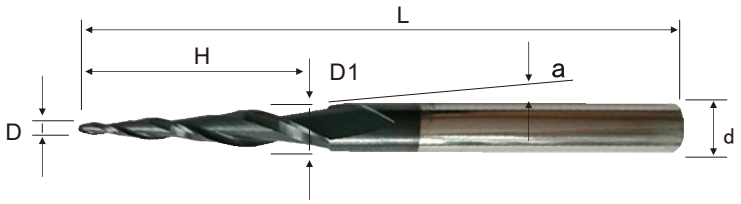
订购编码 Order No.	规格型号 Type	尺寸 Dimensions(mm) D	斜度a	大径D1	H	L	d	单价 Price
36005200	ZDXD4F55C3x0.5	Ø3	0.5°	3.17	10	50	4	87.5
36005202	ZDXD4F55C3x1	Ø3	1°	3.35	10	50	4	87.5
36005204	ZDXD4F55C3x1.5	Ø3	1.5°	3.52	10	50	4	87.5
36005206	ZDXD4F55C3x2	Ø3	2°	3.69	10	50	4	87.5
36005208	ZDXD4F55C3x2.5	Ø3	2.5°	3.87	10	50	4	87.5
36005210	ZDXD4F55C3x3	Ø3	3°	4.05	10	50	6	165
36005212	ZDXD4F55C3x5	Ø3	5°	4.75	10	50	6	165
36005214	ZDXD4F55C3x7	Ø3	7°	5.54	10	50	6	165
36005216	ZDXD4F55C3x10	Ø3	10°	6.53	10	50	8	270
36005218	ZDXD4F55C4x0.5	Ø4	0.5°	4.26	15	50	6	165
36005220	ZDXD4F55C4x1	Ø4	1°	4.52	15	50	6	165
36005222	ZDXD4F55C4x1.5	Ø4	1.5°	4.79	15	50	6	165
36005224	ZDXD4F55C4x2	Ø4	2°	5.04	15	50	6	165
36005226	ZDXD4F55C4x2.5	Ø4	2.5°	5.31	15	50	6	165
36005228	ZDXD4F55C4x3	Ø4	3°	5.57	15	50	6	165
36005230	ZDXD4F55C4x5	Ø4	5°	6.62	15	60	8	270
36005232	ZDXD4F55C4x7	Ø4	7°	7.68	15	60	8	270
36005234	ZDXD4F55C4x10	Ø4	10°	9.3	15	75	10	430
36005236	ZDXD4F55C5x0.5	Ø5	0.5°	5.34	20	50	6	165
36005238	ZDXD4F55C5x1	Ø5	1°	5.7	20	50	6	165
36005240	ZDXD4F55C5x1.5	Ø5	1.5°	6.04	20	60	6	165
36005242	ZDXD4F55C5x2	Ø5	2°	6.39	20	60	8	270
36005244	ZDXD4F55C5x2.5	Ø5	2.5°	6.74	20	60	8	270
36005246	ZDXD4F55C5x3	Ø5	3°	7.1	20	60	8	270
36005248	ZDXD4F55C5x5	Ø5	5°	8.5	20	75	10	430
36005250	ZDXD4F55C5x7	Ø5	7°	9.91	20	75	10	430
36005252	ZDXD4F55C5x10	Ø5	10°	12.05	20	75	12	572.5
36005254	ZDXD4F55C6x0.5	Ø6	0.5°	6.35	20	60	8	270
36005256	ZDXD4F55C6x1	Ø6	1°	6.7	20	60	8	270
36005258	ZDXD4F55C6x1.5	Ø6	1.5°	7.05	20	60	8	270
36005260	ZDXD4F55C6x2	Ø6	2°	7.4	20	60	8	270
36005262	ZDXD4F55C6x2.5	Ø6	2.5°	7.75	20	60	8	270
36005264	ZDXD4F55C6x3	Ø6	3°	8.1	20	75	8	270
36005266	ZDXD4F55C6x5	Ø6	5°	9.5	20	75	10	430
36005268	ZDXD4F55C6x7	Ø6	7°	10.91	20	75	12	572.5
36005270	ZDXD4F55C6x10	Ø6	10°	13.05	20	75	12	572.5
36005272	ZDXD4F55C8x0.5	Ø8	0.5°	8.44	25	75	10	430
36005274	ZDXD4F55C8x1	Ø8	1°	8.87	25	75	10	430
36005276	ZDXD4F55C8x1.5	Ø8	1.5°	9.31	25	75	10	430
36005278	ZDXD4F55C8x2	Ø8	2°	9.74	25	75	10	430
36005280	ZDXD4F55C8x2.5	Ø8	2.5°	10.18	25	75	10	430
36005282	ZDXD4F55C8x3	Ø8	3°	10.62	25	75	12	572.5
36005284	ZDXD4F55C8x5	Ø8	5°	12.37	25	75	12	572.5
36005286	ZDXD4F55C8x7	Ø8	7°	14.14	25	75	12	572.5
36005288	ZDXD4F55C8x10	Ø8	10°	16.82	25	100	16	1210
36005290	ZDXD4F55C10x0.5	Ø10	0.5°	10.61	35	100	12	572.5
36005292	ZDXD4F55C10x1	Ø10	1°	11.22	35	100	12	572.5
36005294	ZDXD4F55C10x1.5	Ø10	1.5°	11.83	35	100	12	572.5
36005296	ZDXD4F55C10x2	Ø10	2°	12.44	35	100	12	572.5
36005298	ZDXD4F55C10x2.5	Ø10	2.5°	13.06	35	100	12	572.5
36005300	ZDXD4F55C10x3	Ø10	3°	13.67	35	100	12	572.5
36005302	ZDXD4F55C10x5	Ø10	5°	16.12	35	100	16	1210
36005304	ZDXD4F55C10x7	Ø10	7°	18.6	35	100	16	1210
36005306	ZDXD4F55C10x10	Ø10	10°	22.34	35	100	20	1780

2刃45度钨钢涂层球头锥度立铣刀

2 Edge Tungsten Steel Coated Ball Head Tapers End Milling Cutter

应用：铣削加工硬度在HRC45° 以下的钢材。

Application: Milling Steel With Hardness Below HRC45° .

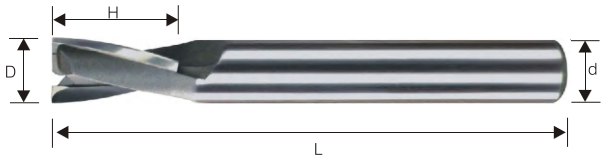


订购编码 Order No.	规格型号 Type	尺寸 Dimensions(mm) D	斜度a	大径D1	H	L	d	单价 Price
36005600	ZDXD2F45CR0.5x0.5°	R0.5	0.5°	1.17	10	50	4	87.5
36005602	ZDXD2F45CR0.5x1°	R0.5	1°	1.33	10	50	4	87.5
36005604	ZDXD2F45CR0.5x1.5°	R0.5	1.5°	1.5	10	50	4	87.5
36005606	ZDXD2F45CR0.5x2°	R0.5	2°	1.66	10	50	4	87.5
36005608	ZDXD2F45CR0.5x2.5°	R0.5	2.5°	2	10	50	4	87.5
36005610	ZDXD2F45CR0.5x3°	R0.5	3°	2.33	10	50	4	87.5
36005612	ZDXD2F45CR0.5x5°	R0.5	5°	2.67	10	50	4	87.5
36005614	ZDXD2F45CR0.5x7°	R0.5	7°	3.34	10	50	4	87.5
36005616	ZDXD2F45CR0.5x10°	R0.5	10°	4.37	10	50	6	165
36005618	ZDXD2F45CR0.75x0.5°	R0.75	0.5°	1.66	10	50	4	87.5
36005620	ZDXD2F45CR0.75x1°	R0.75	1°	1.82	10	50	4	87.5
36005622	ZDXD2F45CR0.75x1.5°	R0.75	1.5°	1.99	10	50	4	87.5
36005624	ZDXD2F45CR0.75x2°	R0.75	2°	2.15	10	50	4	87.5
36005626	ZDXD2F45CR0.75x2.5°	R0.75	2.5°	2.47	10	50	4	87.5
36005628	ZDXD2F45CR0.75x3°	R0.75	3°	2.8	10	50	4	87.5
36005630	ZDXD2F45CR0.75x5°	R0.75	5°	3.12	10	50	4	87.5
36005632	ZDXD2F45CR0.75x7°	R0.75	7°	3.78	10	50	4	87.5
36005634	ZDXD2F45CR0.75x10°	R0.75	10°	4.79	10	50	6	165
36005636	ZDXD2F45CR1x0.5°	R1	0.5°	2.21	13	50	4	87.5
36005638	ZDXD2F45CR1x1°	R1	1°	2.42	13	50	4	87.5
36005640	ZDXD2F45CR1x1.5°	R1	1.5°	2.63	13	50	4	87.5
36005642	ZDXD2F45CR1x2°	R1	2°	2.84	13	50	4	87.5
36005644	ZDXD2F45CR1x2.5°	R1	2.5°	3.26	13	50	4	87.5
36005646	ZDXD2F45CR1x3°	R1	3°	3.68	13	50	4	87.5
36005648	ZDXD2F45CR1x5°	R1	5°	4.11	13	50	6	165
36005650	ZDXD2F45CR1x7°	R1	7°	4.96	13	50	6	165
36005652	ZDXD2F45CR1x10°	R1	10°	6.26	13	60	8	270
36005654	ZDXD2F45CR1.25x0.5°	R1.25	0.5°	2.74	15	50	4	87.5
36005656	ZDXD2F45CR1.25x1°	R1.25	1°	2.98	15	50	4	87.5
36005658	ZDXD2F45CR1.25x1.5°	R1.25	1.5°	3.22	15	50	4	87.5
36005660	ZDXD2F45CR1.25x2°	R1.25	2°	3.46	15	50	4	87.5
36005662	ZDXD2F45CR1.25x2.5°	R1.25	2.5°	3.94	15	50	4	87.5
36005664	ZDXD2F45CR1.25x3°	R1.25	3°	4.43	15	50	6	87.5
36005666	ZDXD2F45CR1.25x5°	R1.25	5°	4.92	15	50	6	87.5
36005668	ZDXD2F45CR1.25x7°	R1.25	7°	5.9	15	50	6	165
36005670	ZDXD2F45CR1.25x10°	R1.25	10°	7.39	15	60	8	270
36005672	ZDXD2F45CR1.5x0.5°	R1.5	0.5°	3.32	20	50	4	87.5
36005674	ZDXD2F45CR1.5x1°	R1.5	1°	3.65	20	50	4	87.5
36005676	ZDXD2F45CR1.5x1.5°	R1.5	1.5°	3.97	20	50	4	87.5
36005678	ZDXD2F45CR1.5x2°	R1.5	2°	4.29	20	50	6	87.5
36005680	ZDXD2F45CR1.5x2.5°	R1.5	2.5°	4.94	20	50	6	87.5
36005682	ZDXD2F45CR1.5x3°	R1.5	3°	5.6	20	50	6	165
36005684	ZDXD2F45CR1.5x5°	R1.5	5°	6.25	20	60	8	270
36005686	ZDXD2F45CR1.5x7°	R1.5	7°	7.57	20	60	8	270
36005688	ZDXD2F45CR1.5x10°	R1.5	10°	9.57	20	75	10	430

订购编码 Order No.	规格型号 Type	尺寸 Dimensions(mm) D	斜度a	大径D1	H	L	d	单价 Price
36005690	ZDXD2F45CR2x0.5°	R2	0.5°	4.4	25	75	6	197.5
36005692	ZDXD2F45CR2x1°	R2	1°	4.8	25	75	6	197.5
36005694	ZDXD2F45CR2x1.5°	R2	1.5°	5.21	25	75	6	197.5
36005696	ZDXD2F45CR2x2°	R2	2°	5.61	25	75	6	197.5
36005698	ZDXD2F45CR2x2.5°	R2	2.5°	6.42	25	75	8	307.5
36005700	ZDXD2F45CR2x3°	R2	3°	7.23	25	75	8	307.5
36005702	ZDXD2F45CR2x5°	R2	5°	8.04	25	75	8	307.5
36005704	ZDXD2F45CR2x7°	R2	7°	9.68	25	75	10	430
36005706	ZDXD2F45CR2x10°	R2	10°	12.17	25	75	12	572.5
36005708	ZDXD2F45CR2.5x0.5°	R2.5	0.5°	5.48	30	75	6	197.5
36005710	ZDXD2F45CR2.5x1°	R2.5	1°	5.96	30	75	6	197.5
36005712	ZDXD2F45CR2.5x1.5°	R2.5	1.5°	6.44	30	75	8	307.5
36005714	ZDXD2F45CR2.5x2°	R2.5	2°	6.92	30	75	8	307.5
36005716	ZDXD2F45CR2.5x2.5°	R2.5	2.5°	7.89	30	75	8	307.5
36005718	ZDXD2F45CR2.5x3°	R2.5	3°	8.86	30	75	10	430
36005720	ZDXD2F45CR2.5x5°	R2.5	5°	9.83	30	75	10	430
36005722	ZDXD2F45CR2.5x7°	R2.5	7°	11.79	30	75	12	572.5
36005724	ZDXD2F45CR2.5x10°	R2.5	10°	14.78	30	100	16	1210
36005726	ZDXD2F45CR3x0.5°	R3	0.5°	6.56	35	100	8	307.5
36005728	ZDXD2F45CR3x1°	R3	1°	7.12	35	100	8	307.5
36005730	ZDXD2F45CR3x1.5°	R3	1.5°	7.86	35	100	8	307.5
36005732	ZDXD2F45CR3x2°	R3	2°	8.24	35	100	10	430
36005734	ZDXD2F45CR3x2.5°	R3	2.5°	9.36	35	100	10	430
36005736	ZDXD2F45CR3x3°	R3	3°	10.49	35	100	12	572.5
36005738	ZDXD2F45CR3x5°	R3	5°	11.62	35	100	12	572.5
36005740	ZDXD2F45CR3x7°	R3	7°	13.9	35	100	16	1210
36005742	ZDXD2F45CR3x10°	R3	10°	17.38	35	100	20	1780
36005744	ZDXD2F45CR4x0.5°	R4	0.5°	8.63	40	100	10	430
36005746	ZDXD2F45CR4x1°	R4	1°	9.26	40	100	10	430
36005748	ZDXD2F45CR4x1.5°	R4	1.5°	9.89	40	100	10	430
36005750	ZDXD2F45CR4x2°	R4	2°	10.52	40	100	12	572.5
36005752	ZDXD2F45CR4x2.5°	R4	2.5°	11.78	40	100	12	572.5
36005754	ZDXD2F45CR4x3°	R4	3°	13.05	40	100	16	1210
36005756	ZDXD2F45CR4x5°	R4	5°	14.33	40	100	16	1210
36005758	ZDXD2F45CR4x7°	R4	7°	16.9	40	100	20	1780
36005760	ZDXD2F45CR4x10°	R4	10°	20.82	40	100	20	1780
36005762	ZDXD2F45CR5x0.5°	R5	0.5°	10.7	45	100	12	572.5
36005764	ZDXD2F45CR5x1°	R5	1°	11.4	45	100	12	572.5
36005766	ZDXD2F45CR5x1.5°	R5	1.5°	12.1	45	100	12	572.5
36005768	ZDXD2F45CR5x2°	R5	2°	12.8	45	100	12	572.5
36005770	ZDXD2F45CR5x2.5°	R5	2.5°	14.2	45	100	16	1210
36005772	ZDXD2F45CR5x3°	R5	3°	15.62	45	100	16	1210
36005774	ZDXD2F45CR5x5°	R5	5°	17.04	45	100	16	1210
36005776	ZDXD2F45CR5x7°	R5	7°	19.9	45	100	20	1780
36005778	ZDXD2F45CR5x10°	R5	10°	24.26	45	100	25	3000

SWE2 螺旋焊刃式超微粒钨钢铣刀-2刃过中心(标准型)

Spiral Welding Edge Type Ultra-fine Particle Tungsten Steel Milling Cutter - 2 Blade Over Center (standard Type)

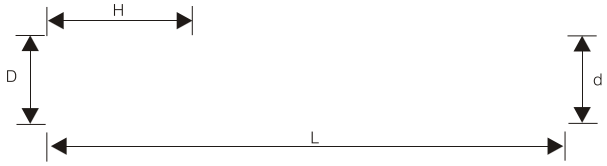


订购编码 Order Number	单价 Price
361100	205
361102	240
361104	265
361106	315
361108	350
361110	435

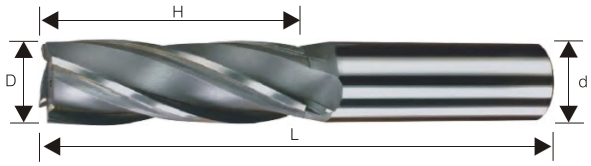
规格型号 Type	尺寸 Size(mm) 外径 D $^{-0}_{-0.03}$	刃长 H	柄长 d(h7)	全长 L	齿数 T	订购编码 Order Number	单价 Price
SWEL2-12x40H	12					361200	255
14x45H	14					361202	290
16x50H	16					361204	325
18x60H	18					361206	430
20x75H	20					361208	520
25x100H	25					361210	775

SWE4 螺旋焊刃式超微粒钨钢铣刀-4刃(标准型)

Spiral welding edge type ultra-fine particle tungsten steel milling cutter - 4 blade (standard type)



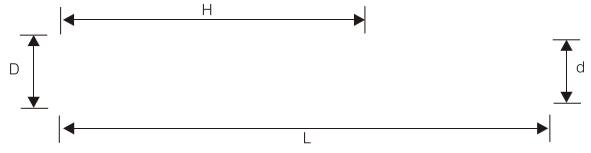
规格型号 Type	尺寸 Size(mm) 外径 D $^{+0.03}_{+0}$	刃长 H	柄长 d(h7)	全长 L	齿数 T	订购编码 Order Number	单价 Price
						361300	240
						361302	280
						361304	310
						361306	370
						361308	410
						361310	510
						361312	670
						361314	765
						361316	850
						361318	885
						361320	1150
						361322	1220



规格型号 Type	尺寸 Size(mm) 外径 D $^{+0.03}_{+0}$	刃长 H	柄长 d(h7)	全长 L	齿数 T	订购编码 Order Number	单价 Price
SWEL4-12x40H	12	40	12	90	4	361400	300
14x45H	14	45	16	105	4	361402	340
16x50H	16	50	16	120	4	361404	380
18x60H	18	60	20	120	4	361406	510
20x75H	20	75	20	135	4	361408	615
25x85H	25	85	25	175	4	361410	805
30x100H	30	100	25	195	4	361412	1090
32x105H	32	105	32	205	4	361414	1240
35x105H	35	105	32	205	4	361416	1285
40x105H	40	105	32	205	4	361418	1330
45x105H	45	105	32	205	4	361420	1625
50x125H	50	125	32	240	4	361422	1995

SWELL4 螺旋焊刃式超微粒钨钢铣刀-4刃(特长型)

Spiral welding edge type ultra-fine particle tungsten steel milling cutter - 4 blade (extra long type)

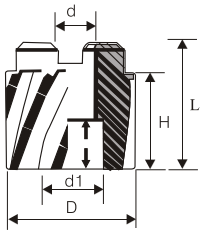


规格型号 Type	尺寸 Size(mm) 外径 D $^{+0.03}_{+0}$	刃长 H	柄长 d(h7)	全长 L	齿数 T	订购编码 Order Number	单价 Price
SWELL4-20x100H	20	100	20	180	4	361500	805
25x120H	25	120	25	210	4	361502	1090
30x120H	30	120	25	210	4	361504	1335
32x120H	32	120	32	210	4	361506	1375
35x150H	35	150	32	250	4	361508	1740
40x150H	40	150	32	250	4	361510	1790
40x200H	40	200	32	305	4	361512	2315
45x150H	45	150	32	250	4	361514	2195
45x200H	45	200	32	305	4	361516	2840
50x150H	50	150	32	250	4	361518	2285
50x200H	50	200	32	305	4	361520	2950

SWER4 螺旋焊刃式超微粒钨钢粗铣刀
Spiral welding type ultrafine tungsten steel roughing cutter

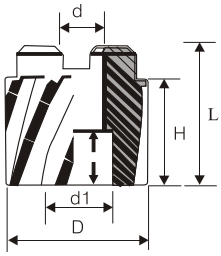
规格型号 Type	尺寸 Size(mm) 外径 D +0.05 +0	刃长 H	柄长 d(h7)	全长 L	齿数 T	订购编码 Order Number	单价 Price
SWER4-30x60H	30	60	32	140	4	361600	915
30x80H	30	80	32	160	4	361602	1160
30x105H	30	105	32	205	4	361604	1505
32x60H	32	60	32	140	4	361606	950
32x80H	32	80	32	160	4	361608	1195
32x105H	32	105	32	205	4	361610	1540
35x60H	35	60	32	140	4	361612	985
35x80H	35	80	32	160	4	361614	1240
35x105H	35	105	32	205	4	361616	1605
40x60H	40	60	32	140	4	361618	1030
40x80H	40	80	32	160	4	361620	1285
40x105H	40	105	32	205	4	361622	1660
50x105H	50	105	42	205	5	361624	2480
50x125H	50	125	42	225	5	361626	2875
50x150H	50	150	42	250	5	361628	3365
50x205H	50	205	42	305	5	361630	4445

SWRT 螺旋焊刃式超微粒钨钢筒状粗铣刀
Spiral-welded ultra-fine tungsten steel tubular roughing cutter



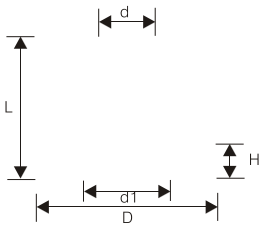
规格型号 Type	尺寸 Size(mm) 外径 D +0.05 +0			全长 L	齿数 T	订购编码 Order Number	单价 Price
						362100	1785
						362102	2505
						362104	2390
						362106	3365
						362108	4145





规格型号 Type	尺寸 Size(mm) 外径 D +0.05 +0	孔径 d(h7)	刃高 H	全长 L	齿数 T	订购编码 Order Number	单价 Price
SWT- 60x48H	60	1"	48	65	6	362200	1275
60x70H	60	1"	70	85	6	362202	1775
75x48H	75	1" 1/4	48	65	8	362204	1705
75x70H	75	1" 1/4	70	85	8	362206	2375
75x100H	75	1" 1/4	100	115	8	362208	3315

SWFT 焊刃式超微粒钨钢筒状平面铣刀
Welding edge type ultra-fine particle tungsten steel tubular face milling cutter

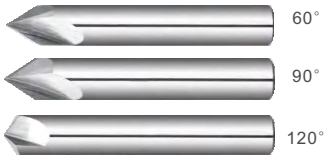


规格型号 Type	尺寸 Size(mm) 外径 D +1.0 +0	孔径 d(h7)	刃高 H	底盘直径d_1	全长 L	齿数 T	订购编码 Order Number	单价 Price
SWFT- 75x15H	75	1"	15	46	55	8	362300	690
100x15H	100	1"1/4	15	60	55	10	362302	1045
125x15H	125	1"1/4	15	70	55	14	362304	1485
150x15H	150	2"	15	80	55	16	362306	1905

WGDDZ. . 钨钢定点钻

Tungsten steel fixed-point drill

Fig.1



刀具涂层：无

Tool coating: Without

适用 ：铝、铝合金、压铸铝

Use:Aluminum, aluminum alloy, die-cast aluminum

Fig.2

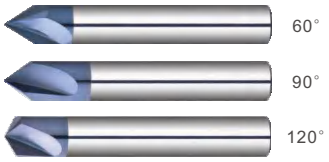
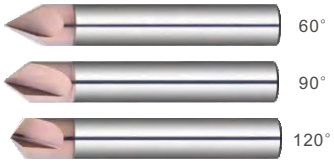
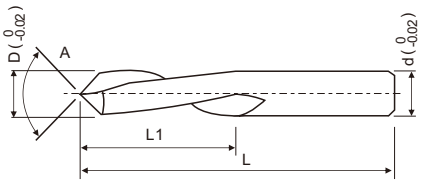


Fig.3





刀具涂层：纳米涂层 Tool coating: Nano coating

适用 ：模具预硬钢、淬火钢、合金钢、工具钢、有色金属、灰口铸铁、普通模具钢

Use:Die prehardened steel、Quenched steel、Alloy steel、Tool steel、Nonferrous metal, Gray cast iron、Common die steel

Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
WGDDZ1.0D4L50A60	WGDDZ1.0D4L50A60B	WGDDZ1.0D4L50A60T	60°	1	4	2	50	
WGDDZ2.0D4L50A60	WGDDZ2.0D4L50A60B	WGDDZ2.0D4L50A60T	60°	2	4	4	50	
WGDDZ3.0D4L50A60	WGDDZ3.0D4L50A60B	WGDDZ3.0D4L50A60T	60°	3	4	6	50	
WGDDZ4.0D4L50A60	WGDDZ4.0D4L50A60B	WGDDZ4.0D4L50A60T	60°	4	4	8	50	
WGDDZ5.0D5L50A60	WGDDZ5.0D5L50A60B	WGDDZ5.0D5L50A60T	60°	5	5	10	50	
WGDDZ6.0D6L50A60	WGDDZ6.0D6L50A60B	WGDDZ6.0D6L50A60T	60°	6	6	12	50	
WGDDZ8.0D8L60A60	WGDDZ8.0D8L60A60B	WGDDZ8.0D8L60A60T	60°	8	8	16	60	
WGDDZ10D10L75A60	WGDDZ10D10L75A60B	WGDDZ10D10L75A60T	60°	10	10	20	75	
WGDDZ12D12L75A60	WGDDZ12D12L75A60B	WGDDZ12D12L75A60T	60°	12	12	24	75	

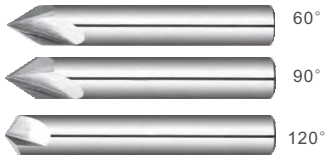
Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
WGDDZ1.0D4L50A90	WGDDZ1.0D4L50A90B	WGDDZ1.0D4L50A90T	90°	1	4	2	50	
WGDDZ1.5D4L50A90	WGDDZ1.5D4L50A90B	WGDDZ1.5D4L50A90T	90°	1.5	4	3	50	
WGDDZ2.0D4L50A90	WGDDZ2.0D4L50A90B	WGDDZ2.0D4L50A90T	90°	2	4	4	50	
WGDDZ2.5D4L50A90	WGDDZ2.5D4L50A90B	WGDDZ2.5D4L50A90T	90°	2.5	4	5	50	
WGDDZ3.0D3L50A90	WGDDZ3.0D3L50A90B	WGDDZ3.0D3L50A90T	90°	3	3	6	50	
WGDDZ3.0D3L100A90	WGDDZ3.0D3L100A90B	WGDDZ3.0D3L100A90T	90°	3	3	6	100	
WGDDZ3.0D4L50A90	WGDDZ3.0D4L50A90B	WGDDZ3.0D4L50A90T	90°	3	4	6	50	
WGDDZ4.0D4L50A90	WGDDZ4.0D4L50A90B	WGDDZ4.0D4L50A90T	90°	4	4	8	50	
WGDDZ4.0D4L100A90	WGDDZ4.0D4L100A90B	WGDDZ4.0D4L100A90T	90°	4	4	8	100	
WGDDZ5.0D5L50A90	WGDDZ5.0D5L50A90B	WGDDZ5.0D5L50A90T	90°	5	5	10	50	
WGDDZ5.0D5L100A90	WGDDZ5.0D5L100A90B	WGDDZ5.0D5L100A90T	90°	5	5	10	100	
WGDDZ6.0D6L50A90	WGDDZ6.0D6L50A90B	WGDDZ6.0D6L50A90T	90°	6	6	12	50	
WGDDZ6.0D6L100A90	WGDDZ6.0D6L100A90B	WGDDZ6.0D6L100A90T	90°	6	6	12	100	
WGDDZ8.0D8L60A90	WGDDZ8.0D8L60A90B	WGDDZ8.0D8L60A90T	90°	8	8	16	60	
WGDDZ8.0D8L100A90	WGDDZ8.0D8L100A90B	WGDDZ8.0D8L100A90T	90°	8	8	16	100	
WGDDZ10D10L75A90	WGDDZ10D10L75A90B	WGDDZ10D10L75A90T	90°	10	10	20	75	
WGDDZ10D10L100A90	WGDDZ10D10L100A90B	WGDDZ10D10L100A90T	90°	10	10	20	100	
WGDDZ12D12L75A90	WGDDZ12D12L75A90B	WGDDZ12D12L75A90T	90°	12	12	24	75	
WGDDZ12D12L100A90	WGDDZ12D12L100A90B	WGDDZ12D12L100A90T	90°	12	12	24	100	
WGDDZ14D14L100A90	WGDDZ14D14L100A90B	WGDDZ14D14L100A90T	90°	14	14	28	100	
WGDDZ16D16L100A90	WGDDZ16D16L100A90B	WGDDZ16D16L100A90T	90°	16	16	32	100	
WGDDZ18D18L100A90	WGDDZ18D18L100A90B	WGDDZ18D18L100A90T	90°	18	18	36	100	
WGDDZ20D20L100A90	WGDDZ20D20L100A90B	WGDDZ20D20L100A90T	90°	20	20	40	100	

Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
WGDDZ1.0D4L50A120	WGDDZ1.0D4L50A120B	WGDDZ1.0D4L50A120T	120°	1	4	2	50	
WGDDZ2.0D4L50A120	WGDDZ2.0D4L50A120B	WGDDZ2.0D4L50A120T	120°	2	4	4	50	
WGDDZ3.0D4L50A120	WGDDZ3.0D4L50A120B	WGDDZ3.0D4L50A120T	120°	3	4	6	50	
WGDDZ4.0D4L50A120	WGDDZ4.0D4L50A120B	WGDDZ4.0D4L50A120T	120°	4	4	8	50	
WGDDZ5.0D5L50A120	WGDDZ5.0D5L50A120B	WGDDZ5.0D5L50A120T	120°	5	5	10	50	
WGDDZ6.0D6L50A120	WGDDZ6.0D6L50A120B	WGDDZ6.0D6L50A120T	120°	6	6	12	50	
WGDDZ8.0D8L60A120	WGDDZ8.0D8L60A120B	WGDDZ8.0D8L60A120T	120°	8	8	16	60	
WGDDZ10D10L75A120	WGDDZ10D10L75A120B	WGDDZ10D10L75A120T	120°	10	10	20	75	
WGDDZ12D12L75A120	WGDDZ12D12L75A120B	WGDDZ12D12L75A120T	120°	12	12	24	75	

WGDJD. . 3 刃钨钢倒角刀

3-Edge tungsten steel chamfering cutter

Fig.1



刀具涂层：无

Tool coating: Without

适用 ：铝、铝合金、压铸铝

Use:Aluminum, aluminum alloy, die-cast aluminum

Fig.2

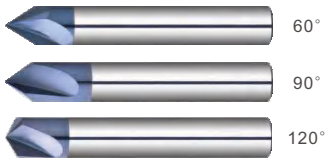
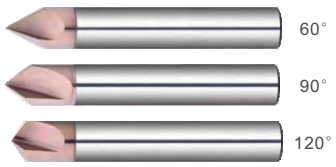
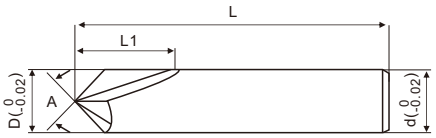


Fig.3





刀具涂层：纳米涂层 Tool coating: Nano coating

适用 ：模具预硬钢、淬火钢、合金钢、工具钢、有色金属、灰口铸铁、普通模具钢

Use:Die prehardened steel、Quenched steel、Alloy steel、Tool steel、Nonferrous metal, Gray cast iron、Common die steel

Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
WGDJD1.0D4L50A60	WGDJD1.0D4L50A60B	WGDJD1.0D4L50A60T	60°	1	4	2	50	
WGDJD2.0D4L50A60	WGDJD2.0D4L50A60B	WGDJD2.0D4L50A60T	60°	2	4	4	50	
WGDJD3.0D4L50A60	WGDJD3.0D4L50A60B	WGDJD3.0D4L50A60T	60°	3	4	6	50	
WGDJD4.0D4L50A60	WGDJD4.0D4L50A60B	WGDJD4.0D4L50A60T	60°	4	4	8	50	
WGDJD5.0D5L50A60	WGDJD5.0D5L50A60B	WGDJD5.0D5L50A60T	60°	5	5	10	50	
WGDJD6.0D6L50A60	WGDJD6.0D6L50A60B	WGDJD6.0D6L50A60T	60°	6	6	12	50	
WGDJD8.0D8L60A60	WGDJD8.0D8L60A60B	WGDJD8.0D8L60A60T	60°	8	8	16	60	
WGDJD10D10L75A60	WGDJD10D10L75A60B	WGDJD10D10L75A60T	60°	10	10	20	75	
WGDJD12D12L75A60	WGDJD12D12L75A60B	WGDJD12D12L75A60T	60°	12	12	24	75	

Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
WGDJD1.0D4L50A60	WGDJD1.0D4L50A60B	WGDJD1.0D4L50A60T	90°	1	4	2	50	
WGDJD2.0D4L50A60	WGDJD2.0D4L50A60B	WGDJD2.0D4L50A60T	90°	2	4	4	50	
WGDJD3.0D4L50A60	WGDJD3.0D4L50A60B	WGDJD3.0D4L50A60T	90°	3	4	6	50	
WGDJD4.0D4L50A60	WGDJD4.0D4L50A60B	WGDJD4.0D4L50A60T	90°	4	4	8	50	
WGDJD5.0D5L50A60	WGDJD5.0D5L50A60B	WGDJD5.0D5L50A60T	90°	5	5	10	50	
WGDJD6.0D6L50A60	WGDJD6.0D6L50A60B	WGDJD6.0D6L50A60T	90°	6	6	12	50	
WGDJD8.0D8L60A60	WGDJD8.0D8L60A60B	WGDJD8.0D8L60A60T	90°	8	8	16	60	
WGDJD10D10L75A60	WGDJD10D10L75A60B	WGDJD10D10L75A60T	90°	10	10	20	75	
WGDJD12D12L75A60	WGDJD12D12L75A60B	WGDJD12D12L75A60T	90°	12	12	24	75	

Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
WGDJD1.0D4L50A120	WGDJD1.0D4L50A120B	WGDJD1.0D4L50A120T	120°	1	4	2	50	
WGDJD2.0D4L50A120	WGDJD2.0D4L50A120B	WGDJD2.0D4L50A120T	120°	2	4	4	50	
WGDJD3.0D4L50A120	WGDJD3.0D4L50A120B	WGDJD3.0D4L50A120T	120°	3	4	6	50	
WGDJD4.0D4L50A120	WGDJD4.0D4L50A120B	WGDJD4.0D4L50A120T	120°	4	4	8	50	
WGDJD5.0D5L50A120	WGDJD5.0D5L50A120B	WGDJD5.0D5L50A120T	120°	5	5	10	50	
WGDJD6.0D6L50A120	WGDJD6.0D6L50A120B	WGDJD6.0D6L50A120T	120°	6	6	12	50	
WGDJD8.0D8L60A120	WGDJD8.0D8L60A120B	WGDJD8.0D8L60A120T	120°	8	8	16	60	
WGDJD10D10L75A120	WGDJD10D10L75A120B	WGDJD10D10L75A120T	120°	10	10	20	75	
WGDJD12D12L75A120	WGDJD12D12L75A120B	WGDJD12D12L75A120T	120°	12	12	24	75	

STDJD. . 双头钨钢定点钻

Double headed tungsten steel fixed-point drill

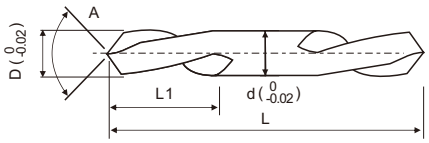
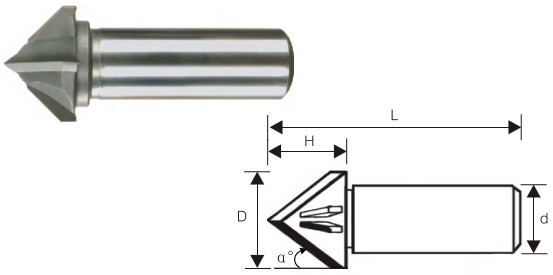


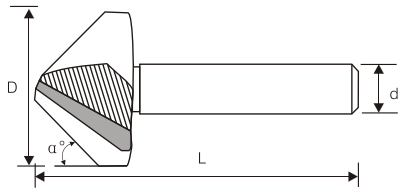
Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
STDDZ3.0D4L100A90	STDDZ3.0D3L100A90B	STDDZ3.0D3L100A90T	90°	3	3	6	100	
STDDZ4.0D4L100A90	STDDZ4.0D4L100A90B	STDDZ4.0D4L100A90T	90°	4	4	8	100	
STDDZ5.0D5L100A90	STDDZ5.0D5L100A90B	STDDZ5.0D5L100A90T	90°	5	5	10	100	
STDDZ6.0D6L100A90	STDDZ6.0D6L100A90B	STDDZ6.0D6L100A90T	90°	6	6	12	100	
STDDZ8.0D8L100A90	STDDZ8.0D8L100A90B	STDDZ8.0D8L100A90T	90°	8	8	16	100	
STDDZ10D10L100A90	STDDZ10D10L100A90B	STDDZ10D10L100A90T	90°	10	10	20	100	
STDDZ12D12L100A90	STDDZ12D12L100A90B	STDDZ12D12L100A90T	90°	12	12	24	100	

SWA 45° 焊刃式超微粒钨钢倒角铣刀

Welding edge type ultra-fine particle tungsten steel chamfering cutter



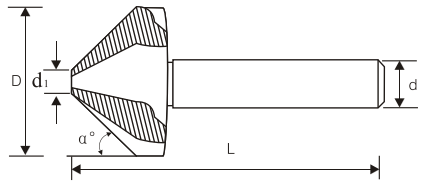
规格型号 Type	尺寸 Size(mm) 外径 D +0.5 +0	刃高 H	单边角度 α°	柄径 d(h7)	全长 L		订购编码 Order Number	单价 Price
SWA45°-20	20	10	45°	16	90	2	363100	205
-25	25	12	45°	16	90	2	363102	255
-30	30	15	45°	20	100	2	363104	340
-35	35	17	45°	20	100	2	363106	390
-40	40	20	45°	25	100	2	363108	460
-50	50	25	45°	32	110	4	363110	920
-60	60	30	45°	32	120	6	363112	1340



规格型号 Type	尺寸 Size(mm) 外径 D +0.5 +0	柄径 d(h7)	全长 L	单边角度 α°	齿数 T	订购编码 Order Number	单价 Price
SWCS45° 12X1T	12	8	60	45°	1T	363200	
16X1T	16	10	65	45°	1T	363202	
20X1T	20	10	70	45°	1T	363204	
25X1T	25	10	80	45°	1T	363206	
31X1T	31	12	80	45°	1T	363208	
40X1T	40	12	85	45°	1T	363210	
50X1T	50	12	85	45°	1T	363212	

SWCS 45° 焊刃式超微粒钨钢内孔倒角刀(3刃机用型)

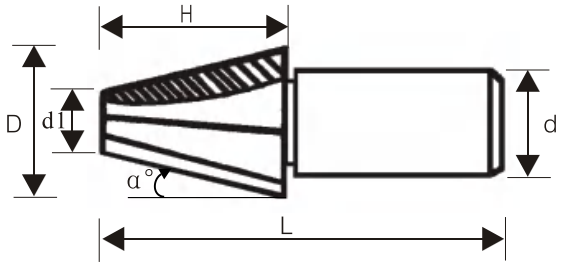
Welding edge type ultra-fine particle tungsten steel inner hole chamfering cutter (3 blade machine type)



规格型号 Type	尺寸 Size(mm) 外径 D +0.5 +0	最小径 d_1	柄径 d(h7)	全长 L	单边角度 α°	齿数 T	订购编码 Order Number	单价 Price
SWCS45° 12.4x3T	12.4	4.5	8	56	45°	3T	363300	
16.5x3T	16.5	5	10	60	45°	3T	363302	
20.5x3T	20.5	6	10	65	45°	3T	363304	
25x3T	25	6.5	10	65	45°	3T	363306	
31x3T	31	7.5	12	70	45°	3T	363308	
35x3T	35	7.5	12	70	45°	3T	363310	
40x3T	40	8	12	75	45°	3T	363312	
50x3T	50	9	12	80	45°	3T	363314	

SWA 焊刃式超微粒钨钢斜度铣刀

Welding edge type ultra-fine particle tungsten steel inclined milling cutter



	小外径 D +0.1 +0	刃高 H	单边角度 α°	大外径 D	柄径 d(h7)	全长 L	订购编码 Order Number	单价 Price
SWA 6-5°	6	30	5°	11.25	10	70	362500	185
6-8°	6	30	8°	14.53	12	70	362502	200
6-10°	6	30	10°	16.58	16	70		
6-12°	6	30	12°	18.75	16	70	362504	240
6-15°	6	30	15°	22.08	16	70		
8-5°	8	35	5°	14.12	12	85	362506	320
8-8°	8	35	8°	17.84	16	85		
8-10°	8	35	10°	20.34	16	85	362508	390
8-12°	8	35	12°	22.88	16	85		
8-15°	8	35	15°	26.76	16	85	362510	565
10-5°	10	40	5°	17	16	90		
10-8°	10	40	8°	21.24	16	90	362512	485
10-10°	10	40	10°	24.11	16	90		
10-12°	10	40	12°	27	16	90	362514	595
10-15°	10	40	15°	31.44	16	90		

55° 钨钢内R铣刀
Tungsten Steel Inner R Milling Cutter
Can Cut Steel Below 55HRC

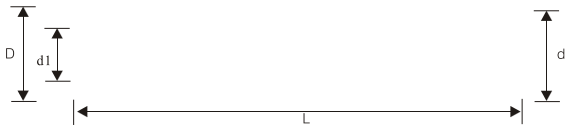


AL-NRXD.. 铝用内R铣刀
Internal R milling cutter for aluminum

H55C-NRXD.. 古铜色涂层铣刀
Bronze coated milling cutters

规格尺寸 D1RxDxL	单价 RMB
D4R0. 5xD4x50	
D4R0. 75xD4x50	
D4R1. 0xD4x50	
D6R1. 0xD6x50	
D6R1. 5xD6x50	
D6R2. 0xD6x50	
D8R2. 0xD8x50	
D8R2. 5xD8x50	
D8R3. 0xD8x50	
D10R4. 0xD10x60	
D12R5. 0xD12x60	

SWCR 焊刃式超微粒钨钢外角R铣刀
Welding edge type ultra-fine particle tungsten steel outer corner R milling cutter



规格型号 Type	尺寸 Size(mm) 外径 D $^{-0}_{-0.03}$	小径 d1	R角	柄径 d(h7)	全长 L	齿数 T	订购编码 Order Number	单价 Price
SWCR- 18-3.0R	18	10	3.0R	16	100	4	362400	235
20-3.5R	20	11	3.5R	16	100	4	362402	260
22-4.0R	22	12	4.0R	20	100	4	362404	280
24-4.5R	24	12	4.5R	20	120	4	362406	340
25-5.0R	25	13	5.0R	25	120	4	362408	340
28-6.0R	28	14	6.0R	25	120	4	362410	390
31-7.0R	31	15	7.0R	25	120	4	362412	435
33-8.0R	33	15	8.0R	32	130	4	362414	495
37-9.0R	37	17	9.0R	32	130	4	362416	575
42-10.0R	42	20	10.0R	32	130	4	362418	645
44-11.0R	44	20	11.0R	32	130	4	362420	710
48-12.0R	48	22	12.0R	32	150	4	362422	815
50-13.0R	50	22	13.0R	32	150	4	362424	890
52-14.0R	52	22	14.0R	42	150	4	362426	925
54-15.0R	54	22	15.0R	42	150	4	362428	1010
56-16.0R	56	22	16.0R	42	170	4	362430	1115
60-18.0R	60	22	18.0R	42	170	4	362432	1245
64-20.0R	64	22	20.0R	42	170	4	362434	1385

钨钢中心钻 产品编码：532...
Tungsten steel fixed point drill, center drill



WGZXZ..

尺寸 size 刃径 Blade diameter	刃长 blade length	柄径 Stem diameter	全长 entire length	单价 Order Number
Ø1.0	2.4	4	38	
Ø1.5	2.4	4	38	
Ø2.0	2.9	4	50	
Ø2.0	2.9	6	50	
Ø2.5	3.1	6	50	
Ø3.0	3.9	6	50	
Ø3.0	3.9	8	50	
Ø4.0	5.0	10	65	
Ø5.0	6.3	12	60	

高速钢中心钻 产品编码：529...
High speed steel center drill 通用型



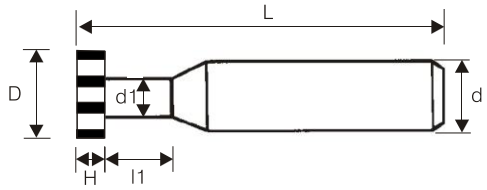
ZXZ..

规格尺寸 size	单价 Order Number
0.4×3.0×31	
0.5×3.0×31	
0.6×3.5×36	
0.8×4.0×36	
1.0×4.0×36	
1.2×5.0×42	
1.5×5.0×42	
2.0×5.0×42	
2.5×6.0×47	
3.0×7.7×57	
3.2×7.7×57	
4.0×10×69	
5.0×11×69	
6.0×16×90	
8.0×18×100	
10×18×100	

SWT 焊刃式超微粒钨钢T型铣刀(平齿刃)

Welding edge type ultra-fine particle tungsten steel T-type milling cutter (flat tooth edge)

模具加工专用

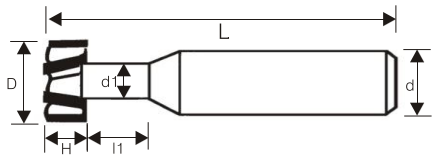


规格型号 Type	尺寸 Size(mm) 外径 D				柄径 d(h7)	全长 L	齿数 T	订购编码 Order Number	单价 Price

SWTS 焊刃式超微粒钨钢T型铣刀(千鸟刃)

Welding edge type ultra-fine particle tungsten steel T-type milling cutter (Thousand Birds)

模具加工专用

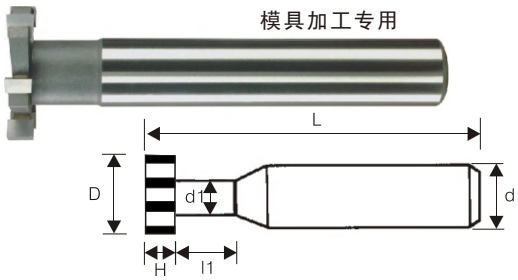


规格型号 Type	尺寸 Size(mm) 外径 D	刃高 H	颈径 d_1	颈长 l_1	柄径 d(h7)	全长 L	齿数 T	订购编码 Order Number	单价 Price
SWTS- 16x(6~12)H	16	6/8/10/12	7	15	12	100	4		
20x(6~12)H	20	6/8/10/12	10	15	12	100	4		
25x(6~12)H	25	6/8/10/12	13	15	16	120	6		
30x(6~12)H	30	6/8/10/12	15	15	16	120	6		
32x(6~12)H	32	6/8/10/12	15	15	16	120	6		
35x(6~12)H	35	6/8/10/12	15	15	16	120	6		
40x(6~12)H	40	6/8/10/12	21	15	25	140	6		
45x(6~12)H	45	6/8/10/12	23	15	25	140	6		
50x(6~12)H	50	8/10/12	24.5	15	25	140	8		
60x(6~12)H	60	8/10/12	30	20	32	140	10		

SWTI 焊刃式超微粒钨钢T型铣刀(平齿刃)

Welding edge type ultra-fine particle tungsten steel T-type milling cutter (flat tooth edge)

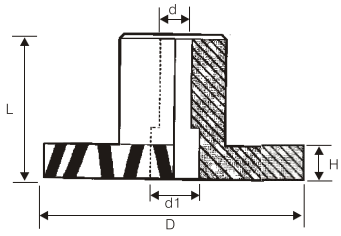
模具加工专用



规格型号 Type	尺寸 Size(mm) 外径 D	刃高 H	颈径 d_1	颈长 l_1	柄径 d(h7)	全长 L	齿数 T	订购编码 Order Number	
SWTI- 3/4"x1/8"H									
3/4"x5/32"H									
1"x1/8"H									
1"x3/16"H									
1"x1/4"H									
1"1/4x3/16"H									
1"1/4x1/4"H									
1"1/4x5/16"H									

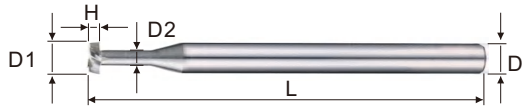
SWST 焊刃式超微粒钨钢筒状侧铣刀

Welding edge type ultra-fine particle tungsten steel tubular side milling cutter



规格型号 Type	尺寸 Size(mm) 外径 D	刃高 H	孔径 d(h7)	底盘直径 d_1	总高度 L	齿数 T	订购编码 Order Number

60° 钨钢T型槽铣刀
Tungsten Steel T-Groove Side Milling Cutter Can Cut Steel Below 55HRC



AL-TXD.. 铝用T型槽铣刀
T-slot milling cutter for aluminum

TXD.. 古铜色T型槽涂层铣刀
Bronze T-groove coated milling cutter

规格尺寸 D1RxDxL	单价 RMB
D4x0.5HxD1.5xD6x50	
D4x1HxD1.5xD6x50	
D4x1.5HxD1.5xD6x50	
D4x2HxD1.5xD6x50	
D4x3HxD1.5xD6x50	
D6x0.5HxD2.5xD8x50	
D6x1HxD2.5xD8x50	
D6x1.5HxD2.5xD8x50	
D6x2HxD2.5xD8x50	
D6x3HxD2.5xD8x50	
D8x0.5HxD3.5xD8x60	
D8x1HxD3.5xD8x60	
D8x1.5HxD3.5xD8x60	
D8x2HxD3.5xD8x60	
D8x3HxD3.5xD8x60	
D10x0.5HxD4xD10x75	
D10x1HxD4xD10x75	
D10x1.5HxD4xD10x75	
D10x2HxD4xD10x75	
D10x3HxD4xD10x75	
D12x0.5HxD5xD12x75	
D12x1HxD5xD12x75	
D12x1.5HxD5xD12x75	
D12x2HxD5xD12x75	
D12x3HxD5xD12x75	

棒棒糖铣刀
Round Head T-Groove Cutter

AL-BBTXD.. 铝用T型槽铣刀
T-slot milling cutter for aluminum



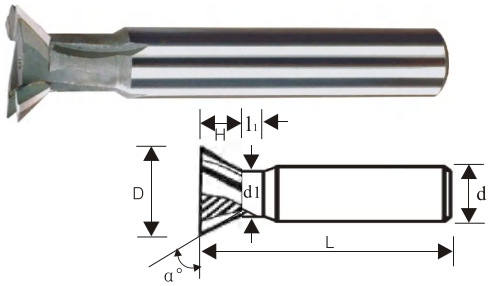
BBTXD.. 古铜色T型槽涂层铣刀
Bronze T-groove coated milling cutter



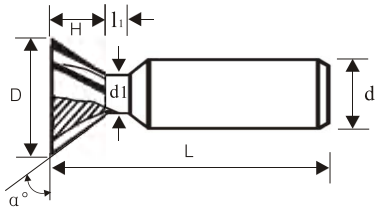
规格尺寸 DxR	铝用 AL	涂层 Coatings
3xR0.5~R1.5		
4xR0.5~R2.0		
5xR0.5~R2.5		
6xR1.0~R3.0		
8xR1.0~R4.0		
10xR1.0~R5.0		
12xR1.0~R6.0		

SWD 45° 焊刃式超微粒钨钢鸠尾槽铣刀-45°

Welding edge type ultra-fine particle tungsten steel tail groove milling cutter -45°



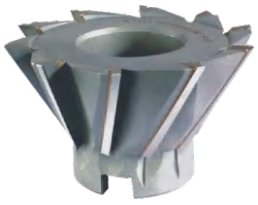
规格型号 Type	尺寸 Size(mm)								订购编码 Order Number	单价 Price
	外径 D	刃高 H	颈径 d_1	颈长 l_1	单边角度 α°	柄径 d(h7)	全长 L	齿数 T		
SWD45°-20	20	6	9	15	45°	12	95	4	364200	230
-25	25	7	10	15	45°	12	95	4	364202	280
-30	30	8	11	15	45°	16	100	4	364204	350
-35	35	10	13	15	45°	16	100	4	364206	425
-40	40	12	13	15	45°	20	100	6	364208	630
-45	45	13	17	15	45°	20	100	6	364210	775
-50	50	15	17	15	45°	25	105	6	364212	910
-60	60	18	21	15	45°	25	110	6	364214	1115
-65	65	20	21	20	45°	25	110	6	364216	1225

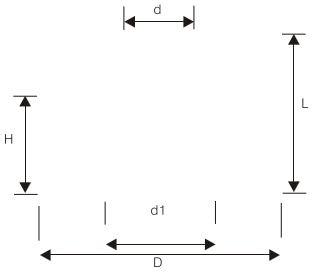


规格型号 Type	尺寸 Size(mm)								订购编码 Order Number	单价 Price
	外径 D	刃高 H	颈径 d_1	颈长 l_1	单边角度 α°	柄径 d(h7)	全长 L	齿数 T		
SWD60°-20	20	8	9	15	60°	12	90	4	364300	240
25	25	11	10	15	60°	12	95	4	364302	300
30	30	14	11	15	60°	20	100	4	364304	400
35	35	15	15	15	60°	20	100	6	364306	590
40	40	17	17	20	60°	20	105	6	364308	665
45	45	20	19	20	60°	20	105	6	364310	865
50	50	22	22	20	60°	25	110	6	364312	1005
55	55	26	22	20	60°	25	110	6	364314	1140
60	60	28	25	20	60°	32	120	6	364316	1270
65	65	32	25	20	60°	32	120	6	364318	1380

SWDT 60° 焊刃式超微粒钨钢鸠尾槽筒状铣刀-60°

Welding edge type ultra-fine particle tungsten steel dovetail cylindrical milling cutter -60°

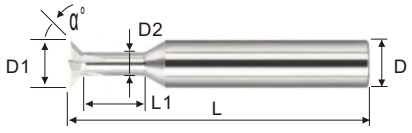




规格型号 Type	尺寸 Size(mm)						订购编码 Order Number	单价 Price
	外径 D	刃高 H	孔径 d(h7)	底盘直径 d_1	总高度 L	齿数 T		
SWDT60°-80	80	30	1"	42	50	8	364400	1410
SWDT60°-100	100	40	1"	50	60	10	364402	2180
SWDT60°-100	100	40	1"1/4	50	60	10	364404	2180
SWDT60°-125	125	50	1"1/4	60	70	10	364406	3030
SWDT60°-150	150	55	1"1/2	80	75	12	364408	4030

60° 钨钢燕尾槽铣刀

Tungsten Steel Dovetail Groove Milling Cutter Can Cut Steel Below 60HRC



AL-YWD..

铝用燕尾槽铣刀

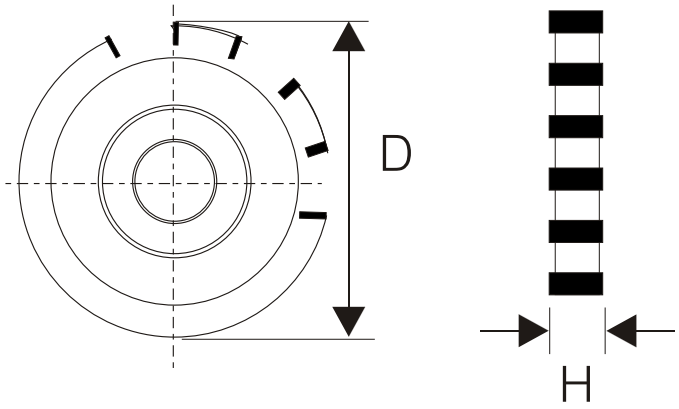
Aluminum dovetail groove milling cutter

YWD..

古铜色燕尾槽涂层铣刀

Bronze dovetail groove coated milling cutter

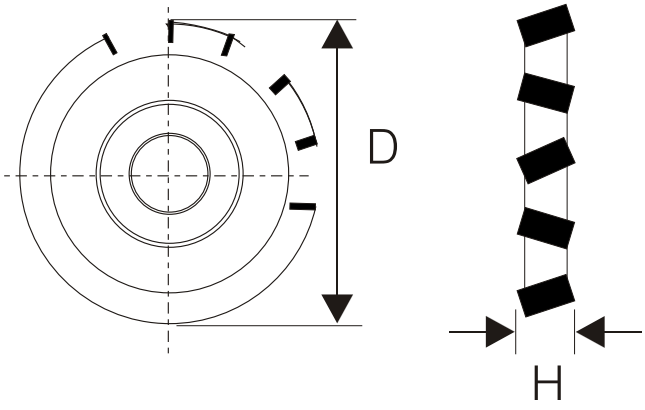
规格尺寸 D1xα° xD2xL1xDxL	单价 RMB
D4x90°xD1.5x6xD4x50	
D6x90°xD2.5x8xD6x50	
D8x90°xD3x6xD8x50	
D10x90°xD4x10xD10x60	
D12x90°xD5x12xD12x60	



直刃(25.4孔)平齿

				订购编码 Order Number	单价 Price
SWS-75x3H		3	14	365100	380
SWS-75x4H		4	14	365102	380
SWS-75x5H		5	14	365104	380
SWS-75x6H		6	14	365106	380
SWS-75x7H		7	14	365108	470
SWS-100x3H		3	16	365110	450
SWS-100x4H		4	16	365112	450
SWS-100x5H		5	16	365114	450
SWS-100x6H		6	16	365116	450
SWS-100x7H		7	16	365118	560
SWS-100x3H		3	18	365120	450
SWS-125x4H		4	18	365122	530
SWS-125x5H		5	18	365124	530
SWS-125x6H		6	18	365126	530
SWS-125x7H		7	18	365128	660
SWS-125x3H		3	20	365130	625
SWS-150x4H		4	20	365132	625
SWS-150x5H		5	20	365134	625
SWS-150x6H		6	20	365136	625
SWS-150x7H		7	20	365138	775
SWS-175x5H		5	20	365140	695
SWS-175x6H		6	20	365142	695
SWS-175x7H		7	20	365144	855
SWS-200x5H		5	24	365146	2100
SWS-200x6H		6	24	365148	2100
SWS-200x7H		7	24	365150	2600



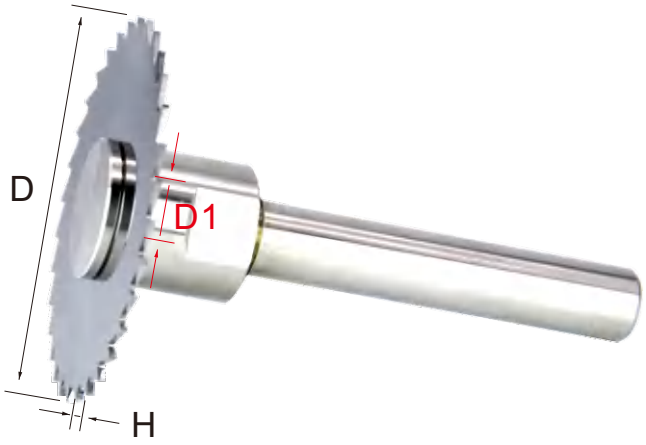


千岛刃(25.4孔)错齿

规格型号 Type	尺寸 Size(mm)			订购编码 Order Number	单价 Price
	外径 D +0.05 +0	刃厚 H +0.02 +0	齿数 T		
SWSS-75x8H	75	8	14	365200	585
SWSS-75x9H	75	9	14	365202	700
SWSS-75x10H	75	10	14	365204	700
SWSS-75x11H	75	11	14	365206	810
SWSS-75x12H	75	12	14	365208	810
SWSS-100x8H	100	8	16	365210	700
SWSS-100x9H	100	9	16	365212	830
SWSS-100x10H	100	10	16	365214	830
SWSS-100x11H	100	11	16	365216	915
SWSS-100x12H	100	12	16	365218	915
SWSS-125x8H	125	8	18	365220	825
SWSS-125x9H	125	9	18	365222	985
SWSS-125x10H	125	10	18	365224	985
SWSS-125x11H	125	11	18	365226	1140
SWSS-125x12H	125	12	18	365228	1140
SWSS-150x8H	150	8	20	365230	970
SWSS-150x9H	150	9	20	365232	1155
SWSS-150x10H	150	10	20	365234	1155
SWSS-150x11H	150	11	20	365236	1340
SWSS-150x12H	150	12	20	365238	1340
SWSS-175x8H	175	8	20	365240	1070
SWSS-175x9H	175	9	20	365242	1275
SWSS-175x10H	175	10	20	365244	1275
SWSS-175x11H	175	11	20	365246	1480
SWSS-175x12H	175	12	20	365248	1480
SWSS-200x8H	200	8	24	365250	1300
SWSS-200x9H	200	9	24	365252	1550
SWSS-200x10H	200	10	24	365254	1550
SWSS-200x11H	200	11	24	365256	1800
SWSS-200x12H	200	12	24	365258	1800

锯片刀杆

Saw Blade Toolholder



WGJP..

钨钢锯片

tungsten steel saw blade

规格表达: WGJPDx厚度xD1x刃数

WGJP20x0.6x6x20T

规格 DxD1x刃数	厚度 H									
	0.2~1.0	1.1~1.3	1.4~1.5	1.6~2.0	2.1~2.5	2.6~3.0	3.1~3.5	3.6~4.0	4.1~4.5	4.6~5.0
20x6x20T	37	47	47							
20x6x45T	41	50	50	56						
25x6x25T	43	53	53							
25x6x45T	47	56	61	69						
30x10x26T	47	56	56							
30x10x50T	50	57	57	63						
35x10x50T	56	66	66	70						
40x13	41	41	41	46	51	61	70	77	90	100
50x16	54	54	54	64	74	93	100	116	123	131
60x16	64	64	71	83	97	123	136	150	177	193
63x16	74	74	79	93	107	131	161	177	200	231
70x22	84	84	84	100	127	177	193	229	240	251
75x22/25.4	101	101	101	117	147	176	206	231	263	293
80x22/25.4	111	111	111	136	167	209	244	277	309	347
90x22/27	139	139	139	177	210	254	296	344	379	424
100x22/27x	157	157	157	213	263	316	370	417	486	540
110x22/27	179	179	200	247	309	393	456	517	586	656
125x22/27	229	229	244	309	401	509	556	663	749	817
150x32	401	401	447	509	571	701	771	871	957	1057
160x32	431	431	479	556	649	756	880	996	1111	1227
180x32	586	586	694	817	926	1049				
200x32	803	803	894	1019	1157	1311	1481	1666		

锯片刀杆

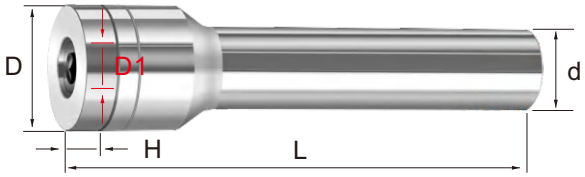
Saw Blade Toolholder

JPDG..

新款

NEW





规格 内孔x柄径x头部x压帽x总长	单价 RMB
12.7 xd12xD18xH4.6x68L	39
13 xd12xD18xH4.6x68L	39
xd12xD18xH4.6x92L	60
xd10xD18xH4.6x68L	39
xd10xD18xH4.6x92L	60
16 xd16xD22xH5.5x75L	47
xd16xD22xH5.5x140L	97
xd16xD22xH5.5x180L	176
多锯片xd16xD22xH5.5x180L	214
xd15xD22xH5.5x80L	47
xd15xD22xH5.5x130L	97
22 xd16xD28xH5.5x88L	51
xd16xD28xH5.5x130L	150
xd20xD28xH5.5x88L	51
xd20xD28xH5.5x130L	150
25.4 xd20xD32xH7.1x85L	56
xd20xD32xH7.1x180L	226
27 xd20xD32xH7.1x85L	56
xd20xD32xH7.1x180L	226
32 xd20xD37xH7.1x90L	73

规格 D1xdxDxHxL	单价 RMB
4 xd8xD8xH3.7x50L	33
xd8xD8xH3.7x60L	34
xd8xD8xH3.7x80L	43
5 xd10xD10xH4.3x68L	34
6 xd10xD10xH4.3x68L	34
xd10xD10xH4.3x95L	47
8 xd12xD12xH5.2 x68L	36
10 xd10xD15xH4.3x68L	39
xd10xD15xH4.3x95L	53
xd9xD15xH4.3x68L	39
xd9xD15xH4.3x92L	53

单刃亚克力铣刀

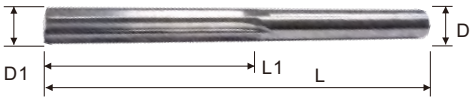
Single-Edge Acrylic / Aluminium Milling Cutter

YKL-1F55C..



规格尺寸 Dimensions D1xL1xDxL	普通 General	抛光 Polishing	铝用 AL -Polishing
D2x6xD3. 175x50	8. 6		
D2x8xD3. 175x50	8. 6		
D2x10xD3. 175x50	8. 6		
D2x12xD3. 175x50	8. 6		
D2x22xD3. 175x50	8. 6		
D2. 5x8xD3. 175x50	8. 6		
D2. 5x15xD3. 175x50	8. 6		
D2. 5x22xD3. 175x50	8. 6		
D3. 175x12xD3. 175x50	8. 6	16.6	18
D3. 175x15xD3. 175x50	8. 6	16.6	18
D3. 175x17xD3. 175x50	8. 6	16.6	18
D3. 175x22xD3. 175x50	13	18	19.6
D3. 175x25xD3. 175x50	14. 5	18	19.6
D3. 175x28xD3. 175x50	16	24	25.6
D3. 175x32xD3. 175x50	17	27	28.6
D3. 175x42xD3. 175x60	33	39	40.6
D3. 175x52xD3. 175x70	43	51	52.6
D4x12xD4x50	20	22.6	25.6
D4x15xD4x50	20	22.6	25.6
D4x17xD4x50	20	22.6	25.6
D4x22xD4x50	20	22.6	25.6
D4x25xD4x50	22	24	27
D4x28xD4x50	25	30	33
D4x32xD4x50	27	36	39
D4x42xD4x60	43	51	54
D4x52xD4x70	56	72	75
D6x12xD6x50	39	42	48
D6x15xD6x50	39	42	48
D6x17xD6x50	39	42	48
D6x22xD6x50	39	42	48
D6x25xD6x50	39	42	48
D6x28xD6x50	47	51	57
D6x32xD6x50	47	54	60
D6x42xD6x60	66	74.6	81
D6x52xD6x70	85	93.4	108
D6x62xD6x80	105	135	141
D6x72xD6x90	132	165	171
D8x20xD8x50	83	140	178.6
D8x32xD8x50	83	140	178.6
D10x20xD10x50	148	150	207.1
D10x32xD10x50	148	150	207.1
D12x20xD12x50	197	210	225
D12x32xD12x50	197	210	225

55° 直刃钨钢铰刀
Straight-Edged Tungsten Steel Reamer



WGZCJD..

直槽涂层铰刀

Straight groove coated reamer

AL-WGZCJD..

直槽铝用无涂层

Uncoated straight groove aluminum

规格尺寸 D1xL1xDxLx刃数T	单价 RMB
D3x50xD3x100Lx4T	25
D4x50xD4x100Lx4T	27
D5x50xD5x100Lx6T	37
D6x50xD6x100Lx6T	40
D8x50xD8x100Lx6T	61
D10x50xD10x100Lx6T	93
D12x50xD12x100Lx6T	126

55° 螺旋刃钨钢铰刀
Spiral-Edged Tungsten Steel Reamer



WGLXJD..

螺旋槽涂层铰刀

Spiral groove coated reamer

AL-WGLXJD..

螺旋槽铝用无涂层

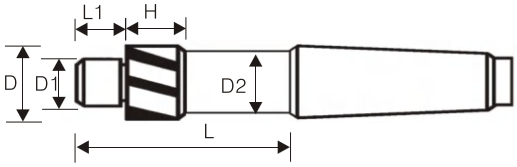
Uncoated spiral groove aluminum

规格尺寸 D1xL1xDxLx刃数T	单价 RMB
D3x50xD3x100Lx4T	32
D4x50xD4x100Lx4T	34
D5x50xD5x100Lx6T	47
D6x50xD6x100Lx6T	56
D8x50xD8x100Lx6T	89
D10x50xD10x100Lx6T	129
D12x50xD12x100Lx6T	171

SWC 焊刃式超微粒钨钢沉头铣刀

Welding edge type ultra-fine particle tungsten steel countersunk head milling cutter





规格型号 Type	尺寸 Size(mm)								订购编码 Order Number	单价 Price
	外径 D(H7)	刃长 H	沉头径 D_1(h7)	沉头长 L_1	颈径 D_2	工作长 L	齿数 T	莫式锥 MT		
SWC-21x15H-MT	21	15	15.9	15	18	110	4	3	366100	445
SWC-26x15H-MT	26	15	19.9	15	23	110	4	3	366102	535
SWC-31x15H-MT	31	15	24.9	15	27	110	4	3	366104	590
SWC-36x15H-MT	36	15	29.9	15	30	110	4	4	366106	805
SWC-41x15H-MT	41	15	34.9	15	36	110	6	4	366108	955
SWC-46x15H-MT	46	15	39.9	15	39	110	6	4	366110	1045
SWC-51x15H-MT	51	15	44.9	15	46	110	6	4	366112	1160
SWC-56x15H-MT	56	15	49.9	15	48	110	6	4	366114	1260
SWC-61x15H-MT	61	15	54.9	15	50	110	8	4	366116	1380
SWC-66x15H-MT	66	15	59.9	15	56	110	8	4	366118	1510

SWB 焊刃式超微粒钨钢右斜插铣刀-扩孔修正刀

Welding Edge Type Ultra-Fine Particle Tungsten Steel Right Oblique Insertion Milling Cutter - Reaming Correction Cutting



规格型号 Type	尺寸 Size(mm)					订购编码 Order Number	单价 Price
	D(H7)	刃长 H	工作长 L	莫式锥柄 MT	齿数 T		
SWB-15.7x11HXMT	15.7	11	150	3#	2	366200	330
SWB-19.7x11HXMT	19.7	11	200	3#	2	366202	430
SWB-24.7x11HXMT	24.7	11	200	3#	4	366204	545
SWB-29.7x11HXMT	29.7	11	230	4#	4	366206	715

УиП Carbide Precision Grinding Round Rod



This product is divided into HRC50, HRC55, HRC65 cutting hardness materials, all materials after precision cylindrical grinding.
It is suitable for the processing of most materials.

Diameter	Length	Order NO.	HRC50 TYPE	Price	Order NO.	HRC55 TYPE	Price	Order NO.	HRC65 TYPE	Price
Ø1	100	36380000	WGYBF500-1X100	25	36380100	WGYBF550-1X100	37.5	36380200	WGYBF650-1X100	80
Ø1.5	100	36380002	WGYBF500-1.5X100	25	36380102	WGYBF550-1.5X100	37.5	36380202	WGYBF650-1.5X100	80
Ø2	100	36380004	WGYBF500-2X100	25	36380104	WGYBF550-2X100	37.5	36380204	WGYBF650-2X100	80
Ø2	150	36380006	WGYBF500-2X150	75	36380106	WGYBF550-2X150	80	36380206	WGYBF650-2X150	120
Ø2.5	100	36380008	WGYBF500-2.5X100	35	36380108	WGYBF550-2.5X100	45	36380208	WGYBF650-2.5X100	125
Ø3	100	36380010	WGYBF500-3X100	35	36380110	WGYBF550-3X100	45	36380210	WGYBF650-3X100	125
Ø3	150	36380012	WGYBF500-3X150	55	36380112	WGYBF550-3X150	70	36380212	WGYBF650-3X150	
Ø3	200	36380014	WGYBF500-3X200	70	36380114	WGYBF550-3X200	90	36380214	WGYBF650-3X200	
Ø4	100	36380016	WGYBF500-4X100	55	36380116	WGYBF550-4X100	75	36380216	WGYBF650-4X100	225
Ø4	150	36380018	WGYBF500-4X150	90	36380118	WGYBF550-4X150	120	36380218	WGYBF650-4X150	
Ø4	200	36380020	WGYBF500-4X200	125	36380120	WGYBF550-4X200	150	36380220	WGYBF650-4X200	
Ø5	100	36380022	WGYBF500-5X100	80	36380122	WGYBF550-5X100	105	36380222	WGYBF650-5X100	
Ø5	150	36380024	WGYBF500-5X150	130	36380124	WGYBF550-5X150	160	36380224	WGYBF650-5X150	
Ø5	200	36380026	WGYBF500-5X200	190	36380126	WGYBF550-5X200	200	36380226	WGYBF650-5X200	
Ø6	100	36380028	WGYBF500-6X100	115	36380128	WGYBF550-6X100	160	36380228	WGYBF650-6X100	400
Ø6	150	36380030	WGYBF500-6X150	200	36380130	WGYBF550-6X150	240	36380230	WGYBF650-6X150	
Ø6	200	36380032	WGYBF500-6X200	275	36380132	WGYBF550-6X200	320	36380232	WGYBF650-6X200	
Ø7	100	36380034	WGYBF500-7X100	150	36380134	WGYBF550-7X100	200	36380234	WGYBF650-7X100	
Ø8	100	36380036	WGYBF500-8X100	200	36380136	WGYBF550-8X100	250	36380236	WGYBF650-8X100	550
Ø8	150	36380038	WGYBF500-8X150	340	36380138	WGYBF550-8X150	375	36380238	WGYBF650-8X150	
Ø8	200	36380040	WGYBF500-8X200	450	36380140	WGYBF550-8X200	500	36380240	WGYBF650-8X200	
Ø9	100	36380042	WGYBF500-9X100	250	36380142	WGYBF550-9X100	325	36380242	WGYBF650-9X100	
Ø10	100	36380044	WGYBF500-10X100	300	36380144	WGYBF550-10X100	390	36380244	WGYBF650-10X100	750
Ø10	150	36380046	WGYBF500-10X150	490	36380146	WGYBF550-10X150	585	36380246	WGYBF650-10X150	
Ø10	200	36380048	WGYBF500-10X200	690	36380148	WGYBF550-10X200	780	36380248	WGYBF650-10X200	
Ø11	100	36380050	WGYBF500-11X100	375	36380150	WGYBF550-11X100	475	36380250	WGYBF650-11X100	
Ø12	100	36380052	WGYBF500-12X100	430	36380152	WGYBF550-12X100	560	36380252	WGYBF650-12X100	1200
Ø12	150	36380054	WGYBF500-12X150	750	36380154	WGYBF550-12X150	850	36380254	WGYBF650-12X150	
Ø12	200	36380056	WGYBF500-12X200	990	36380156	WGYBF550-12X200	1120	36380256	WGYBF650-12X200	
Ø14	100	36380058	WGYBF500-14X100	600	36380158	WGYBF550-14X100		36380258	WGYBF650-14X100	
Ø16	100	36380060	WGYBF500-16X100	775	36380160	WGYBF550-16X100		36380260	WGYBF650-16X100	
Ø16	150	36380062	WGYBF500-16X150	1150	36380162	WGYBF550-16X150		36380262	WGYBF650-16X150	
Ø16	200	36380064	WGYBF500-16X200	1500	36380164	WGYBF550-16X200		36380264	WGYBF650-16X200	
Ø18	100	36380066	WGYBF500-18X100	1000	36380166	WGYBF550-18X100		36380266	WGYBF650-18X100	
Ø18	150	36380068	WGYBF500-18X150	1500	36380168	WGYBF550-18X150		36380268	WGYBF650-18X150	
Ø18	200	36380070	WGYBF500-18X200	2000	36380170	WGYBF550-18X200		36380270	WGYBF650-18X200	
Ø20	100	36380072	WGYBF500-20X100	1200	36380172	WGYBF550-20X100		36380272	WGYBF650-20X100	
Ø20	150	36380074	WGYBF500-20X150	1800	36380174	WGYBF550-20X150		36380274	WGYBF650-20X150	
Ø20	200	36380076	WGYBF500-20X200	2400	36380176	WGYBF550-20X200		36380276	WGYBF650-20X200	

皇冠钻头
Fast Drilling bit

钻尖	钻杆
K22	K23-24
适用刀柄 QD.. 快速钻头刀片	适用刀片 QD.. 切削直径 Ø8~Ø26 (通孔)快速精密钻孔

高精度铲钻
High precision shovel drill

铲钻刀片	铲钻刀杆
K18	K17-K18
适用刀柄 SD.. 快速钻头刀片	适用刀片 ..G.. 切削直径 Ø9~Ø65 (通孔)快速深孔钻孔

空心钻头
Hollow Drilling bit

空心钻头	BT 空心钻头
K25	K25
适用刀片 WC.. 切削直径 Ø50~Ø100 空心钻头	适用刀片 WC.. 切削直径 Ø55~Ø220 空心钻头

高精度铲钻
High precision shovel drill
Ø9~65mm

皇冠钻头
Fast Drilling bit
Ø8~26mm

空心钻头
Hollow Drilling bit
Ø50~220mm

快速钻头
Fast Drilling bit
Ø10~65mm

VMD大钻头/定心钻
VMD large bit / centering drill
Ø18~180mm

钻头
Drill Bit
Ø0.2~50mm



VMD大钻头/定心钻
VMD large bit / centering drill
Ø18~180mm

快速钻头
Fast Drilling bit
Ø10~65mm

钻头
Drill Bit
Ø0.2~50mm



SP自定心钻头	WC自定心钻头	VMD大钻头
K19	K19	K20
适用刀片 SP.. 切削直径 Ø18~Ø30 U钻(自定心)快速钻头	适用刀片 WC.. 切削直径 Ø25~Ø40 U钻(自定心)快速钻头	适用刀片 WC.. 切削直径 Ø45~Ø180 (自定心)大孔径钻头

高速钢钻头	直柄加长钻头	锥柄钻头	锥柄加长钻头	2F铝用定点钻
K57	K58	K59	K60	K61
高速钢钻头 直径 Ø0.2~Ø17.5 高精度孔加工	高速钢加长钻头 长度 150~600mm 高精度孔加工	高速钢钻头 直径 Ø7~Ø100 高精度孔加工	高速钢钻头 长度 Ø250~Ø600 高精度孔加工	50° 2F铝用定心钻头 适用：铝、铝合金、压铸铝 高精度孔加工

2F/3F倒角刀	中心钻	2F/3F铝用倒角刀	铰刀H7	2F铝用定心钻	高速钢钻头	高速钢钻头
K61	K61	K62	K62	K62	K63	K64
50° 2F/3F倒角刀 适用:钢加工 高精度孔加工	中心钻 直径 Ø0.4~Ø10 高精度孔加工	55° 2F/3F铝用倒角刀 刀径 Ø1~Ø12 高精度孔加工	钨钢机械铰刀H7 直径 2~20 高精度孔加工	50° 2F铝用定心钻 刀径 Ø0. 5~Ø16 高精度孔加工	粉末高速钢钻头3D 适用：刚、铝加工 高精度孔加工	粉末高速钢钻头5D 适用：刚、铝加工 高精度孔加工

高速钢直柄钻头	钨钢定柄钻头	钨钢定柄钻头	钨钢钻头
K65	K67	K68	K69
高速钢直柄钻头 适用：刚、铝加工 高精度孔加工	HRC45° 钨钢定柄钻头 适用：有色金属、钢 高精度孔加工	HRC55° 钨钢定柄钻头 适用：难加工材料 高精度孔加工	钨钢钻头（无涂层） 适用：铝、刚铸铁 高精度孔加工

钨钢钻头	锥柄焊刃铰刀	直柄焊刃铰刀
K69	K71	K72
钨钢钻头（涂层） 适用：铝、刚铸铁 高精度孔加工	钨钢焊刃铰刀 直径 Ø12~Ø60 高精度孔加工	钨钢焊刃铰刀 直径 Ø6~Ø20 高精度孔加工

WCMX	ZD..WC..	SPMG	ZD..SP..
K05	K06	K07	K08
适用刀柄 ZD..WC.. 快速钻头刀片	适用刀片 WC.. 切削直径 Ø14~Ø65 U钻(通孔)快速钻头	适用刀柄 ZD..SP.. 快速钻头刀片	适用刀片 SP.. 切削直径 Ø13~Ø60 U钻(平底孔)快速钻头

SOMT	ZD..SO..	XOMT	ZD..XO..
K09	K10	K11	K12
适用刀柄 ZD..SO.. 快速钻头刀片	适用刀片 SO.. 切削直径 Ø10~Ø50 U钻(平底孔)快速钻头	适用刀柄 ZD..XO.. 快速钻头刀片	适用刀片 XO.. 切削直径 Ø13~Ø60 U钻(平底孔)快速钻头

WDXT	WDX..	GP..	TAF..	880..
K13	K14	K15	K16	K15
适用刀柄 WDX.. 快速钻头刀片	适用刀片 WD.. 切削直径 Ø13~Ø65 U钻(平底孔)快速钻头	适用刀柄 TAF.. 快速钻头刀片	适用刀片 GP.. 切削直径 Ø12~Ø56 U钻(平底孔)快速钻头	适用刀柄 880.. 快速钻头刀片

油路刀柄配件
Oil way Tool Holder Accessories

剑齿钻刀杆	多功能钻杆	变径套	偏心套	倒角环	固定座	BT油路刀柄	莫氏油路刀柄
K26	K26		K30	K30	K30	K30	K30
剑齿钻刀杆 钻径 Ø12~Ø33. 5 高效孔加工	适用刀片 XC.. 切削直径 Ø8~Ø14 小孔钻头/车刀/镗刀	油路刀柄配件	油路刀柄配件	油路刀柄配件	油路刀柄配件	油路刀柄配件	油路刀柄配件

粗镗 Rough boring

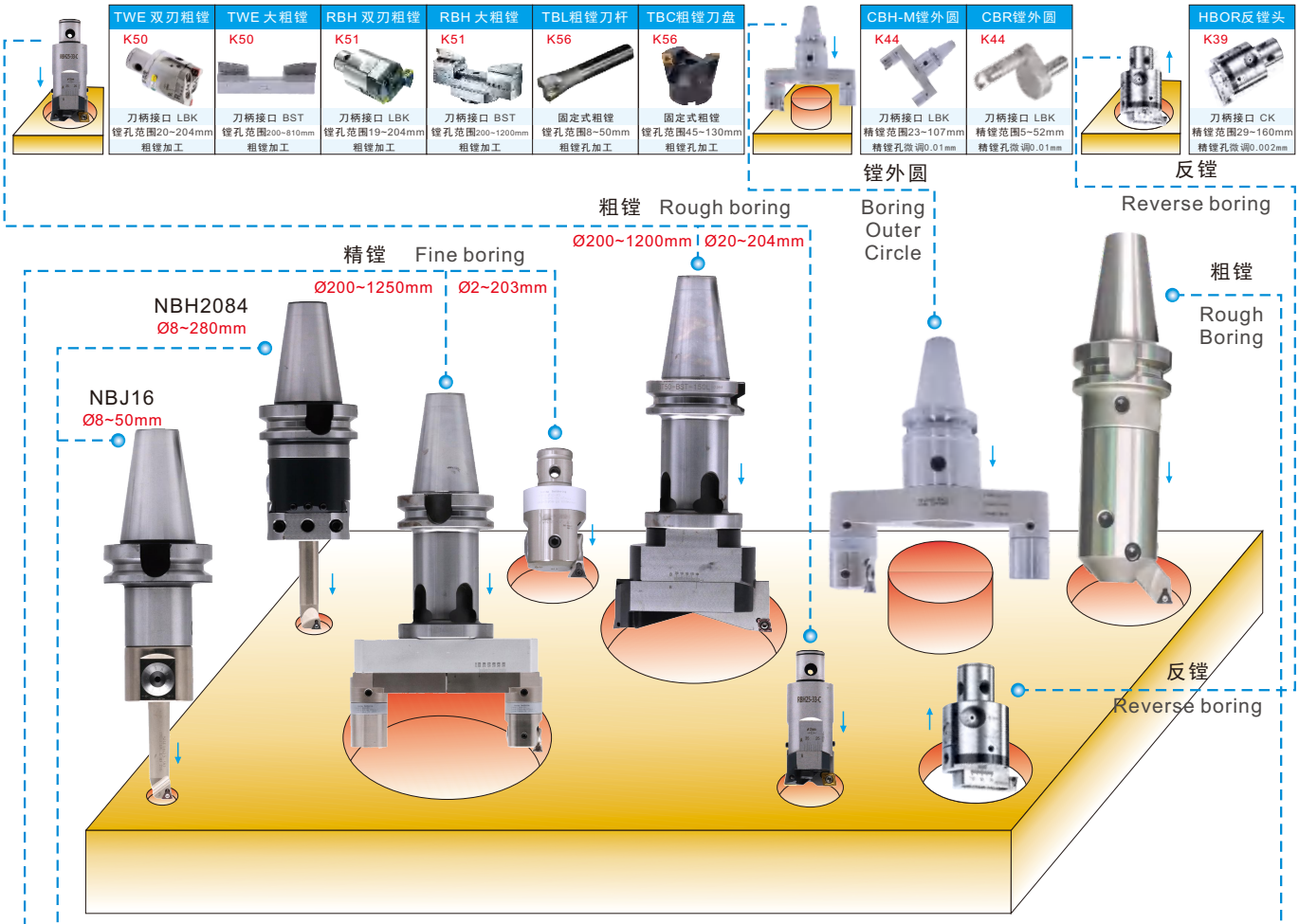
TWE 双刃粗镗	TWE 大粗镗	RBH 双刃粗镗	RBH 大粗镗	TBL粗镗刀杆	TBC粗镗刀盘
K50	K50	K51	K51	K56	K56
刀柄接口 LBK 镗孔范围20~204mm 粗镗加工	刀柄接口 BST 镗孔范围200~810mm 粗镗加工	刀柄接口 LBK 镗孔范围19~204mm 粗镗加工	刀柄接口 BST 镗孔范围200~1200mm 粗镗加工	固定式粗镗 镗孔范围8~50mm 粗镗孔加工	固定式粗镗 镗孔范围45~130mm 粗镗孔加工

镗外圆 Boring Outer Circle

CBH-M镗外圆	CBR镗外圆
K44	K44
刀柄接口 LBK 精镗范围23~107mm 精镗孔微调0.01mm	刀柄接口 LBK 精镗范围5~52mm 精镗孔微调0.01mm

反镗 Reverse boring

HBOR反镗头
K39
刀柄接口 CK 精镗范围29~160mm 精镗孔微调0.002mm



粗镗 Rough boring

TBS..30°	TBS..45°	TBS..90°	CBS..30°	CBS..45°	CBS..90°
K54 刀片TC..	K54 刀片TC..	K54 刀片TC..	K54 刀片CC..	K54 刀片CC..	K54 刀片CC..
刀杆角度 30° 镗孔范围20~190mm 粗镗加工	刀杆角度 45° 镗孔范围20~190mm 粗镗加工	刀杆角度 90° 镗孔范围20~190mm 粗镗加工	刀杆角度 30° 镗孔范围20~190mm 粗镗加工	刀杆角度 45° 镗孔范围20~190mm 粗镗加工	刀杆角度 90° 镗孔范围20~190mm 粗镗加工

BSA 粗镗	BSA..LBK..	BSB 粗镗	BSB..LBK..	SBS..30°	SBS..45°	SBS..90°
K52	K52	K52	K52	K54 刀片TP..	K54 刀片TP..	K54 刀片TP..
刀柄接口 BT柄 镗孔范围20~190mm 粗镗加工	刀柄接口 LBK 镗孔范围20~190mm 粗镗加工	刀柄接口 BT柄 镗孔范围20~190mm 粗镗加工	刀柄接口 LBK 镗孔范围20~190mm 粗镗加工	刀杆角度 30° 镗孔范围20~190mm 粗镗加工	刀杆角度 45° 镗孔范围20~190mm 粗镗加工	刀杆角度 90° 镗孔范围20~190mm 粗镗加工

精镗 Fine boring

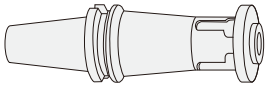
HBOR精镗头	HBOR精镗套装	钨钢小镗刀	CBH精镗头	CBH大精镗头	CBH精镗头	SCT 可调镗杆
K45	K40-K41	K40	K43	K43	K43	K44
刀柄接口 CK 精镗范围29~160mm 精镗孔微调0.002mm	刀柄接口 CK 精镗范围2~160mm 精镗孔微调0.002mm	适配刀柄 HBOR 精镗范围2~10mm 精镗孔微调0.002mm	刀柄接口 LBK 精镗范围20~203mm 精镗孔微调0.01mm	刀柄接口 LBK 精镗范围200~1250mm 精镗孔微调0.01mm	刀柄接口 直柄 精镗范围20~42mm 精镗孔微调0.01mm	刀柄接口 直柄 镗孔范围10~50mm 半精镗加工

小孔精镗及套装 Small hole fine boring and suit

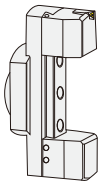
CBI小径精镗	CBI小精镗套装	BE小镗头	ST钨钢抗震杆	变径套	钨钢小镗刀	直接式搪孔刀	NBJ16 套装	NBH2084 套装
K45	K45	K46	K46	K46	K46	K47	K48	K49
刀柄接口 LBK 精镗范围3~50mm 精镗孔微调0.01mm	刀柄接口 LBK 精镗范围3~50mm 精镗孔微调0.01mm	刀柄接口 ST 精镗范围9~42mm 精镗孔微调0.01mm	刀柄接口 直柄 精镗范围9~42mm 精镗孔微调0.01mm	刀柄接口 直柄 刀具直径转换 精镗孔微调0.01mm	适配刀柄 CBI 精镗范围2~10mm 精镗孔微调0.01mm	刀杆长度114~200mm 钢铁、铸铁加工 直接式镗孔刀	套装 8支装 精镗范围8~50mm 精镗孔微调0.01mm	套装 8支装 精镗范围8~280mm 精镗孔微调0.01mm

BST 刀柄	NBH2084刀柄	BT-LBK刀柄	SK-LBK刀柄	HSK-LBK刀柄	直柄LBK刀柄	NT-LBK刀柄	MT-LBK刀柄	LBK等径延长杆	LBK异径延长杆	LBK倒角刀	镗孔刀夹
K36	K36	K37	K37	K37	K38	K38	K38	K38	K38	K55	K55
适配镗头 直径200mm以上镗刀 镗刀刀柄	适配镗头 NBH2084 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	倒角角度 45° 倒角范围5~160mm 倒角加工	镗刀配件 各种规格 镗孔加工

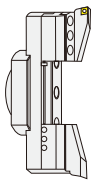
BST系列
BST BORING SYSTEM


K36

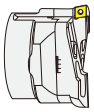
BST镗头刀柄
BST Boring Heads Bar


K43

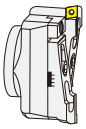
大径微调精密镗头
CHB Large Diameter Modular Micro Boring Head


K50-K51

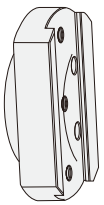
大径双刃粗镗刀
RBH Large Diameter Modular Rough Boring


K50-K51

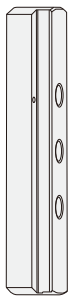
分体式粗镗孔刀头(RBH 120)
RBH Modular Roughing Boring Head


K50-K51

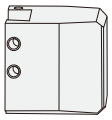
分体式粗镗孔刀头
(RBH 160)
RBH Modular Roughing Boring Head


K50-K51

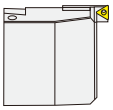
连接盘
Flange


K50-K51

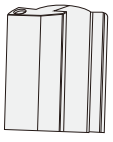
横向滑板
Extension Slide


K50-K51

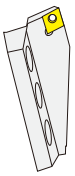
平衡滑块
Balance Weight


K50-K51

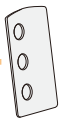
微调滑块
Finish Head


K50-K51

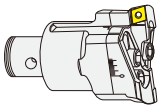
滑块
Clamp Base


K50-K51

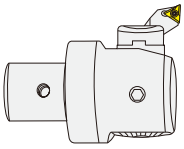
刀片座及刀片
Insert Setting And Applicable Insert


K50-K51

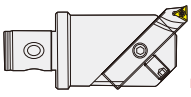
刀片座垫片
Height Setting Shim


K50-K51

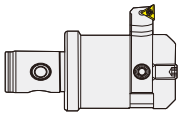
分体式粗镗孔刀头
TWE/RBH Modular Rohghing Boring Head


K43-K44

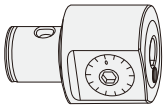
微调精密镗头
EWN/CBH Micro Boring Head


K52

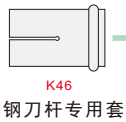
分体式45° 粗镗头
Split type 45 degree coarse boring head


K52

分体式90° 粗镗头
Split type 90 degree coarse boring head


K45-K48

精密镗头
NBJ-16 Small Diameter Mirco Boring Head


K46

钨钢刀杆专用套筒
NBJ Collet For Super Head Solid Caibide Boring Bar


K46

抗震钨钢刀杆
ST Anti-shank Solid Carbide Boring Bar

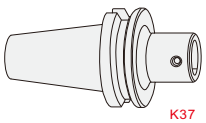

K46

BE镗头
BE Boring Head

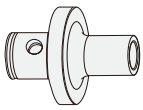

K45-K48

精镗刀杆
NBJ-16 Micro Boring Bar

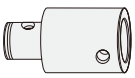
LBK系列
LBK BORING SYSTEM


K37

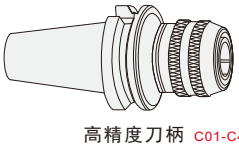
LBK镗头刀柄
Boring Head Bar


K38

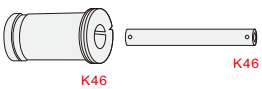
异径转换接柄(大接小)
LBK Reducing Change Adapter


K38

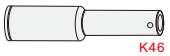
等径延长接柄
LBK Equal Diameter Extension Adapter



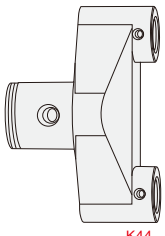
高精度刀柄 C01-C48
High Precision Toolholder


K46

超硬整体碳化钨钢镗刀杆
Super Hard Solid Tungsten Carbide Boring Bar


K46

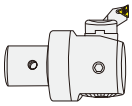
C32直柄镗刀杆
C32 Straight Shank Boring Bar


K44

CBH-M反镗头
CBH-M Counter Boring Head


K38

平衡块
Balance Block

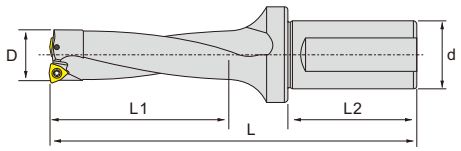

K43-K44

微调精密镗头
CBH Micro Boring Head





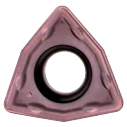
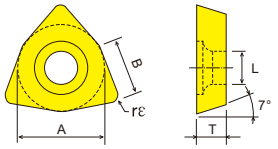
WCMX 通孔加工 有孔 钻孔加工



切削参数 (Cutting Parameters): K33

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
钻孔刀片 Drilling Inserts			WCMX 030208-SU	0.8	5.56	3.8	2.38	2.8	刀柄: (Toolholder) K05-K06 K19-K20				●	●	●	●	●	●	●	●
			040208-SU	0.8	6.35	4.3	2.38	3.1					●	●	●	●	●	●	●	●
			050308-SU	0.8	7.94	5.4	3.18	3.2					●	●	●	●	●	●	●	●
			06T308-SU	0.8	9.525	6.5	3.97	3.7					●	●	●	●	●	●	●	●
			080412-SU	1.2	12.7	8.7	4.76	4.3					●	●	●	●	●	●	●	●

WC型舍弃式快速钻头
WC Type Fast Drilling Bit



2倍快速钻头-WC刀片 L1=2xD Fast Drill - WC Type

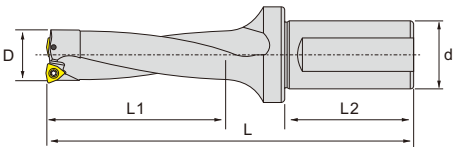
编码 Order	型号 Model	L1	L2	L	D	d	适用刀片 Applicable Inserts	螺丝 Screw	扳手 Wrench	Price
503100	ZD02-14.0-XP25-WC03-02	33	56	106	14	25	WCMX030208	M2.5×6.5	T8	700
503102	ZD02-15.0-XP25-WC03-02	35	56	108	15					700
503104	ZD02-16.0-XP25-WC03-02	37	56	110	16					700
503106	ZD02-17.0-XP25-WC03-02	39	56	112	17					700
503108	ZD02-18.0-XP25-WC03-02	41	56	114	18					700
503110	ZD02-19.0-XP25-WC03-02	43	56	116	19					700
503112	ZD02-20.0-XP25-WC03-02	45	56	119	20					700
503114	ZD02-21.0-XP25-WC04-02	47	56	121	21		WCMX040208			875
503116	ZD02-22.0-XP25-WC04-02	49	56	123	22					875
503118	ZD02-23.0-XP25-WC04-02	51	56	125	23					875
503120	ZD02-24.0-XP25-WC04-02	53	56	127	24					875
503122	ZD02-25.0-XP32-WC05-02	55	60	141	25					875
503124	ZD02-26.0-XP32-WC05-02	57	60	143	26					988
503126	ZD02-27.0-XP32-WC05-02	59	60	145	27					988
503128	ZD02-28.0-XP32-WC05-02	61	60	147	28					988
503130	ZD02-29.0-XP32-WC05-02	63	60	149	29					988
503132	ZD02-30.0-XP32-WC05-02	65	60	151	30					988
503134	ZD02-31.0-XP32-WC05-02	67	60	153	31					1150
503136	ZD02-32.0-XP32-WC06-02	69	60	155	32	32	WCMX050308	M3×7	T8	1150
503138	ZD02-33.0-XP32-WC06-02	71	60	157	33					1150
503140	ZD02-34.0-XP32-WC06-02	73	60	159	34					1150
503142	ZD02-35.0-XP32-WC06-02	75	60	161	35					1150
503144	ZD02-36.0-XP32-WC06-02	77	60	163	36					1258
503146	ZD02-37.0-XP32-WC06-02	79	60	165	37					1258
503148	ZD02-38.0-XP32-WC06-02	81	60	167	38					1258
503150	ZD02-39.0-XP32-WC06-02	83	60	169	39					1258
503152	ZD02-40.0-XP32-WC06-02	85	60	171	40					1258
503154	ZD02-41.0-XP32-WC06-02	87	60	173	41					1450
503156	ZD02-42.0-XP32-WC06-02	89	60	175	42					1450
503158	ZD02-43.0-XP40-WC08-02	91	65	186	43	40	WCMX080412	M4×10	T15	1450
503160	ZD02-44.0-XP40-WC08-02	93	65	188	44					1450
503162	ZD02-45.0-XP40-WC08-02	95	65	190	45					1450
503164	ZD02-46.0-XP40-WC08-02	97	65	192	46					1638
503166	ZD02-47.0-XP40-WC08-02	99	65	194	47					1638
503168	ZD02-48.0-XP40-WC08-02	101	65	196	48					1638
503170	ZD02-49.0-XP40-WC08-02	103	65	198	49					1638
503172	ZD02-50.0-XP40-WC08-02	105	65	200	50					1638
503174	ZD02-51.0-XP40-WC08-02	107	65	202	51					1853
503176	ZD02-52.0-XP40-WC08-02	109	65	204	52					1853
503178	ZD02-53.0-XP40-WC08-02	111	65	206	53					1853
503180	ZD02-54.0-XP40-WC08-02	113	65	208	54					1853
503182	ZD02-55.0-XP40-WC08-02	115	65	210	55					1853
503184	ZD02-56.0-XP40-WC0S-02	117	65	212	56					2043
503186	ZD02-57.0-XP40-WC08-02	119	65	214	57					2043
503188	ZD02-58.0-XP40-WC06-04	121	65	216	58		WCMX06T308	M3.5×8		2043
503190	ZD02-59.0-XP40-WC06-04	123	65	218	59					2043
503192	ZD02-60.0-XP40-WC06-04	125	65	220	60					2043
503194	ZD02-61.0-XP40-WC06-04	127	65	222	61					
503196	ZD02-62.0-XP40-WC06-04	129	65	224	62					
503198	ZD02-63.0-XP40-WC06-04	131	65	226	63					
503200	ZD02-64.0-XP40-WC06-04	133	65	228	64					
503202	ZD02-65.0-XP40-WC06-04	135	65	230	65					

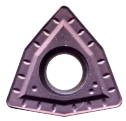
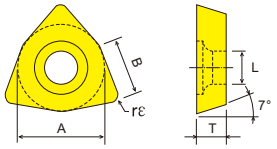
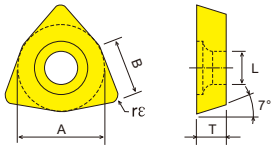
3倍快速钻头-WC刀片 L1=3xD Fast Drill - WC Type

编码 Order	型号 Model	L1	L2	L	D	d	适用刀片 Applicable Inserts	螺丝 Screw	扳手 Wrench	Price
503300	ZD03-14.0-XP25-WC03-02	47	56	120	14	25	WCMX030208	M2.5×6.5	T8	738
503302	ZD03-14.5-XP25-WC03-02	48.5	56	122	14.5					738
503304	ZD03-15.0-XP25-WC03-02	50	56	123	15					738
503306	ZD03-15.5-XP25-WC03-02	51.5	56	124	15.5					738
503308	ZD03-16.0-XP25-WC03-02	53	56	126	16					738
503310	ZD03-16.5-XP25-WC03-02	54.5	56	127	16.5					738
503312	ZD03-17.0-XP25-WC03-02	56	56	129	17					738
503314	ZD03-17.5-XP25-WC03-02	57.5	56	130	17.5					738
503316	ZD03-18.0-XP25-WC03-02	59	56	132	18					738
503318	ZD03-18.5-XP25-WC03-02	60.5	56	133	18.5					738
503320	ZD03-19.0-XP25-WC03-02	62	56	135	19					738
503322	ZD03-19.5-XP25-WC03-02	63.5	56	136	19.5					738
503324	ZD03-20.0-XP25-WC03-02	65	56	139	20					738
503326	ZD03-20.5-XP25-WC03-02	66.5	56	140	20.5					925
503328	ZD03-21.0-XP25-WC04-02	68	56	142	21					925
503330	ZD03-21.5-XP25-WC04-02	69.5	56	143	21.5					925
503332	ZD03-22.0-XP25-WC04-02	71	56	145	22					925
503334	ZD03-22.5-XP25-WC04-02	72.5	56	148	22.5					925
503336	ZD03-23.0-XP25-WC04-02	74	56	148	23					925
503338	ZD03-23.5-XP25-WC04-02	75.5	56	149	23.5					925
503340	ZD03-24.0-XP25-WC04-02	77	56	151	24					925
503342	ZD03-24.5-XP25-WC04-02	78.5	56	152	24.5					925
503344	ZD03-25.0-XP32-WC05-02	80	60	166	25	32	WCMX050208	M3×7	T8	925
503346	ZD03-25.5-XP32-WC05-02	81.5	60	167	25.5					1038
503348	ZD03-26.0-XP32-WC05-02	83	60	169	26					1038
503350	ZD03-26.5-XP32-WC05-02	84.5	60	170	26.5					1038
503352	ZD03-27.0-XP32-WC05-02	86	60	172	27					1038
503354	ZD03-27.0-XP32-WC0s-02	87.5	60	173	27.5					1038
503356	ZD03-28.0-XP32-WC05-02	89	60	175	28					1038
503358	ZD03-28.0-XP32-WC0s-02	90.5	60	176	28.5					1038
503360	ZD03-29.0-XP32-WC05-02	92	60	178	29					1038
503362	ZD03-29.5-XP32-WC05-02	93.5	60	179	29.5					1038
503364	ZD03-30.0-XP32-WC05-02	95	60	181	30					1038
503366	ZD03-30 5-XP32-WC05-0T	96.5	60	182	30.5					1213
503368	ZD03-31.0-XP32-WC05-02	98	60	184	31					1213
503370	ZD03-31.5-XP32-WC05-02	99.5	60	185	31.5					1213
503372	ZD03-32.0-XP32-WC05-02	101	60	187	32	32	WCMX06T308	M3.5×8	T15	1213
503374	ZD03-32.5-XP32-WC06-02	102.5	60	188	32.5					1213
503376	ZD03-33.0-XP32-WC06-02	104	60	190	33					1213
503378	ZD03-33.5-XP32-WC06-02	105.5	60	191	33.5					1213
503380	ZD03-34.0-XP32-WC06-02	107	60	193	34					1213
503382	ZD03-34.5-XP32-WC06-02	108.5	60	194	34.5					1213
503384	ZD03-35.0-XP32-WC06-02	110	60	196	35					1213
503386	ZD03-35.5-XP32-WC06-02	111.5	60	197	35.5					1325
503388	ZD03-36.0-XP32-WC06-02	113	60	199	36					1325
503390	ZD03-36.5-XP32-WC06-02	114.5	60	200	36.5					1325
503392	ZD03-37.0-XP32-WC06-02	116	60	202	37					1325
503394	ZD03-37.5-XP32-WC06-02	117.5	60	203	37.5					1325
503396	ZD03-38.0-XP32-WC06-02	119	60	205	38					1325
503398	ZD03-38.5-XP32-WC06-02	120.5	60	206	38.5					1325
503400	ZD03-39.0-XP32-WC06-02	122	60	206	39					1325
503402	ZD03-39.5-XP32-WC06-02	123.5	60	209	39.5					1325
503404	ZD03-40.0-XP32-WC06-02	125	60	211	40					1325
503406	ZD03-41.0-XP32-WC06-02	128	60	214	41					1525
503408	ZD03-42.0-XP32-WC06-02	131	60	217	42					1525
503410	ZD03-43.0-XP40-WC08-02	134	65	229	43	40	WCMX080412	M4×10	T15	1525
503412	ZD03-44.0-XP40-WC08-02	137	65	232	44					1525
503414	ZD03-45.0-XP40-WC08-02	140	65	235	45					1525
503416	ZD03-46.5-XP40-WC08-02	143	65	238	46					1725
503418	ZD03-47.0-XP40-WC08-02	146	65	241	47					1725
503420	ZD03-48.0-XP40-WC08-02	149	65	244	48					1725
503422	ZD03-49.0-XP40-WC08-02	152	65	247	49					1725
503424	ZD03-50.0-XP40-WC08-02	155	65	250	50					1725
503426	ZD03-51.0-XP40-WC08-02	158	65	253	51					1950
503428	ZD03-52.0-XP40-WC08-02	161	65	256	52					1950
503430	ZD03-53.0-XP40-WC08-02	164	65	259	53					1950
503432	ZD03-54.0-XP40-WC08-02	167	65	262	54					1950
503434	ZD03-55.0-XP40-WC08-02	170	65	265	55					1950
503436	ZD03-56.0-XP40-WC08-02	173	65	268	56					2150
503438	ZD03-57.0-XP40-WC08-02	176	65	271	57					2150
503440	ZD03-58.0-XP40-WC06-04	179	65	274	58					2150
503442	ZD03-59.0-XP40-WC06-04	182	65	277	59					2150
503444	ZD03-60.0-XP40-WC06-04	185	65	280	60					2150
503446	ZD03-61.0-XP40-WC06-04	188	65	283	61					
503448	ZD03-62.0-XP40-WC06-04	191	65	286	62					
503450	ZD03-63.0-XP40-WC06-04	194	65	289	63					
503452	ZD03-64.0-XP40-WC06-04	197	65	292	64					
503454	ZD03-65.0-XP40-WC06-04	200	65	295	65					

WCMX 通孔加工 有孔 钻孔加工

切削参数 (Cutting Parameters): K33



用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
钻孔刀片 Drilling Inserts			WCMX 030208-ZK	0.8	5.56	3.8	2.38	2.8	刀柄: (Toolholder) K05-K06 K19-K20		•		•	•	•	•	•	•	•	•
			040208-ZK	0.8	6.35	4.3	2.38	3.1			•		•	•	•	•	•	•	•	•
			050308-ZK	0.8	7.94	5.4	3.18	3.2			•		•	•	•	•	•	•	•	•
			06T308-ZK	0.8	9.525	6.5	3.97	3.7			•		•	•	•	•	•	•	•	•
			080412-ZK	1.2	12.7	8.7	4.76	4.3			•		•	•	•	•	•	•	•	•
钻孔刀片 Drilling Inserts			WCMX 030208	0.8	5.56	3.8	2.38	2.8	刀柄: (Toolholder) K05-K06 K19-K20		•		•	•	•	•	•	•	•	•
			040208	0.8	6.35	4.3	2.38	3.1			•		•	•	•	•	•	•	•	•
			050308	0.8	7.94	5.4	3.18	3.2			•		•	•	•	•	•	•	•	•
			06T308	0.8	9.525	6.5	3.97	3.7			•		•	•	•	•	•	•	•	•
			080412	1.2	12.7	8.7	4.76	4.3			•		•	•	•	•	•	•	•	•

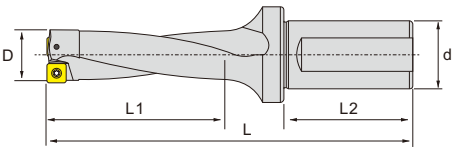
4倍快速钻头-WC刀片 L1=4xD Fast Drill - WC Type

编码 Order	型号 Model	L1	L2	L	D	d	适用刀片 Applicable Inserts	螺丝 Screw	扳手 Wrench	Price
503500	ZD04-14.0-XP25-WC03-02	61	56	134	14	25	WCMX030208	M2.5×6.5	T8	825
503502	ZD04-14.5-XP25-WC03-02	63	56	136	14.5					825
503504	ZD04-15.0-XP25-WC03-02	65	56	138	15					825
503506	ZD04-15.5-XP25-WC03-02	67	56	140	15.5					825
503508	ZD04-16.0-XP25-WC03-02	69	56	142	16					825
503510	ZD04-16.5-XP25-WC03-02	71	56	144	16.5					825
503512	ZD04-17.0-XP25-WC03-02	73	56	146	17					825
503514	ZD04-17.5-XP25-WC03-02	75	56	148	17.5					825
503516	ZD04-18.0-XP25-WC03-02	77	56	150	18					825
503518	ZD04-18.5-XP25-WC03-02	79	56	152	18.5					825
503520	ZD04-19.0-XP25-WC03-02	81	56	154	19					825
503522	ZD04-19.5-XP25-WC03-02	83	56	155	19.5					825
503524	ZD04-20.0-XP25-WC03-02	85	56	159	20					825
503526	ZD04-20.5-XP25-WC03-02	87	56	161	20.5					1025
503528	ZD04-21.0-XP25-WC03-02	89	56	163	21		WCMX040208			1025
503530	ZD04-21.5-XP25-WC04-02	91	56	165	21.5					1025
503532	ZD04-22.0-XP25-WC04-02	93	56	167	22					1025
503534	ZD04-22.5-XP25-WC04-02	95	56	169	22.5					1025
503536	ZD04-23.0-XP25-WC04-02	97	56	171	23					1025
503538	ZD04-23.5-XP25-WC04-02	99	56	173	23.5					1025
503540	ZD04-24.0-XP25-WC04-02	101	56	175	24					1025
503542	ZD04-24.5-XP25-WC04-02	103	56	177	24.5					1025
503544	ZD04-25.0-XP32-WC03-02	105	60	191	25	32	WCMX050308	M3×7	T8	1025
503546	ZD04-25.5-XP32-WC03-02	107	60	193	25.5					1150
503548	ZD04-26.0-XP32-WC03-02	109	60	195	26					1150
503550	ZD04-26.5-XP32-WC03-02	111	60	197	26.5					1150
503552	ZD04-27.0-XP32-WC03-02	113	60	199	27					1150
503554	ZD04-27.5-XP32-WC03-02	115	60	201	27.5					1150
503556	ZD04-28.0-XP32-WC03-02	117	60	203	28					1150
503558	ZD04-28.5-XP32-WC03-02	119	60	205	28.5					1150
503560	ZD04-29.0-XP32-WC03-02	121	60	207	29					1150
503562	ZD04-29.5-XP32-WC03-02	123	60	209	29.5					1150
503564	ZD04-30.0-XP32-WC03-02	125	60	211	30					1150
503566	ZD04-30.5-XP32-WC03-02	127	60	213	30.5					1325
503568	ZD04-31.0-XP32-WC03-02	129	60	215	31					1325
503570	ZD04-31.5-XP32-WC03-02	131	60	217	31.5					1325
503572	ZD04-32.0-XP32-WC03-02	133	60	219	32		WCMX06T308	M3.5×8	T15	1325
503574	ZD04-32.5-XP32-WC06-02	135	60	221	32.5					1325
503576	ZD04-33.0-XP32-WC06-02	137	60	223	33					1325
503578	ZD04-33.5-XP32-WC06-02	139	60	225	33.5					1325
503580	ZD04-34.0-XP32-WC06-02	141	60	227	34					1325
503582	ZD04-34.5-XP32-WC06-02	143	60	229	34.5					1325
503584	ZD04-35.0-XP32-WC06-02	145	60	231	35					1325
503586	ZD04-35.5-XP32-WC06-02	147	60	233	35.5					1475
503588	ZD04-36.0-XP32-WC06-02	149	60	235	36					1475
503590	ZD04-36.5-XP32-WC06-02	151	60	237	36.5					1475
503592	ZD04-37.0-XP32-WC06-02	153	60	239	37					1475
503594	ZD04-37.5-XP32-WC06-02	155	60	241	37.5	32	WCMX06T308	M3.5×8	T15	1475
503596	ZD04-38.0-XP32-WC06-02	157	60	243	38					1475
503598	ZD04-38.5-XP32-WC06-02	159	60	245	38.5					1475
503600	ZD04-39.0-XP32-WC06-02	161	60	247	39					1475
503602	ZD04-39.5-XP32-WC06-02	163	60	249	39.5					1475
503604	ZD04-40.0-XP32-WC06-02	165	60	251	40					1475
503606	ZD04-41.0-XP32-WC06-02	169	60	255	41					1700
503608	ZD04-42.0-XP32-WC06-02	173	60	259	42					1700
503610	ZD04-43.0-XP40-WC08-02	177	65	272	43	40	WCMX080412	M4×10	T15	1700
503612	ZD04-44.0-XP40-WC08-02	181	65	276	44					1700
503614	ZD04-45.0-XP40-WC08-02	185	65	280	45					1700
503616	ZD04-46.0-XP40-WC08-02	189	65	284	46					1900
503618	ZD04-47.0-XP40-WC08-02	193	65	288	47					1900
503620	ZD04-48.0-XP40-WC08-02	197	65	292	48					1900
503622	ZD04-49.0-XP40-WC08-02	201	65	296	49					1900
503624	ZD04-50.0-XP40-WC08-02	205	65	300	50					1900
503626	ZD04-51.0-XP40-WC08-02	209	65	304	51					2150
503628	ZD04-52.0-XP40-WC08-02	213	65	308	52					2150
503630	ZD04-53.0-XP40-WC08-02	217	65	312	53					2150
503632	ZD04-54.0-XP40-WC08-02	221	65	316	54					2150
503634	ZD04-55.0-XP40-WC08-02	225	65	320	55					2150
503636	ZD04-56.0-XP40-WC08-02	229	65	324	56					2375
503638	ZD04-57.0-XP40-WC08-02	233	65	328	57					2375
503640	ZD04-58.0-XP40-WC06-04	237	65	332	58					2375
503642	ZD04-59.0-XP40-WC06-04	241	65	336	59					2375
503644	ZD04-60.0-XP40-WC06-04	245	65	340	60					2375
503646	ZD04-61.0-XP40-WC06-04	249	65	344	61					
503648	ZD04-62.0-XP40-WC06-04	253	65	348	62					
503650	ZD04-63.0-XP40-WC06-04	257	65	352	63					
503652	ZD04-64.0-XP40-WC06-04	261	65	356	64					
503654	ZD04-65.0-XP40-WC06-04	265	65	360	65					

5倍快速钻头-WC刀片 L1=5xD Fast Drill - WC Type

编码 Order	型号 Model	L1	L2	L	D	d	适用刀片 Applicable Inserts	螺丝 Screw	扳手 Wrench	Price
503700	ZD05-14.0-XP25-WC03-02	75	56	148	14	25	WCMX030208	M2.5×6.5	T8	950
503702	ZD05-14.5-XP25 WC03-02	77.5	56	150	14.5					950
503704	ZD05-15.0-XP25-WC03-02	80	56	153	15					950
503706	ZD05-15.5-XP25-WC03-02	82.5	56	155	15.5					950
503708	ZD05-16.0-XP25-WC03-02	85	56	158	16					950
503710	ZD05-16.5-XP25-WC03-02	87.5	56	160	16.5					950
503712	ZD05-17.0-XP25-WC03-02	90	56	163	17					950
503714	ZD05-17.5-XP25-WC03-02	92.5	56	165	17.5					950
503716	ZD05-18.0-XP25-WC03-02	95	56	168	18					950
503718	ZD05-18.5-XP25-WC03-02	97.5	56	170	18.5					950
503720	ZD05-19.0-XP25-WC03-02	100	56	173	19					950
503722	ZD05-19.5-XP25-WC03-02	102.5	56	174	19.5					950
503724	ZD05-20.0-XP25-WC03-02	105	56	179	20					950
503726	ZD05-20.5-XP25-WC03-02	107.5	56	181	20.5					1150
503728	ZD05-21.0-XP25-WC04-02	110	56	184	21		WCMX040208			1150
503730	ZD05-21.5-XP25-WC04-02	112.5	56	186	21.5					1150
503732	ZD05-22.0-XP25-WC04-02	115	56	189	22					1150
503734	ZD05-22.5-XP25 WC04 02	117.5	56	193	22.5					1150
503736	ZD05-23.0-XP25-WC04-02	120	56	194	23					1150
503738	ZD05-23.5-XP25-WC04-02	122.5	56	196	23.5					1150
503740	ZD05-24.0-XP25-WC04-02	125	56	199	24					1150
503742	ZD05-24.5-XP25-WC04-02	127.5	56	201	24.5					1150
503744	ZD05-25.0-XP32-WC05-02	130	60	216	25	32	WCMX050308	M3×7	T8	1150
503746	ZD05-25.5 ×P32 WC05-02	132.5	60	218	25.5					1300
503748	ZD05-26.0-XP32-WC05-02	135	60	221	26					1300
503750	ZD05-26.5-XP32-WC05 02	137.5	60	223	26.5					1300
503752	ZD05-27.0-XP32-WC05-02	140	60	226	27					1300
503754	ZD05-27.5-XP32-WC05-02	142.5	60	228	27.5					1300
503756	ZD05-28.0-XP32-WC05-02	145	60	231	28					1300
503758	ZD05-28.5-XP32-WC05-02	147.5	60	233	28.5					1300
503760	ZD05-29.0-XP32-WC05-02	150	60	236	29					1300
503762	ZD05-29.5-XP32-WC05-02	152.5	60	238	29.5					1300
503764	ZD05-30.0-XP32-WC05-02	155	60	241	30					1300
503766	2005-30.5-XP32-WC05-02	157.5	60	243	30.5					1450
503768	ZD05-31.0-XP32-WC05-02	160	60	246	31					1450
503770	ZD05-31.5-XP32-WC05-02	162.5	60	248	31.5					1450
503772	ZD05-32.0-XP32-WC06-02	165	60	251	32	32	WCMX06T308	M3.5×8	T15	1450
503774	ZD05-32.5-XP32-WC06-02	167.5	60	253	32.5					1450
503776	ZD05-33.0-XP32-WC06-02	170	60	256	33					1450
503778	ZD05-33.5-XP32-WC06-02	172.5	60	258	33.5					1450
503780	ZD05-34.0-XP32-WC06-02	175	60	261	34					1450
503782	ZD05-34.5-XP32-WC06-02	177.5	60	263	34.5					1450
503784	ZD05-35.0-XP32-WC06-02	180	60	266	35					1450
503786	ZD05-35.5-XP32-WC06-02	182.5	60	2668	35.5					1600
503788	ZD05-36.0-XP32-WC06-02	185	60	271	36					1600
503790	ZD05-36.5-XP32-WC06-02	187.5	60	273	36.5					1600
503792	ZD05-37.0-XP32-WC06-02	190	60	276	37					1600
503794	ZD05-37.5-XP32-WC06-02	192.5	60	278	37.5					1600
503796	ZD05-38.0-XP32-WC06-02	195	60	281	38					1600
503798	ZD05-38.5-XP32-WC06-02	197.5	60	283	38.5					1600
503800	ZD05-39.0-XP32-WC06-02	200	60	284	39	32	WCMX06T308	M3.5×8	T15	1600
503802	ZD05-39.5-XP32-WC06-02	202.5	60	288	39.5					1600
503804	ZD05-40.0-XP32-WC06-02	205	60	291	40					1600
503806	ZD05-41.0-XP32-WC06-02	210	60	296	41					1900
503808	ZD05-42.0-XP32-WC06-02	215	60	301	42					1900
503810	ZD05-43.0-XP40-WC08-02	220	65	315	43	40	WCMX080412	M4×10	T15	1900
503812	ZD05-44.0-XP40-WC08-02	225	65	320	44					1900
503814	ZD05-45.0-XP40-WC08-02	230	65	325	45					1900
503816	ZD05-46.0-XP40-WC08-02	235	65	330	46					2100
503818	ZD05-47.0-XP40-WC08-02	240	65	335	47					2100
503820	ZD05-48.0-XP40-WC08-02	245	65	340	48					2100
503822	ZD05-49.0-XP40-WC08-02	250	65	345	49					2100
503824	ZD05-50.0-XP40-WC08-02	255	65	350	50					2100
503826	ZD05-51.0-XP40-WC08-02	260	65	355	51					2300
503828	ZD05-52.0-XP40-WC08-02	265	65	360	52					2300
503830	ZD05-53.0-XP40-WC08-02	270	65	365	53					2300
503832	ZD05-54.0-XP40-WC08-02	275	65	370	54					2300
503834	ZD05-55.0-XP40-WC08-02	280	65	375	55					2300
503836	ZD05-56.0-XP40-WC08-02	285	65	380	56					
503838	ZD05-57.0-XP40-WC08-02	290	65	385	57					
503840	ZD05-58.0-XP40-WC08-02	295	65	390	58					
503842	ZD05-59.0-XP40-WC08-02	300	65	395	59					
503844	ZD05-60.0-XP40-WC06-02	305	65	400	60					
503846	ZD05-61.0-XP32-WC06-02	310	65	405	61					
503848	ZD05-62.0-XP32-WC06-02	315	65	410	62					
503850	ZD05-63.0-XP32-WC06-02	320	65	415	63					
503852	ZD05-64.0-XP32-WC06-02	325	65	420	64					
503854	ZD05-65.0-XP32-WC06-02	330	65	425	65					

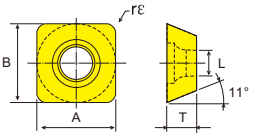
SPMG 平底盲孔 有孔 钻孔加工



切削参数 (Cutting Parameters): K33

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
钻孔刀片 Drilling Inserts			SPMG 050204-TT	0.4	5.0	5.0	2.38	2.2	刀柄: (Toolholder) K07-K08											
			060204-TT	0.4	6.0	6.0	2.38	2.6												
			07T308-TT	0.8	7.94	7.94	3.97	2.8												
			090408-TT	0.8	9.8	9.8	4.30	4.2												
			110408-TT	0.8	11.5	11.5	4.8	4.4												
			140512-TT	1.2	14.3	14.3	5.0	5.75												

SP型舍弃式快速钻头
SP Type Fast Drilling Bit



2倍快速钻头-SP刀片 L1=2xD Fast Drill - SP Type

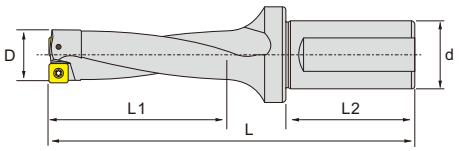
编码 Order	型号 Model	L1	L2	L	D	d	适用刀片 Applicable Inserts	螺丝 Screw	扳手 Wrench	Price
504100	ZD02-13.0-XP25-SP05-02	31	56	104	13	25	SPMG050204	M2×5	T6	700
504102	ZD02-14.0-XP25-SP05-02	33	56	106	14					700
504104	ZD02-15.0-XP25-SP05-02	35	56	108	15					700
504106	ZD02-16.0-XP25-SP06-02	37	56	110	16		SPMG060204	M2.2×5		700
504108	ZD02-17.0-XP25-SP06-02	39	56	112	17					700
504110	ZD02-18.0-XP25 SP06-02	41	56	114	18					700
504112	ZD02-19.0-XP25-SP06-02	43	56	116	19					700
504114	ZD02-20.0 ×P25-SP06-02	45	56	119	20					700
504116	ZD02-21.0-XP25-SP06-02	47	56	121	21					875
504118	ZD02-22.0-XP25-SP07-02	49	56	123	22		SPMG07T308	M2.5×6	T8	875
504120	ZD02-23.0-XP25-SP07-02	51	56	125	23					875
504122	ZD02-24.0-XP25-SP07-02	53	56	127	24					875
504124	ZD02-25.0-XP32-SP07-02	55	60	141	25	32				875
504126	ZD02-26.0-XP32-SP07-02	57	60	143	26					988
504128	ZD02-27.0-XP32-SP07-02	59	60	145	27					988
504130	ZD02-28.0-XP32-SP09-02	61	60	147	28		SPMG090408	M3.5×8	T15	988
504132	ZD02-29.0-XP32-SP09-02	63	60	149	29					988
504134	ZD02-30.0-XP32-SP09-02	65	60	151	30					988
504136	ZD02-31.0-XP32-SP09-02	67	60	153	31					1150
504138	ZD02-32.0-XP32-SP09-02	69	60	155	32					1150
504140	ZD02-33.0-XP32-SP09-02	71	60	157	33					1150
504142	ZD02-34.0-XP32-SP11-02	73	60	159	34		SPMG110408	M4×10		1150
504144	ZD02-35.0-XP32-SP11-02	75	60	161	35					1150
504146	ZD02-36.0-XP32-SP11-02	77	60	163	36					1258
504148	ZD02-37.0-XP32-SP11-02	79	60	165	37					1258
504150	ZD02-38.0-XP32-SP11-02	81	60	167	38					1258
504152	ZD02-39.0-XP32-SP11-02	83	60	169	39					1258
504154	ZD02-40.0-XP32-SP11-02	85	60	171	40					1258
504156	ZD02-41.0-XP32-SP14-02	87	60	173	41		SPMG140512	M5×10	T20	1450
504158	ZD02-42.0-XP32-SP14-02	89	60	175	42					1450
504160	ZD02-43.0-XP40-SP14-02	91	65	186	43	40				1450
504162	ZD02-44.0-XP40-SP14-02	93	65	188	44					1450
504164	ZD02-45.0-XP40-SP14-02	95	65	190	45					1450
504166	ZD02-46.0-XP40-SP14-02	97	65	192	46					1638
504168	ZD02-47.0-XP40-SP14-02	99	65	194	47					1638
504170	ZD02-48.0-XP40-SP07-04	101	65	196	48		SPMG07T308	M2.5×6	T8	1638
504172	ZD02-49.0-XP40-SP07-04	103	65	198	49					1638
504174	ZD02-50.0-XP40-SP07-04	105	65	200	50					1638
504176	ZD02-51.0-XP40-SP07-04	107	65	202	51					1853
504178	ZD02-52.0-XP40-SP09-04	109	65	204	52		SPMG090408	M3.5×8	T15	1853
504180	ZD02-53.0-XP40-SP09-04	111	65	206	53					1853
504182	ZD02-54.0-XP40-SP09-04	113	65	208	54					1853
504184	ZD02-55.0-XP40-SP09-04	115	65	210	55					1853
504186	ZD02-56.0-XP40-SP09-04	117	65	212	56					2043
504188	ZD02-57.0-XP40-SP09-04	119	65	214	57					2043
504190	ZD02-58.0-XP40-SP09-04	121	65	216	58					2043
504192	ZD02-59.0-XP40-SP09-04	123	65	218	59					2043
504194	ZD02-60.0-XP40-SP09-04	125	65	220	60					2043

3倍快速钻头-SP刀片 L1=3xD Fast Drill - SP Type

编码 Order	型号 Model	L1	L2	L	D	d	适用刀片 Applicable Inserts	螺丝 Screw	扳手 Wrench	Price
504200	ZD03-13.0-XP25-SP05-02	44	56	117	13	25	SPMG050204	M2×5	T6	738
504202	ZD03-13.5-XP25-SP05-02	45.5	56	118	13.5					738
504204	ZD03-14.0-XP25-SP05-02	47	56	120	14					738
504206	ZD03-14.5-XP25-SP05-02	48. 5	56	122	14.5					738
504208	ZD03-15.0-XP25-SP05-02	50	56	123	15					738
504210	ZD03-15.5-XP25-SP06-02	51.5	56	124	15.5		SPMG060204	M2.2×5		738
504212	ZD03-16.0-XP25-SP06-02	53	56	126	16					738
504214	ZD03-16.5-XP25-SP06-02	54.5	56	127	16.5					738
504216	ZD03-17.0-XP25-SP06-02	56	56	129	17					738
504218	ZD03-17.5-XP25-SP06-02	57.5	56	130	17.5					738
504220	ZD03-18.0-XP25-SP06-02	59	56	132	18					738
504222	ZD03-18.5-XP25-SP06-02	60.5	56	133	18.5					738
504224	ZD03-19.0-XP25-SP06-02	62	56	135	19					738
504226	ZD03-19.5-XP25-SP06-02	63.5	56	136	19.5					738
504228	ZD03-20.0-XP25-SP06-02	65	56	139	20					738
504230	ZD03-20.5-XP25-SP06-02	66.5	56	140	20.5					925
504232	ZD03-21.0-XP25-SP06-02	68	56	142	21					925
504234	ZD03-21.5-XP25-SP06-02	69.5	56	143	21.5					925
504236	ZD03-22.0-XP25-SP07-02	71	56	145	22		SPMG07T308	M2.5×6	T8	925
504238	ZD03-22.5-XP25-SP07-02	72.5	56	148	22.5					925
504240	ZD03-23.0-XP25-SP07-02	74	56	148	23					925
504242	ZD03-23.5-XP25-SP07-02	75.5	56	149	23.5					925
504244	ZD03-24.0-XP25-SP07-02	77	56	151	24					925
504246	ZD03-24.5-XP25-SP07-02	78.5	56	152	24.5					925
504248	ZD03-25.0-XP32-SP07-02	80	60	166	25	32	SPMG090408	M3.5×8	T15	925
504250	ZD03-25.5-XP32-SP07-02	81.5	60	167	25.5					1038
504252	ZD03-26.0-XP32-SP07-02	83	60	169	26					1038
504254	ZD03-26.5-XP32-SP07-02	84.5	60	170	26.5					1038
504256	ZD03-27.0-XP32-SP07-02	86	60	172	27					1038
504258	ZD03-27.5-XP32-SP07-02	87.5	60	173	27.5					1038
504260	ZD03-28.0-XP32-SP09-02	89	60	175	28					1038
504262	ZD03-28.5-XP32-SP09-02	90.5	60	176	28.5					1038
504264	ZD03-29.0-XP32-SP09-02	92	60	178	29					1038
504266	ZD03-29.5-XP32-SP09-02	93.5	60	179	29.5					1038
504268	ZD03-30.0-XP32-SP09-02	95	60	181	30					1038
504270	ZD03-30.5-XP32-SP09-02	96.5	60	182	30.5					1213
504272	ZD03-31.0-XP32-SP09-02	98	60	184	31					1213
504274	ZD03-31.5-XP32-SP09-02	99.5	60	185	31.5					1213
504276	ZD03-32.0-XP32-SP09-02	101	60	187	32					1213
504278	ZD03-32.5-XP32-SP09-02	102.5	60	188	32.5					1213
504280	ZD03-33.0-XP32-SP09-02	104	60	190	33					1213
504282	ZD03-33.5-XP32-SP09-02	105.5	60	191	33.5					1213
504284	ZD03-34.0-XP32-SP11-02	107	60	193	34	32	SPMG110408	M14×10	T15	1213
504286	ZD03-34.5-XP32-SP11-02	108.5	60	194	34.5					1213
504288	ZD03-35.0-XP32-SP11-02	110	60	196	35					1213
504290	ZD03-35.5-XP32-SP11-02	111.5	60	197	35.5					1325
504292	ZD03-36.0-XP32-SP11-02	113	60	199	36					1325
504294	ZD03-36.5-XP32-SP11-02	114.5	60	200	36.5					1325
504296	ZD03-37.0-XP32-SP11-02	116	60	202	37					1325
504298	ZD03-37.5-XP32-SP11-02	117.5	60	203	37.5					1325
504300	ZD03-38.0-XP32-SP11-02	119	60	205	38					1325
504302	ZD03-38.5-XP32-SP11-02	120.5	60	206	38.5					1325
504304	ZD03-39.0-XP32-SP11-02	122	60	206	39					1325
504306	ZD03-39.5-XP32-SP11-02	123.5	60	209	39.5					1325
504308	ZD03-40.0-XP32-SP11-02	125	60	211	40					1325
504310	ZD03-41.0-XP32-SP14-02	128	60	214	41		SPMG140512	M5×10	T20	1525
504312	ZD03-42.0-XP32-SP14-02	131	60	217	42					1525
504314	ZD03-43.0-XP40-SP14-02	134	65	229	43	40				1525
504316	ZD03-44.0-XP40-SP14-02	137	65	232	44					1525
504318	ZD03-45.0-XP40-SP14-02	140	65	235	45					1525
504320	ZD03-46.0-XP40-SP14-02	143	65	238	46					1725
504322	ZD03-47.0-XP40-SP14-02	146	65	241	47					1725
504324	ZD03-48.0-XP40-SP07-04	149	65	244	48		SPMG07T308	M2.5×6	T8	1725
504326	ZD03-49.0-XP40-SP07-04	152	65	247	49					1725
504328	ZD03-50.0-XP40-SP07-04	155	65	250	50					1725
504330	ZD03-51.0-XP40-SP07-04	158	65	253	5l					1950
504332	ZD03-52.0-XP40-SP09-04	161	65	256	52		SPMG090408	M3.5×8	T15	1950
504334	ZD03-53.0-XP40-SP09-04	l64	65	259	53					1950
504336	ZD03-54.0-XP40-SP09-04	l67	65	262	54					1950
504338	ZD03-55.0-XP40-SP09-04	170	65	265	55					1950
504340	ZD03-56.0-XP40-SP09-04	173	65	268	56					2150
504342	ZD03-57.0-XP40-SP09-04	176	65	271	57					2150
504344	ZD03-58.0-XP40-SP09-04	179	65	274	58					2150
504346	ZD03-59.0-XP40-SP09-04	182	65	277	59					2150
504348	ZD03-60.0-XP40-SP09-04	185	65	280	60					2150

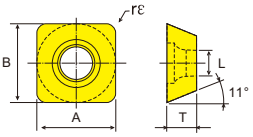
SPMG 平底盲孔 有孔 钻孔加工

切削参数 (Cutting Parameters): K33



切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
钻孔刀片 Drilling Inserts			SPMG 050204-PM	0.4	5.0	5.0	2.38	2.2	刀柄: (Toolholder) K07-K08				●		●	●	●	●	●	●
			060204-PM	0.4	6.0	6.0	2.38	2.6					●		●	●	●	●	●	●
			07T308-PM	0.8	7.94	7.94	3.97	2.8					●		●	●	●	●	●	●
			090408-PM	0.8	9.8	9.8	4.30	4.2					●		●	●	●	●	●	●
			110408-PM	0.8	11.5	11.5	4.8	4.4					●		●	●	●	●	●	●
			140512-PM	1.2	14.3	14.3	5.0	5.75					●		●	●	●	●	●	●

4倍快速钻头–SP刀片 L1=4xD Fast Drill - SP Type

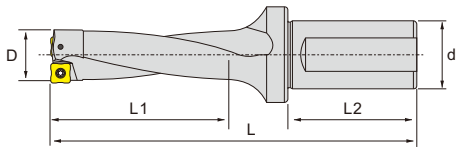
编码 Order	型号 Model	L1	L2	L	D	d	适用刀片 Applicable Inserts	螺丝 Screw	扳手 Wrench	Price
504400	ZD04-13.0-XP25-SP05-02	57	56	130	13	25	SPMG060204	M2×5	T6	825
504402	ZD04-13.5-XP25-SP05-02	59	56	132	13.5					825
504404	ZD04-14.0-XP25-SP05-02	61	56	134	14					825
504406	ZD04-14.5-XP25-SP05-02	63	56	136	14.5					825
504408	ZD04-15.0-XP25-SP05-02	65	56	138	15					825
504410	ZD04-15.5-XP25-SP06-02	67	56	140	15.5		SPMG060204	M2.2×5		825
504412	ZD04-16.0-XP25-SP06-02	69	56	142	16					825
504414	ZD04-16.5-XP25-SP06-02	71	56	144	16.5					825
504416	ZD04-17.0-XP25-SP06-02	73	56	146	17					825
504418	ZD04-17.5-XP25-SP06-07	75	56	148	17.5					825
504420	ZD04-18.0-XP25-SP06-02	77	56	150	18					825
504422	ZD04-18.5-XP25-SP06-02	79	56	152	18.5					825
504424	ZD04-19.0-XP25-SP06-02	81	56	154	19					825
504426	ZD04-19.5-XP25-SP06-02	83	56	155	19.5					825
504428	ZD04-20.0-XP25-SP06-02	85	56	159	20					825
504430	ZD04-20.5-XP25-SP06-02	87	56	161	20.5					1025
504432	ZD04-21.0-XP25-SP06-02	89	56	163	21					1025
504434	ZD04-21.5-XP25-SP06-02	91	56	165	21.5		SPMG07T308	M2.5×6	T8	1025
504436	ZD04-22.0-XP25-SP07-02	93	56	167	22					1025
504438	ZD04-22.5-XP25-SP07-02	95	56	169	22.5					1025
504440	ZD04-23.0-XP25-SP07-02	97	56	171	23					1025
504442	ZD04-23.5-XP25-SP07-02	99	56	173	23.5					1025
504444	ZD04-24.0-XP25-SP07-02	101	56	175	24					1025
504446	ZD04-24.5-XP25-SP07-02	103	56	177	24.5					1025
504448	ZD04-25.0-XP32-SP07-02	105	60	191	25	32				1025
504450	ZD04-25.5-XP32-SP07-02	107	60	193	25.5					1150
504452	ZD04-26.0-XP32-SP07-02	109	60	195	26					1150
504454	ZD04-26.5-XP32-SP07-02	111	60	197	26.5					1150
504456	ZD04-27.0-XP32-SP07-02	113	60	199	27					1150
504458	ZD04-27.5-XP32-SP07-02	115	60	201	27.5					1150
504460	ZD04-28.0-XP32-SP09-02	117	60	203	28		SPMG090408	M3.5×8	T15	1150
504462	ZD04-28.5-XP32-SP09-02	119	60	205	28.5					1150
504464	ZD04-29.0-XP32-SP09-02	121	60	207	29					1150
504466	ZD04-29.5-XP32-SP09-02	123	60	209	29.5					1150
504468	ZD04-30.0-XP32-SP09-02	125	60	211	30					1150
504470	ZD04-30.5-XP32-SP09-02	127	60	213	30.5					1325
504472	ZD04-31.0-XP32-SP09-02	129	60	215	31					1325
504474	ZD04-31.5-XP32-SP09-02	131	60	217	31.5					1325
504476	ZD04-32.0-XP32-SP09-02	133	60	219	32					1325
504478	ZD04-32.5-XP32-SP09-02	135	60	221	32.5					1325
504480	ZD04-33.0-XP32-SP09-02	137	60	223	33					1325
504482	ZD04-33.5-XP32-SP09-02	139	60	225	33.5					1325
504484	ZD04-34.0-XP32-SP11-02	141	60	227	34		SPMG110408	M4×10		1325
504486	ZD04-34.5-XP32-SP11-02	143	60	229	34.5					1325
504488	ZD04-35.0-XP32-SP11-02	145	60	231	35					1325
504490	ZD04-35.5-XP32-SP11-02	147	60	233	35.5					1475
504492	ZD04-36.0-XP32-SP11-02	149	60	235	36					1475
504494	ZD04-36.5-XP32-SP11-02	151	60	237	36.5					1475
504496	ZD04-37.0-XP32-SP11-02	153	60	239	37					1475
504498	ZD04-37.5-XP32-SP11-02	155	60	241	37.5					1475
504500	ZD04-38.0-XP32-SP11-02	157	60	243	38					1475
504502	ZD04-38.5-XP32-SP11-02	159	60	245	38.5					1475
504504	ZD04-39.0-XP32-SP11-02	161	60	247	39					1475
504506	ZD04-39.5-XP32-SP11-02	163	60	249	39.5					1475
504508	ZD04-40.0-XP32-SP11-02	165	60	251	40					1475
504510	ZD04-41.0-XP32-SP14-02	169	60	255	41	32	SPMG140512	M5×10	T20	1700
504512	ZD04-42.0-XP32-SP14-02	173	60	259	42					1700
504514	ZD04-43.0-XP40-SP14-02	177	65	272	43	40				1700
504516	ZD04-44.0-XP40-SP14-02	181	65	276	44					1700
504518	ZD04-45.0-XP40-SP14-02	185	65	280	45					1700
504520	ZD04-46.0-XP40-SP14-02	189	65	284	46					1900
504522	ZD04-47.0-XP40-SP14-02	193	65	288	47					1900
504524	ZD04-48.0-XP40-SP07-04	197	65	292	48		SPMG07T308	M2.5×6	T8	1900
504526	ZD04-49.0-XP40-SP07-04	201	65	296	49					1900
504528	ZD04-50.0-XP40-SP07-04	205	65	300	50					1900
504530	ZD04-51.0-XP40-SP07-04	209	65	304	51					2150
504532	ZD04-52.0-XP40-SP09-04	213	65	308	52		SPMG090408	M3.5×8	T15	2150
504534	ZD04-53.0-XP40-SP09-04	217	65	312	53					2150
504536	ZD04-54.0-XP40-SP09-04	221	65	316	54					2150
504538	ZD04-55.0-XP40-SP09-04	225	65	320	55					2150
504540	ZD04-56.0-XP40-SP09-04	229	65	324	56					2375
504542	ZD04-57.0-XP40-SP09-04	233	65	328	57					2375
504544	ZD04-58.0-XP40-SP09-04	237	65	332	58					2375
504546	ZD04-59.0-XP40-SP09-04	241	65	336	59					2375
504548	ZD04-60.0-XP40-SP09-04	245	65	340	60					2375

5倍快速钻头–SP刀片 L1=5xD Fast Drill - SP Type

编码 Order	型号 Model	L1	L2	L	D	d	适用刀片 Applicable Inserts	螺丝 Screw	扳手 Wrench	Price
504600	ZD05-13.0-XP25-SP05-02	70	56	143	13	25	SPMG050204	M2×5	T6	950
504602	ZD05-13.5-XP25-SP05-02	72.5	56	145	13.5					950
504604	ZD05-14.0-XP25-SP05-02	75	56	148	14					950
504606	ZD05-14.5-XP25-SP05-02	77.5	56	150	14.5					950
504608	ZD05-15.0-XP25-SP05-02	80	56	153	15					950
504610	ZD05-15.5-XP25-SP06-02	82.5	56	155	15.5		SPMG060204	M2.2×5		950
504612	ZD05-16.0-XP25-SP06-02	85	56	158	16					950
504614	ZD05-16.5-XP25-SP06-02	87.5	56	160	16.5					950
504616	ZD05-17.0-XP25-SP06-02	90	56	163	17					950
504618	ZD05-17.5-XP25-SP06-02	92.5	56	165	17.5					950
504620	ZD05-18.0-XP25-SP06-02	95	56	168	18					950
504622	ZD05-18.5-XP25-SP06-02	97.5	56	170	18.5					950
504624	ZD05-19.0-XP25-SP06-02	100	56	173	19					950
504626	ZD05-19.5-XP25-SP06-02	102.5	56	174	19.5					950
504628	ZD05-20.0-XP25-SP06-02	105	56	179	20					950
504630	ZD05-20.5-XP25-SP06-02	107.5	56	181	20.5					1150
504632	ZD05-21.0-XP25-SP06-02	110	56	184	21					1150
504634	ZD05-21.5-XP25-SP06-02	112.5	56	186	21.5					1150
504636	ZD05-22.0-XP25-SP07-02	115	56	189	22		SPMG07T308	M2.5×6	T8	1150
504638	ZD05-22.5-XP25-SP07-02	117.5	56	193	22.5					1150
504640	ZD05-23.0-XP25-SP07-02	120	56	194	23					1150
504642	ZD05-23.5-XP25 SPO7-02	122.5	56	196	23.5					1150
504644	ZD05-24.0-XP25-SP07-02	125	56	199	24					1150
504646	ZD05-24.5-XP25-SP07-02	127.5	56	201	24.5					1150
504648	ZD05-25.0-XP32-SP07-02	130	60	216	25	32				1150
504650	ZD05-25.5-XP32-SP07-02	132.5	60	218	25.5					1300
504652	ZD05-26.0-XP32-SP07-02	135	60	221	26					1300
504654	ZD05-26.5-XP32-SP07-02	137.5	60	223	26.5					1300
504656	ZD05-27.0-XP32-SP07-02	140	60	226	27					1300
504658	ZD05-27.5-XP32-SP07-02	142.5	60	226	27.5					1300
504660	ZD05-28.0-XP32-SP09-02	145	60	231	28		SPMG090408	M3.5×8	T15	1300
504662	ZD05-28.5-XP32-SP09-02	147.5	60	233	28.5					1300
504664	ZD05-29.0-XP32-SP09-02	150	60	236	29					1300
504666	ZD05-29.5-XP32-SP09-02	152.5	60	238	29.5					1300
504668	ZD05-30.0-XP32-SP09-02	155	60	241	30					1300
504670	ZD05-30.5-XP32-SP09-02	157.5	60	243	30.5					1450
504672	ZD05-31.0-XP32-SP09-02	160	60	246	31					1450
504674	ZD05-31.5-XP32-SP09-02	162.5	60	248	31.5					1450
504676	ZD05-32.0-XP32-SP09-02	165	60	251	32					1450
504678	ZD05-32.5-XP32-SP09-02	167.5	60	253	32.5					1450
504680	ZD05-33.0-XP32-SP09-02	170	60	256	33					1450
504682	ZD05-33.5-XP32-SP09-02	172.5	60	258	33.5					1450
504684	ZD05-34.0-XP32-SP11-02	175	60	261	34		SPMG110408	M4×10	T15	1450
504686	ZD05-34.5-XP32-SP11-02	177.5	60	263	34.5					1450
504688	ZD05-35.0-XP32-SP11-02	180	60	266	35					1450
504690	ZD05-35.5-XP32-SP11-02	182.5	60	268	35.5					1600
504692	ZD05-36.0-XP32-SP11-02	185	60	271	36					1600
504694	ZD05-36.5-XP32-SP11-02	187.5	60	273	36.5					1600
504696	ZD05-37.0-XP32-SP11-02	190	60	276	37					1600
504698	ZD05-37.5-XP32-SP11-02	192.5	60	278	37.5					1600
504700	ZD05-38.0-XP32-SP11-02	195	60	281	38					1600
504702	ZD05-38.5-XP32-SP11-02	197.5	60	283	38.5					1600
504704	ZD05-39.0-XP32-SP11-02	200	60	284	39	32	SPMG140512	M5×l0	T20	1600
504706	ZD05-39.5-XP32-SP11-02	202.5	60	288	39.5					1600
504708	ZD05-40.0-XP32-SP11-02	205	60	291	40					1600
504710	ZD05-41.0-XP32-SP14-02	210	60	296	41					1900
504712	ZD05-42.0-XP32-SP14-02	215	60	301	42					1900
504714	ZD05-43.0-XP40-SP14-02	220	65	315	43	40				1900
504716	ZD05-44.0-XP40-SP14-02	225	65	320	44					1900
504718	ZD05-45.0-XP40-SP14-02	230	65	325	45					1900
504720	ZD05-46.0-XP40-SP14-02	235	65	330	46					2100
504722	ZD05-47.0-XP40-SP14-02	240	65	335	47					2100
504724	ZD05-48.0-XP40-SP07-04	245	65	340	48		SPMG07T308	M2.5×6	T8	2100
504726	ZD05-49.0-XP40-SP07-04	250	65	345	49					2100
504728	ZD05-50.0-XP40-SP07-04	255	65	350	50					2100
504730	ZD05-51.0-XP40-SP07-04	260	65	355	51					2300
504732	ZD05-52.0-XP40-SP09-04	265	65	360	52		SPMG090408	M3.5×8	T15	2300
504734	ZD05-53.0-XP40-SP09-04	270	65	365	53					2300
504736	ZD05-54.0-XP40-SP09-04	275	65	370	54					2300
504738	ZD05-55.0-XP40-SP09-04	280	65	375	55					2300
504740	ZD05-56.0-XP40-SP09-04	285	65	380	56					2600
504742	ZD05-57.0-XP40-SP09-04	290	65	385	57					2600
504744	ZD05-58.0-XP40-SP09-04	295	65	390	58					2600
504746	ZD05-59.0-XP40-SP09-04	300	65	395	59					2600
504748	ZD05-60.0-XP40-SP09-04	305	65	400	60					2600

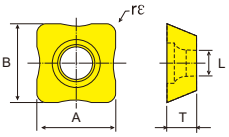
SOMT 低阻力 有孔 钻孔加工





切削形态: Cutting Environment ● 稳定切削 Stable Cutting ● 一般切削 General Cutting ✖ 不稳定切削 Unstable Cutting

P	钢	Steel	●●●●●●●
M	不锈钢	Stainless Steel	●●●●●●●
K	铸铁	Iron	●●●●●●●
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood	●●●●●●●
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy	●●●●●●●
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber	●●●●●●●

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	配套刀柄 Matching Toolholder	PCD	PCBN-K	PCBN-S	CBN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
钻孔刀片 Drilling Inserts			SOMT 040202-DP	0.2	4.0	4.0	1.8	2.0	刀柄: (Toolholder) K09-K10							●	●	●		
			050204-DP	0.4	4.9	4.9	2.38	2.25								●	●	●		
			060204-DP	0.4	5.7	5.7	2.38	2.6								●	●	●		
			070306-DP	0.6	6.8	6.8	2.8	2.6								●	●	●		
			08T306-DP	0.6	7.9	7.9	3.97	2.85								●	●	●		
			09T308-DP	0.8	9.2	9.2	3.97	3.8								●	●	●		
			11T308-DP	0.8	11.0	11.0	3.97	3.8								●	●	●		
			130408-DP	0.8	12.8	12.8	4.4	4.4								●	●	●		
			150510-DP	1.0	15.0	15.0	4.8	5.4								●	●	●		

SO型舍弃式快速钻头 SO Type Fast Drilling Bit

切削参数 (Cutting Parameters): K33

2倍快速钻头-SO刀片 L1=2xD Fast Drill - SO Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	重量 Weight
504800	ZD02-10.0-XP20-SO04-02	23	44	82	10					0.2
504801	10.3-XP20-SO04-02	24	44	83	10.3					0.2
504802	10.5-XP20-SO04-02	24	44	83	10.5					0.2
504803	11.0-XP20-SO04-02	25	44	84	11.0	20	SOMT040204	M1.8x4	T6	0.2
504804	11.5-XP20-SO04-02	26	44	85	11.5					0.2
504805	12.0-XP20-SO04-02	27	44	86	12.0					0.2
504806	12.5-XP20-SO04-02	28	44	87	12.5					0.2
504807	ZD02-13.0-XP20-SO05-02	29	44	88	13.0					0.2
504808	13.5-XP20-SO05-02	30	44	89	13.5					0.2
504809	14.0-XP20-SO05-02	31	44	90	14.0					0.2
504810	14.5-XP20-SO05-02	32	44	91	14.5		SOMT050204	M2.0x5	T6	0.2
504811	15.0-XP20-SO05-02	33	44	92	15.0	20				0.2
504812	15.5-XP20-SO05-02	34	44	93	15.5					0.2
504813	16.0-XP20-SO05-02	35	44	94	16.0					0.2
504814	ZD02-16.5-XP20-SO06-02	36	44	95	16.5					0.2
504815	17.0-XP20-SO06-02	37	44	96	17.0		SOMT060204	M2.2x5	T7	0.2
504816	ZD02-17.5-XP25-SO06-02	38	56	109	17.5					0.3
504817	18.0-XP25-SO06-02	39	56	110	18.0					0.3
504818	18.5-XP25-SO06-02	40	56	111	18.5		SOMT060204	M2.2x5	T7	0.3
504819	19.0-XP25-SO06-02	41	56	112	19.0					0.3
504820	ZD02-19.5-XP25-SO07-02	42	56	113	19.5					0.3
504821	20.0-XP25-SO07-02	43	56	114	20.0					0.3
504822	20.5-XP25-SO07-02	44	56	115	20.5					0.3
504823	21.0-XP25-SO07-02	45	56	116	21.0	25	SOMT070306	M2.2x5	T7	0.3
504824	21.5-XP25-SO07-02	46	56	117	21.5					0.3
504825	22.0-XP25-SO07-02	47	56	118	22.0					0.4
504826	ZD02-22.5-XP25-SO08-02	48	56	119	22.5					0.4
504827	23.0-XP25-SO08-02	49	56	123	23.0					0.4
504828	23.5-XP25-SO08-02	50	56	124	23.5		SOMT08T306	M2.5x6	T8	0.4
504829	24.0-XP25-SO08-02	51	56	125	24.0					0.4
504830	24.5-XP25-SO08-02	52	56	126	24.5					0.4
504831	25.0-XP25-SO08-02	53	56	127	25.0					0.4
504832	ZD02-25.5-XP32-SO08-02	54	60	134	25.5					0.6
504833	26.0-XP25-SO08-02	55	60	135	26.0		SOMT08T306	M2.5x6	T8	0.6
504834	ZD02-26.5-XP32-SO09-02	56	60	136	26.5					0.6
504835	27.0-XP32-SO09-02	57	60	137	27.0					0.6
504836	27.5-XP32-SO09-02	58	60	138	27.5					0.6
504837	28.0-XP32-SO09-02	59	60	139	28.0					0.6
504838	28.5-XP32-SO09-02	60	60	140	28.5					0.6
504839	29.0-XP32-SO09-02	62	60	143	29.0		SOMT09T308	M3.5x8	T15	0.7
504840	29.5-XP32-SO09-02	63	60	144	29.5					0.7
504841	30.0-XP32-SO09-02	64	60	148	30.0					0.7
504842	30.5-XP32-SO09-02	65	60	149	30.5					0.7
504843	31.0-XP32-SO09-02	66	60	150	31.0					0.7
504844	31.5-XP32-SO09-02	67	60	151	31.5					0.7
504845	ZD02-32.0-XP32-SO11-02	68	60	152	32.0	32				0.8
504846	32.5-XP32-SO11-02	69	60	153	32.5					0.8
504847	33.0-XP32-SO11-02	70	60	154	33.0					0.8
504848	33.5-XP32-SO11-02	71	60	155	33.5					0.8
504849	34.0-XP32-SO11-02	72	60	156	34.0		SOMT11T308	M3.5x8	T15	0.8
504850	34.5-XP32-SO11-02	73	60	157	34.5					0.8
504851	35.0-XP32-SO11-02	74	60	158	35.0					0.8
504852	35.5-XP32-SO11-02	75	60	159	35.5					0.8
504853	36.0-XP32-SO11-02	76	60	160	36.0					0.9
504854	36.5-XP32-SO11-02	77	60	161	36.5					0.9
504855	ZD02-37.0-XP32-SO13-02	79	60	169	37.0					0.9
504856	37.5-XP32-SO13-02	80	60	170	37.5					0.9
504857	38.0-XP32-SO13-02	81	60	171	38.0		SOMT130408	M4.0x10	T15	0.9
504858	38.5-XP32-SO13-02	82	60	172	38.5					0.9
504859	39.0-XP32-SO13-02	83	60	173	39.0					1.0
504860	39.5-XP32-SO13-02	84	60	174	39.5					1.1
504861	ZD02-40.0-XP40-SO13-02	85	70	185	40.0					1.3
504862	41.0-XP40-SO13-02	87	70	187	41.0		SOMT130408	M4.0x10	T15	1.3
504863	42.0-XP40-SO13-02	89	70	189	42.0					1.4
504864	43.0-XP40-SO13-02	91	70	191	43.0					1.5
504865	ZD02-44.0-XP40-SO15-02	93	70	193	44.0					1.6
504866	45.0-XP40-SO15-02	95	70	195	45.0	40				1.7
504867	46.0-XP40-SO15-02	97	70	197	46.0					1.7
504868	47.0-XP40-SO15-02	99	70	199	47.0		SOMT150510	M5.0x11	T20	1.8
504869	48.0-XP40-SO15-02	101	70	201	48.0					1.8
504870	49.0-XP40-SO15-02	103	70	203	49.0					1.9
504871	50.0-XP40-SO15-02	105	70	205	50.0					1.9

3倍快速钻头-SO刀片 L1=3xD Fast Drill - SO Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	重量 Weight
504880	ZD03-10.0-XP20-SO04-02	33	44	92	10					0.2
504881	10.3-XP20-SO04-02	34	44	93	10.3					0.2
504882	10.5-XP20-SO04-02	35	44	94	10.5					0.2
504883	11.0-XP20-SO04-02	36	44	95	11.0	20	SOMT040204	M1.8x4	T6	0.2
504884	11.5-XP20-SO04-02	38	44	97	11.5					0.2
504885	12.0-XP20-SO04-02	39	44	98	12.0					0.2
504886	12.5-XP20-SO04-02	41	44	100	12.5					0.2
504887	ZD03-13.0-XP20-SO05-02	42	44	101	13.0					0.2
504888	13.5-XP20-SO05-02	44	44	103	13.5					0.2
504889	14.0-XP20-SO05-02	45	44	104	14.0					0.2
504890	14.5-XP20-SO05-02	47	44	106	14.5		SOMT050204	M2.0x5	T6	0.2
504891	15.0-XP20-SO05-02	48	44	107	15.0	20				0.2
504892	15.5-XP20-SO05-02	50	44	109	15.5					0.2
504893	16.0-XP20-SO05-02	51	44	110	16.0					0.2
504894	ZD03-16.5-XP20-SO06-02	53	44	112	16.5					0.2
504895	17.0-XP20-SO06-02	54	44	113	17.0		SOMT060204	M2.2x5	T7	0.2
504896	ZD03-17.5-XP25-SO06-02	56	56	127	17.5					0.3
504897	18.0-XP25-SO06-02	57	56	128	18.0					0.3
504898	18.5-XP25-SO06-02	59	56	130	18.5		SOMT060204	M2.2x5	T7	0.3
504899	19.0-XP25-SO06-02	60	56	131	19.0					0.3
504900	ZD03-19.5-XP25-SO07-02	62	56	133	19.5					0.3
504901	20.0-XP25-SO07-02	63	56	134	20.0					0.3
504902	20.5-XP25-SO07-02	65	56	136	20.5					0.4
504903	21.0-XP25-SO07-02	66	56	137	21.0	25	SOMT070306	M2.2x5	T7	0.4
504904	21.5-XP25-SO07-02	68	56	139	21.5					0.4
504905	22.0-XP25-SO07-02	69	56	140	22.0					0.4
504906	ZD03-22.5-XP25-SO08-02	71	56	142	22.5					0.4
504907	23.0-XP25-SO08-02	72	56	146	23.0					0.4
504908	23.5-XP25-SO08-02	74	56	148	23.5		SOMT08T306	M2.5x6	T8	0.4
504909	24.0-XP25-SO08-02	75	56	149	24.0					0.4
504910	24.5-XP25-SO08-02	77	56	151	24.5					0.4
504911	25.0-XP25-SO08-02	78	56	152	25.0					0.4
504912	ZD03-25.5-XP32-SO08-02	80	60	160	25.5					0.6
504913	26.0-XP25-SO08-02	81	60	161	26.0		SOMT08T306	M2.5x6	T8	0.6
504914	ZD03-26.5-XP32-SO09-02	83	60	163	26.5					0.7
504915	27.0-XP32-SO09-02	84	60	164	27.0					0.7
504916	27.5-XP32-SO09-02	86	60	166	27.5					0.7
504917	28.0-XP32-SO09-02	87	60	167	28.0					0.7
504918	28.5-XP32-SO09-02	89	60	169	28.5					0.7
504919	29.0-XP32-SO09-02	91	60	172	29.0		SOMT09T308	M3.5x8	T15	0.7
504920	29.5-XP32-SO09-02	93	60	174	29.5					0.7
504921	30.0-XP32-SO09-02	94	60	178	30.0					0.7
504922	30.5-XP32-SO09-02	96	60	180	30.5					0.8
504923	31.0-XP32-SO09-02	97	60	181	31.0					0.8
504924	31.5-XP32-SO09-02	99	60	183	31.5					0.9
504925	ZD03-32.0-XP32-SO11-02	100	60	184	32.0	32				0.9
504926	32.5-XP32-SO11-02	102	60	186	32.5					0.9
504927	33.0-XP32-SO11-02	103	60	187	33.0					0.9
504928	33.5-XP32-SO11-02	105	60	189	33.5					0.9
504929	34.0-XP32-SO11-02	106	60	190	34.0		SOMT11T308	M3.5x8	T15	0.9
504930	34.5-XP32-SO11-02	108	60	192	34.5					1.0
504931	35.0-XP32-SO11-02	109	60	193	35.0					1.0
504932	35.5-XP32-SO11-02	111	60	195	35.5					1.0
504933	36.0-XP32-SO11-02	112	60	196	36.0					1.0
504934	36.5-XP32-SO11-02	114	60	198	36.5					1.1
504935	ZD03-37.0-XP32-SO13-02	116	60	206	37.0					1.1
504936	37.5-XP32-SO13-02	118	60	208	37.5					1.1
504937	38.0-XP32-SO13-02	119	60	209	38.0		SOMT130408	M4.0x10	T15	1.1
504938	38.5-XP32-SO13-02	121	60	211	38.5					1.1
504939	39.0-XP32-SO13-02	122	60	212	39.0					1.2
504940	39.5-XP32-SO13-02	124	60	214	39.5					1.3
504941	ZD03-40.0-XP40-SO13-02	125	70	225	40.0					1.6
504942	41.0-XP40-SO13-02	128	70	228	41.0		SOMT130408	M4.0x10	T15	1.7
504943	42.0-XP40-SO13-02	131	70	231	42.0					1.7
504944	43.0-XP40-SO13-02	134	70	234	43.0					1.8
504945	ZD03-44.0-XP40-SO15-02	137	70	237	44.0					1.8
504946	45.0-XP40-SO15-02	140	70	240	45.0	40				1.9
504947	46.0-XP40-SO15-02	143	70	243	46.0					2.0
504948	47.0-XP40-SO15-02	146	70	246	47.0		SOMT150510	M5.0x11	T20	2.1
504949	48.0-XP40-SO15-02	149	70	249	48.0					2.2
504950	49.0-XP40-SO15-02	152	70	252	49.0					2.2
504951	50.0-XP40-SO15-02	155	70	255	50.0					2.3

4倍快速钻头-SO刀片 L1=4xD Fast Drill - SO Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	重量 Weight
504960	ZD04-14.0-XP20-SO05-02	59	44	118	14.0					0.2
504961	14.5-XP20-SO05-02	61	44	120	14.5					0.2
504962	15.0-XP20-SO05-02	63	44	122	15.0		SOMT050204	M2.0x5	T6	0.2
504963	15.5-XP20-SO05-02	65	44	124	15.5	20				0.2
504964	16.0-XP20-SO05-02	67	44	126	16.0					0.2
504965	ZD04-16.5-XP20-SO06-02	69	44	128	16.5		SOMT060204	M2.2x5	T7	0.2
504966	17.0-XP20-SO06-02	71	44	130	17.0					0.3
504967	ZD04-17.5-XP25-SO06-02	73	56	144	17.5					0.3
504968	18.0-XP25-SO06-02	75	56	146	18.0		SOMT060204	M2.2x5	T7	0.3
504969	18.5-XP25-SO06-02	77	56	148	18.5					0.3
504970	19.0-XP25-SO06-02	79	56	150	19.0					0.4
504971	ZD04-19.5-XP25-SO07-02	81	56	152	19.5					0.4
504972	20.0-XP25-SO07-02	83	56	154	20.0					0.4
504973	20.5-XP25-SO07-02	85	56	156	20.5		SOMT070306	M2.2x5	T7	0.4
504974	21.0-XP25-SO07-02	87	56	158	21.0	25				0.4
504975	21.5-XP25-SO07-02	89	56	160	21.5					0.4
504976	22.0-XP25-SO07-02	91	56	162	22.0					0.4
504977	ZD04-22.5-XP25-SO08-02	93	56	164	22.5					0.5
504978	23.0-XP25-SO08-02	95	56	169	23.0					0.5
504979	23.5-XP25-SO08-02	97	56	171	23.5		SOMT08T306	M2.5x6	T8	0.5
504980	24.0-XP25-SO08-02	99	56	173	24.0					0.7
504981	24.5-XP25-SO08-02	101	56	175	24.5					0.7
504982	25.0-XP25-SO08-02	103	56	177	25.0					0.7
504983	ZD04-25.5-XP32-SO08-02	105	60	185	25.5					0.7
504984	26.0-XP25-SO08-02	107	60	187	26.0		SOMT08T306	M2.5x6	T8	0.7
504985	ZD04-26.5-XP32-SO09-02	109	60	189	26.5					0.7
504986	27.0-XP32-SO09-02	111	60	191	27.0					0.7
504987	27.5-XP32-SO09-02	113	60	193	27.5					0.7
504988	28.0-XP32-SO09-02	115	60	195	28.0					0.8
504989	28.5-XP32-SO09-02	117	60	197	28.5					0.8
504990	29.0-XP32-SO09-02	120	60	201	29.0		SOMT09T308	M3.5x8	T15	0.8
504991	29.5-XP32-SO09-02	122	60	203	29.5					0.8
504992	30.0-XP32-SO09-02	124	60	208	30.0					0.9
504993	30.5-XP32-SO09-02	126	60	210	30.5					0.9
504994	31.0-XP32-SO09-02	128	60	212	31.0					0.9
504995	31.5-XP32-SO09-02	130	60	214	31.5					0.9
504996	ZD04-32.0-XP32-SO11-02	132	60	216	32.0	32				1.0
504997	32.5-XP32-SO11-02	134	60	218	32.5					1.0
504998	33.0-XP32-SO11-02	136	60	220	33.0					1.0
504999	33.5-XP32-SO11-02	138	60	222	33.5					1.0
505000	34.0-XP32-SO11-02	140	60	224	34.0		SOMT11T308	M3.5x8	T15	1.1
505001	34.5-XP32-SO11-02	142	60	226	34.5					1.1
505002	35.0-XP32-SO11-02	144	60	228	35.0					1.1
505003	35.5-XP32-SO11-02	146	60	230	35.5					1.1
505004	36.0-XP32-SO11-02	148	60	232	36.0					1.2
505005	36.5-XP32-SO11-02	150	60	234	36.5					1.2
505006	ZD04-37.0-XP32-SO13-02	153	60	243	37.0					1.2
505007	37.5-XP32-SO13-02	155	60	245	37.5					1.2
505008	38.0-XP32-SO13-02	157	60	247	38.0		SOMT130408	M4.0x10	T15	1.3
505009	38.5-XP32-SO13-02	159	60	249	38.5					1.3
505010	39.0-XP32-SO13-02	161	60	251	39.0					1.8
505011	39.5-XP32-SO13-02	163	60	253	39.5					1.8
505012	ZD04-40.0-XP40-SO13-02	165	70	265	40.0					1.8
505013	41.0-XP40-SO13-02	169	70	269	41.0		SOMT130408	M4.0x10	T15	1.9
505014	42.0-XP40-SO13-02	173	70	273	42.0					2.0
505015	43.0-XP40-SO13-02	177	70	277	43.0					2.1
505016	ZD04-44.0-XP40-SO15-02	181	70	281	44.0					2.2
505017	45.0-XP40-SO15-02	185	70	285	45.0	40				2.3
505018	46.0-XP40-SO15-02	189	70	289	46.0					2.4
505019	47.0-XP40-SO15-02	193	70	293	47.0		SOMT150510	M5.0x11	T20	2.5
505020	48.0-XP40-SO15-02	197	70	297	48.0					2.6
505021	49.0-XP40-SO15-02	201	70	301	49.0					2.7
505022	50.0-XP40-SO15-02	205	70	305	50.0					2.8

5倍快速钻头-SO刀片 L1=5xD Fast Drill - SO Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	重量 Weight
505030	ZD05-16.0-XP20-SO05-02	83	44	142	16.0		SOMT050204	M2.0x5	T6	0.3
505031	ZD05-16.5-XP20-SO06-02	86	44	145	16.5	20	SOMT060204	M2.2x5	T7	0.3
505032	17.0-XP20-SO06-02	88	44	147	17.0					0.4
505033	ZD05-17.5-XP25-SO06-02	91	56	162	17.5					0.4
505034	18.0-XP25-SO06-02	93	56	164	18.0		SOMT060204	M2.2x5	T7	0.4
505035	18.5-XP25-SO06-02	96	56	167	18.5					0.4
505036	19.0-XP25-SO06-02	98	56	169	19.0					0.5
505037	ZD05-19.5-XP25-SO07-02	101	56	172	19.5					0.5
505038	20.0-XP25-SO07-02	103	56	174	20.0					0.5
505039	20.5-XP25-SO07-02	106	56	177	20.5		SOMT070306	M2.2x5	T7	0.5
505040	21.0-XP25-SO07-02	108	56	179	21.0	25				0.5
505041	21.5-XP25-SO07-02	111	56	182	21.5					0.5
505042	22.0-XP25-SO07-02	113	56	184	22.0					0.5
505043	ZD05-22.5-XP25-SO08-02	116	56	187	22.5					0.6
505044	23.0-XP25-SO08-02	118	56	192	23.0					0.6
505045	23.5-XP25-SO08-02	121	56	195	23.5		SOMT08T306	M2.5x6	T8	0.6
505046	24.0-XP25-SO08-02	123	56	197	24.0					0.8
505047	24.5-XP25-SO08-02	126	56	200	24.5					0.8
505048	25.0-XP25-SO08-02	128	56	202	25.0					0.8
505049	ZD05-25.5-XP32-SO08-02	130	60	210	25.5					0.9
505050	26.0-XP25-SO08-02	133	60	213	26.0		SOMT08T306	M2.5x6	T8	0.9
505051	ZD05-26.5-XP32-SO09-02	136	60	216	26.5					0.9
505052	27.0-XP32-SO09-02	138	60	218	27.0					0.9
505053	27.5-XP32-SO09-02	141	60	221	27.5					0.9
505054	28.0-XP32-SO09-02	143	60	223	28.0					1.0
505055	28.5-XP32-SO09-02	146	60	226	28.5					1.0
505056	29.0-XP32-SO09-02	148	60	229	29.0		SOMT09T308	M3.5x8	T15	1.0
505057	29.5-XP32-SO09-02	151	60	232	29.5					1.0
505058	30.0-XP32-SO09-02	154	60	238	30.0					1.0
505059	30.5-XP32-SO09-02	157	60	241	30.5					1.0
505060	31.0-XP32-SO09-02	159	60	243	31.0					1.0
505061	31.5-XP32-SO09-02	162	60	246	31.5					1.2
505062	ZD05-32.0-XP32-SO11-02	164	60	248	32.0	32				1.2
505063	32.5-XP32-SO11-02	167	60	251	32.5					1.2
505064	33.0-XP32-SO11-02	169	60	253	33.0					1.2
505065	33.5-XP32-SO11-02	172	60	256	33.5					1.2
505066	34.0-XP32-SO11-02	174	60	258	34.0		SOMT11T308	M3.5x8	T15	1.3
505067	34.5-XP32-SO11-02	177	60	261	34.5					1.3
505068	35.0-XP32-SO11-02	179	60	263	35.0					1.3
505069	35.5-XP32-SO11-02	182	60	266	35.5					1.3
505070	36.0-XP32-SO11-02	184	60	268	36.0					1.5
505071	36.5-XP32-SO11-02	187	60	271	36.5					1.5
505072	ZD05-37.0-XP32-SO13-02	190	60	280	37.0					1.5
505073	37.5-XP32-SO13-02	193	60	283	37.5					1.5
505074	38.0-XP32-SO13-02	195	60	285	38.0		SOMT130408	M4.0x10	T15	1.6
505075	38.5-XP32-SO13-02	198	60	288	38.5					1.6
505076	39.0-XP32-SO13-02	200	60	290	39.0					2.1
505077	39.5-XP32-SO13-02	203	60	293	39.5					2.1
505078	ZD05-40.0-XP40-SO13-02	205	70	305	40.0					2.2
505079	41.0-XP40-SO13-02	210	70	310	41.0		SOMT130408	M4.0x10	T15	2.3
505080	42.0-XP40-SO13-02	215	70	315	42.0					2.5
505081	43.0-XP40-SO13-02	220	70	320	43.0					2.6
505082	ZD05-44.0-XP40-SO15-02	225	70	325	44.0					2.7
505083	45.0-XP40-SO15-02	230	70	330	45.0	40				2.8
505084	46.0-XP40-SO15-02	230	70	330	46.0					2.9
505085	47.0-XP40-SO15-02	240	70	340	47.0		SOMT150510	M5.0x11	T20	3.0
505086	48.0-XP40-SO15-02	245	70	345	48.0					3.1
505087	49.0-XP40-SO15-02	250	70	350	49.0					3.2
505088	50.0-XP40-SO15-02	255	70	355	50.0					3.3

6倍深孔钻头-SO刀片 L1=6xD Fast Drill - SO Type

编码 Order	型号 Model	L1	L2	L	D	d	Center Cutter	刀片 Inserts	螺丝 Screw	扳手 Wrench
505130	ZD06-19.0-SO04-YL06	122	60	200	19.0			SOMT040204	M1.8x4	T6
505131	20.0-SO05-YL06	128	60	206	20.0			SOMT050204	M2.0x5	T6
505132	21.0-SO05-YL06	134	60	212	21.0					
505133	22.0-SO06-YL06	140	60	218	22.0		YL06 M3.5x8 T15			
505134	23.0-SO06-YL06	146	60	224	23.0	32		SOMT060204	M2.2x5	T7
505135	24.0-SO06-YL06	152	60	230	24.0					
505136	25.0-SO06-YL06	158	60	236	25.0					
505137	26.0-SO06-YL06	164	60	245	26.0					
505138	ZD06-27.0-SO06-YL08	170	60	251	27.0					
505139	28.0-SO06-YL08	176	60	257	28.0					
505140	29.0-SO06-YL08	182	60	263	29.0					
505141	30.0-SO06-YL08	188	60	269	30.0					
505142	31.0-SO06-YL08	194	60	275	31.0			SOMT060204	M2.2x5	T7
505143	32.0-SO06-YL08	200	60	281	32.0		YL08 M3.5x8 T15			
505144	33.0-SO06-YL08	206	60	289	33.0	32				
505145	34.0-SO06-YL08	212	60	295	34.0					
505146	35.0-SO09-YL08	218	60	301	35.0					
505147	36.0-SO09-YL08	224	60	307	36.0					
505148	37.0-SO09-YL08	230	60	313	37.0			SOMT09T308	M3.5x8	T15
505149	38.0-SO09-YL08	236	60	319	38.0					
505150	39.0-SO09-YL08	242	60	325	39.0					
505151	40.0-SO09-YL08	248	60	331	40.0					

8倍深孔钻头-SO刀片 L1=8xD Fast Drill - SO Type

编码 Order	型号 Model	L1	L2	L	D	d	中心刀具 Center Cutter	刀片 Inserts	螺丝 Screw	扳手 Wrench
505156	ZD08-19.0-SO04-YL06	160	60	238	19.0			SOMT040204	M1.8x4	T6
505157	20.0-SO05-YL06	168	60	246	20.0			SOMT050204	M2.0x5	T6
505158	21.0-SO05-YL06	176	60	256	21.0					
505159	22.0-SO06-YL06	184	60	262	22.0		YL06 M3.5x8 T15			
505160	23.0-SO06-YL06	192	60	270	23.0	32		SOMT060204	M2.2x5	T7
505161	24.0-SO06-YL06	200	60	278	24.0					
505162	25.0-SO06-YL06	208	60	286	25.0					
505163	26.0-SO06-YL06	216	60	297	26.0					
505164	ZD08-27.0-SO06-YL08	224	60	305	27.0					
505165	28.0-SO06-YL08	232	60	313	28.0					
505166	29.0-SO06-YL08	240	60	321	29.0					
505167	30.0-SO06-YL08	248	60	329	30.0			SOMT060204	M2.2x5	T7
505168	31.0-SO06-YL08	256	60	337	31.0					
505169	32.0-SO06-YL08	264	60	345	32.0		YL08 M3.5x8 T15			
505170	33.0-SO06-YL08	272	60	355	33.0	32				
505171	34.0-SO06-YL08	280	60	363	34.0					
505172	35.0-SO09-YL08	288	60	371	35.0					
505173	36.0-SO09-YL08	296	60	379	36.0					
505174	37.0-SO09-YL08	304	60	387	37.0					
505175	38.0-SO09-YL08	312	60	395	38.0			SOMT09T308	M3.5x8	T15
505176	39.0-SO09-YL08	320	60	403	39.0					
505177	40.0-SO09-YL08	328	60	411	40.0					

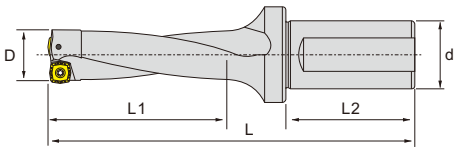
10倍深孔钻头-SO刀片 L1=10xD Fast Drill - SO Type

编码 Order	型号 Model	L1	L2	L	D	d	中心刀具 Center Cutter	刀片 Inserts	螺丝 Screw	扳手 Wrench
505178	ZD10-19.0-SO04-YL06	198	60	276	19.0					
505179	20.0-SO05-YL06	208	60	286	20.0			SOMT040204	M1.8x4	T6
505180	21.0-SO05-YL06	218	60	296	21.0			SOMT050204	M2.0x5	T6
505181	22.0-SO06-YL06	228	60	306	22.0		YL06 M3.5x8 T15			
505182	23.0-SO06-YL06	238	60	316	23.0	32		SOMT060204	M2.2x5	T7
505183	24.0-SO06-YL06	248	60	326	24.0					
505184	25.0-SO06-YL06	258	60	336	25.0					
505185	26.0-SO06-YL06	268	60	349	26.0					
505186	ZD10-27.0-SO06-YL08	278	60	359	27.0					
505187	28.0-SO06-YL08	288	60	369	28.0					
505188	29.0-SO06-YL08	298	60	379	29.0					
505189	30.0-SO06-YL08	308	60	389	30.0					
505190	31.0-SO06-YL08	318	60	399	31.0			SOMT060204	M2.2x5	T7
505191	32.0-SO06-YL08	328	60	409	32.0		YL08 M3.5x8 T15			
505192	33.0-SO06-YL08	338	60	421	33.0	32				
505193	34.0-SO06-YL08	348	60	431	34.0					
505194	35.0-SO09-YL08	358	60	441	35.0					
505195	36.0-SO09-YL08	368	60	451	36.0					
505196	37.0-SO09-YL08	378	60	461	37.0			SOMT09T308	M3.5x8	T15
505197	38.0-SO09-YL08	388	60	471	38.0					
505198	39.0-SO09-YL08	398	60	481	39.0					
505199	40.0-SO09-YL08	408	60	491	40.0					

切削参数 (Cutting Parameters): K33

XOMT 低阻力 有孔 钻孔加工

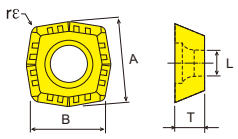
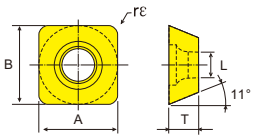




切削参数 (Cutting Parameters): K33

切削形态: Cutting Environment　● 稳定切削 Stable Cutting　● 一般切削 General Cutting　✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	配套刀柄 Matching Toolholder	PCD	PCBN-K	PCBN-S	CN60	ZK01	ZC32S	ZP201	ZP151	ZP152	ZP153	ZP163
钻孔刀片 Drilling Inserts			XOMT 040204-PD	0.4	4.9	4.3	2.4	2.3	刀柄: (Toolholder) K11-K12							●	●	●	●	●
			050204-PD	0.4	5.4	4.8	2.4	2.3								●	●	●	●	●
			060204-PD	0.4	6.6	5.8	2.5	2.5								●	●	●	●	●
			07T205-PD	0.5	7.8	6.9	2.8	2.8								●	●	●	●	●
			090305-PD	0.5	9.6	8.4	3.3	3.4								●	●	●	●	●
			11T306-PD	0.6	11.4	10.0	4.0	4.0								●	●	●	●	●
			130406-PD	0.6	13.6	11.9	4.5	4.5								●	●	●	●	●
			15M508-PD	0.8	15.9	13.9	5.0	5.5								●	●	●	●	●
			180508-PD	0.8	18.9	16.5	5.5	6.0								●	●	●	●	●
钻孔刀片 Drilling Inserts			SPMT 040204-PD	0.4	4.7	4.7	2.4	2.3	刀柄: (Toolholder) K11-K12							●	●	●	●	●
			050204-PD	0.4	5.1	5.1	2.4	2.3								●	●	●	●	●
			060205-PD	0.5	6.2	6.2	2.5	2.5								●	●	●	●	●
			07T208-PD	0.8	7.5	7.5	2.8	2.8								●	●	●	●	●
			090308-PD	0.8	9.2	9.2	3.3	3.4								●	●	●	●	●
			11T308-PD	0.8	11.0	11.0	4.0	4.0								●	●	●	●	●
			130410-PD	1.0	13.0	13.0	4.5	4.5								●	●	●	●	●
			15M510-PD	1.0	15.2	15.2	5.0	5.5								●	●	●	●	●
			180510-PD	1.0	18.2	18.2	5.5	6.0								●	●	●	●	●

XO型舍弃式快速钻头 XO Type Fast Drilling Bit

切削参数 (Cutting Parameters): K33

2倍快速钻头-XO刀片 L1=2xD Fast Drill - XO Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	单价 Price
505220	ZD02- 13.0-XP20-XO04	29	50	99	13.0		XOMT040204 SPMT040204	M2.0x4	T6	
505221	13.5-XP20-XO04	30	50	100	13.5					
505222	14.0-XP20-XO04	31	50	101	14.0					
505223	14.5-XP20-XO04	32	50	102	14.5	20				
505224	15.0-XP20-XO05	33	50	103	15.0		XOMT050204 SPMT050204	M2.0x4	T6	
505225	15.5-XP20-XO05	34	50	104	15.5					
505226	16.0-XP20-XO05	35	50	105	16.0					
505227	ZD02- 16.5-XP25-XO06	36	56	117	16.5		XOMT060204 SPMT060205	M2.2x5	T6	
505228	17.0-XP25-XO06	37	56	118	17.0					
505229	17.5-XP25-XO06	38	56	119	17.5					
505230	18.0-XP25-XO06	39	56	120	18.0					
505231	18.5-XP25-XO06	40	56	121	18.5					
505232	19.0-XP25-XO06	41	56	122	19.0					
505233	19.5-XP25-XO06	42	56	123	19.5					
505234	20.0-XP25-XO06	43	56	124	20.0	25				
505235	20.5-XP25-XO06	44	56	125	20.5					
505236	21.0-XP25-XO07	45	56	126	21.0		XOMT07T205 SPMT07T208	M2.5x5	T8	
505237	21.5-XP25-XO07	46	56	127	21.5					
505238	22.0-XP25-XO07	47	56	128	22.0					
505239	22.5-XP25-XO07	48	56	129	22.5					
505240	23.0-XP25-XO07	49	56	130	23.0					
505241	23.5-XP25-XO07	50	56	131	23.5					
505242	ZD02- 24.0-XP32-XO09	51	60	141	24.0		XOMT090305 SPMT090308	M3.0x7	T8	
505243	24.5-XP32-XO09	52	60	142	24.5					
505244	25.0-XP32-XO09	53	60	143	25.0					
505245	25.5-XP32-XO09	54	60	144	25.5					
505246	26.0-XP32-XO09	55	60	145	26.0					
505247	26.5-XP32-XO09	56	60	145	26.5					
505248	27.0-XP32-XO09	57	60	147	27.0					
505249	27.5-XP32-XO09	58	60	148	27.5					
505250	28.0-XP32-XO09	59	60	149	28.0					
505251	28.5-XP32-XO09	60	60	150	28.5	32				
505252	29.0-XP32-XO09	61	60	151	29.0					
505253	29.5-XP32-XO09	62	60	152	29.5					
505254	30.0-XP32-XO09	65	60	155	30.0					
505255	31.0-XP32-XO09	67	60	157	31.0					
505256	32.0-XP32-XO11	69	60	159	32.0		XOMT11T306 SPMT11T308	M3.5x8	T15	
505257	33.0-XP32-XO11	71	60	161	33.0					
505258	34.0-XP32-XO11	73	60	163	34.0					
505259	35.0-XP32-XO11	75	60	165	35.0					
505260	ZD02- 36.0-XP40-XO13	77	70	182	36.0		XOMT130406 SPMT130410	M4.0x10	T15	
505261	37.0-XP40-XO13	79	70	184	37.0					
505262	38.0-XP40-XO13	81	70	186	38.0					
505263	39.0-XP40-XO13	83	70	188	39.0					
505264	40.0-XP40-XO13	85	70	190	40.0					
505265	41.0-XP40-XO13	87	70	192	41.0					
505266	42.0-XP40-XO13	89	70	194	42.0					
505267	43.0-XP40-XO15	81	70	196	43.0		XOMT15M508 SPMT15M510	M5.0x12	T20	
505268	44.0-XP40-XO15	93	70	198	44.0					
505269	45.0-XP40-XO15	95	70	200	45.0					
505270	46.0-XP40-XO15	97	70	202	46.0					
505271	47.0-XP40-XO15	99	70	204	47.0					
505272	48.0-XP40-XO15	101	70	206	48.0	40				
505273	49.0-XP40-XO15	103	70	208	49.0					
505274	50.0-XP40-XO15	105	70	210	50.0					
505275	51.0-XP40-XO18	107	70	212	51.0		XOMT180508 SPMT180510	M5.0x12	T20	
505276	52.0-XP40-XO18	109	70	214	52.0					
505277	53.0-XP40-XO18	111	70	216	53.0					
505278	54.0-XP40-XO18	113	70	218	54.0					
505279	55.0-XP40-XO18	115	70	220	55.0					
505280	56.0-XP40-XO18	117	70	222	56.0					
505281	57.0-XP40-XO18	119	70	224	57.0					
505282	58.0-XP40-XO18	121	70	226	58.0					
505283	59.0-XP40-XO18	123	70	228	59.0					
505284	60.0-XP40-XO18	125	70	230	60.0					

3倍快速钻头-XO刀片 L1=3xD Fast Drill - XO Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	单价 Price
505285	ZD03- 13.0-XP20-XO04	42	50	112	13.0		XOMT040204 SPMT040204	M2.0x4	T6	
505286	13.5-XP20-XO04	44	50	114	13.5					
505287	14.0-XP20-XO04	45	50	115	14.0					
505288	14.5-XP20-XO04	47	50	117	14.5	20				
505289	15.0-XP20-XO05	48	50	118	15.0		XOMT050204 SPMT050204	M2.0x4	T6	
505290	15.5-XP20-XO05	50	50	120	15.5					
505291	16.0-XP20-XO05	51	50	121	16.0					
505292	ZD03- 16.5-XP25-XO06	53	56	134	16.5		XOMT060204 SPMT060205	M2.2x5	T6	
505293	17.0-XP25-XO06	54	56	135	17.0					
505294	17.5-XP25-XO06	56	56	137	17.5					
505295	18.0-XP25-XO06	57	56	138	18.0					
505296	18.5-XP25-XO06	59	56	140	18.5					
505297	19.0-XP25-XO06	60	56	141	19.0					
505298	19.5-XP25-XO06	62	56	143	19.5					
505299	20.0-XP25-XO06	63	56	144	20.0	25				
505310	20.5-XP25-XO06	65	56	146	20.5					
505311	21.0-XP25-XO07	66	56	147	21.0		XOMT07T205 SPMT07T208	M2.5x5	T8	
505312	21.5-XP25-XO07	68	56	149	21.5					
505313	22.0-XP25-XO07	69	56	150	22.0					
505314	22.5-XP25-XO07	71	56	152	22.5					
505315	23.0-XP25-XO07	72	56	153	23.0					
505316	23.5-XP25-XO07	74	56	155	23.5					
505317	ZD03- 24.0-XP32-XO09	75	60	165	24.0		XOMT090305 SPMT090308	M3.0x7	T8	
505318	24.5-XP32-XO09	77	60	167	24.5					
505319	25.0-XP32-XO09	78	60	168	25.0					
505320	25.5-XP32-XO09	80	60	170	25.5					
505321	26.0-XP32-XO09	81	60	171	26.0					
505322	26.5-XP32-XO09	83	60	173	26.5					
505323	27.0-XP32-XO09	84	60	174	27.0					
505324	27.5-XP32-XO09	86	60	176	27.5					
505325	28.0-XP32-XO09	87	60	177	28.0					
505326	28.5-XP32-XO09	89	60	179	28.5	32				
505327	29.0-XP32-XO09	90	60	180	29.0					
505328	29.5-XP32-XO09	92	60	182	29.5					
505329	30.0-XP32-XO09	95	60	185	30.0					
505330	31.0-XP32-XO09	98	60	188	31.0					
505331	32.0-XP32-XO11	101	60	191	32.0		XOMT11T306 SPMT11T308	M3.5x8	T15	
505332	33.0-XP32-XO11	104	60	194	33.0					
505333	34.0-XP32-XO11	107	60	197	34.0					
505334	35.0-XP32-XO11	110	60	200	35.0					
505335	ZD03- 36.0-XP40-XO13	113	70	218	36.0		XOMT130406 SPMT130410	M4.0x10	T15	
505336	37.0-XP40-XO13	116	70	221	37.0					
505337	38.0-XP40-XO13	119	70	224	38.0					
505338	39.0-XP40-XO13	122	70	227	39.0					
505339	40.0-XP40-XO13	125	70	230	40.0					
505340	41.0-XP40-XO13	128	70	233	41.0					
505341	42.0-XP40-XO13	131	70	236	42.0					
505342	43.0-XP40-XO15	134	70	239	43.0		XOMT15M508 SPMT15M510	M5.0x12	T20	
505343	44.0-XP40-XO15	137	70	242	44.0					
505344	45.0-XP40-XO15	140	70	245	45.0					
505345	46.0-XP40-XO15	143	70	248	46.0					
505346	47.0-XP40-XO15	146	70	251	47.0					
505347	48.0-XP40-XO15	149	70	254	48.0	40				
505348	49.0-XP40-XO15	152	70	257	49.0					
505349	50.0-XP40-XO15	155	70	260	50.0					
505350	51.0-XP40-XO18	158	70	263	51.0		XOMT180508 SPMT180510	M5.0x12	T20	
505351	52.0-XP40-XO18	161	70	266	52.0					
505352	53.0-XP40-XO18	164	70	269	53.0					
505353	54.0-XP40-XO18	167	70	272	54.0					
505354	55.0-XP40-XO18	170	70	275	55.0					
505355	56.0-XP40-XO18	173	70	278	56.0					
505356	57.0-XP40-XO18	176	70	281	57.0					
505357	58.0-XP40-XO18	179	70	284	58.0					
505358	59.0-XP40-XO18	182	70	287	59.0					
505359	60.0-XP40-XO18	185	70	290	60.0					

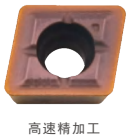
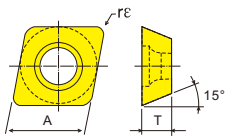
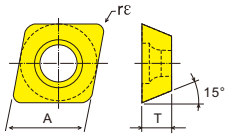
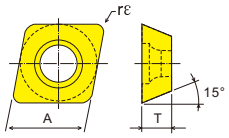
4倍快速钻头-XO刀片 L1=4xD Fast Drill - XO Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	单价 Price
505360	ZD04- 13.0-XP20-XO04	55	50	125	13.0		XOMT040204 SPMT040204	M2.0x4	T6	
505361	13.5-XP20-XO04	57	50	127	13.5					
505362	14.0-XP20-XO04	59	50	129	14.0					
505363	14.5-XP20-XO04	61	50	131	14.5	20				
505364	15.0-XP20-XO05	63	50	133	15.0		XOMT050204 SPMT050204	M2.0x4	T6	
505365	15.5-XP20-XO05	65	50	135	15.5					
505366	16.0-XP20-XO05	67	50	137	16.0					
505367	ZD04- 16.5-XP25-XO06	69	56	150	16.5		XOMT060204 SPMT060205	M2.2x5	T6	
505368	17.0-XP25-XO06	71	56	152	17.0					
505369	17.5-XP25-XO06	73	56	154	17.5					
505370	18.0-XP25-XO06	75	56	156	18.0					
505371	18.5-XP25-XO06	77	56	158	18.5					
505372	19.0-XP25-XO06	79	56	160	19.0					
505373	19.5-XP25-XO06	81	56	162	19.5	25				
505374	20.0-XP25-XO06	83	56	164	20.0					
505375	20.5-XP25-XO06	85	56	166	20.5					
505376	21.0-XP25-XO07	87	56	168	21.0		XOMT07T205 SPMT07T208	M2.5x5	T8	
505377	21.5-XP25-XO07	89	56	170	21.5					
505378	22.0-XP25-XO07	91	56	172	22.0					
505379	22.5-XP25-XO07	93	56	174	22.5					
505380	23.0-XP25-XO07	95	56	176	23.0					
505381	23.5-XP25-XO07	97	56	178	23.5					
505382	ZD04- 24.0-XP32-XO09	99	60	189	24.0		XOMT090305 SPMT090308	M3.0x7	T8	
505383	24.5-XP32-XO09	101	60	191	24.5					
505384	25.0-XP32-XO09	103	60	193	25.0					
505385	25.5-XP32-XO09	105	60	195	25.5					
505386	26.0-XP32-XO09	107	60	197	26.0					
505387	26.5-XP32-XO09	109	60	199	26.5					
505388	27.0-XP32-XO09	111	60	201	27.0					
505389	27.5-XP32-XO09	113	60	203	27.5					
505390	28.0-XP32-XO09	115	60	205	28.0					
505391	28.5-XP32-XO09	117	60	207	28.5	32				
505392	29.0-XP32-XO09	119	60	209	29.0					
505393	29.5-XP32-XO09	121	60	211	29.5					
505394	30.0-XP32-XO09	125	60	215	30.0					
505395	31.0-XP32-XO09	129	60	219	31.0					
505396	32.0-XP32-XO11	133	60	223	32.0		XOMT11T306 SPMT11T308	M3.5x8	T15	
505397	33.0-XP32-XO11	137	60	227	33.0					
505398	34.0-XP32-XO11	141	60	231	34.0					
505399	35.0-XP32-XO11	145	60	235	35.0					
505410	ZD04- 36.0-XP40-XO13	149	70	254	36.0		XOMT130406 SPMT130410	M4.0x10	T15	
505411	37.0-XP40-XO13	153	70	258	37.0					
505412	38.0-XP40-XO13	157	70	262	38.0					
505413	39.0-XP40-XO13	161	70	266	39.0					
505414	40.0-XP40-XO13	165	70	270	40.0					
505415	41.0-XP40-XO13	169	70	274	41.0					
505416	42.0-XP40-XO13	173	70	278	42.0					
505417	43.0-XP40-XO15	177	70	282	43.0		XOMT15M508 SPMT15M510	M5.0x12	T20	
505418	44.0-XP40-XO15	181	70	286	44.0					
505419	45.0-XP40-XO15	185	70	290	45.0					
505420	46.0-XP40-XO15	189	70	294	46.0					
505421	47.0-XP40-XO15	193	70	298	47.0					
505422	48.0-XP40-XO15	197	70	302	48.0	40				
505423	49.0-XP40-XO15	201	70	306	49.0					
505424	50.0-XP40-XO15	205	70	310	50.0					
505425	51.0-XP40-XO18	209	70	314	51.0		XOMT180508 SPMT180510	M5.0x12	T20	
505426	52.0-XP40-XO18	213	70	318	52.0					
505427	53.0-XP40-XO18	217	70	322	53.0					
505428	54.0-XP40-XO18	221	70	326	54.0					
505429	55.0-XP40-XO18	225	70	330	55.0					
505430	56.0-XP40-XO18	229	70	334	56.0					
505431	57.0-XP40-XO18	233	70	338	57.0					
505432	58.0-XP40-XO18	237	70	342	58.0					
505433	59.0-XP40-XO18	241	70	346	59.0					
505434	60.0-XP40-XO18	245	70	350	60.0					

WDXT 平底孔 有孔 钻孔加工

切削形态: Cutting Environment　● 稳定切削 Stable Cutting　◕ 一般切削 General Cutting　✕ 不稳定切削 Unstable Cutting

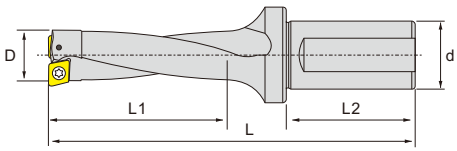
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC22S	ZP201	ZP151	ZP152	ZP153	ZP163
钻孔刀片 Drilling Inserts	 高速精加工 Drilling Inserts		WDXT 042004-L 052504-L 063006-L 073506-L 094008-L 125012-L 156012-L 186012-L	0.4 0.4 0.6 0.6 0.8 1.2 1.2 1.2	4.2 5.0 6.0 7.5 9.6 12.4 15.2 18.0	2.0 2.5 3.0 3.5 4.0 5.0 6.0 8.0	☞ 刀柄 : (Toolholder) K13-K14							●	●	●	●	●
钻孔刀片 Drilling Inserts	 中切削加工 Drilling Inserts		WDXT 042004-G 052504-G 063006-G 073506-G 094008-G 125012-G 156012-G 186012-G	0.4 0.4 0.6 0.6 0.8 1.2 1.2 1.2	4.2 5.0 6.0 7.5 9.6 12.4 15.2 18.0	2.0 2.5 3.0 3.5 4.0 5.0 6.0 8.0	☞ 刀柄 : (Toolholder) K13-K14							●	●	●	●	●
钻孔刀片 Drilling Inserts	 重粗加工 Drilling Inserts		WDXT 042004-H 052504-H 063006-H 073506-H 094008-H 125012-H 156012-H 186012-H	0.4 0.4 0.6 0.6 0.8 1.2 1.2 1.2	4.2 5.0 6.0 7.5 9.6 12.4 15.2 18.0	2.0 2.5 3.0 3.5 4.0 5.0 6.0 8.0	☞ 刀柄 : (Toolholder) K13-K14							●	●	●	●	●



WD舍弃式快速钻头

WD Type Fast Drilling Bit



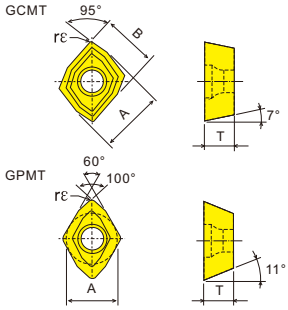
切削参数 (Cutting Parameters)：K33

Model No	Insert 刀片	parts	d	D	D×2倍			D×3倍			D×4倍			D×5倍		
					型号	L1	Price	型号	L1	Price	型号	L1	Price	型号	L1	Price
WDX 130				13.0	D2S20	29	4066	D3S20	42.0	4275	D4S20	55	4920	D5S20	68.0	5352
WDX 135				13.5	D2S20	30	4066	D3S20	43.5	4275	D4S20	57	4920	D5S20	70.5	5352
WDX 140	WDXT 042004	M1.6x4 T6		14.0	D2S20	31	4066	D3S20	45.0	4275	D4S20	59	4920	D5S20	73.0	5352
WDX 145				14.5	D2S20	32	4066	D3S20	46.5	4275	D4S20	61	4920	D5S20	75.5	5352
WDX 150			20	15.0	D2S20	33	4066	D3S20	48.0	4275	D4S20	63	4920	D5S20	78.0	5352
WDX 155				15.5	D2S20	34	4160	D3S20	49.5	4379	D4S20	65	5039	D5S20	80.5	5471
WDX 160				16.0	D2S20	35	4160	D3S20	51.0	4379	D4S20	67	5039	D5S20	83.0	5471
WDX 165	WDXT 052504	M2.0x4 T6		16.5	D2S20	36	4160	D3S20	52.5	4379	D4S20	69	5039	D5S20	85.5	5471
WDX 170				17.0	D2S20	37	4160	D3S20	54.0	4379	D4S20	71	5039	D5S20	88.0	5471
WDX 175				17.5	D2S25	38	4361	D3S25	55.5	4588	D4S25	73	5278	D5S25	90.5	5736
WDX 180				18.0	D2S25	39	4361	D3S25	57.0	4588	D4S25	75	5278	D5S25	93.0	5736
WDX 185				18.5	D2S25	40	4461	D3S25	58.5	4689	D4S25	77	5397	D5S25	95.5	5867
WDX 190				19.0	D2S25	41	4461	D3S25	60.0	4689	D4S25	79	5397	D5S25	98.0	5867
WDX 195				19.5	D2S25	42	4461	D3S25	61.5	4689	D4S25	81	5397	D5S25	100.5	5867
WDX 200	WDXT 063006	M2.2x6 T7		20.0	D2S25	43	4461	D3S25	63.0	4689	D4S25	83	5397	D5S25	103.0	5867
WDX 205				20.5	D2S25	44	4461	D3S25	64.5	4689	D4S25	85	5397	D5S25	105.5	5867
WDX 210			25	21.0	D2S25	45	4461	D3S25	66.0	4689	D4S25	87	5397	D5S25	108.0	5867
WDX 215				21.5	D2S25	46	4461	D3S25	67.5	4689	D4S25	89	5397	D5S25	110.5	5867
WDX 220				22.0	D2S25	47	4461	D3S25	69.0	4689	D4S25	91	5397	D5S25	113.0	5867
WDX 225				22.5	D2S25	48	4461	D3S25	70.5	4689	D4S25	93	5397	D5S25	115.5	5867
WDX 230				23.0	D2S25	49	4558	D3S25	72.0	4797	D4S25	95	5512	D5S25	118.0	5993
WDX 235				23.5	D2S25	50	4558	D3S25	73.5	4797	D4S25	97	5512	D5S25	120.5	5993
WDX 240				24.0	D2S25	51	4558	D3S25	75.0	4797	D4S25	99	5512	D5S25	123.0	5993
WDX 245				24.5	D2S25	52	4558	D3S25	76.5	4797	D4S25	101	5512	D5S25	125.5	5993
WDX 250				25.0	D2S25	53	4558	D3S25	78.0	4797	D4S25	103	5512	D5S25	128.0	5993
WDX 255	WDXT 073506	M2.5x6 T8		25.5	D2S32	54	4752	D3S32	79.5	5002	D4S32	105	5755	D5S32	-	-
WDX 260				26.0	D2S32	55	4752	D3S32	81.0	5002	D4S32	107	5755	D5S32	133	6254
WDX 265				26.5	D2S32	56	4752	D3S32	82.5	5002	D4S32	109	5755	D5S32	-	-
WDX 270				27.0	D2S32	57	4752	D3S32	84.0	5002	D4S32	111	5755	D5S32	138	6254
WDX 275				27.5	D2S32	58	4752	D3S32	85.5	5002	D4S32	113	5755	D5S32	-	-
WDX 280				28.0	D2S32	59	4752	D3S32	87.0	5002	D4S32	115	5755	D5S32	143	6254
WDX 285			32	28.5	D2S32	60	4752	D3S32	88.5	5002	D4S32	117	5755	D5S32	-	-
WDX 290				29.0	D2S32	62	4752	D3S32	91.0	5002	D4S32	120	5755	D5S32	149	6254
WDX 295				29.5	D2S32	63	4752	D3S32	92.5	5002	D4S32	122	5755	D5S32	-	-
WDX 300				30.0	D2S32	64	-	D3S32	94.0	-	D4S32	124	6400	D5S32	154	6776
WDX 310				31.0	D2S32	66	-	D3S32	97.0	-	D4S32	128	6250	D5S32	159	6776
WDX 320				32.0	D2S32	68	-	D3S32	100	-	D4S32	132	6400	D5S32	164	6776
WDX 300	WDXT 094008	M3.5x8 T15		30.0	D2S40	64	5147	D3S40	94.0	5423	D4S40	124	6250	D5S40	154	6776
WDX 310				31.0	D2S40	66	5147	D3S40	97.0	5423	D4S40	128	6400	D5S40	159	6776
WDX 320				32.0	D2S40	68	5147	D3S40	100	5423	D4S40	132	6250	D5S40	164	6776
WDX 330				33.0	D2S40	70	5147	D3S40	103	5423	D4S40	136	6250	D5S40	169	6776
WDX 340				34.0	D2S40	72	5147	D3S40	106	5423	D4S40	140	6250	D5S40	174	6776
WDX 350				35.0	D2S40	74	5147	D3S40	109	5423	D4S40	144	6250	D5S40	179	6776
WDX 360				36.0	D2S40	76	5147	D3S40	112	5423	D4S40	148	6250	D5S40	184	6776
WDX 370				37.0	D2S40	79	5941	D3S40	116	6254	D4S40	153	7190	D5S40	190	
WDX 380				38.0	D2S40	81	5941	D3S40	119	6254	D4S40	157	7190	D5S40	195	
WDX 390				39.0	D2S40	83	5941	D3S40	122	6254	D4S40	161	7190	D5S40	200	
WDX 400	WDXT 125012	M5.0x12 T15		40.0	D2S40	85	5941	D3S40	125	6254	D4S40	165	7190	D5S40	205	
WDX 410				41.0	D2S40	87	5941	D3S40	128	6254	D4S40	169	7190	D5S40	210	
WDX 420				42.0	D2S40	89	5941	D3S40	131	6254	D4S40	173	7190	D5S40	215	
WDX 430				43.0	D2S40	91	5941	D3S40	134	6254	D4S40	177	7190	D5S40	220	
WDX 440				44.0	D2S40	93	5941	D3S40	137	6254	D4S40	181	7190	D5S40	225	
WDX 450				45.0	D2S40	95	5941	D3S40	140	6254	D4S40	185	7190	D5S40	230	
WDX 460				46.0	D2S40	97	6444	D3S40	143	6776	D4S40	189	7797	D5S40	235	
WDX 470				47.0	D2S40	99	6444	D3S40	146	6776	D4S40	193	7797	D5S40	240	
WDX 480				48.0	D2S40	101	6444	D3S40	149	6776	D4S40	197	7797	D5S40	245	
WDX 490				49.0	D2S40	103	6444	D3S40	152	6776	D4S40	201	7797	D5S40	250	
WDX 500	WDXT 156012	M6.0x15 T15	40	50.0	D2S40	105	6444	D3S40	155	6776	D4S40	205	7797	D5S40	255	
WDX 510				51.0	D2S40	107	6765	D3S40	158	7115	D4S40	209	8192	D5S40	260	
WDX 520				52.0	D2S40	109	6765	D3S40	161	7115	D4S40	213	8192	D5S40	265	
WDX 530				53.0	D2S40	111	6765	D3S40	164	7115	D4S40	217	8192	D5S40	270	
WDX 540				54.0	D2S40	113	6765	D3S40	167	7115	D4S40	221	8192	D5S40	275	
WDX 550				55.0	D2S40	115	6765	D3S40	170	7115	D4S40	225	8192	D5S40	280	
WDX 560				56.0	D2S40	120	7611	D3S40	176	8442	D4S40	232	9642	D5S40		
WDX 570				57.0	D2S40	122	7611	D3S40	179	8442	D4S40	236	9642	D5S40		
WDX 580				58.0	D2S40	124	7611	D3S40	182	8442	D4S40	240	9642	D5S40		
WDX 590				59.0	D2S40	126	7611	D3S40	185	8442	D4S40	244	9642	D5S40		
WDX 600	WDXT 186012	M6.0x15 T15		60.0	D2S40	128	7611	D3S40	188	8442	D4S40	248	9642	D5S40		
WDX 610				61.0	D2S40	130	7924	D3S40	191	8807	D4S40	252	10112	D5S40		
WDX 620				62.0	D2S40	132	7924	D3S40	194	8807	D4S40	256	10112	D5S40		
WDX 630				63.0	D2S40	134	7924	D3S40	197	8807	D4S40	260	10112	D5S40		
WDX 640				64.0	D2S40	136	7924	D3S40	200	8807	D4S40			D5S40		
WDX 650				65.0	D2S40	138	7924	D3S40	203	8807	D4S40			D5S40		

GCMT GPMT 锋利耐磨 有孔 钻孔加工

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

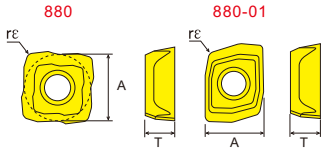
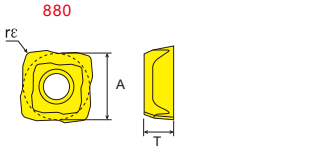
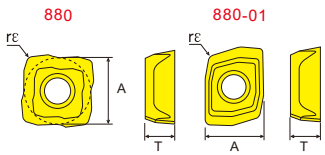
P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
钻孔刀片 Drilling Inserts			GCMT 040204-U2	0.4	5.0	4.7	2.38	☞ 刀柄: (Toolholder) K16							●	●			
			GPMT 060204-U2	0.4	5.56	-	2.38								●	●			
			070204-U2	0.4	6.35	-	2.38								●	●			
			090304-U2	0.4	7.94	-	3.18								●	●			
			11T308-U2	0.8	9.525	-	3.97								●	●			
			140408-U2	0.8	12.7	-	4.76								●	●			

880 四角高效 单面有孔 钻孔刀片

切削形态: Cutting Environment ● 稳定切削 Stable Cutting ◕ 一般切削 General Cutting ✕ 不稳定切削 Unstable Cutting

P	钢	Steel
M	不锈钢	Stainless Steel
K	铸铁	Iron
N	铝/铜/镁/锌/塑料/木材	Aluminum/Copper/Magnesium/Zinc/Plastic/Wood
S	硬质合金/粉末冶金	Carbide/Powder Metallurgy
H	钛/高温合金/碳纤维	Titanium/Superalloy/Carbon Fiber

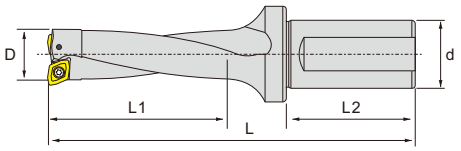
用途 Application	产品图片 Product Image	几何尺寸 Dimensioning	规格型号 Specification	尺寸 Dimension (mm) rε	A	B	T	L	a	配套刀柄 Matching Toolholder	PCD	CBN-K	CBN-S	ZN60	ZK01	ZC32S	ZP201	ZP150	ZP152	ZP153	ZP163
钻孔加工 Drilling Processing			880- 010203H-C-LM	0.3	4.80	-	2.2	-	-	☞ 刀柄: (Toolholder) K15								●	●		
			020204H-C-LM	0.4	4.90	-	2.4	-	-									●	●		
			030305H-C-LM	0.5	5.70	-	2.6	-	-									●	●		
			040305H-C-LM	0.5	6.80	-	2.8	-	-									●	●		
			050305H-C-LM	0.5	8.40	-	3.0	-	-									●	●		
			060406H-C-LM	0.6	10.20	-	3.5	-	-									●	●		
			070406H-C-LM	0.6	12.35	-	4.0	-	-									●	●		
			080508H-C-LM	0.8	14.85	-	4.5	-	-									●	●		
			090608H-C-LM	0.8	17.90	-	5.5	-	-									●	●		
钻孔加工 Drilling Processing			880- 020204H-C-GM	0.4	4.90	-	2.4	-	-	☞ 刀柄: (Toolholder) K15								●	●		
			030305H-C-GM	0.5	5.70	-	2.6	-	-									●	●		
			040305H-C-GM	0.5	6.80	-	2.8	-	-									●	●		
			050305H-C-GM	0.5	8.40	-	3.0	-	-									●	●		
			060406H-C-GM	0.6	10.20	-	3.5	-	-									●	●		
			070406H-C-GM	0.6	12.35	-	4.0	-	-									●	●		
			080508H-C-GM	0.8	14.85	-	4.5	-	-									●	●		
			090608H-C-GM	0.8	17.90	-	5.5	-	-									●	●		
钻孔加工 Drilling Processing	 高进给 Deep-feed		880- 010203H-C-GR	0.3	4.80	-	2.2	-	-	☞ 刀柄: (Toolholder) K15								●	●		
			020204H-C-GR	0.4	4.90	-	2.4	-	-									●	●		
			030305H-C-GR	0.5	5.70	-	2.6	-	-									●	●		
			040305H-C-GR	0.5	6.80	-	2.8	-	-									●	●		
			050305H-C-GR	0.5	8.40	-	3.0	-	-									●	●		
			060406H-C-GR	0.6	10.20	-	3.5	-	-									●	●		
			070406H-C-GR	0.6	12.35	-	4.0	-	-									●	●		
			080508H-C-GR	0.8	14.85	-	4.5	-	-									●	●		
			090608H-C-GR	0.8	17.90	-	5.5	-	-									●	●		

880系列快速钻头库存请询客服！
880 series quick drill stock please contact customer service!

TAF舍弃式快速钻头

TAF Discard Quick Drill





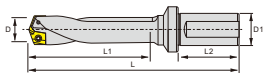
切削参数 (Cutting Parameters): K33

Model No	Insert 刀片	parts	(d) 接口	D1	D×2倍				D×3倍				D×4倍			
					Order	型号	L1	Price	Order	型号	L1	Price	Order	型号	L1	Price
TAF	GCMT 040204-U..	M2.0x4 T6	(20) PT 1/8	12.0	556100	S1200F20	29	1100	556300	M1200F20	41	1320	556500	L1200F20	55	1584
TAF				12.5	556102	S1250F20	29	1100	556302	M1250F20	41	1320	556502	L1250F20	55	1584
TAF				13.0	556104	S1300F20	31	1100	556304	M1300F20	44	1320	556504	L1300F20	60	1584
TAF				13.5	556106	S1350F20	31	1100	556306	M1350F20	44	1320	556506	L1350F20	60	1584
TAF				14.0	556108	S1400F20	33	1100	556308	M1400F20	47	1320	556508	L1400F20	60	1584
TAF				14.5	556110	S1450F20	33	1100	556310	M1450F20	47	1320	556510	L1450F20	60	1584
TAF	GPMT 060204-U..			15.0	556112	S1500F20	35	900	556312	M1500F20	50	1080	556512	L1500F20	70	1296
TAF				15.5	556114	S1550F20	35	900	556314	M1550F20	50	1080	556514	L1550F20	70	1296
TAF			(25) PT 1/8	16.0	556116	S1600F25	38	900	556316	M1600F25	54	1080	556516	L1600F25	75	1296
TAF				16.5	556118	S1650F25	38	900	556318	M1650F25	54	1080	556518	L1650F25	75	1296
TAF				17.0	556120	S1700F25	41	900	556320	M1700F25	58	1080	556520	L1700F25	75	1296
TAF				17.5	556122	S1750F25	41	900	556322	M1750F25	58	1080	556522	L1750F25	75	1296
TAF	GPMT 070204-U..	M2.5x6 T8		18.0	556124	S1800F25	43	900	556324	M1800F25	61	1080	556524	L1800F25	79	1296
TAF				18.5	556126	S1850F25	43	900	556326	M1850F25	61	1080	556526	L1850F25	79	1296
TAF				19.0	556128	S1900F25	46	900	556328	M1900F25	65	1080	556528	L1900F25	84	1296
TAF				19.5	556130	S1950F25	46	900	556330	M1950F25	65	1080	556530	L1950F25	84	1296
TAF				20.0	556132	S2000F25	48	900	556332	M2000F25	68	1080	556532	L2000F25	88	1296
TAF				20.5	556134	S2050F25	48	1000	556334	M2050F25	68	1200	556534	L2050F25	88	1440
TAF				21.0	556136	S2100F25	50	1000	556336	M2100F25	71	1200	556536	L2100F25	92	1440
TAF				21.5	556138	S2150F25	50	1000	556338	M2150F25	71	1200	556538	L2150F25	92	1440
TAF				22.0	556140	S2200F25	53	1000	556340	M2200F25	75	1200	556540	L2200F25	97	1440
TAF				22.5	556142	S2250F25	53	1000	556342	M2250F25	75	1200	556542	L2250F25	97	1440
TAF	GPMT 090304-U..	M3.0x8 T8		23.0	556144	S2300F25	55	1000	556344	M2300F25	78	1200	556544	L2300F25	101	1440
TAF				23.5	556146	S2350F25	55	1000	556346	M2350F25	78	1200	556546	L2350F25	101	1440
TAF				24.0	556148	S2400F25	58	1000	556348	M2400F25	82	1200	556548	L2400F25	106	1440
TAF				24.5	556150	S2450F25	58	1000	556350	M2450F25	82	1200	556550	L2450F25	106	1440
TAF			(32) PT 1/8	25.0	556152	S2500F32	60	1000	556352	M2500F32	85	1200	556552	L2500F32	110	1440
TAF				25.5	556154	S2550F32	60	1000	556354	M2550F32	85	1200	556554	L2550F32	110	1440
TAF				26.0	556156	S2600F32	62	1200	556356	M2600F32	88	1440	556556	L2600F32	114	1728
TAF				26.5	556158	S2650F32	62	1200	556358	M2650F32	88	1440	556558	L2650F32	114	1728
TAF				27.0	556160	S2700F32	65	1200	556360	M2700F32	92	1440	556560	L2700F32	119	1728
TAF				27.5	556162	S2750F32	65	1200	556362	M2750F32	92	1440	556562	L2750F32	119	1728
TAF	GPMT 11T308-U..	M4.0x9 T15		28.0	556164	S2800F32	67	1200	556364	M2800F32	95	1440	556564	L2800F32	123	1728
TAF				28.5	556166	S2850F32	67	1200	556366	M2850F32	95	1440	556566	L2850F32	123	1728
TAF				29.0	556168	S2900F32	70	1200	556368	M2900F32	99	1440	556568	L2900F32	128	1728
TAF				29.5	556170	S2950F32	70	1200	556370	M2950F32	99	1440	556570	L2950F32	128	1728
TAF			(40) PT 1/4	30.0	556172	S3000F40	82	1200	556372	M3000F40	102	1440	556572	L3000F40	132	1728
TAF				31.0	556174	S3100F40	74	1300	556374	M3100F40	105	1560	556574	L3100F40	136	1872
TAF				32.0	556176	S3200F40	77	1300	556376	M3200F40	109	1560	556576	L3200F40	141	1872
TAF				33.0	556178	S3300F40	79	1300	556378	M3300F40	112	1560	556578	L3300F40	145	1872
TAF				34.0	556180	S3400F40	82	1300	556380	M3400F40	116	1560	556580	L3400F40	150	1872
TAF	GPMT 140408-U..	M5.5x12 T20		35.0	556182	S3500F40	84	1300	556382	M3500F40	119	1560	556582	L3500F40	150	1872
TAF				36.0	556184	S3600F40	86	1500	556384	M3600F40	122	1800	556584	L3600F40	154	2160
TAF				37.0	556186	S3700F40	89	1500	556386	M3700F40	126	1800	556586	L3700F40	158	2160
TAF				38.0	556188	S3800F40	91	1500	556388	M3800F40	129	1800	556588	L3800F40	162	2160
TAF				39.0	556190	S3900F40	94	1500	556390	M3900F40	133	1800	556590	L3900F40	166	2160
TAF				40.0	556192	S4000F40	96	1500	556392	M4000F40	136	1800	556592	L4000F40	170	2160
TAF				41.0	556194	S4100F40	98	1800	556394	M4100F40	139	2160	556594	L4100F40	174	2592
TAF				42.0	556196	S4200F40	101	1800	556396	M4200F40	143	2160	556596	L4200F40	178	2592
TAF				43.0	556198	S4300F40	103	1800	556398	M4300F40	146	2160	556598	L4300F40	182	2592
TAF				44.0	556200	S4400F40	106	1800	556400	M4400F40	150	2160	556600	L4400F40	186	2592
TAF				45.0	556202	S4500F40	108	1800	556402	M4500F40	153	2160	556602	L4500F40	190	2592
TAF				46.0	556204	S4600F40	110	2000	556404	M4600F40	156	2400	556604	L4600F40	194	2880
TAF				47.0	556206	S4700F40	113	2000	556406	M4700F40	160	2400	556606	L4700F40	198	2880
TAF				48.0	556208	S4800F40	115	2000	556408	M4800F40	163	2400	556608	L4800F40	202	2880
TAF	GPMT 090304-U..	M3.0x8 T8		49.0	556210	S4900F40	118	2000	556410	M4900F40	167	2400	556610	L4900F40	206	2880
TAF				50.0	556212	S5000F40	120	2000	556412	M5000F40	170	2400	556612	L5000F40	210	2880
TAF				51.0	556214	S5100F40	122	2500	556414	M5100F40	173	3000	556614	L5100F40	214	3600
TAF				52.0	556216	S5200F40	125	2500	556416	M5200F40	177	3000	556616	L5200F40	218	3600
TAF				53.0	556218	S5300F40	127	2500	556418	M5300F40	180	3000	556618	L5300F40	222	3600
TAF				54.0	556220	S5400F40	128	2500	556420	M5400F40	182	3000	556620	L5400F40	226	3600
TAF				55.0	556222	S5500F40	130	3000	556422	M5500F40	185	3600	556622	L5500F40	230	4320
TAF				56.0	556224	S5600F40	132	3000	556424	M5600F40	188	3600	556624	L5600F40	234	4320

硬质合金铲钻刀杆

3D直槽侧固柄　3D Straight Groove Side Fixing Carbide Toolholder

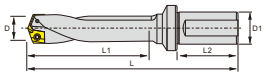




Order	型号 Model	L	L1	L2	D	D1	螺丝 screw	扳手Wrench	Price
500100	SDT03-11.0-11.9-H-XP20	112	36	48	11.0-11.9	20	M1.8*4.5	T6	
500102	SDT03-12.0-12.9-H-XP20	116	39	48	12.0-12.9	20	M2*5	T6	
500104	SDT03-13.0-13.9-H-XP20	118	42	48	13.0-13.9	20	M2*5	T6	
500106	SDT03-14.0-14.9-H-XP20	122	45	48	14.0-14.9	20	M2*5	T6	
500108	SDT03-15.0-15.9-H-XP20	126	48	48	15.0-15.9	20	M2*5	T6	
500110	SDT03-16.0-16.9-H-XP20	130	51	48	16.0-16.9	20	M2.5*6	T8	
500112	SDT03-17.0-17.9-H-XP20	134	54	48	17.0-17.9	20	M2.5*7	T8	
500114	SDT03-18.0-19.9-H-XP25	150	57	56	18.0-19.9	25	M3*7.5	T10	
500116	SDT03-20.0-21.9-H-XP25	156	66	56	20.0-21.9	25	M3*7.5	T10	
500118	SDT03-22.0-23.9-H-XP25	162	72	56	22.0-23.9	25	M3*9	T10	
500120	SDT03-24.0-25.9-H-XP25	168	78	56	24.0-25.9	25	M3*9	T10	
500122	SDT03-26.0-28.9-H-XP32	186	87	60	26.0-28.9	32	M4*10	T15	
500124	SDT03-29.0-31.9-H-XP32	195	96	60	29.0-31.9	32	M4*10	T15	
500126	SDT03-32.0-35.0-H-XP32	205	105	60	32.0-35.0	32	M4*10	T15	

5D直槽侧固柄　5D Straight Groove Side Fixing Carbide Toolholder

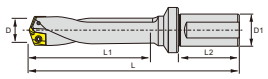




Order	型号 Model	L	L1	L2	D	D1	螺丝 screw	扳手Wrench	Price
500200	SDT05-11.0-11.9-H-XP20	136	60	48	11.0-11.9	20	M1.8*4.5	T6	
500202	SDT05-12.0-12.9-H-XP20	142	65	48	12.0-12.9	20	M2*5	T6	
500204	SDT05-13.0-13.9-H-XP20	146	70	48	13.0-13.9	20	M2*5	T6	
500206	SDT05-14.0-14.9-H-XP20	152	75	48	14.0-14.9	20	M2*5	T6	
500208	SDT05-15.0-15.9-H-XP20	158	80	48	15.0-15.9	20	M2*5	T6	
500210	SDT05-16.0-16.9-H-XP20	164	85	48	16.0-16.9	20	M2.5*6	T8	
500212	SDT05-17.0-17.9-H-XP20	170	90	48	17.0-17.9	20	M2.5*7	T8	
500214	SDT05-19.0-19.9-H-XP25	190	100	56	18.0-19.9	25	M3*7.5	T10	
500216	SDT05-20.0-21.9-H-XP25	200	110	56	20.0-21.9	25	M3*7.5	T10	
500218	SDT05-22.0-23.9-H-XP25	210	120	56	22.0-23.9	25	M3*9	T10	
500220	SDT05-24.0-25.9-H-XP25	220	130	56	24.0-25.9	25	M3*9	T10	
500222	SDT05-26.0-28.9-H-XP32	245	145	60	26.0-28.9	32	M4*10	T15	
500224	SDT05-29.0-31.9-H-XP32	259	160	60	29.0-31.9	32	M4*10	T15	
500226	SDT05-32.0-35.0-H-XP32	275	175	60	32.0-35.0	32	M4*10	T15	

7D直槽侧固柄　7D Straight Groove Side Fixing Carbide Toolholder





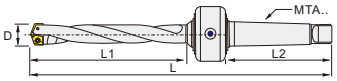
Order	型号 Model	L	L1	L2	D	D1	螺丝 screw	扳手Wrench	Price
500300	SDT07-11.0-11.9-H-XP20	160	84	48	11.0-11.9	20	M1.8*4.5	T6	
500302	SDT07-12.0-12.9-H-XP20	168	91	48	12.0-12.9	20	M2*5	T6	
500304	SDT07-13.0-13.9-H-XP20	174	98	48	13.0-13.9	20	M2*5	T6	
500306	SDT07-14.0-14.9-H-XP20	182	105	48	14.0-14.9	20	M2*5	T6	
500308	SDT07-15.0-15.9-H-XP20	190	112	48	15.0-15.9	20	M2*5	T6	
500310	SDT07-16.0-16.9-H-XP20	198	119	48	16.0-16.9	20	M2.5*6	T8	
500312	SDT07-17.0-17.9-H-XP20	206	126	48	17.0-17.9	20	M2.5*7	T8	
500314	SDT07-18.0-19.9-H-XP25	230	140	56	18.0-19.9	25	M3*7.5	TI0	
500316	SDT07-20.0-21.9-H-XP25	244	154	56	20.0-21.9	25	M3*7.5	TI0	
500318	SDT07-22.0-23.9-H-XP25	258	168	56	22.0-23.9	25	M3*9	TI0	
500320	SDT07-24.0-25.9-H-XP25	272	182	56	24.0-25.9	25	M3*9	TI0	
500322	SDT07-26.0-28.9-H-XP32	303	203	60	26.0-28.9	32	M4*10	T15	
500324	SDT07-29.0-31.9-H-XP32	323	224	60	29.0-31.9	32	M4*10	T15	
500326	SDT07-32.0-35.0-H-XP32	345	245	60	32.0-35.0	32	M4*10	T15	

铲钻使用小提示
一、铲钻是传统麻花钻的升级换代产品，可应用于数控设备及各种传统设备上，如立钻、摇臂钻等。
二、铲钻刀片分为硬质合金和高速钢两种材质，所安装的刀杆也是不同的．不能互换。
三、立钻、摇臂钻上推荐使用高速钢刀片。但不建议使用硬质合金刀片．机床转速低，刚性差，间隙大，容易造成硬质合金刀片蹦刃。
四、所有铲钻刀杆均有中心出水孔，推荐尽量使用高压高流量内冷却液，这样会大大地延长刀片的使用寿命，也更加有利于排屑。
五、所有刀片均为断屑槽设计，出来的铁屑均为小碎屑。
六、铲钻刀片具有自定心功能，双刃对称均匀受力，所以适合打深孔。长径比在5倍以内的．优先选用浅孔钻（U钻），刀具成本比较省,超出5倍径的建议使用铲钻。
七、在冷却液压力够高，流量够大，排屑顺畅情况下，铲钻可以一打到底，不需要回退排屑。

高速钢铲钻刀杆

3D莫氏柄铲钻规格　3D Steel Morse Toolholder

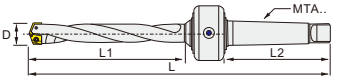




Order	型号 Model	L	L1	L2	D	D1	螺丝 screw	扳手Wrench	Price
501100	SDS03-09.5-11.0-MT2	181	36	80	9.5-11.0	MT2	M2*5	T6	7281
501102	SDS03-11.1-12.9-MT2	187	42	80	11.1-12.9	MT2	M2*5	T6	7281
501104	SDS03-13.0-15.0-MT2	193	48	80	13.0-15.0	MT2	M2.5*6	T8	7281
501106	SDS03-15.1-17.5-MT2	200	55	80	15.1-17.5	MT2	M2.5*6	T8	7500
501108	SDS03-17.6-19.5-MT3	226	61	99	17.6-19.5	MT3	M3*8	TI0	8250
501110	SDS03-19.6-21.5-MT3	232	67	99	19.6-21.5	MT3	M:3*8	TI0	8250
501112	SDS03-21.6-24.4-MT3	241	76	99	21.6-24.4	MT3	M3*8	T10	8250
501114	SDS03-24.5-26.5-MT4	284	82	124	24.5-26.5	MT4	M3.5*10	T15	9156
501116	SDS03-26.6-28.5-MT4	290	88	124	26.6-28.5	MT4	M3.5*10	T15	9156
501118	SDS03-28.6-30.5-MT4	296	94	124	28.6-30.5	MT4	M3.5*10	T15	9500
501120	SDS03-30.6-32.5-MT4	302	100	124	30.6-32.5	MT4	M3.5*10	T15	9500
501122	SDS03-32.6-34.9 MT4	309	107	124	32.6-34.9	MT4	M3.5*10	T15	9500
501124	SDS03-35.0-37.9-MT5	360	11	156	35.0-37.9	MT5	M3.5*10	T15	10594
501126	SDS03-38.0-40.9-MT5	369	125	156	38.0-40.9	MT5	M3.5*10	T15	10594
501128	SDS03-41.0-43.9-MT5	378	134	156	41.0-43.9	MT5	M3.5*10	T15	11000
501130	SDS03-44.0-47.9-MT5	390	146	156	44.0-47.9	MT5	M3.5*10	T15	11469
501132	SDS03-48.0-51.9-MT5	402	158	156	48.0-51.9	MT5	M5*15	T20	12031
501134	SDS03-52.0-55.9-MT5	414	170	156	52.0-55.9	MT5	M5*15	T20	12656
501136	SDS03-56.0-59.9-MT5	426	182	156	56.0-59.9	MT5	M 5*15	T20	13281
501138	SDS03-60.0-65.0-MT5	442	198	156	60.0-65.0	Mt5	M 5*15	T20	13875

5D莫氏柄铲钻规格　5D Steel Morse Toolholder

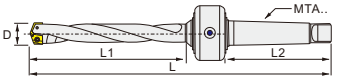




Order	型号 Model	L	L1	L2	D	D1	螺丝 screw	扳手Wrench	Price
501200	SDS05-09.5-11 0-MT2	203	58	80	9.5-11.0	MT2	M2*5	T6	8063
501202	SDS05-11.1-12.9-MT2	213	68	80	11.1-12.9	MT2	M2*5	T6	8063
501204	SDS05-13.0-15.0-MT2	223	78	80	13.0-15.0	MT2	M2.5*6	T8	8063
501206	SDS05-15.1-17.5-MT2	235	90	80	15.1-17.5	MT2	M2.5*6	T8	8313
501208	SDS05-17.6-19.5-MT3	265	100	99	17.6-19.5	MT3	M3*8	T10	9094
501210	SDS05-19.6-21.5-MT3	275	110	99	19.6-21.5	MT3	M3*8	T10	9094
501212	SDS05-21.6-24 4-MT3	290	125	99	21.6-24.4	MT3	M3*8	T10	9094
501214	SDS05-24.5-26.5-MT4	337	135	124	24.5-26.5	MT4	M3.5*10	T15	10031
501216	SDS05-26.6-28.5-MT4	347	145	124	26.6-28.5	MT4	M3.5*10	T15	10031
501218	SDS05-28.6-30.5-MT4	357	155	124	28.6-30.5	MT4	M3.5*10	T15	10438
501220	SDS05-30.6-32.5-MT4	367	165	124	30.6-32.5	MT4	M3.5*10	T15	10438
501222	SDS05-32.6-34.9-MT4	380	178	124	32.6-34.9	MT4	M3.5*10	T15	10438
501224	SDS05-35.0-37.9-MT5	436	192	156	35.0-37.9	MT5	M3.5*10	T15	11594
501226	SDS05-38.0-40.9-MT5	452	208	156	38.0-40.9	MT5	M3.5*10	T15	11594
501228	SDS05-41.0-43.9-MT5	566	222	156	41.0-43.9	MT5	M3.5*10	T15	12063
501230	SDS05-44.0-47.9-MT5	486	242	156	44.0-47.9	MT5	M3.5*10	T15	12625
501232	SDS05-48.0-51.9-MT5	506	262	156	48.0-51.9	MT5	M5*15	T20	13281
501234	SDS05-52.0-55.9-MT5	526	282	156	52.0-55.9	MT5	M5*15	T20	13969
501236	SDS05-56.0-59.9-MT5	546	302	156	56.0-59.9	MT5	M5*15	T20	14688
501238	SDS05 60.0-65.0 MT5	572	328	156	60.0-65.0	MT5	M5*15	T20	15406

7D莫氏柄铲钻规格　7D Steel Morse Toolholder





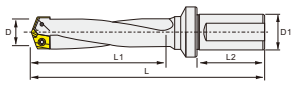
Order	型号 Model	L	L1	L2	D	D1	螺丝 screw	扳手Wrench	Price
501300	SDS07-09.5-11.0-MT2	225	80	80	9.5-11.0	MT2	M2*5	T6	9625
501302	SDS07-11.1-12.9-MT2	238	93	80	11.1-12.9	MT2	M2*5	T6	9625
501304	SDS07-13.0-15.0-MT2	253	108	80	13.0-15.0	MT2	M2.5*6	T8	9625
501306	SDS07-15.1-17.5-MT2	270	125	80	15.1-17.5	MT2	M2.5*6	T8	9906
501308	SDS07-17.6-19.5-MT3	304	139	99	17.6-19.5	MT3	M3*8	TI0	10750
501310	SDS07-19.6-21.5-MT3	318	153	99	19.6-21.5	MT3	M:3*8	TI0	10750
501312	SDS07-21.6-24.4-MT3	338	173	99	21.6-24.4	MT3	M3*8	T10	10750
501314	SDS07-24.5-26.5-MT4	390	188	124	24.5-26.5	MT4	M3.5*10	T15	11750
501316	SDS07-26.6-28.5-MT4	404	202	124	26.6-28.5	MT4	M3.5*10	T15	11750
501318	SDS07-28.6-30.5-MT4	418	216	124	28.6-30.5	MT4	M3.5*10	T15	12281
501320	SDS07-30.6-32.5-MT4	432	230	124	30.6-32.5	MT4	M3.5*10	T15	12281
501322	SDS07-32.6-34.9 MT4	449	247	124	32.6-34.9	MT4	M3.5*10	T15	12281
501324	SDS07-35.0-37.9-MT5	512	268	156	35.0-37.9	MT5	M3.5*10	T15	13500
501326	SDS07-38.0-40.9-MT5	533	289	156	38.0-40.9	MT5	M3.5*10	T15	13500
501328	SDS07-41.0-43.9-MT5	554	310	156	41.0-43.9	MT5	M3.5*10	T15	14094
501330	SDS07-44.0-47.9-MT5	582	338	156	44.0-47.9	MT5	M3.5*10	T15	14781
501332	SDS07-48.0-51.9-MT5	610	366	156	48.0-51.9	MT5	M5*15	T20	15594
501334	SDS07-52.0-55.9-MT5	638	394	156	52.0-55.9	MT5	M5*15	T20	16469
501336	SDS07-56.0-59.9-MT5	666	422	156	56.0-59.9	MT5	M 5*15	T20	17344
501338	SDS07-60.0-65.0-MT5	702	458	156	60.0-65.0	Mt5	M 5*15	T20	18250

Tips: Using of spade Drill
1.spade Drill. an upgraded replacement product of traditional twist Drill, can be applied to CNC and a variety of conventional equipment. such as vertical Drill. radial Drill etc
2.The material of spade Drill inserts include carbide and HSS, which are mounted on different holder and can not be interchanged.
3.Recmmandation of HSS inserts for vertical Drilland radial dr···, carbide inserts are likely to cause jump edge due to 1ow speed. poor rigidity and large gap.
4.All spade dr···holders have center water hole with reconmendation of higtrpressure and high-flow coolant.which w111 greatly e×tend insert life and accelerate chip evacuation.
5.All inserts and designed for chip breaker and the out of tho filing are small debris
6.spade dr···inserts with self-centering. double symmetric uniform stress are suitable for deep hole Drilling. The length to diameter ratio within 5*D.we suggest preferred shallow hole dr]|(u Drill) for saving tool costMore than 5*D we recommend spade Drill
7.under enough coolant pressure and flow.and smooth chip evacuation, spade Drill can be used for one shot Drilling.

高速钢铲钻刀杆

3D侧固柄铲钻规格　3D Steel Side Fixing Toolholder

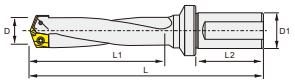




Order	型号 Model	L	L1	L2	D	D1	螺丝 screw	扳手Wrench	Price
502100	SDS03-09.5-11 0-P20	106	36	48	9.5-11.0	20	M2*5	T6	5375
502102	SDS03-11.1-12.9-P20	112	42	48	11.1-12.9	20	M2*5	T6	5375
502104	SDS03-13.0-15.0-P20	118	48	48	13.0-15.0	20	M2.5*6	T8	5375
502106	SDS03-15.1-17.5-P20	125	55	48	15.1-17.5	20	M2.5*6	T8	5563
502108	SDS03-17.6-19.5-P25	140	61	56	17.6-19.5	25	M3*8	T10	5781
502110	SDS03-19.6-21.5-P25	146	67	56	19.6-21.5	25	M3*8	T10	5781
502112	SDS03-21.6-24 4-P25	155	76	56	21.6-24.4	25	M3*8	T10	5781
502114	SDS03-24.5-26.5-P32	170	82	60	24.5-26.5	32	M3.5*10	T15	5969
502116	SDS03-26.6-28.5-P32	176	88	60	26.6-28.5	32	M3.5*10	T15	5969
502118	SDS03-28.6-30.5-P32	182	94	60	28.6-30.5	32	M3.5*10	T15	6313
502120	SDS03-30.6-32.5-P32	188	100	60	30.6-32.5	32	M3.5*10	T15	6313
502122	SDS03-32.6-34.9-P32	195	107	60	32.6-34.9	32	M3.5*10	T15	6313
502124	SDS03-35.0-37.9-P32	206	116	60	35.0-37.9	32	M3.5*10	T15	6656
502126	SDS03-38.0-40.9-P32	215	125	60	38.0-40.9	32	M3.5*10	T15	6656
502128	SDS03-41.0-43.9-P40	232	134	65	41.0-43.9	40	M3.5*10	T15	7094
502130	SDS03-44.0-47.9-P40	244	146	65	44.0-47.9	40	M3.5*10	T15	7563
502132	SDS03-48.0-51.9-P40	256	158	65	48.0-51.9	40	M5*15	T20	8125
502134	SDS03-52.0-55.9-P40	268	170	65	52.0-55.9	40	M5*15	T20	8719
502136	SDS03-56.0-59.9-P40	280	182	65	56.0-59.9	40	M5*15	T20	9344
502138	SDS03 60.0-65.0-P40	296	198	65	60.0-65.0	40	M5*15	T20	9969

5D 侧固柄铲钻规格　5D Steel Side Fixing Toolholder

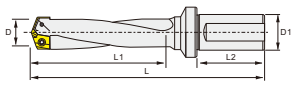




Order	型号 Model	L	L1	L2	D	D1	螺丝 screw	扳手Wrench	Price
502200	SDS05-09.5-11 0-P20	128	58	48	9.5-11.0	20	M2*5	T6	6156
502202	SDS05-11.1-12.9-P20	138	68	48	11.1-12.9	20	M2*5	T6	6156
502204	SDS05-13.0-15.0-P20	148	78	48	13.0-15.0	20	M2.5*6	T8	6156
502206	SDS05-15.1-17.5-P20	160	90	48	15.1-17.5	20	M2.5*6	T8	6406
502208	SDS05-17.6-19.5-P25	179	100	56	17.6-19.5	25	M3*8	T10	6625
502210	SDS05-19.6-21.5-P25	189	110	56	19.6-21.5	25	M3*8	T10	6625
502212	SDS05-21.6-24 4-P25	204	125	56	21.6-24.4	25	M3*8	T10	6625
502214	SDS05-24.5-26.5-P32	223	135	60	24.5-26.5	32	M3.5*10	T15	6875
502216	SDS05-26.6-28.5-P32	233	145	60	26.6-28.5	32	M3.5*10	T15	6875
502218	SDS05-28.6-30.5-P32	243	155	60	28.6-30.5	32	M3.5*10	T15	7281
502220	SDS05-30.6-32.5-P32	253	165	60	30.6-32.5	32	M3.5*10	T15	7281
502222	SDS05-32.6-34.9-P32	266	178	60	32.6-34.9	32	M3.5*10	T15	7281
502224	SDS05-35.0-37.9-P32	282	192	60	35.0-37.9	32	M3.5*10	T15	7656
502226	SDS05-38.0-40.9-P32	298	208	60	38.0-40.9	32	M3.5*10	T15	7656
502228	SDS05-41.0-43.9-P40	320	222	65	41.0-43.9	40	M3.5*10	T15	8156
502230	SDS05-44.0-47.9-P40	332	242	65	44.0-47.9	40	M3.5*10	T15	8688
502232	SDS05-48.0-51.9-P40	352	262	65	48.0-51.9	40	M5*15	T20	9344
502234	SDS05-52.0-55.9-P40	372	282	65	52.0-55.9	40	M5*15	T20	10031
502236	SDS05-56.0-59.9-P40	392	302	65	56.0-59.9	40	M5*15	T20	10750
502238	SDS05 60.0-65.0-P40	426	328	65	60.0-65.0	40	M5*15	T20	11469

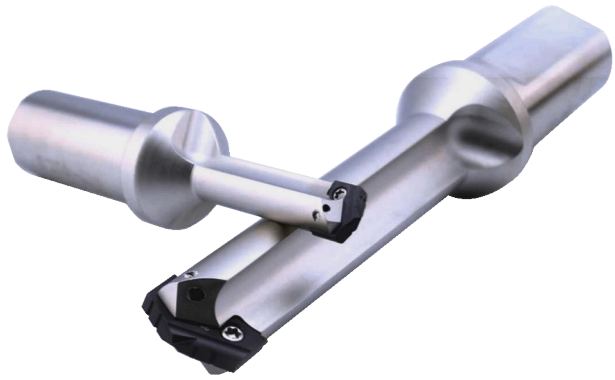
7D 侧固柄铲钻规格　7D Steel Side Fixing Toolholder





Order	型号 Model	L	L1	L2	D	D1	螺丝 screw	扳手Wrench	Price
502300	SDS07-09.5-11 0-P20	150	80	48	9.5-11.0	20	M2*5	T6	7688
502302	SDS07-11.1-12.9-P20	163	93	48	11.1-12.9	20	M2*5	T6	7688
502304	SDS07-13.0-15.0-P20	178	108	48	13.0-15.0	20	M2.5*6	T8	7688
502306	SDS07-15.1-17.5-P20	195	125	48	15.1-17.5	20	M2.5*6	T8	7969
502308	SDS07-17.6-19.5-P25	218	139	56	17.6-19.5	25	M3*8	T10	8281
502310	SDS07-19.6-21.5-P25	232	153	56	19.6-21.5	25	M3*8	T10	8281
502312	SDS07-21.6-24 4-P25	252	173	56	21.6-24.4	25	M3*8	T10	8281
502314	SDS07-24.5-26.5-P32	276	188	60	24.5-26.5	32	M3.5*10	T15	8594
502316	SDS07-26.6-28.5-P32	290	202	60	26.6-28.5	32	M3.5*10	T15	8594
502318	SDS07-28.6-30.5-P32	304	216	60	28.6-30.5	32	M3.5*10	T15	9094
502320	SDS07-30.6-32.5-P32	318	230	60	30.6-32.5	32	M3.5*10	T15	9094
502322	SDS07-32.6-34.9-P32	335	247	60	32.6-34.9	32	M3.5*10	T15	9094
502324	SDS07-35.0-37.9-P32	358	268	60	35.0-37.9	32	M3.5*10	T15	9594
502326	SDS07-38.0-40.9-P32	379	289	60	38.0-40.9	32	M3.5*10	T15	9594
502328	SDS07-41.0-43.9-P40	408	310	65	41.0-43.9	40	M3.5*10	T15	10188
502330	SDS07-44.0-47.9-P40	436	338	65	44.0-47.9	40	M3.5*10	T15	10875
502332	SDS07-48.0-51.9-P40	364	366	65	48.0-51.9	40	M5*15	T20	11688
502334	SDS07-52.0-55.9-P40	492	394	65	52.0-55.9	40	M5*15	T20	12531
502336	SDS07-56.0-59.9-P40	520	422	65	56.0-59.9	40	M5*15	T20	13438
502338	SDS07 60.0-65.0-P40	556	458	65	60.0-65.0	40	M5*15	T20	14344





铲钻刀片规格

CZDP..

硬质合金刀片规格 Carbide Insert



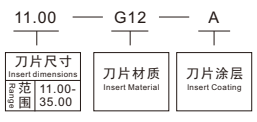
11.00-G12-A	11.50-G12-A	12.00-G12-A	12.50-G12-A	13.00-G12-A	13.50-G12-A	14.0-G12-A	14.50-G12-A	15.00-G12-A
15.50-G12-A	16.00-G12-A	16.50-G12-A	17.00-G12-A	17.50-G12-A	18.00-G12-A	18.5-A12-A	19.00-G12-A	19.50-G12-A
20.00-G12-A	20.50-G12-A	21.00-G12-A	21.50-G12-A	22.00-G12-A	22.50-G12-A	23.0-G12-A	23.50-G12-A	24.00-G12-A
24.50-G12-A	25.00-G12-A	25.50-G12-A	26.00-G12-A	26.50-G12-A	27.00-G12-A	27.5-G12-A	28.00-G12-A	28.50-G12-A
29.00-G12-A	29.50-G12-A	30.00-G12-A	30.50-G12-A	31.00-G12-A	31.50-G12-A	32.0-G12-A	32.50-G12-A	33.00-G12-A
33.50-G12-A	34.00-G12-A	34.50-G12-A	35.00-G12-A					

高速钢刀片规格 HSS Insert



9.00-M42-A	9.50-M42-A	10.00-M42-A	10.50-M42-A	11.50-M42-A	11.50-M42-A	12.00-M42-A	12.50-M42-A	13.00-M42-A
13.50-M42-A	14.00-M42-A	14.50-M42-A	15.00-M42-A	15.50-M42-A	16.00-M42-A	16.50-M42-A	17.00-M42-A	17.50-M42-A
18.00-M42-A	18.50-M42-A	19.00-M42-A	19.50-M42-A	20.00-M42-A	20.50-M42-A	21.00-M42-A	21.50-M42-A	22.00-M42-A
22.50-M42-A	22.50-M42-A	23.50-M42-A	24.00-M42-A	24.50-M42-A	25.00-M42-A	25.50-M42-A	26.00-M42-A	26.50-M42-A
27.00-M42-A	27.00-M42-A	28.00-M42-A	28.50-M42-A	29.00-M42-A	29.50-M42-A	30.00-M42-A	30.50-M42-A	31.00-M42-A
31.50-M42-A	31.50-M42-A	32.50-M42-A	33.00-M42-A	33.50-M42-A	34.00-M42-A	34.50-M42-A	35.00-M42-A	35.50-M42-A
36.00-M42-A	36.00-M42-A	37.00-M42-A	37.50-M42-A	38.00-M42-A	38.50-M42-A	39.00-M42-A	39.50-M42-A	40.00-M42-A
40.50-M42-A	40.50-M42-A	41.50-M42-A	42.00-M42-A	42.50-M42-A	43.00-M42-A	43.50-M42-A	44.00-M42-A	44.50-M42-A
45.00-M42-A	45.00-M42-A	46.00-M42-A	46.50-M42-A	47.00-M42-A	47.50-M42-A	48.00-M42-A	48.50-M42-A	49.00-M42-A
49.50-M42-A	49.50-M42-A	50.50-M42-A	51.00-M42-A	51.50-M42-A	52.00-M42-A	52.50-M42-A	53.00-M42-A	53.50-M42-A
54.00-M42-A	54.00-M42-A	55.00-M42-A	55.50-M42-A	56.00-M42-A	56.50-M42-A	57.00-M42-A	57.50-M42-A	58.00-M42-A
58.50-M42-A	58.50-M42-A	59.50-M42-A	60.00-M42-A	60.50-M42-A	61.00-M42-A	62.50-M42-A	63.00-M42-A	63.50-M42-A
64.00-M42-A	64.00-M42-A	65.00-M42-A						

刀片命名规则 Inserts naming rules



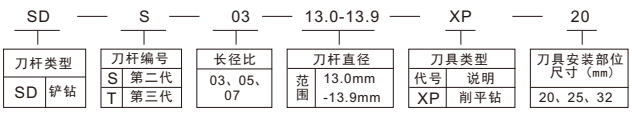
刀片涂层 Insert Material

No Coating	没有涂层
T-TIN	氮化钛
C-TIALN	碳氮化钛
A-TIALN	氮化铝钛

刀片材质 Insert Material

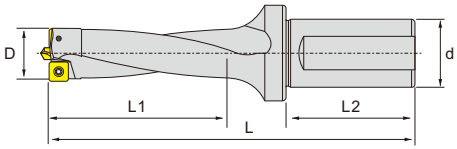
M4-HSS M4	高速钢M4
M42-HSS M42	含钴8%的高性能高速钢
S40-SKH40	粉末冶金高速钢
G12-G12×F	硬质合金

铲钻刀杆命名规则 Nomenclature of drill shank



SP型带定心快速钻头
SP Type Centering Fast Drilling Bit





6倍快速钻头-SP刀片 L1=6xD Centering Fast Drill - SP Type

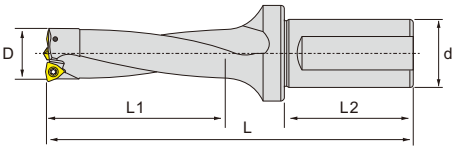
编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	定心钻 Drill Bit	单价 Price
505435	ZD06- 18.0-XP25-SP05H06	112	56	198	18.0		SPMG 0502..	M2.0x4	T6		
505436	18.5-XP25-SP05H06	115	56	201	18.5						
505437	19.0-XP25-SP05H06	118	56	204	19.0						
505438	19.5-XP25-SP05H06	121	56	207	19.5						
505439	20.0-XP25-SP06H06	124	56	210	20.0		SPMG 0602..	M2.2x5	T6	PLD-0620TIN	
505440	20.5-XP25-SP06H06	127	56	213	20.5						
505441	21.0-XP25-SP06H06	130	56	216	21.0						
505442	21.5-XP25-SP06H06	133	56	219	21.5	25					
505443	22.0-XP25-SP06H06	136	56	222	22.0						
505444	22.5-XP25-SP06H06	139	56	225	22.5						
505445	23.0-XP25-SP06H06	142	56	228	23.0						
505446	23.5-XP25-SP06H06	145	56	231	23.5						
505447	24.0-XP25-SP06H06	148	56	234	24.0						
505448	24.5-XP25-SP06H06	151	56	237	24.5						
505449	25.0-XP25-SP06H06	154	56	240	25.0						
505450	ZD06- 25.5-XP32-SP07H08	157	60	252	25.5		SPMG 07T3..	M2.5x6	T8	PLD-0825TIN	
505451	26.0-XP32-SP07H08	160	60	255	26.0						
505452	26.5-XP32-SP07H08	163	60	258	26.5						
505453	27.0-XP32-SP07H08	166	60	261	27.0						
505454	27.5-XP32-SP07H08	169	60	264	27.5						
505455	28.0-XP32-SP07H08	172	60	267	28.0	32					
505456	28.5-XP32-SP07H08	175	60	270	28.5						
505457	29.0-XP32-SP07H08	178	60	273	29.0						
505458	29.5-XP32-SP07H08	181	60	276	29.5						
505459	30.0-XP32-SP07H08	184	60	279	30.0						

8倍快速钻头-SP刀片 L1=8xD Centering Fast Drill - SP Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	定心钻 Drill Bit	单价 Price
505460	ZD08- 18.0-XP25-SP05H06	149	56	235	18.0		SPMG 0502..	M2.0x4	T6		
505461	18.5-XP25-SP05H06	153	56	239	18.5						
505462	19.0-XP25-SP05H06	157	56	243	19.0						
505463	19.5-XP25-SP05H06	161	56	247	19.5						
505464	20.0-XP25-SP06H06	165	56	251	20.0		SPMG 0602..	M2.2x5	T6	PLD-0620TIN	
505465	20.5-XP25-SP06H06	169	56	255	20.5						
505466	21.0-XP25-SP06H06	173	56	259	21.0						
505467	21.5-XP25-SP06H06	177	56	263	21.5	25					
505468	22.0-XP25-SP06H06	181	56	267	22.0						
505469	22.5-XP25-SP06H06	185	56	271	22.5						
505470	23.0-XP25-SP06H06	189	56	175	23.0						
505471	23.5-XP25-SP06H06	193	56	179	23.5						
505472	24.0-XP25-SP06H06	197	56	283	24.0						
505473	24.5-XP25-SP06H06	201	56	287	24.5						
505474	25.0-XP25-SP06H06	205	56	291	25.0						
505475	ZD08- 25.5-XP32-SP07H08	209	60	304	25.5		SPMG 07T3..	M2.5x6	T8	PLD-0825TIN	
505476	26.0-XP32-SP07H08	213	60	308	26.0						
505477	26.5-XP32-SP07H08	217	60	312	26.5						
505478	27.0-XP32-SP07H08	221	60	316	27.0						
505479	27.5-XP32-SP07H08	225	60	320	27.5						
505480	28.0-XP32-SP07H08	229	60	324	28.0	32					
505481	28.5-XP32-SP07H08	233	60	328	28.5						
505482	29.0-XP32-SP07H08	237	60	332	29.0						
505483	29.5-XP32-SP07H08	241	60	336	29.5						
505484	30.0-XP32-SP07H08	245	60	340	30.0						

WC型带定心快速钻头
WC Type Centering Fast Drilling Bit





5倍快速钻头-WC刀片 L1=5xD Centering Fast Drill - WC Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	定心钻 Drill Bit	单价 Price
505485	ZD05- 25.0-XP32-WC03H06	150	60	240	25.0		WCMX03..	M2.5x5	T8		
505486	ZD05- 26.0-XP32-WC04H06	150	60	240	26.0		WCMX04..	M2.5x6	T8	PLD-0620TIN	
505487	27.0-XP32-WC04H06	150	60	240	27.0						
505488	28.0-XP32-WC04H06	150	60	240	28.0						
505489	29.0-XP32-WC04H06	150	60	240	29.0						
505490	30.0-XP32-WC04H06	150	60	240	30.0						
505491	31.0-XP32-WC04H06	175	60	265	31.0						
505492	ZD05- 32.0-XP32-WC05H08	175	60	265	32.0	32	WCMX05..	M3.0x7	T10	PLD-0825TIN	
505493	33.0-XP32-WC05H08	175	60	265	33.0						
505494	34.0-XP32-WC05H08	175	60	265	34.0						
505495	35.0-XP32-WC05H08	175	60	265	35.0						
505496	36.0-XP32-WC05H08	200	60	290	36.0						
505497	37.0-XP32-WC05H08	200	60	290	37.0						
505498	38.0-XP32-WC05H08	200	60	290	38.0						
505499	39.0-XP32-WC05H08	200	60	290	39.0						
505520	40.0-XP32-WC05H08	200	60	290	40.0						

6. 5倍快速钻头-WC刀片 L1=6.5xD Centering Fast Drill - WC Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	定心钻 Drill Bit	单价 Price
505521	ZD6.5- 25.0-XP32-WC03H06	185	60	275	25.0		WCMX03..	M2.5x5	T8		
505522	ZD6.5- 26.0-XP32-WC04H06	185	60	275	26.0		WCMX04..	M2.5x6	T8	PLD-0620TIN	
505523	27.0-XP32-WC04H06	185	60	275	27.0						
505524	28.0-XP32-WC04H06	185	60	275	28.0						
505525	29.0-XP32-WC04H06	185	60	275	29.0						
505526	30.0-XP32-WC04H06	185	60	275	30.0						
505527	31.0-XP32-WC04H06	218	60	308	31.0						
505528	ZD6.5- 32.0-XP32-WC05H08	218	60	308	32.0	32	WCMX05..	M3.0x7	T10	PLD-0825TIN	
505529	33.0-XP32-WC05H08	218	60	308	33.0						
505530	34.0-XP32-WC05H08	218	60	308	34.0						
505531	35.0-XP32-WC05H08	218	60	308	35.0						
505532	36.0-XP32-WC05H08	250	60	340	36.0						
505533	37.0-XP32-WC05H08	250	60	340	37.0						
505534	38.0-XP32-WC05H08	250	60	340	38.0						
505535	39.0-XP32-WC05H08	250	60	340	39.0						
505536	40.0-XP32-WC05H08	250	60	340	40.0						

8倍快速钻头-WC刀片 L1=8xD Centering Fast Drill - WC Type

编码 Order	型号 Model	L1	L2	L	D	d	刀片 Inserts	螺丝 Screw	扳手 Wrench	定心钻 Drill Bit	单价 Price
505537	ZD08- 25.0-XP32-WC03H06	220	60	310	25.0		WCMX03..	M2.5x5	T8		
505538	ZD08- 26.0-XP32-WC04H06	220	60	310	26.0		WCMX04..	M2.5x6	T8	PLD-0620TIN	
505539	27.0-XP32-WC04H06	220	60	310	27.0						
505540	28.0-XP32-WC04H06	220	60	310	28.0						
505541	29.0-XP32-WC04H06	220	60	310	29.0						
505542	30.0-XP32-WC04H06	220	60	310	30.0						
505543	31.0-XP32-WC04H06	260	60	350	31.0						
505544	ZD08- 32.0-XP32-WC05H08	260	60	350	32.0	32	WCMX05..	M3.0x7	T10	PLD-0825TIN	
505545	33.0-XP32-WC05H08	260	60	350	33.0						
505546	34.0-XP32-WC05H08	260	60	350	34.0						
505547	35.0-XP32-WC05H08	260	60	350	35.0						
505548	36.0-XP32-WC05H08	300	60	390	36.0						
505549	37.0-XP32-WC05H08	300	60	390	37.0						
505550	38.0-XP32-WC05H08	300	60	390	38.0						
505551	39.0-XP32-WC05H08	300	60	390	39.0						
505552	40.0-XP32-WC05H08	300	60	390	40.0						

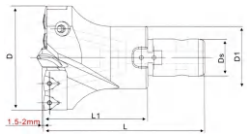
VMD小刀夹



Order	型 号	内 刀	外 刀	刀片	刀刃数	螺丝	扳手	Price
506100	45-50	VNC-045050N	VMC-045050T	WC..030204	2	M2.5x5	T8	1125
506102	50-55	VNC-050055N	VMC-050055T					1125
506104	55-60	VNC-055060N	VMC-055060T	WC..040204	2	M2.5x6		1125
506106	60-65	VNC-060065N	VMC-060065T	WC..050308	2	M3.0x7	T10	1250
506108	65-70	VNC-065070N	VMC-065070T					1250
506110	70-75	VNC-070075N	VMC-070075T					1250
506112	75-80	VNC-075080N	VMC-075080T	WC..06T308	2	M3.5x8	T15	1563
506114	80-85	VNC-080085N	VMC-080085T					1563
506116	85-90	VNC-085090N	VMC-085090T					1563
506118	90-95	VNC-090095N	VMC-090095T					1563
506120	95-100	VNC-095100N	VMC-095100T					1875
506122	100-105	VNC-100105N	VMC-100105T	WC..050308	3	M3.0x7	T10	1875
506124	105-110	VNC-105110N	VMC-105110T	WC..06T308	3	M3.5x8	T15	1875
506126	110-115	VNC-110115N	VMC-110115T					1875
506128	115-120	VNC-115120N	VMC-115120T					1875
506130	120-125	VNC-120125N	VMC-120125T					1875
506132	125-130	VNC-125130N	VMC-125130T					1875
506134	130-135	VNC-130135N	VMC-130135T					1875
506136	135-140	VNC-135140N	VMC-135140T					2500
506138	140-150	VNC-140150N	VMC-140150T	WC..080408	3	M4.0x10		2500
506140	150-160	VNC-150160N	VMC-150160T					2500
506142	160-170	VNC-160170N	VMC-160170T					3125
506144	170-180	VNC-170180N	VMC-170180T					3125

VMD大钻头

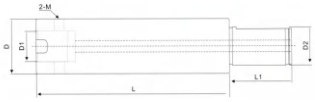




Order	型 号	D	Ds	D1	导向钻D2	L1	L	刀夹	适用刀片	螺丝	扳手	Price
506200	VMD-045050	45-50	16	30	PLS-1035 TiN-H	60	95	VMC-045050N/T	WCMX030208	M2.5x5	T8	7875
506202	VMD-050055	50-55						VMC-050055N/T				7875
506204	VMD-055060	55-60						VMC-055060N/T	WCMX040208			7875
506206	VMD-060065	60-65	25	45	PLS-1238 TiN-H	82	127	VMC-060065N/T	WCMX050308	M3.0x7		7875
506208	VMD-065070	65-70						VMC-065070N/T				8438
506210	VMD-070075	70-75						VMC-070075N/T	WCMX06T308	M3.5x8	T15	8938
506212	VMD-075080	75-80			PLS-1645 TiN-H			VMC-075080N/T				9500
506214	VMD-080085	80-85						VMC-080085N/T				10063
506216	VMD-085090	85-90	30	50			139	VMC-085090N/T				10625
506218	VMD-090095	90-95						VMC-090095N/T				11313
506220	VMD-095100	95-100						VMC-095100N/T				11938
506222	VMD-100105	100-105	32	58	PLS-2045 TiN-H	94	154	VMC-100105N/T	WCMX050308	M3.0x7	T8	12625
506224	VMD-105110	105-110						VMC-105110N/T				13625
506226	VMD-110115	110-115						VMC-110115N/T				14438
506228	VMD-115120	115-120	40	70		104		VMC-115120N/T	WCMX06T308	M3.5x8	T15	15813
506230	VMD-120125	120-125						VMC-120125N/T				16438
506232	VMD-125130	125-130						VMC-125130N/T				17125
506234	VMD-130135	130-135						VMC-130135N/T				17875
506236	VMD-135140	135-140						VMC-135140N/T				19688
506238	VMD-140145	140-145	50	80	PLS-2556 TiN-H	116	176	VMC-140145N/T	WCMX080408	M4.0x10		21188
506240	VMD-145150	145-150						VMC-145150N/T				21969
506242	VMD-150155	150-155						VMC-150155N/T				22750
506244	VMD-155160	155-160						VMC-155160N/T				23531
506246	VMD-160165	160-165						VMC-160165N/T				24688
506248	VMD-165170	165-170						VMC-165170N/T				25625
506250	VMD-170175	170-175						VMC-170175N/T				26563
506252	VMD-175180	175-180						VMC-175180N/T				28125

VMD连接杆





Order		D	D1	D2	L	L1	M	适用范围	Price
506300	DX2-3016100	30	16	32	100	75	M10X1	Ø45-Ø55	2188
506302	DX2-3013150	30	16	32	150	75	M10X1		2188
506304	DX2-3016200	30	16	32	200	75	M10X1		2500
506306	DX2-3016250	30	16	32	250	75	M10X1		2800
506308	DX2-3016300	30	16	32	300	75	M10X1		3100
506310	DX2-3016400	30	16	32	400	75	M10X1		3400
506312	DX2-4525100	45	25	40	100	75	M10X1	Ø60-Ø80	2500
506314	DX2-4525150	45	25	40	150	75	M10X1		2500
506316	DX2-4525200	45	25	40	200	75	M10X1		2813
506318	DX2-4525250	45	25	40	250	75	M10X1		3125
506320	DX2-4525300	45	25	40	300	75	M10X1		3438
506322	DX2-4525400	45	25	40	400	75	M10X1		3750
506324	DX2-5030100	50	30	40	100	75	M12X1	Ø85-Ø95	3125
506326	DX2-5030150	50	30	40	150	75	M12X1		3125
506328	DX2-5030200	50	30	40	200	75	M12X1		3438
506330	DX2-5030250	50	30	40	250	75	M12X1		3750
506332	DX2-5030300	50	30	40	300	75	M12X1		3750
506334	DX2-5030400	50	30	40	400	75	M12X1		3950
506336	DX2-5832100	58	32	40	100	75	M12X1	Ø100-Ø110	3750
506338	DX2-5832150	58	32	40	150	75	M12X1		3750
506340	DX2-5832200	58	32	40	200	75	M12X1		4063
506342	DX2-5832250	58	32	40	250	75	M12X1		4375
506344	DX2-5832300	58	32	40	300	75	M12X1		4600
506346	DX2-5832400	58	32	40	400	75	M12X1		4900
506348	DX2-7040100	70	40	50	100	80	M12X1	Ø115-Ø135	5000
506350	DX2-7040150	70	40	50	150	80	M12X1		5000
506352	DX2-7040200	70	40	50	200	80	M12X1		5625
506354	DX2-7040250	70	40	50	250	80	M12X1		5625
506356	DX2-7040300	70	40	50	300	80	M12X1		6250
506358	DX2-7040400	70	40	50	400	80	M12X1		7500
506360	DX2-8050100	80	50	50	100	80	M12X1	Ø140-Ø195	6250
506362	DX2-8050150	80	50	50	150	80	M12X1		6250
506364	DX2-8050200	80	50	50	200	80	M12X1		6875
506366	DX2-8050250	80	50	50	250	80	M12X1		7500
506368	DX2-8050300	80	50	50	300	80	M12X1		8125
506370	DX2-8050400	80	50	50	400	80	M12X1		9375

定心钻





Order	型 号	D	L	Price
506401	PLD-0620 TIN	6	30	600
506403	PLD-0825 TIN	8	35	600
506400	PLD-V1035 TIN-H	10	35	769
506402	PLD-V1238 TIN-H	12	38	988
506404	PLD-V1645 TIN-H	16	45	1125
506406	PLD-2045 TIN-H	20		1625
506408	PLD-2556 TIN-H	25	56	2100
506410	PLD-3068 TIN-H	30	68	2800

VMD可转位大钻头大幅提高加工效率



工艺	工艺过程	转速	进给	加工时间	总用时长
传统工艺	①Ø60麻花钻	80	16	1小时10分钟	150分钟
	②粗镗刀一	200	30	40分钟	
	③粗镗刀二	200	30	40分钟	
新工艺	VMD可转化大钻头Ø105	280	45	18分钟	18分钟

加工Ø105m孔深550mm. 材料42CrMo，HB 220

钻头钻速

$$S=\frac{Vc\times1000}{\pi\times Dc}$$

Vc=线速度 100m/min
Dc=钻头直径
S=主轴转速

实例：以钻头直径φ100为例。

$$S=\frac{100\times1000}{3.14\times100}=318rev/min$$

进给速度

$$Vf=Fr\times s$$

Vf=进给速度
Fr=每转进给量
S=主轴转速

实例：以钻头直径φ100为例，每转进给量0.15mm/rev。

Vf=0.15×318=47.7mm/min

孔加工时间

$$Tc=\frac{H}{Vf}\times60$$

Tc(s)=加工时间
H=孔的加工深度

实例：以钻头直径φ100为例，孔加工深度为100mm。

$$Tc=\frac{100\times60}{47.7}=126(s)$$

在石油、煤矿等机械行业中，大孔加工越来越普遍，应用VMD可转位大头钻可大幅的提高加工效率。VMD可转位大钻头的亮点：

一、采用中心导向钻结构，有较好的定心效果，从而保证孔位有良好的直线度。

二、内外刃刃采用可替换小刀夹结构。在实际使用中，最易损坏的是外刃刀夹通过替换小刀夹，避免了整支钻头的报废．节省了刀具成本。

三、通过调整外刀夹，钻头加工尺寸可以在0-5mm内变动。

四、刀头和刀柄采用组合式结构。加工不同孔的深度．只需更换不同长度的刀柄即可。

五、钻头有中心出水孔，可以较好的冷却刀片，延长刀片的使用寿命，同时有利于排屑。

六、采用可转位硬质合金刀片切削，有较高的转速和进给，孔壁光洁度有大幅的提升。

七、加工过程中，铁屑均为断屑状态．没有传统麻花钻的细长缠绕的铁屑，安全性大大提高。

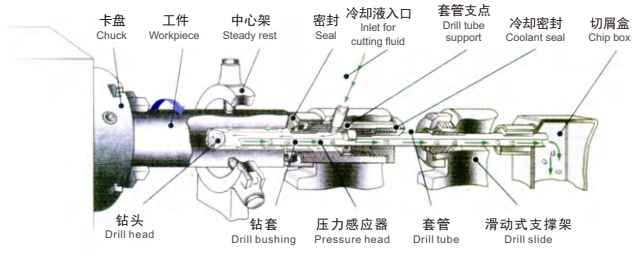
八、加工中，自动连续进刀，不需要每次退刀回屑，效率大幅提升。

Machining φ105m depth 550mm,material 42Crmo,HB220
In the oil,coal and other machine industries,as oversize hole machining becomes more and more common,the application ofVMD indexable Drill can greatly improve the machining efficiency.
The bright spot ofVMD indexable Drill:
1 Using the structure of center guide Drill with better centering effect to make sure hole site a good straightness.
2 Internal and External cutter edge is applied to the structure of replaceable clamp tool.In practical using,the most vulnerable is external edge clamp.Replacing clamp can avoid the Drill scrapped to save the tool cost.
3 Adjusting external clamp,the dimension of Drill machining can vary within 0-5 mm.
4 Cutter head and shank are modular structure.Only change different length shank during processing the different depth of the hole.
5 Drill with center water hole can cool insert better,extend insert life and accelerate chip evacuation.
6 Using indexable carbide insert cutting with high speed and feed,surface finish has greatly improved.
7 In the process,security is greatly improved as chip is breaker not slender twining of traditional twist Drill.
8 In the process,automatic continuous feed,and don't need tool back offto chip,and efficiency is greatly improved.

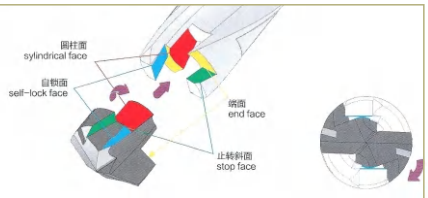
喷吸钻系列



1. 通过高压没泵从孔壁和套管之间供油
1.Coolant oil fluid supoly is fed through an oil pressure head between the outside of the Drill tube and the hole wall.
2. 工件和套管之间用密封圈密封
2.A seai between theworkpiece and the Drill bush is necessary.
3.喷吸钻（双套管BTA）的两倍冷却液压力和流量
3.Double the coolant pressure and quantity are required than with the Ejector system.
4. 适合长切屑材料加工，如不锈钢、低碳钢和组织不均匀的材质等
4.Preferably used for materials with long chip formation,such as stainless steel,low carbon steel and materials with an uneven structure.
5. 在加工超深孔和超大孔上，单孔钻系统更具优势
5.Single thbe system is more advantageous for extremely long workpieces and for workpieces with large holes.



全新的自锁式装夹方式
New self-locking clamping method



刀头、刀体圆柱配合保证同心度
Centering by cylindrical faces

刀体的弹性变形使刀头拧入后不可回转而自锁
The cutting head can beseif-locked with toolholder while inserted due to its

端面承受钻削轴向力
Axial Drill fore is transferred to toolholder by end faces

止转斜面承受钻削扭矩
Drill torque is transferred to toolholder by stop faces

可快速更换刀头
No set-up time for changing cutting head



无需从机床取下刀体，可方便快捷地在机床上更换刀头

The cutting head can be changer in the machine tool,
NO need to take the toolholder out from the spindle

带内冷却水孔的刀体
Toolholders with coolant



带内冷却的设计，使刀头钻削是冷却更充分，刀头寿命更长，切屑更容易排出。

Coolant makes cutting head life much longer and also high pressure cooling liquid pushes chips to evacuate quickly

完美的抛光刀体
Perfect Poilshed Toolholders



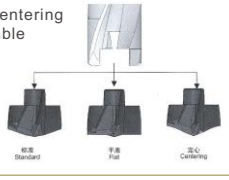
抛光刀体排屑槽，是切屑更容易排出。

Toolholder Flutes Polished Let Chips Evacate Easily

三种刀头可供选择
Three Different Cutting Heads are Avaiable

可地选择不同用途的标准，平底，定心刀头。

Standerd,flat and self-centering cutting heads are available



增值服务 Resharpening Service

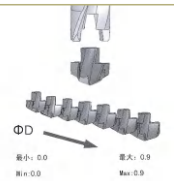
提供刀头返厂重磨服务，
为用户进一步减少刀具使用成本。

Supply resharpening cutting head service for customer to cut cast

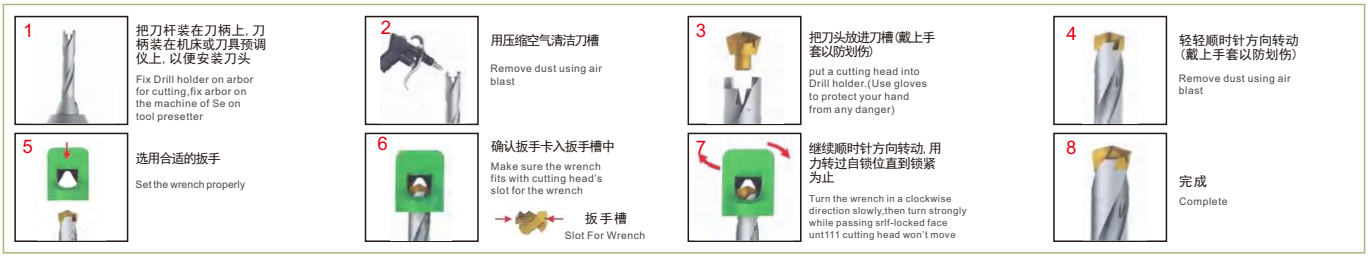
高互换性，管理更柔性 Interchangeability and Flexibility

同一刀体可装不同尺寸刀头，可减少刀体数量，
刀头与刀体完全互换。

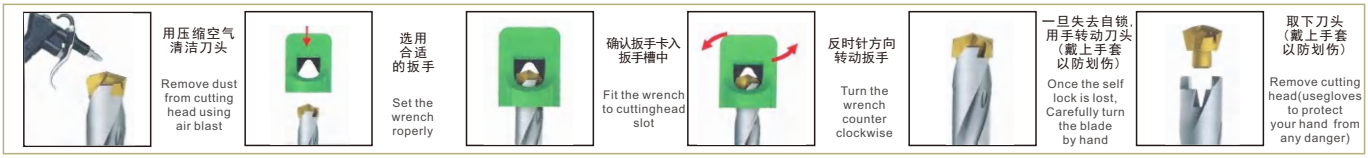
Different cutting diameter heads can be fixed into one toolholder so as to reduce the number of toolholder,and cutting heads and toolholders are interchangeable totally



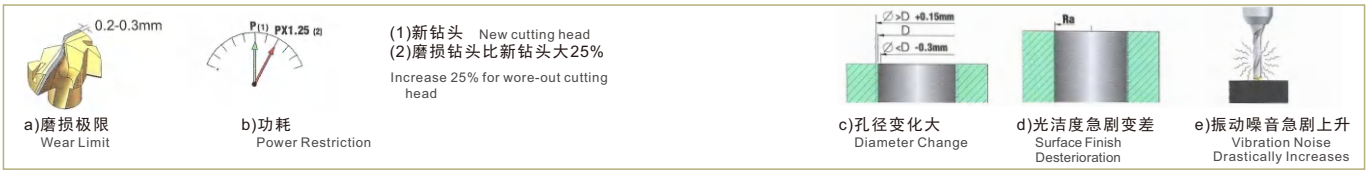
怎样装刀头 How To Attach Cutting Heads



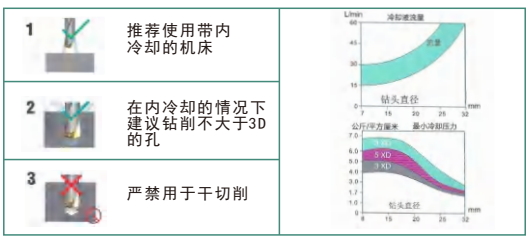
怎样卸刀头 How To Detach Cutting Heads



钻头更换判断标准 Indication of Cutting Head Wear



冷却 Coolant



应用警示
Usage Precautions core deviation

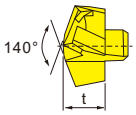


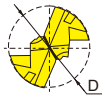
应用 Application

推荐应用 Application Recommend ation	工作形态 Work Environment	不推荐应用 Application Not Recommendation	工作形态 Work Environment
平面孔推荐 Flat Face Recommended		重叠孔 禁用 Hole Expansion Not Recommended	
叠板孔 重叠加固可用 Overlapping reinforcement of laminated holes is available		斜面孔 禁用 Slanted Surface Not Recommended	
曲面孔 减少进给量一半可用 Surface hole reduces feed by half available		半边孔 禁用 Half Cylindrical Not Recomened	
管壁孔 过管中心可用 Pipe Materal Recommended		型芯孔 禁用 Cored Hole Not Recommend ed	

QD...S 标准钻头
Standard Cutting Head







切削参数 (Cutting Parameters)：K34

订购编码 Order number	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD080S	8.0	5.4	QD080-089-12-..D-..
QD081S	8.1		
QD082S	8.2		
QD083S	8.3		
QD084S	8.4		
QD085S	8.5		
QD086S	8.6		
QD087S	8.7		
QD088S	8.8		
QD089S	8.9		
QD090S	9.0	5.4	QD090-099-12-..D-..
QD091S	9.1		
QD092S	9.2		
QD093S	9.3		
QD094S	9.4		
QD095S	9.5		
QD096S	9.6		
QD097S	9.7		
QD098S	9.8		
QD099S	9.9		
QD100S	10.0	5.4	QD100-109-16-..D-..
QD101S	10.1		
QD102S	10.2		
QD103S	10.3		
QD104S	10.4		
QD105S	10.5		
QD106S	10.6		
QD107S	10.7		
QD108S	10.8		
QD109S	10.9		

订购编码 Order number	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD110S	11.0	6.6	QD110-119-16-..D-..
QD111S	11.1		
QD112S	11.2		
QD113S	11.3		
QD114S	11.4		
QD115S	11.5		
QD116S	11.6		
QD117S	11.7		
QD118S	11.8		
QD119S	11.9		
QD120S	12.0	7.0	QD120-129-16-..D-..
QD121S	12.1		
QD122S	12.2		
QD123S	12.3		
QD124S	12.4		
QD125S	12.5		
QD126S	12.6		
QD127S	12.7		
QD128S	12.8		
QD129S	12.9		
QD130S	13.0	7.6	QD130-139-16-..D-..
QD131S	13.1		
QD132S	13.2		
QD133S	13.3		
QD134S	13.4		
QD135S	13.5		
QD136S	13.6		
QD137S	13.7		
QD138S	13.8		
QD139S	13.9		

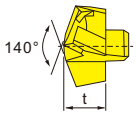
订购编码 Order number	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD140S	14.0	8.1	QD140-149-16-..D-..
QD141S	14.1		
QD142S	14.2		
QD143S	14.3		
QD144S	14.4		
QD145S	14.5		
QD146S	14.6		
QD147S	14.7		
QD148S	14.8		
QD149S	14.9		
QD150S	15.0	8.7	QD150-159-20-..D-..
QD151S	15.1		
QD152S	15.2		
QD153S	15.3		
QD154S	15.4		
QD155S	15.5		
QD156S	15.6		
QD157S	15.7		
QD158S	15.8		
QD159S	15.9		
QD160S	16.0	9.3	QD160-169-20-..D-..
QD161S	16.1		
QD162S	16.2		
QD163S	16.3		
QD164S	16.4		
QD165S	16.5		
QD166S	16.6		
QD167S	16.7		
QD168S	16.8		
QD169S	16.9		

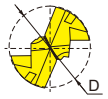
订购编码 Order number	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD170S	17.0	9.9	QD170-179-20-..D-..
QD171S	17.1		
QD172S	17.2		
QD173S	17.3		
QD174S	17.4		
QD175S	17.5		
QD176S	17.6		
QD177S	17.7		
QD178S	17.8		
QD179S	17.9		
QD180S	18.0	10.5	QD180-189-25-..D-..
QD181S	18.1		
QD182S	18.2		
QD183S	18.3		
QD184S	18.4		
QD185S	18.5		
QD186S	18.6		
QD187S	18.7		
QD188S	18.8		
QD189S	18.9		
QD190S	19.0	11.0	QD190-199-25-..D-..
QD191S	19.1		
QD192S	19.2		
QD193S	19.3		
QD194S	19.4		
QD195S	19.5		
QD196S	19.6		
QD197S	19.7		
QD198S	19.8		
QD199S	19.9		

QD...S 标准钻头
Standard Cutting Head

切削参数 (Cutting Parameters)：K34





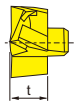


订购编码 Order number	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD200S	20.0	11.6	QD200-209-25-..D-..
QD201S	20.1		
QD202S	20.2		
QD203S	20.3		
QD204S	20.4		
QD205S	20.5		
QD206S	20.6		
QD207S	20.7		
QD208S	20.8		
QD209S	20.9		
QD210S	21.0	12.1	QD210-219-25-..D-..
QD211S	21.1		
QD212S	21.2		
QD213S	21.3		
QD214S	21.4		
QD215S	21.5		
QD216S	21.6		
QD217S	21.7		
QD218S	21.8		
QD219S	21.9		
QD220S	22.0	12.7	QD220-229-25-..D-..
QD221S	22.1		
QD222S	22.2		
QD223S	22.3		
QD224S	22.4		
QD225S	22.5		
QD226S	22.6		
QD227S	22.7		
QD228S	22.8		
QD229S	22.9		

订购编码 Order number	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD230S	23.0	13.3	QD230-239-32-..D-..
QD231S	23.1		
QD232S	23.2		
QD233S	23.3		
QD234S	23.4		
QD235S	23.5		
QD236S	23.6		
QD237S	23.7		
QD238S	23.8		
QD239S	23.9		
QD240S	24.0	13.9	QD240-249-32-..D-..
QD241S	24.1		
QD242S	24.2		
QD243S	24.3		
QD244S	24.4		
QD245S	24.5		
QD246S	24.6		
QD247S	24.7		
QD248S	24.8		
QD249S	24.9		
QD250S	25.0	14.5	QD250-269-32-..D-..
QD251S	25.1		
QD252S	25.2		
QD253S	25.3		
QD254S	25.4		
QD255S	25.5		
QD256S	25.6		
QD257S	25.7		
QD258S	25.8		
QD259S	25.9		

QD...F 平底钻头
Flat Cutting Head



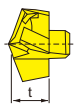




订购编码 Order number	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD080F	8.0	4.0	QD080-089-12-..
QD085F	8.5	4.0	
QD090F	9.0	4.2	QD090-099-12-..
QD095F	9.5	4.2	
QD100F	10.0	4.4	QD100-109-16-..
QD105F	10.5	4.4	
QD110F	11.0	4.5	QD110-119-16-..
QD115F	11.5	4.5	
QD120F	12.0	4.8	QD120-129-16-..
QD125F	12.5	4.8	
QD130F	13.0	5.1	QD130-139-16-..
QD135F	13.5	5.1	
QD140F	14.0	5.5	QD140-149-16-..
QD145F	14.5	5.5	
QD150F	15.0	5.9	QD150-159-20-..
QD155F	15.5	5.9	
QD160F	16.0	6.3	QD160-169-20-..
QD165F	16.5	6.3	
QD170F	17.0	6.6	QD170-179-20-..
QD175F	17.5	6.6	
QD180F	18.0	6.9	QD180-189-25-..
QD185F	18.5	6.9	
QD190F	19.0	7.2	QD190-199-25-..
QD195F	19.5	7.2	
QD200F	20.0	8.2	QD200-209-25-..
QD205F	20.5	8.2	
QD210F	21.0	8.6	QD210-219-25-..
QD215F	21.5	8.6	
QD220F	22.0	8.9	QD220-229-25-..
QD225F	22.5	8.9	
QD230F	23.0	9.3	QD230-239-32-..
QD235F	23.5	9.3	
QD240F	24.0	9.7	QD240-249-32-..
QD245F	24.5	9.7	
QD250F	25.0	10.1	QD250-259-32-..D-..
QD255F	25.5	10.1	
QD260F	26.0	10.1	

QD...C 定心钻头
Centering Cutting Head



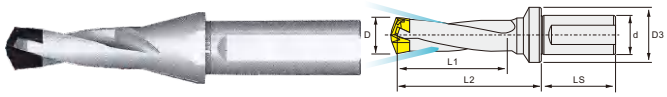




订购编码 Order number	尺寸 Dimensions(mm)		刀体 tool holders
	D	t	
QD080C	8.0	5.4	QD080-089-12-..
QD085C	8.5	5.4	
QD090C	9.0	5.8	QD090-099-12-..
QD095C	9.5	5.8	
QD100C	10.0	6.2	QD100-109-16-..
QD105C	10.5	6.2	
QD110C	11.0	6.6	QD110-119-16-..
QD115C	11.5	6.6	
QD120C	12.0	7.0	QD120-129-16-..
QD125C	12.5	7.0	
QD130C	13.0	7.6	QD130-139-16-..
QD135C	13.5	7.6	
QD140C	14.0	8.2	QD140-149-16-..
QD145C	14.5	8.2	
QD150C	15.0	8.7	QD150-159-20-..
QD155C	15.5	8.7	
QD160C	16.0	9.3	QD160-169-20-..
QD165C	16.5	9.3	
QD170C	17.0	9.9	QD170-179-20-..
QD175C	17.5	9.9	
QD180C	18.0	10.5	QD180-189-25-..
QD185C	18.5	10.5	
QD190C	19.0	11.0	QD190-199-25-..
QD195C	19.5	11.0	
QD200C	20.0	11.6	QD200-209-25-..
QD205C	20.5	11.6	
QD210C	21.0	12.2	QD210-219-25-..
QD215C	21.5	12.2	
QD220C	22.0	12.8	QD220-229-25-..
QD225C	22.5	12.8	
QD230C	23.0	13.3	QD230-239-32-..
QD235C	23.5	13.3	
QD240C	24.0	13.9	QD240-249-32-..
QD245C	24.5	13.9	
QD250C	25.0	14.5	QD250-259-32-..D-..
QD255C	25.5	14.5	
QD260C	26.0	14.5	

QD..-1. 5D-C 带内冷却水孔快钻刀体

"QuickDrill" Toolholders with Coolant

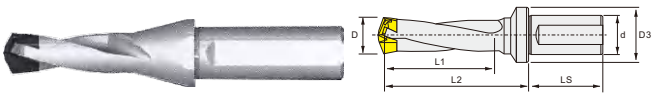


切削参数 (Cutting Parameters): K34

订购编码 Order	规格型号 Model	配套刀头 D	尺寸 Dimensions(mm)						拆卸器 Puller
			d	D3	L1	L2	LS	D	
505553	QD080-089-16-1.5D-C	8.0~8.9	12	16	12	27.9	45	8	8-12
505554	QD090-099-16-1.5D-C	9.0~9.9	12	16	14	29.3	45	9	
505555	QD100-109-20-1.5D-C	10.0~10.9	16	20	15	31.2	48	10	
505556	QD110-119-20-1.5D-C	11.0~11.9	16	20	17	33.1	48	11	
505557	QD120-129-20-1.5D-C	12.0~12.9	16	20	18	35.0	48	12	12-17
505558	QD130-139-20-1.5D-C	13.0~13.9	16	20	20	37.1	48	13	
505559	QD140-149-20-1.5D-C	14.0~14.9	16	20	21	41.1	48	14	
505560	QD150-159-25-1.5D-C	15.0~15.9	20	25	23	46.2	50	15	
505561	QD160-169-25-1.5D-C	16.0~16.9	20	25	24	49.3	50	16	
505562	QD170-179-25-1.5D-C	17.0~17.9	20	25	26	52.4	50	17	17-21
505563	QD180-189-32-1.5D-C	18.0~18.9	25	32	27	55.5	56	18	
505564	QD190-199-32-1.5D-C	19.0~19.9	25	32	29	58.5	56	19	
505565	QD200-209-32-1.5D-C	20.0~20.9	25	32	30	61.6	56	20	
505566	QD210-219-32-1.5D-C	21.0~21.9	25	32	32	64.7	56	21	21-26
505567	QD220-229-32-1.5D-C	22.0~22.9	25	32	33	67.8	56	22	
505568	QD230-239-42-1.5D-C	23.0~23.9	32	42	35	70.9	60	23	
505569	QD240-249-42-1.5D-C	24.0~24.9	32	42	36	74.0	60	24	
505570	QD250-259-42-1.5D-C	25.0~26.0	32	42	38	77.0	60	25	

QD..-1. 5D-N 无内冷却水孔快钻刀体

"QuickDrill" Toolholders without Coolant



切削参数 (Cutting Parameters): K34

订购编码 Order	规格型号 Model	配套刀头 D	尺寸 Dimensions(mm)						拆卸器 Puller
			d	D3	L1	L2	LS	D	
505571	QD080-089-16-1.5D-N	8.0~8.9	12	16	12	27.9	45	8	8-12
505572	QD090-099-16-1.5D-N	9.0~9.9	12	16	14	29.3	45	9	
505573	QD100-109-20-1.5D-N	10.0~10.9	16	20	15	31.2	48	10	
505574	QD110-119-20-1.5D-N	11.0~11.9	16	20	17	33.1	48	11	
505575	QD120-129-20-1.5D-N	12.0~12.9	16	20	18	35.0	48	12	12-17
505576	QD130-139-20-1.5D-N	13.0~13.9	16	20	20	37.1	48	13	
505577	QD140-149-20-1.5D-N	14.0~14.9	16	20	21	41.1	48	14	
505578	QD150-159-25-1.5D-N	15.0~15.9	20	25	23	46.2	50	15	
505579	QD160-169-25-1.5D-N	16.0~16.9	20	25	24	49.3	50	16	
505580	QD170-179-25-1.5D-N	17.0~17.9	20	25	26	52.4	50	17	17-21
505581	QD180-189-32-1.5D-N	18.0~18.9	25	32	27	55.5	56	18	
505582	QD190-199-32-1.5D-N	19.0~19.9	25	32	29	58.5	56	19	
505583	QD200-209-32-1.5D-N	20.0~20.9	25	32	30	61.6	56	20	
505584	QD210-219-32-1.5D-N	21.0~21.9	25	32	32	64.7	56	21	21-26
505585	QD220-229-32-1.5D-N	22.0~22.9	25	32	33	67.8	56	22	
505586	QD230-239-42-1.5D-N	23.0~23.9	32	42	35	70.9	60	23	
505587	QD240-249-42-1.5D-N	24.0~24.9	32	42	36	74.0	60	24	
505588	QD250-259-42-1.5D-N	25.0~26.0	32	42	38	77.0	60	25	

QD..-3D-C 带内冷却水孔快钻刀体

"QuickDrill" Toolholders with Coolant

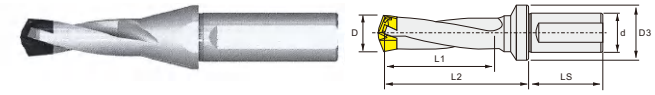


切削参数 (Cutting Parameters): K34

订购编码 Order	规格型号 Model	配套刀头 D	尺寸 Dimensions(mm)						拆卸器 Puller
			d	D3	L1	L2	LS	D	
505589	QD080-084-16-3D-C	8.0~8.4	12	16	24	39.4	45	8	8-12
505590	QD085-089-16-3D-C	8.5~8.9	12	16	26	40.9	45	8	
505591	QD090-094-16-3D-C	9.0~9.4	12	16	27	42.8	45	9	
505592	QD095-099-16-3D-C	9.5~9.9	12	16	29	44.3	45	9	
505593	QD100-104-20-3D-C	10.0~10.4	16	20	30	46.2	48	10	
505594	QD105-109-20-3D-C	10.5~10.9	16	20	32	47.7	48	10	
505595	QD110-114-20-3D-C	11.0~11.4	16	20	33	49.6	48	11	
505596	QD115-119-20-3D-C	11.5~11.9	16	20	35	51.1	48	11	
505597	QD120-124-20-3D-C	12.0~12.4	16	20	36	53.0	48	12	12-17
505598	QD125-129-20-3D-C	12.5~12.9	16	20	37	54.5	48	12	
505599	QD130-134-20-3D-C	13.0~13.4	16	20	39	56.6	48	13	
505610	QD135-139-20-3D-C	13.5~13.9	16	20	41	58.1	48	13	
505611	QD140-144-20-3D-C	14.0~14.4	16	20	42	62.1	48	14	
505612	QD145-149-20-3D-C	14.5~14.9	16	20	44	63.6	48	14	
505613	QD150-159-25-3D-C	15.0~15.9	20	25	45	68.7	50	15	
505614	QD160-169-25-3D-C	16.0~16.9	20	25	48	73.3	50	16	
505615	QD170-179-25-3D-C	17.0~17.9	20	25	51	77.9	50	17	17-21
505616	QD180-189-32-3D-C	18.0~18.9	25	32	54	82.5	56	18	
505617	QD190-199-32-3D-C	19.0~19.9	25	32	57	87.0	56	19	
505618	QD200-209-32-3D-C	20.0~20.9	25	32	60	91.6	56	20	
505619	QD210-219-32-3D-C	21.0~21.9	25	32	63	96.2	56	21	21-26
505620	QD220-229-32-3D-C	22.0~22.9	25	32	66	100.8	56	22	
505621	QD230-239-42-3D-C	23.0~23.9	32	42	69	105.4	60	23	
505622	QD240-249-42-3D-C	24.0~24.9	32	42	72	109.9	60	24	
505623	QD250-259-42-3D-C	25.0~26.0	32	42	75	114.5	60	25	

QD..-3D-N 无内冷却水孔快钻刀体

"QuickDrill" Toolholders without Coolant

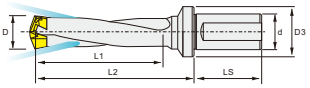


切削参数 (Cutting Parameters): K34

订购编码 Order	规格型号 Model	配套刀头 D	尺寸 Dimensions(mm)						拆卸器 Puller
			d	D3	L1	L2	LS	D	
505624	QD080-084-16-3D-N	8.0~8.4	12	16	24	39.4	45	8	8-12
505625	QD085-089-16-3D-N	8.5~8.9	12	16	26	40.9	45	8	
505626	QD090-094-16-3D-N	9.0~9.4	12	16	27	42.8	45	9	
505627	QD095-099-16-3D-N	9.5~9.9	12	16	29	44.3	45	9	
505628	QD100-104-20-3D-N	10.0~10.4	16	20	30	46.2	48	10	
505629	QD105-109-20-3D-N	10.5~10.9	16	20	32	47.7	48	10	
505630	QD110-114-20-3D-N	11.0~11.4	16	20	33	49.6	48	11	
505631	QD115-119-20-3D-N	11.5~11.9	16	20	35	51.1	48	11	
505632	QD120-124-20-3D-N	12.0~12.4	16	20	36	53.0	48	12	12-17
505633	QD125-129-20-3D-N	12.5~12.9	16	20	37	54.5	48	12	
505634	QD130-134-20-3D-N	13.0~13.4	16	20	39	56.6	48	13	
505635	QD135-139-20-3D-N	13.5~13.9	16	20	41	58.1	48	13	
505636	QD140-144-20-3D-N	14.0~14.4	16	20	42	62.1	48	14	
505637	QD145-149-20-3D-N	14.5~14.9	16	20	44	63.6	48	14	
505638	QD150-159-25-3D-N	15.0~15.9	20	25	45	68.7	50	15	
505639	QD160-169-25-3D-N	16.0~16.9	20	25	48	73.3	50	16	
505640	QD170-179-25-3D-N	17.0~17.9	20	25	51	77.9	50	17	17-21
505641	QD180-189-32-3D-N	18.0~18.9	25	32	54	82.5	56	18	
505642	QD190-199-32-3D-N	19.0~19.9	25	32	57	87.0	56	19	
505643	QD200-209-32-3D-N	20.0~20.9	25	32	60	91.6	56	20	
505644	QD210-219-32-3D-N	21.0~21.9	25	32	63	96.2	56	21	21-26
505645	QD220-229-32-3D-N	22.0~22.9	25	32	66	100.8	56	22	
505646	QD230-239-42-3D-N	23.0~23.9	32	42	69	105.4	60	23	
505647	QD240-249-42-3D-N	24.0~24.9	32	42	72	109.9	60	24	
505648	QD250-259-42-3D-N	25.0~26.0	32	42	75	114.5	60	25	

QD..-5D-C 带内冷却水孔快钻刀体
"QuickDrill" Toolholders with Coolant



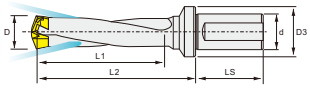


切削参数 (Cutting Parameters): K34

订购编码 Order	规格型号 Model	配套刀头 D	尺寸 Dimensions(mm)						拆卸器 Puller
			d	D3	L1	L2	LS	D	
505649	QD080-084-16-5D-C	8.0~8.4	12	16	40	55.4	45	8	8-12
505650	QD085-089-16-5D-C	8.5~8.9	12	16	43	57.9	45	8	
505651	QD090-094-16-5D-C	9.0~9.4	12	16	45	60.8	45	9	
505652	QD095-099-16-5D-C	9.5~9.9	12	16	48	63.3	45	9	
505653	QD100-104-20-5D-C	10.0~10.4	16	20	50	66.2	48	10	
505654	QD105-109-20-5D-C	10.5~10.9	16	20	53	68.7	48	10	
505655	QD110-114-20-5D-C	11.0~11.4	16	20	55	71.6	48	11	
505656	QD115-119-20-5D-C	11.5~11.9	16	20	58	74.1	48	11	
505657	QD120-124-20-5D-C	12.0~12.4	16	20	60	77.0	48	12	12-17
505658	QD125-129-20-5D-C	12.5~12.9	16	20	62	79.5	48	12	
505659	QD130-134-20-5D-C	13.0~13.4	16	20	65	82.6	48	13	
505660	QD135-139-20-5D-C	13.5~13.9	16	20	68	85.1	48	13	
505661	QD140-144-20-5D-C	14.0~14.4	16	20	70	90.2	48	14	
505662	QD145-149-20-5D-C	14.5~14.9	16	20	73	92.7	48	14	
505663	QD150-159-25-5D-C	15.0~15.9	20	25	75	98.7	50	15	
505664	QD160-169-25-5D-C	16.0~16.9	20	25	80	105.3	50	16	
505665	QD170-179-25-5D-C	17.0~17.9	20	25	85	111.9	50	17	17-21
505666	QD180-189-32-5D-C	18.0~18.9	25	32	90	118.5	56	18	
505667	QD190-199-32-5D-C	19.0~19.9	25	32	95	125.0	56	19	
505668	QD200-209-32-5D-C	20.0~20.9	25	32	100	131.6	56	20	
505669	QD210-219-32-5D-C	21.0~21.9	25	32	105	138.2	56	21	21-26
505670	QD220-229-32-5D-C	22.0~22.9	25	32	110	144.8	56	22	
505671	QD230-239-42-5D-C	23.0~23.9	32	42	115	151.4	60	23	
505672	QD240-249-42-5D-C	24.0~24.9	32	42	120	158.0	60	24	
505673	QD250-259-42-5D-C	25.0~26.0	32	42	125	164.5	60	25	

QD..-8D-C 带内冷却水孔快钻刀体
"QuickDrill" Toolholders with Coolant



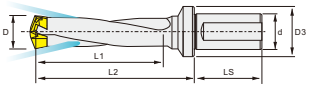


切削参数 (Cutting Parameters): K34

订购编码 Order	规格型号 Model	配套刀头 D	尺寸 Dimensions(mm)						拆卸器 Puller
			d	D3	L1	L2	LS	D	
505674	QD080-084-16-5D-C	8.0~8.4	12	16	64	79.4	45	8	8-12
505675	QD085-089-16-5D-C	8.5~8.9	12	16	68	84.4	45	8	
505676	QD090-094-16-5D-C	9.0~9.4	12	16	72	87.8	45	9	
505677	QD095-099-16-5D-C	9.5~9.9	12	16	76	92.7	45	9	
505678	QD100-104-20-5D-C	10.0~10.4	16	20	80	96.2	48	10	
505679	QD105-109-20-5D-C	10.5~10.9	16	20	84	100.2	48	10	
505680	QD110-114-20-5D-C	11.0~11.4	16	20	88	104.6	48	11	
505681	QD115-119-20-5D-C	11.5~11.9	16	20	92	108.6	48	11	
505682	QD120-124-20-5D-C	12.0~12.4	16	20	96	113.0	48	12	12-17
505683	QD125-129-20-5D-C	12.5~12.9	16	20	100	117.0	48	12	
505684	QD130-134-20-5D-C	13.0~13.4	16	20	104	121.6	48	13	
505685	QD135-139-20-5D-C	13.5~13.9	16	20	108	125.5	48	13	
505686	QD140-144-20-5D-C	14.0~14.4	16	20	112	132.1	48	14	
505687	QD145-149-20-5D-C	14.5~14.9	16	20	116	136.2	48	14	
505688	QD150-159-25-5D-C	15.0~15.9	20	25	120	143.7	50	15	
505689	QD160-169-25-5D-C	16.0~16.9	20	25	128	153.3	50	16	
505690	QD170-179-25-5D-C	17.0~17.9	20	25	136	162.9	50	17	17-21
505691	QD180-189-32-5D-C	18.0~18.9	25	32	144	172.5	56	18	
505692	QD190-199-32-5D-C	19.0~19.9	25	32	152	182.0	56	19	
505693	QD200-209-32-5D-C	20.0~20.9	25	32	160	191.6	56	20	
505694	QD210-219-32-5D-C	21.0~21.9	25	32	168	201.2	56	21	21-26
505695	QD220-229-32-5D-C	22.0~22.9	25	32	176	210.8	56	22	
505696	QD230-239-42-5D-C	23.0~23.9	32	42	184	220.4	60	23	
505697	QD240-249-42-5D-C	24.0~24.9	32	42	192	230.0	60	24	
505698	QD250-259-42-5D-C	25.0~26.0	32	42	200	239.5	60	25	

QD..-12D-C 带内冷却水孔快钻刀体
"QuickDrill" Toolholders with Coolant





切削参数 (Cutting Parameters): K34

订购编码 Order	规格型号 Model	配套刀头 D	尺寸 Dimensions(mm)						拆卸器 Puller
			d	D3	L1	L2	LS	D	
505700	QD120-124-20-12D-C	12.0~12.4	16	20	144	161	48	12	12-17
505701	QD125-129-20-12D-C	12.5~12.9	16	20	150	167	48	12	
505702	QD130-134-20-12D-C	13.0~13.9	16	20	156	173	48	13	
505703	QD135-139-20-12D-C	13.5~13.9	16	20	162	179	48	13	
505704	QD140-144-20-12D-C	14.0~14.4	16	20	168	188	48	14	
505705	QD145-149-20-12D-C	14.5~14.9	16	20	174	194	48	14	
505706	QD150-159-25-12D-C	15.0~15.9	20	25	180	210	50	15	
505707	QD160-169-25-12D-C	16.0~16.9	20	25	192	224	50	16	
505708	QD170-179-25-12D-C	17.0~17.9	20	25	204	238	50	17	17-21
505709	QD180-189-32-12D-C	18.0~18.9	25	32	216	252	56	18	
505710	QD190-199-32-12D-C	19.0~19.9	25	32	228	266	56	19	
505711	QD200-209-32-12D-C	20.0~20.9	25	32	240	280	56	20	
505712	QD210-219-32-12D-C	21.0~21.9	25	32	252	294	56	21	21-26
505713	QD220-229-32-12D-C	22.0~23.0	25	32	264	308	56	22	



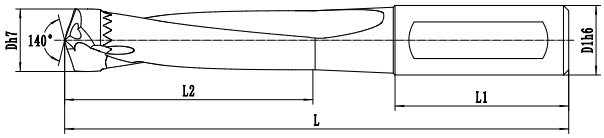
剑齿钻刀杆
Swordtooth drill shank

- 刀片直径范围12-33.5mm，深度1.5、3、5、8、12倍径
  Blade diameter range 12-33.5mm, depth 1.5, 3, 5, 8, 12 times diameter
- 刀片预留1.5mm-3mm重磨余量，可进一步降低刀具成本
  The blade has a reserved grinding allowance of 1.5mm-3mm, which can further reduce tool costs
- 可换式硬质合全刀片、高刚性合金刀杆，加工精度与效率大幅提高
  Interchangeable hard composite full blade and high rigidity alloy tool holder, greatly improving machining accuracy and efficiency
- 刀片与刀杆采用径向齿形设计，很好的实现了高精度与高强度的要求
  The blade and tool holder are designed with radial tooth profiles, which effectively meet the requirements of high precision and strength
- 更换刀片快速方便，无需把刀杆从机床取出
  Replacing blades is fast and convenient, without the need to remove the tool holder from the machine tool
- 同一刀杆可装配不同直径刀片，节约刀具成本
  The same tool holder can be equipped with blades of different diameters, saving tool costs
- 优化的螺旋设计可改善软性材料的切屑控制
  Optimized spiral design can improve chip control of soft materials
- 强化的刃口处理大幅提高加工寿命
  Enhanced edge treatment significantly improves machining life
- 柄部设计适合多种刀柄系统
  The handle design is suitable for various tool handle systems
- 带内冷孔设计，使钻削冷充分，刀具寿命更长，排屑更顺畅
  Equipped with internal cold hole design, ensuring sufficient cooling during drilling, longer tool life, and smoother chip removal

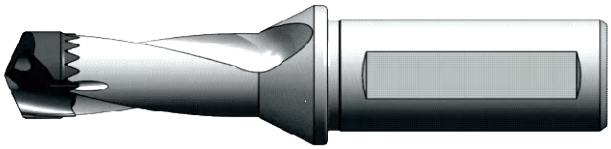


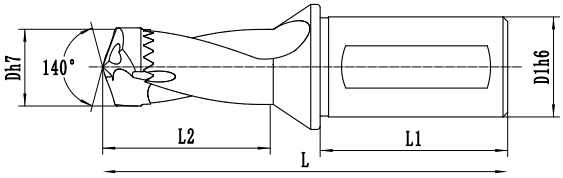
剑齿钻刀杆
Swordtooth drill shank





钻径 Drilling diameter	3D 规格型号 Model	3D 尺寸 Dimensions(mm) L2	3D L	5D 规格型号 Model	5D 尺寸 Dimensions(mm) L2	5D L	8D 规格型号 Model	8D 尺寸 Dimensions(mm) L2	8D L	刀柄部可通用 The handle of the knife is interchangeable 尺寸 Dimensions(mm) L1	刀柄部可通用 D1	螺钉 screw	扳手 wrench
12.0-12.49	TC03-120-XP16	46	107	TC05-120-XP16	71	132	-	-	-	48	16	M2.2*8	T6
12.5-13.49	TC03-130-XP16	19	112	TC05-130-XP16	76	142	-	-	-				
13.5-14.5	TCO3-140-XP16	55	119	TC05-140-XP16	84	149	TC08-140-XP16	127	194				
14.51-15.5	TC03-150-XP20	58	129	TC05-150-XP20	89	159	TC08-150-XP20	136	204	50	25	M2.5*9	T8
15.51-16.5	TC03-160-XP20	62	134	TC05-160-XP20	95	169	TC08-160-XP20	144	214				
16.51-17.5	TC03-170-XP20	66	140	TC05-170-XP20	101	175	TC08-170-XP20	154	225				
17.51-18.5	TC03-180-XP20	70	145	TC05-180-XP20	107	180	TC08-180-XP20	162	230				
18.51-19.5	TC03-190-XP25	73	160	TC05-190-XP25	112	195	TC08-190-XP25	171	255	56	20	M3.0*11	
19.51-20.5	TC03-200-XP25	77	160	TC05-200-XP25	118	200	TC08-200-XP25	179	270				
20.51-21.5	TC03-210-XP25	80	160	TC05-210-XP25	123	200	TC08-210-XP25	188	266				
21.51-22.8	TC03-220-XP25	84	165	TC05-220-XP25	129	205	TC08-220-XP25	196	275			M3.5*12	T15
22.81-23.8	TC03-230-XP25	81	165	TC05-230-XP25	134	215	TC08-230-XP25	205	285				
23.81-24.8	TC03-240-XP32	91	175	TC05-240-XP32	140	225	TC08-240-XP32	213	300	60	32		
24.81-25.8	TC03-250-XP32	93	175	TC05-250-XP32	145	230	TC08-250-XP32	222	305			M4.0*14	
25.81-26.8	TC03-260-XP32	97	180	TC05-260-XP32	151	235	TC08-260-XP32	230	315				
26.81-27.8	TC03-270-XP32	99	180	TC05-270-XP32	156	245	TC08-270-XP32	239	325				
27.81-28.8	TCO3-280-XP32	102	185	TC05-280-XP32	162	245	TC08-280-XP32	247	330			M4.5*15	
28.81-29.8	TCO3-290-XP32	105	190	TC05-290-XP32	167	250	TC08-290-XP32	256	340				
29.81-30.8	TCO3-300-XP32	110	191	TC05-300-XP32	173	261	TC08-300-XP32	265	351				
30.81-32.0	TCO3-320-XP32	116	201	TC05-320-XP32	181	266	TC08-320-XP32	276	361				
32.01-33.5	TC03-330-XP32	121	206	TC05-330-XP32	191	276	TC08-330-XP32	291	376				





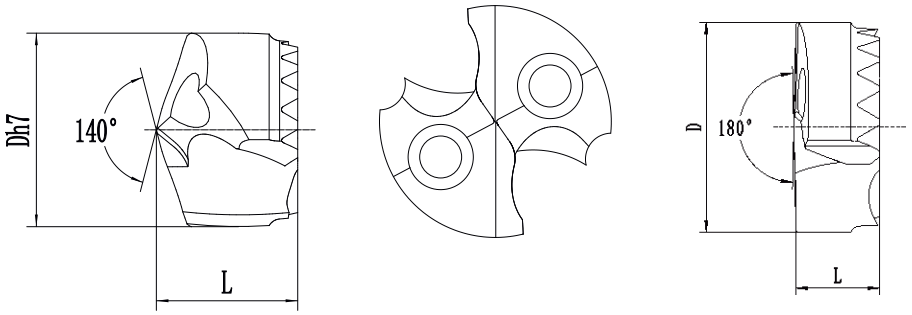
钻径 Drilling diameter	3D 规格型号 Model	3D 尺寸 Dimensions(mm) L2	3D L	5D 规格型号 Model	5D 尺寸 Dimensions(mm) L2	5D L	刀柄部可通用 The handle of the knife is interchangeable 尺寸 Dimensions(mm) L1	刀柄部可通用 D1	螺钉 screw	扳手 wrench
12.0-12.49	TC1.5-120-XP16	28	91	-	-	-	48	16	M2.2*8	T6
12.5-13.49	TC1.5-130-XP16	30	92	-	-	-				
13.5-14.5	TC1.5-140-XP16	34	96	TC12-140-XP16	171	239				
14.51-15.5	TC1.5-150-XP20	35	100	TC12-150-XP20	183	253	50	20	M2.5*9	T8
15.51-16.5	TC1.5-160-XP20	38	103	TC12-160-XP20	195	266				
16.51-17.5	TC1.5-170-XP20	39	105	TC12-170-XP20	207	278				
17.51-18.5	TC1.5-180-XP20	43	107	TC12-180-XP20	219	291				
18.51-19.5	TC1.5-190-XP25	44	115	TC12-190-XP25	232	309	56	25	M3.0*11	
19.51-20.5	TC1.5-200-XP25	47	118	TC12-200-XP25	244	321				
20.51-21.5	TC1.5-210-XP25	48	119	TC12-210-XP25	256	334				
21.51-22.8	TC1.5-220-XP25	51	121	TC12-220-XP25	268	347			M3.5*12	T15
22.81-23.8	TC1.5-230-XP25	51	122	TC12-230-XP25	280	359				
23.81-24.8	TC1.5-240-XP32	54	129	TC12-240-XP32	292	376	60	32		
24.81-25.8	TC1.5-250-XP32	54	129	TC12-250-XP32	305	388			M4.0*14	
25.81-26.8	TC1.5-260-XP32	57	132	-	-	-				
26.81-27.8	TC1.5-270-XP32	58	133	-	-	-				
27.81-28.8	TC1.5-280-XP32	60	135	-	-	-			M4.5*15	
28.81-29.9	TC1.5-290-XP32	61	136	-	-	-				
29.81-30.8	TC1.5-300-XP32	64	139	-	-	-				

剑齿钻更换到头要领
Key points for replacing sword toothed drills to the end

TCEA适用于软钢、灰钢、不锈钢、铸铁，相对于低刚性设备。
TCEA is suitable for soft steel, gray steel, stainless steel, and cast iron, relative to low rigidity equipment

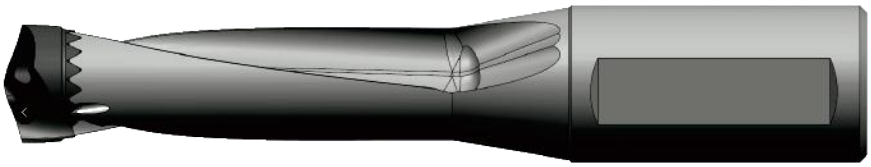
TCPA适用于一般钢材。
TCPA is suitable for general steel.

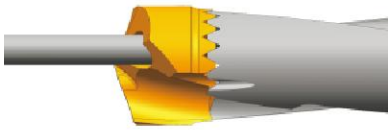
TCFA为平底钻头。
TCFA is a flat bottomed drill bit.



钻径DC Drilling diameterDC	规格型号 Model	规格型号 Model	L	规格型号 Model	L
12.0	TCEA-1200	TCPA-1200	9.1	TCFA-1200	7.1
12.5	TCEA-1250	TCPA-1250	9.4	TCFA-1250	7.2
13.0	TCEA-1300	TCPA-1300	9.7	TCFA-1300	7.5
13.5	TCEA-1350	TCPA-1350	10.3	TCFA-1350	7.9
14.0	TCEA-1400	TCPA-1400		TCFA-1400	
14.5	TCEA-1450	TCPA-1450		TCFA-1450	
15.0	TCEA-1500	TCPA-1500	11.0	TCFA-1500	8.3
15.5	TCEA-1550	TCPA-1550		TCFA-1550	
16.0	TCEA-1600	TCPA-1600	11.6	TCFA-1600	8.8
16.5	TCEA-1650	TCPA-1650		TCFA-1650	
17.0	TCEA-1700	TCPA-1700	12.3	TCFA-1700	9.3
17.5	TCEA-1750	TCPA-1750		TCFA-1750	
18.0	TCEA-1800	TCPA-1800	12.9	TCFA-1800	9.8
18.5	TCEA-1850	TCPA-1850		TCFA-1850	
19.0	TCEA-1900	TCPA-1900	13.6	TCFA-1900	10.2
19.5	TCEA-1950	TCPA-1950		TCFA-1950	
20.0	TCEA-2000	TCPA-2000	14.1	TCFA-2000	10.7
20.5	TCEA-2050	TCPA-2050		TCFA-2050	
21.0	TCEA-2100	TCPA-2100	14.8	TCFA-2100	11.2
21.5	TCEA-2150	TCPA-2150		TCFA-2150	
22.0	TCEA-2200	TCPA-2200	15.0	TCFA-2200	
22.5	TCEA-2250	TCPA-2250		TCFA-2250	
23.0	TCEA-2300	TCPA-2300	15.2	TCFA-2300	
23.5	TCEA-2350	TCPA-2350		TCFA-2350	
24.0	TCEA-2400	TCPA-2400	15.4	TCFA-2400	11.3
24.5	TCEA-2450	TCPA-2450		TCFA-2450	
25.0	TCEA-2500	TCPA-2500	15.9	TCFA-2500	11.7
25.5	TCEA-2556	TCPA-2550		TCFA-2550	
26.0	TCEA-2600	TCPA-2600	16.5	TCFA-2600	12.2
26.5	TCEA-2650	TCPA-2650		TCFA-2650	
27.0	TCEA-2700	TCPA-2700	17.2	TCFA-2700	12.7
27.5	TCEA-2750	TCPA-2750		TCFA-2750	
28.0	TCEA-2800	TCPA-2800	17.8	TCFA-2800	13.2
28.5	TCEA-2850	TCPA-2850		TCFA-2850	
29.0	TCEA-2900	TCPA-2900	18.4	TCFA-2900	13.6
29.5	TCEA-2950	TCPA-2950		TCFA-2950	
30.0	TCEA-3000	TCPA-3000	19.0	TCFA-3000	14.1
30.5	TCEA-3050	TCPA-3050		TCFA-3050	
31.0	TCEA-3100	TCPA-3100	21.0		
31.5	TCEA-3150	TCPA-3150			
32.0	TCEA-3200	TCPA-3200			
32.5	TCEA-3250	TCPA-3250			
33.0	TCEA-3300	TCPA-3300			
33.5	TCEA-3350	TCPA-3350			

剑齿钻更换到头要领
Key points for replacing sword toothed drills to the end





- 请取下已经使用磨损的刀头，用气枪吹干净刀杆和刀头连接处的异物。
- 无法用气枪穿干净的，用金属刷去除。
- 请注意，锁紧螺丝时如果扳手摇晃，刀头孔周围会发生损坏。
- 螺丝明显损耗、变形之前要马上更换。
- 锁紧螺丝时要均匀的锁紧刀头

- Please remove the worn blade and use an air gun to blow off any foreign objects at the connection between the blade and the blade.
- If it cannot be pierced clean with an air gun, use a metal brush to remove it.
- Please note that if the wrench is shaken while tightening the screw, damage may occur around the blade hole.
- Screws should be replaced immediately before they become noticeably worn or deformed.
- When tightening the screws, the blade should be evenly locked

打高倍径深孔使用要领
Key points for using high magnification deep holes

使用1.5D或3D的剑齿钻加工引导孔
Use a 1.5D or 3D sword tooth drill to machine guide holes

- 引导孔加工用1.5D或3D剑齿钻刀头使用与8倍径及以上相同型号刀头，引导孔深度H为孔径的1-1.5倍
- The 1.5D or 3D sword tooth drill bit used for guide hole processing should use the same model of tool head as 8 times the diameter or above, and the depth H of the guide hole should be 1-1.5 times the aperture

在低转速下将8倍径及以上剑齿钻刀杆+刀头插入引导孔内
Insert the blade and blade of a sword tooth drill with a diameter of 8 times or more into the guide hole at low speed

转速/speed：500r/min
进给速度/Feed Speed：1000-2000mm/min

插入到离导孔底1㎜处
Insert it 1mm away from the bottom of the guide hole

- 如果以设定的切削速度插入异孔，钻头外周跳动可能损伤钻头肩部。插入到离导孔底1㎜处
- If inserted into a different hole at the set cutting speed, the peripheral runout of the drill bit may damage the shoulder of the drill bit. Insert it 1mm away from the bottom of the guide hole

把转速提升到设定转速，开始切削进给
Increase the speed to the set speed and start cutting feed

加工后，降低转速，从被削材中拔出
After processing, reduce the rotational speed and extract from the material being cut

转速/speed：500r/min
进给速度/Feed Speed：1000-2000mm/min

- 如果在高速旋转时从孔中拔出钻头，可能由于钻头的跳动导致肩部损伤
- If the drill bit is pulled out of the hole during high-speed rotation, shoulder damage may occur due to the jumping of the drill bit

侧固式快速留芯钻
Side solid fast hollow bit



柄径40mm空心钻头-WC刀片
Hollow drill with handle diameter of 40mm WC Insert

编码 Order	型号 Model 有效长 L=50mm	编码 Order	型号 Model 有效长L=100mm	编码 Order	型号 Model 有效长L=150mm	外径 D	柄径 d	配件 Parts
505714	C40- 50WC05-50L	505735	C40- 50WC05-100L	505756	C40- 50WC05-150L	50		
505715	53WC05-50L	505736	53WC05-100L	505757	53WC05-150L	53		
505716	55WC05-50L	505737	55WC05-100L	505758	55WC05-150L	55		
505717	60WC05-50L	505738	60WC05-100L	505759	60WC05-150L	60		
505718	62WC05-50L	505739	62WC05-100L	505760	62WC05-150L	62		
505719	64WC05-50L	505740	64WC05-100L	505761	64WC05-150L	64		
505720	66WC05-50L	505741	66WC05-100L	505762	66WC05-150L	66		
505721	68WC05-50L	505742	68WC05-100L	505763	68WC05-150L	68		WCMX
505722	70WC05-50L	505743	70WC05-100L	505764	70WC05-150L	70		0503..
505723	73WC05-50L	505744	73WC05-100L	505765	73WC05-150L	73		
505724	75WC05-50L	505745	75WC05-100L	505766	75WC05-150L	75	40mm	M3.0x7
505725	78WC05-50L	505746	78WC05-100L	505767	78WC05-150L	78		
505726	80WC05-50L	505747	80WC05-100L	505768	80WC05-150L	80		T10
505727	82WC05-50L	505748	82WC05-100L	505769	82WC05-150L	82		
505728	85WC05-50L	505749	85WC05-100L	505770	85WC05-150L	85		
505729	87WC05-50L	505750	87WC05-100L	505771	87WC05-150L	87		
505730	90WC05-50L	505751	90WC05-100L	505772	90WC05-150L	90		
505731	92WC05-50L	505752	92WC05-100L	505773	92WC05-150L	92		
505732	95WC05-50L	505753	95WC05-100L	505774	95WC05-150L	95		
505733	97WC05-50L	505754	97WC05-100L	505775	97WC05-150L	97		
505734	100WC05-50L	505755	100WC05-100L	505776	100WC05-150L	100		

柄径50mm空心钻头-WC刀片
Hollow drill with handle diameter of 50mm WC Insert

编码 Order	型号 Model 有效长 L=50mm	编码 Order	型号 Model 有效长L=100mm	编码 Order	型号 Model 有效长L=150mm	外径 D	柄径 d	配件 Parts
505777	C50- 50WC05-50L	505798	C50- 50WC05-100L	505819	C50- 50WC05-150L	50		
505778	53WC05-50L	505799	53WC05-100L	505820	53WC05-150L	53		
505779	55WC05-50L	505800	55WC05-100L	505821	55WC05-150L	55		
505780	60WC05-50L	505801	60WC05-100L	505822	60WC05-150L	60		
505781	62WC05-50L	505802	62WC05-100L	505823	62WC05-150L	62		
505782	64WC05-50L	505803	64WC05-100L	505824	64WC05-150L	64		
505783	66WC05-50L	505804	66WC05-100L	505825	66WC05-150L	66		
505784	68WC05-50L	505805	68WC05-100L	505826	68WC05-150L	68		WCMX
505785	70WC05-50L	505806	70WC05-100L	505827	70WC05-150L	70		0503..
505786	73WC05-50L	505807	73WC05-100L	505828	73WC05-150L	73		
505787	75WC05-50L	505808	75WC05-100L	505829	75WC05-150L	75	50mm	M3.0x7
505788	78WC05-50L	505809	78WC05-100L	505830	78WC05-150L	78		
505789	80WC05-50L	505810	80WC05-100L	505831	80WC05-150L	80		T10
505790	82WC05-50L	505811	82WC05-100L	505832	82WC05-150L	82		
505791	85WC05-50L	505812	85WC05-100L	505833	85WC05-150L	85		
505792	87WC05-50L	505813	87WC05-100L	505834	87WC05-150L	87		
505793	90WC05-50L	505814	90WC05-100L	505835	90WC05-150L	90		
505794	92WC05-50L	505815	92WC05-100L	505836	92WC05-150L	92		
505795	95WC05-50L	505816	95WC05-100L	505837	95WC05-150L	95		
505796	97WC05-50L	505817	97WC05-100L	505838	97WC05-150L	97		
505797	100WC05-50L	505818	100WC05-100L	505839	100WC05-150L	100		

BT50空心钻头-WC刀片
Hollow drill with BT50- WC Insert

编码 Order	型号 Model 有效长L=200mm	编码 Order	型号 Model 有效长L=250mm	外径 D	刀片 Inserts	螺丝 Screw	扳手 Wrench
505840	BT50- 55WC05-200L	505881	BT50- 55WC05-250L	55			
505841	58WC05-200L	505882	58WC05-250L	58			
505842	60WC05-200L	505883	60WC05-250L	60			
505843	62WC05-200L	505884	62WC05-250L	62			
505844	65WC05-200L	505885	65WC05-250L	65			
505845	68WC05-200L	505886	68WC05-250L	68			
505846	70WC05-200L	505887	70WC05-250L	70			
505847	75WC05-200L	505888	75WC05-250L	75			
505848	78WC05-200L	505889	78WC05-250L	78			
505849	80WC05-200L	505890	80WC05-250L	80	WCMX 0503..	M3.0x7	T10
505850	85WC05-200L	505891	85WC05-250L	85			
505851	88WC05-200L	505892	88WC05-250L	88			
505852	90WC05-200L	505893	90WC05-250L	90			
505853	93WC05-200L	505894	93WC05-250L	93			
505854	96WC05-200L	505895	96WC05-250L	96			
505855	98WC05-200L	505896	98WC05-250L	98			
505856	100WC05-200L	505897	100WC05-250L	100			
505857	103WC05-200L	505898	103WC05-250L	103			
505858	105WC05-200L	505899	105WC05-250L	105			
505859	108WC05-200L	505900	108WC05-250L	108			
505860	110WC05-200L	505901	110WC05-250L	110			
505861	115WC05-200L	505902	115WC05-250L	115			
505862	BT50- 120WC06-200L	505903	120WC06-250L	120			
505863	125WC06-200L	505904	125WC06-250L	125			
505864	130WC06-200L	505905	130WC06-250L	130			
505865	135WC06-200L	505906	135WC06-250L	135			
505866	140WC06-200L	505907	BT50- 140WC06-250L	140			
505867	145WC06-200L	505908	145WC06-250L	145			
505868	150WC06-200L	505909	150WC06-250L	150			
505869	155WC06-200L	505910	155WC06-250L	155			
505870	160WC06-200L	505911	160WC06-250L	160			
505871	165WC06-200L	505912	165WC06-250L	165	WCMX 06T3..	M3.5x8	T15
505872	170WC06-200L	505913	170WC06-250L	170			
505873	175WC06-200L	505914	175WC06-250L	175			
505874	180WC06-200L	505915	180WC06-250L	180			
505875	185WC06-200L	505916	185WC06-250L	185			
505876	190WC06-200L	505917	190WC06-250L	190			
505877	195WC06-200L	505918	195WC06-250L	195			
505878	200WC06-200L	505919	200WC06-250L	200			
505879	210WC06-200L	505920	210WC06-250L	210			
505880	220WC06-200L	505921	220WC06-250L	220			

中心给水型
Central water supply type



中心给水可自动换刀型
Automatic tool change for central water supply



油路刀柄型
Toolholder type of oil way



多功能钻杆 Multi function drill pipe

1.车削、镗削、钻削功能，使用一种刀杆加工
2.节约安装时间，缩短节拍
3.减少刀具使用效果，节约刀具成本

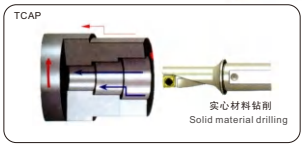
1. Turning, boring and drilling functions, using a kind of tool bar processing
2. Save installation time and shorten beat
3. Reduce the tool use effect and save the tool cost

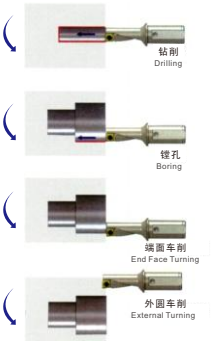
传统方式 Traditional way

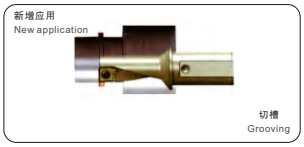


应用 Application

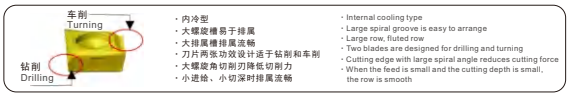




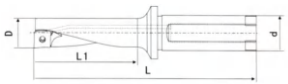




特点 Characteristic





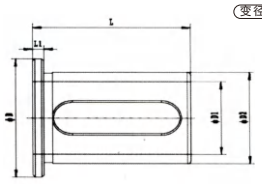


Order	型号 Model	D	d	L1	L	适用刀片 Applicable t0 insert	螺丝 screw	扳手 Wrench	Price
505100	TCAP-08R/L-3.0DN	8	12	24	75	XCMT 04 01 04	M1.8×3.5	T6	1875
505102	TCAP-09R/L-3.0DN	9	12	27	83	XCMT 05 02 04	M2×5	T6	1875
505104	TCAP-10R/L-3.0DN	10	12	30	85	XCMT 05 02 04	M2×5	T6	1875
505106	TCAP-11R/L-3.0DN	11	16	33	92	XCMT 06 02 04	M2.2×5	T6	1875
505108	TCAP-12R/L-3.0DN	12	16	36	95	XCMT 06 02 04	M2.2×5	T6	1875
505110	TCAP-13R/L-3.0DN	13	16	39	100	XCMT 07 03 04	M2.5×6.5	T8	1875
505112	TCAP-14R/L-3.0DN	14	16	42	101	XCMT 07 03 04	M2.5×6.5	T8	1875
505114	TCAP-08R/L-2.25DN	8	12	18	69	XCMT 04 01 04	M1.8×3.5	T6	1875
505116	TCAP-09R/L-2.25DN	9	12	20.5	76	XCMT 05 02 04	M2×5	T6	1875
505118	TCAP-10R/L-2.25DN	10	12	22.5	78	XCMT 05 02 04	M2×5	T6	1875
505120	TCAP-11R/L-2.25DN	11	16	25	84	XCMT 06 02 04	M2.2×5	T6	1875
505122	TCAP-12R/L-2.25DN	12	16	27	86	XCMT 06 02 04	M2.2×5	T6	1875
505124	TCAP-13R/L-2.25DN	13	16	29.5	91	XCMT 07 03 04	M2.5×6.5	T8	1875
505126	TCAP-14R/L-2.25DN	14	16	31.5	91	XCMT 07 03 04	M2.5×6.5	T8	1875

变径套

(变径套)

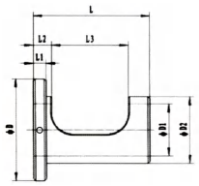




Order	型号	尺寸(mm)					Price
		D	D1	D2	L	L1	
505200	BJT-322062	20	49	32	62	5	500
505202	BJT-322562	25	49	32	62	5	500
505204	BJT-402065	20	58	40	65	6	625
505206	BJT-402565	25	58	40	65	6	625
505208	BJT-403265	32	58	40	65	6	625
505210	BJT-502572	25	65	50	70	6	750
505212	BJT-503272	32	65	50	70	6	750
505214	BJT-504072	40	65	50	70	6	750

偏心套





(偏心套)

Order	型号	尺寸(mm)							加工直径 调整范围内	中心高 调整范围	Price
		ØD1	ØD2	ØD	L	L1	L2	L3			
505300	2025-43	20	25	41	47	6	11	33	+0.4-0.2	+0.2-0.15	1250
505302	2532-48	25	32	49	60	6	11	45	+0.4-0.2	+0.2-0.15	1250
505304	3240-53	32	40	58	65	6	11	50	+0.4-0 2	+0.2-0.15	1563
505306	4050-63	40	50	68	76	6	11	61	+0.6-0.2	+0.2-0.2	1750

快速钻头倒角环

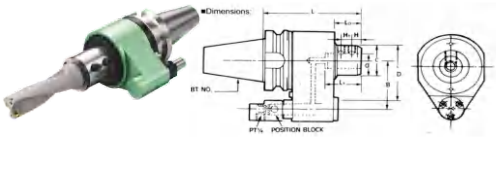
Quick bit chamfering ring

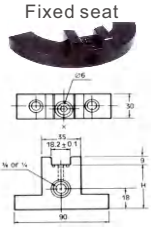


编码 Order	型号 Model	范围 Range	刀片 Inserts	螺丝 Screw	扳手 Wrench
505922	ACH 31	32-60	TCMT 16T3..	M3.5x7	T15
505923	42	44-80			
505924	58	63-90			
505925	72	83-200			

油路刀柄 Oil way Toolholder

固定座 Fixed seat





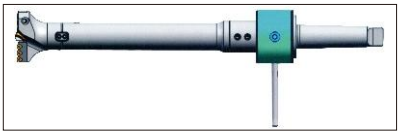
Order	型 号	d	L	B	c	D	LO	L1	H	L3	Price
505400	BT40-OSL32-155	32	155	60/65	53	90	50	60	15	15	
505402	BT40-OSL40-155	40	155	60/65	70	90	50	70	19	18	
505404	BT50-OSL32-160	32	160	80/82	54	100	50	60	15	15	
505406	BT50-OSL40-160	40	160	80/82	64	100	50	70	19	18	



莫氏柄安装示意图
Installation diagram of MTA

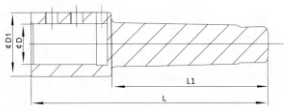


BT柄安装示意图
BT installation diagram



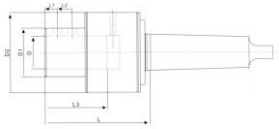
莫氏转换柄 Morse transfer Toolholder





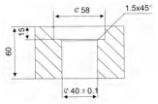
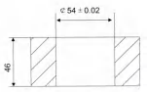
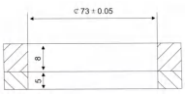
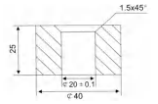
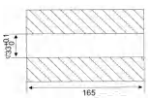
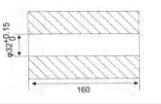
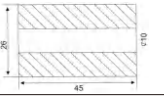
Order	型 号	D	D1	L	L1	Price
505500	DIN228-B-32-MTA4	32	64	204	124	1438
505502	DIN228-B-40-MTA4	40	64	204	124	1438
505504	DIN228-B-32-MTA5	32	64	204	156	1563
505506	DIN228-B-40-MTA5	40	64	204	156	1563
505508	DIN228-B-32-MTA6	32	64	303	218	1875
505510	DIN228-B-40-MTA6	40	64	303	218	1875
505512	DIN228-B-50-MTA6	50	74	303	218	2188





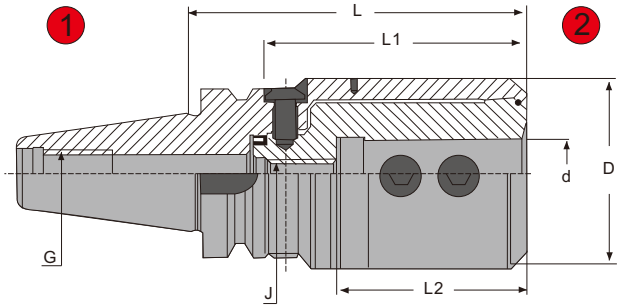
Order	型 号	D	D1	D2	L	L1	L2	L3	Price
505600	MT5-YLDB-32	32	55	92	127	15	18	60	5000
505602	MT5-YLDB-40	40	60	98	127	15	18	65	5313
505604	MT6-YLDB-32	32	55	92	127	15	18	60	5625
505606	MT6-YLDB-40	40	60	98	127	15	18	65	5625
505608	MT6-YLDB-50	50	70	108	127	15	18	70	5938

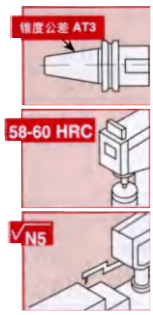
复合刀具成功案例

刀具实物 Product	图纸要求 Drawings	explain
		打眼、倒角、沉孔三个工序集中在一把刀上面，一气呵成 Three process,boring, chamfer,counterbore concentrates in one tool.
		打眼后通过小刀夹精镗确保尺寸精度 After boring,through clamp finishing boring to ensure dimensional accuracy.
		优化刀片角度，使之能打叠加板，随后小刀夹精镗尺寸。 Optimizing insert angle to play overlay board,then clamp finishing boring dimension.
		打眼、倒角、镗平面高效、快捷。莫氏连接柄，可在立钻，普车尾架等工作 Efficiently and conveniently boring,chamfer,spot facing. With Morse shank,and work in vertical Drill,tailstock,etc..
		风力发电轴承孔专用钻杆，物殊排屑槽，对称双刀刃，针对性优化设计，42CrMo, HB280, S1000，F200，低转速，高进给，低磨损，高效率 Wind power bearing bore dedicate holder,special chip-breaker, symmetical double blade,targeted and optimized desing,42CrMo, HB280,S1000,F200,low speed,high feed,low wear,high efficiency.
		游艇玻璃钢打眼专用。物殊材质，双吹气设计，产品尺寸稳定不变形 Dedicated boring for yacht FRP. Special material,designed in double blow,product dimension for stability,no deformation.
		组合式结构，配合普通麻花钻，角决小孔的复合刀问题 Modular structure match twish Drill to the problem of compound tool of keyhole.

*备注：所有所列复合刀具，均实际生产使用过。

带直径调整机构刀体
Tool body with diameter adjustment mechanism



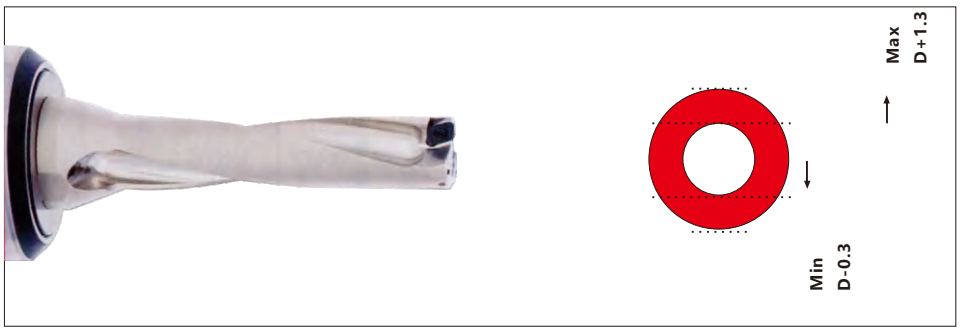


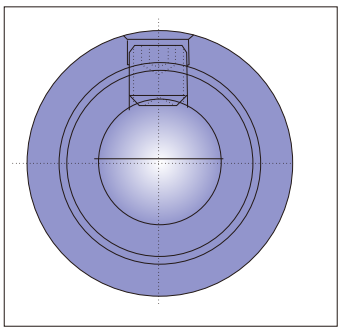
1 BT MAS 403 Form A/B
2 ISO 9766

BORE BT-EM带钻孔加工直径调整机构刀体 Tool body with diameter adjustment mechanism

型号 Model	d	D	L	L1	L2	J	G
FITBORE BT40 EM16	16	72	123.5	96.5	71	M10	M16
FITBORE BT40 EM20	20	72	123.5	96.5	71	M10	M16
FITBORE BT40 EM25	25	72	123.5	96.5	71	M10	M16
FITBORE BT40 EM32	32	72	123.5	96.5	71	M10	M16
FITBORE BT40 EM40	40	72	123.5	96.5	71	M10	M16
FITBORE BT50 EM16	16	72	134.5	96.5	71	M10	M24
FITBORE BT50 EM20	20	72	134.5	96.5	71	M10	M24
FITBORE BT50 EM25	25	72	134.5	96.5	71	M10	M24
FITBORE BT50 EM32	32	72	134.5	96.5	71	M10	M24
FITBORE BT50 EM40	40	72	134.5	96.5	71	M10	M24

法兰通孔式刀体请在型号的末尾加B。Please add B at the end of the type for the flange hole cutter body



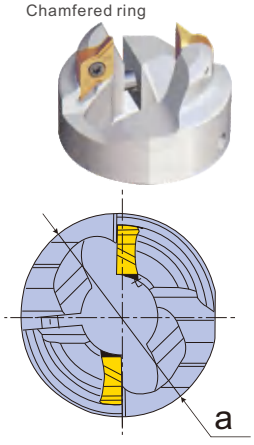


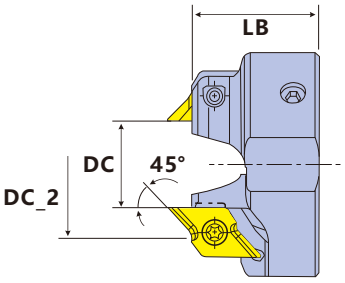
夹具孔的部分由2个圆形剖面构成，紧固螺钉穿过钻头・刀柄使内侧的剖面部分发生强制弹性变形。由此形成周围超过180°的接触面得到极大的的紧固力。

The part of the fixture hole is composed of two circular sections, and the fastening screw passes through the drill bit and tool handle to make the inner section part Forced elastic deformation occurs. From this, a contact surface exceeding 180 ° around is formed, resulting in significant tightening force.

Order	型号 model	尺寸/size(mm) DC	DC_2	a	LB	倒角尺寸 Chamfer Dimension	Price
	D100-A45	9.8	16. 56	34	20	2.5	
	D105-A45	10.3	17. 06	34	20	2.5	
	D110-A45	10.8	17. 56	34	20	2.5	
	D115-A45	11.3	18. 03	34	20	2.5	
	D120-A45	11.8	18. 56	34	20	2.5	
	D125-A45	12.3	19. 06	34	20	2.5	
	D130-A45	12.8	19. 56	34	20	2.5	
	D135-A45	13.3	20. 06	34	20	2.5	
	D140-A45	13.8	20. 56	38	22	2.5	
	D145-A45	14.3	21. 06	38	22	2.5	
	D150-A45	14.6	21. 36	38	22	2.5	
	D160-A45	15.6	22. 36	42	23	2.5	
	D170-A45	16.6	23. 36	42	23	2.5	
	D180-A45	17.6	24. 36	42	23	2.5	
	D190-A45	18.6	25. 36	42	24	2.5	
	D200-A45	19.6	26. 36	42	24	2.5	
	D210-A45	20.6	27. 36	47	24	2.5	
	D220-A45	21.6	28. 36	47	24	2.5	
	D230-A45	22.6	29. 36	47	24	2.5	
	D240-A45	23.6	30. 36	47	24	2.5	
	D250-A45	24.6	31. 36	47	24	2.5	

倒角环
Chamfered ring





EZ导套
EZ guide sleeve

遇下列情况时使用When used in the following situations

使用机床加工中心进行加工时加工直径的调整
Adjusting the machining diameter when using a machine tool machining center for machining

机床加工中心
使用TDX钻头进行刀具钻削时
想对加工直径进行微调。
Machine tool machining center
When using a TDX drill bit for tool drilling, it is necessary to fine tune the machining diameter.



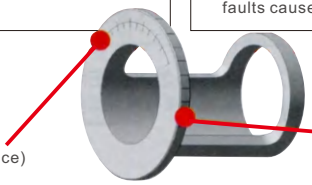
使用「EZ导套」能在最大+0.6～-0.2 mm
的范围内调整加工直径。
The use of "EZ guide sleeve" can adjust the machining diameter within a maximum range of+0.6~-0.2 mm.

车床的中心高调整
Center height adjustment of the lathe

车床等
使用TDX钻头进行被加工材料钻削时,
想调整中心高。
Lathe, etc
When using a TDX drill bit to drill the processed material, you want to adjust the center height.



使用「EZ导套」能在最大+0.3 ~-0.2 mm的范围内
调整中心高,因此能解除因中心高影响引起的故障。
The use of "EZ guide sleeve" can adjust the center height within a maximum range of+0.3~-0.2 mm, thus eliminating faults caused by the influence of center height.



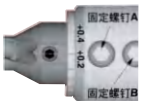
车削用
中心高调整刻度(端面)
For turning
Center height adjustment scale (end face)

铣削用
加工直径调整刻度(侧面)
For milling
Machining diameter adjustment scale (side)

如右图所示,在钻头刀杆部和刀体之间
安装「EZ导套」。
As shown in the right figure, between the drill bit shank and the tool bodyInstall the "EZ guide sleeve".



在钻头凸缘部的前面中心,对照「EZ导套」侧面
上的刻度。右图加工直径正设置增加0.4 mm
At the front center of the drill bit flange, refer to the scale on the side of the "EZ guide sleeve". The machining diameter in the right figure is set to increase by 0.4 mm



如右图所示,在钻头刀杆部和刀体之间
安装「EZ导套」。
As shown in the right figure, between the drill bit shank and the tool bodyInstall the "EZ guide sleeve".



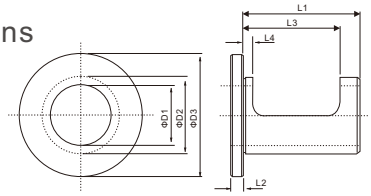
在钻头凸缘部的前面中心,对照「EZ导套」
端面上的刻度。右图钻头中心正设置向+
字方向移动0.1 mm。
At the front center of the drill bit flange, refer to the scale on the side of the "EZ guide sleeve". The machining diameter in the right figure is set to increase by 0.1 mm



刻度对应时　将附件扳手插入「EZ导套」侧面的孔中　让导套旋转。
对好刻度后　紧固钻头侧附近的固定螺钉A。请轻轻紧固固定螺钉B　防止导套旋转。

(注)
- 刻度只是参考目标。使用时请确认实际测定加工直径。特别是在调整车床中心高时,在调整的同时加工直径也随之变化请通过试加工等进行确认。
- 使用机床加工中心进行加工时，请使用钻头用侧锁式刀体。不能使用弹簧式刀体和铣刀杆。
- 在L/D=4以上的钻头组合及调整量大时，加工中的振动会变大，请降低进给量。
- 加工直径过分向负方向调整时，会发生钻头本体干扰加工孔的现象。向负方向调整时，请采用加工直径大于标称直铁时的微调整。

规格
specifications



型号 Model	库存 inventory	ΦD1	ΦD2	ΦD3	L1	L2	L3	L4	加工直径 调整范围 Adjustment range machining diameter	中心调整范围 Center adjustment range
EZ2025	●	20	25	46	49	5	32.5	4	+0.4~0.2	+0.2 -0.15
EZ2532	●	25	32	51	52	5	38	4	+0.4~0.2	+0.2 -0.15
EZ3240	●	32	40	54	62	5	43	4	+0.4~0.2	+0.2 -0.15
EZ4050	●	40	40	69	63	5	55	4	+0.6~0.2	+0.3 -0.2

※请对应TDX钻头的ΦDs和EZ导套的ΦD1进行选择。
※ Please correspond to the TDX drill bit Φ Ds and EZ guide sleeves Φ D1 for selection.

TDX型TAC钻头的使用注意事项
Precautions for using TDX type TAC drill bits

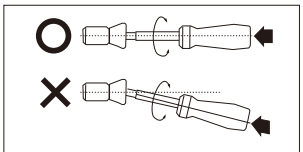
- 请使用刚性马力大的机床。
- 叠板加工时会导致刀具破损请不要使用。
- 加工时旋转工件时请与钻头中心吻合一致。
- Please use a machine tool with high rigid horsepower.
- Do not use tools that may be damaged during plate stacking processing.
- When rotating the workpiece during processing, please align it with the center of the drill bit.

切削液的使用注意事项
Precautions for using cutting fluid

- 必须从刀具内部供给切削液。
- 请使用水溶性乳化型切削液。
- 切削液压力必须在1 MPa以上,供液量在7Q/min左右。4D,
5D型切削液推荐在切削液压力1.5 MPa,供液量10 g/min以上的条件下使用。
- Cutting fluid must be supplied from inside the tool.
- Please use water-soluble emulsified cutting fluid.
- The cutting fluid pressure must be above 1 MPa, and the supply volume should be around 7Q/min. 4D, The 5D cutting fluid is recommended to be used under cutting fluid pressure of 1.5 MPa and a supply volume of 10 g/min or more.

刀片装卸时的注意事项安装刀片前,要除去刀片座上的杂物。
Precautions during blade loading and unloading: Before installing the blade, remove any debris from the blade holder.

- 使用扳手时，要将螺钉轴与螺钉前进方向保持一致,按住螺钉头部操作。扳手轴倾斜时,扳手前端为圆形时,有时可能取不下刀片。(右图)
- 安装刀片时注意不要使刀片底面与钻头本体上的刀片座底面之间存在间隙。
- 长期使用后，损坏及变形明显的螺钉,请尽量更换。(面)
- When using a wrench, keep the screw axis in the same direction as the screw's forward direction and press and hold the screw head for operation. When the wrench shaft is tilted and the front end of the wrench is circular, sometimes the blade may not be removed. (Right image)
- When installing the blade, be careful not to create a gap between the bottom surface of the blade and the bottom surface of the blade seat on the drill bit body.
- After long-term use, screws that are significantly damaged or deformed should be replaced as much as possible. (Face)



螺丝刀的使用方法

快速钻头规格型号命名规则

ZD	03	30.0	XP	32	W	C	05

刀具类型	
代号	说明
ZD	浅孔钻

长径比
02,03,04,05

刀杆直径	
范围	14.0-60.0
	16mm-58mm

刀具类型	
代号	说明
XP	削平钻

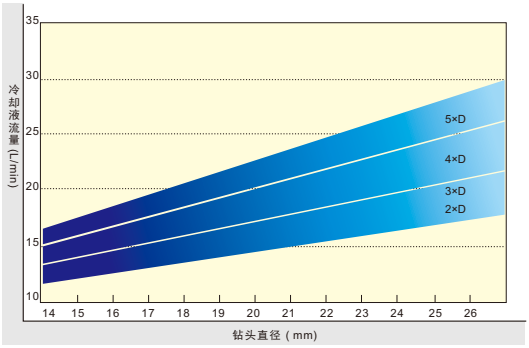
刀具安装部位尺寸(mm)
20,25,32,40

刀具形状	
W	⬡
S	□

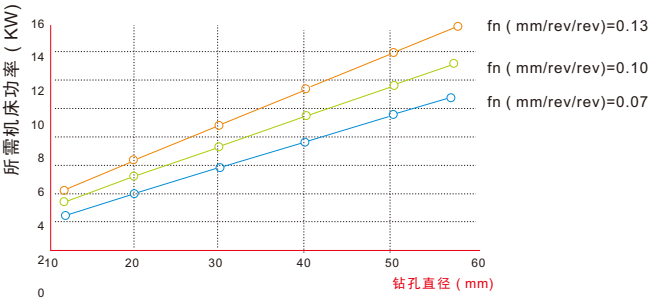
刀片后角	
C	7°
D	15°
P	11°

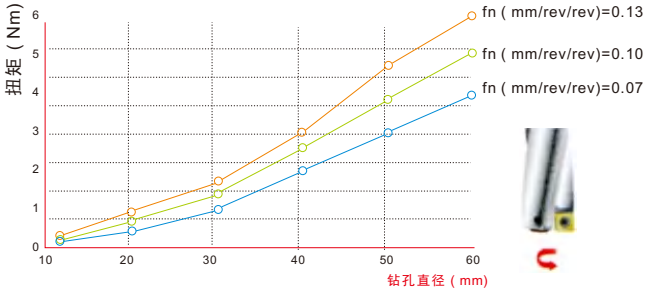
刀片后角		
代号	刃长	
	W	S
03	3.8	-
04	4.3	-
05	5.4	-
06	6.5	6.35
08	8.7	8.0
09	-	9.925
12	-	12.7

冷却液流量 （L/min）



加工功率要求





快速钻头切削数据参考表

快钻直径 Diameter	材质 Material	转速 RPM	2D切削速 2×D Feeding	3D切削速 3×D Feeding	4D切削速 4×D Feeding	5D切削速 5×D Feeding	材质 Material
14-17	一般钢 Steel	2500-2300	Lathe F0.06-0.07 Machine F150-180	Lathe F0.06-0.07 Machine F150-180	Lathe F0.05-0.06 Machine F130-150	Lathe F0.05-0.06 Machine F130-150	特殊钢转速降低20%-30% Special Material rpm Redice 20%-30%
18-20		2300-2100	Lathe F0.085-0.10 Machine F180-200	Lathe F0.085-0.10 Machine F180-200	Lathe F0.06-0.07 Machine F150-170	Lathe F0.06-0.07 Machine F150-170	
21-23		2100-1900	Lathe F0.085-0.10 Machine F180-200	Lathe F0.085-0.10 Machine F180-200	Lathe F0.06-0.07 Machine F150-170	Lathe F0.06-0.07 Machine F150-170	
24-26		1800-1700	Lathe F0.10-0.12 Machine F170-200	Lathe F0.10-0.12 Machine F170-200	Lathe F0.09-0.11 Machine F160-190	Lathe F0.08-0.09 Machine F150-180	
27-29		1600-1500	Lathe F0.10-0.13 Machine F160-200	Lathe F0.10-0.13 Machine F160-200	Lathe F0.10-0.12 Machine F160-180	Lathe F0.09-0.11 Machine F140-160	
30-32		1500-1400	Lathe F0.10-0.13 Machine F150-180	Lathe F0.10-0.13 Machine F150-180	Lathe F0.10-0.12 Machine F140-170	Lathe F0.09-0.11 Machine F130-150	
33-35		1400-1300	Lathe F0.10-0.13 Machine F130-160	Lathe F0.10-0.13 Machine F140-170	Lathe F0.10-0.12 Machine F130-160	Lathe F0.10-0.12 Machine F130-160	
36-38		1300-1200	Lathe F0.10-0.13 Machine F120-150	Lathe F0.10-0.13 Machine F130-150	Lathe F0.10-0.12 Machine F120-150	Lathe F0.09-0.11 Machine F110-130	
39-41		1200-1100	Lathe F0.10-0.13 Machine F110-140	Lathe F0.10-0.13 Machine F110-140	Lathe F0.10-0.12 Machine F110-130	Lathe F0.09-0.11 Machine F100-120	
42-44		1100-1000	Lathe F0.11-0.14 Machine F105-135	Lathe F0.11-0.13 Machine F105-135	Lathe F0.10-0.12 Machine F95-120	Lathe F0.09-0.11 Machine F90-110	
45-47		1000-950	Lathe F0.11-0.14 Machine F100-130	Lathe F0.10-0.13 Machine F100-120	Lathe F0.10-0.12 Machine F90-110	Lathe F0.09-0.11 Machine F80-100	
48-50		950-900	Lathe F0.11-0.14 Machine F95-120	Lathe F0.10-0.13 Machine F90-110	Lathe F0.10-0.12 Machine F85-105	Lathe F0.09-0.11 Machine F75-95	
51-53		900-850	Lathe F0.11-0.14 Machine F95-110	Lathe F0.10-0.13 Machine F80-100	Lathe F0.10-0.12 Machine F80-100	Lathe F0.09-0.11 Machine F70-85	
54-56		850-800	Lathe F0.11-0.14 Machine F85-105	Lathe F0.10-0.13 Machine F75-95	Lathe F0.10-0.12 Machine F75-95	Lathe F0.09-0.11 Machine F65-80	
57-60		800-750	Lathe F0.11-0.14 Machine F80-100	Lathe F0.10-0.13 Machine F70-90	Lathe F0.10-0.12 Machine F70-90	Lathe F0.09-0.11 Machine F60-75	

快速钻相关参数计算方法

钻头钻速

$$S=\frac{Vc\times1000}{\pi\times Dc}$$

Vc(m/min):线速度
Dc(mm):钻头
S(rev/min):转速

实例
刀片线速度120 m/min，钻头直径为Ø20mm，其钻头转速：$S=\frac{120\times1000}{3.14\times20}=1900$ rev/min

进给速度

$$Vf=Fr\times S$$

进给速度
Vf(mm/min):进给速度
Fr(mm/rev):每转进给量
S(rev/min):主轴转速

实例
主轴转速度1900 rev/min,每转进给量为0.1mm/rev,进给速度：Vf=Fr×S=1900×0.1=190 mm/min

孔加工时间

$$Tc=\frac{H\times i}{S\times f}\times60$$

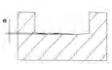
Tc(s):加工时间(秒)
S(rev/min):主轴转速
H(mm):钻孔深
f(mm/rev):每转进给量
i:被加工孔的数量

实例
钻1个15mm的孔，深30mm，切削线速度80 m/min，每转进给0.11mm，求加工时间

$S=\frac{80\times1000}{3.14\times15}=1698.5$ rev/min　$Tc=\frac{30\times1\times60}{1698.5\times0.11}=9.63$ s 秒

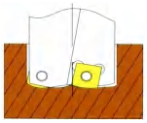
盲孔底面尺寸说明

blind substrate dimension instruction



刀片规格	波浪高度a
SPMG050204	0.30mm
SPMG060204	0.40mm
SPMG07T308	0.50mm
SPMG090408	0.70mm
SPMG0110408	0.80mm
SPMG140512	0.90mm

四边形刀片浅孔钻

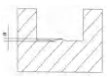


盲孔底面尺寸说明

blind substrate dimensi0n instructi0n

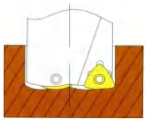


刀片规格	波浪高度a
WCMX030208	0.50mm
WCMX040208	0.60mm
WCMX050308	0.80mm
WCMX060308	0.95mm
WCMX080412	1.25mm

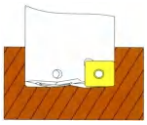


刀片规格	波浪高度a
WCMX030208	0.40mm
SPMG050204	
WCMX030208	0.40mm
SPMG060204	
WCMX040208	0.50mm
SPMG060204	
WCMX050308	0.70mm
SPMG070308	
WCMX050308	0.70mm
SPMG090408	
WCMX060308	0.90mm
SPMG110408	
WCMX080412	1.20mm
SPMG140512	

等边不等角六边形刀片浅孔钻



四边形和六边形组合刀片浅孔钻



QD系列快速钻头推荐的切削参数 QD.. Type Technical Information

被加工材料 materials		条件 Heat Treatment	拉伸力 (N/mm2) drawing force	布式硬度 (HB) hardness	切削速度 Vc(m/min) cutting speed	进给(mm/rev) Feed rete(mm/rev) D 10	D= 10-11.9	D= 12-13.9	D= 14-15.9	D= 16-19.9	D= 20-25.9
非合金钢 Unalloyed steel	<0.25%C	退火 Annealed	420	125	80~140						
	>=0.25%C	退火 Annealed	650	190	80~130	0.12	0.15	0.18	0.20	0.25	0.25
铸铁 Cast Iron	<0.55%C	退火和调质 Annealed And Tempering	850	250	80~20	0.17	0.21	0.24	0.27	0.35	0.35
	>=0.55%C	退火 Annealed	750	220	70~110	0.22	0.28	0.30	0.35	0.45	0.45
易切削钢 Free Cutting Steel		退火和调质 Annealed And Tempering	1000	300	50~90						
低碳合金钢 Low Carbon Steel		退火 Annealed	600	200	70~120	0.12	0.14	0.16	0.18	0.23	0.25
铸钢(合金成分低于5%) Cast Iron (alloy Compostion<5%)		退火和调质 Annealed And Tempering	930	275	70~110	0.18	0.21	0.24	0.26	0.31	0.35
			1000	300	50~90	0.25	0.28	0.32	0.35	0.40	0.45
			1200	350	40~70						
高合金钢, 铸钢 High Alloy Steel , Cast Iron		退火Annealed	680	200	50~90	0.12	0.12	0.15	0.18	0.20	0.22
工具钢 Tool Steel		退火和调质 Annealed And Tempering	1100	325	40~80	0.16	0.17	0.20	0.23	0.25	0.27
不锈钢, 铸钢 Steelness Steel Cast Iron		铁素体/马氏体 Ferritic / Martensite	680	200	40~70	0.20	0.22	0.25	0.28	0.30	0.33
		马氏体 Martensite	820	240	40~70	0.10	0.12	0.14	0.16	0.16	0.18
		奥氏体 Austenitic	600	180	30~70	0.12	0.15	0.17	0.20	0.21	0.24
灰铸钢(GG) Gray Cast Iron		铁素体 Ferritic		160	90~160						
		珠光体 Pearlitic		250	80~140	0.15	0.18	0.20	0.24	0.26	0.30
球墨铸铁 Nodular Sg Iron		铁素体 Ferritic		180	90~180	0.15	0.20	0.25	0.30	0.35	0.34
		珠光体 Pearlitic		260	80~140	0.22	0.27	0.32	0.37	0.45	0.37
可锻造铁 Malleable Cast Iron		铁素体 Ferritic		130	90~160	0.30	0.35	0.40	0.45	0.55	0.60
		珠光体 Pearlitic		230	80~140						
锻铝合金 Cast Aluminium Alloy		未固化 Unsolidification		60	90~220						
		固化 Solidfication		100	90~220						
铸铝合金 Cast Aluminium Alloy	<=12%Si	未固化 Unsolidification		75	90~220	0.20	0.25	0.30	0.35	0.40	0.45
		固化 Solidfication		90	90~220	0.27	0.32	0.37	0.42	0.50	0.57
	<12%Si	高温处理 High Temperature Treatment		130	80~160	0.35	0.40	0.45	0.50	0.60	0.70
铜合金 Copper Alloy	>1%Pb	易切 Free Cutting		110	90~220						
		黄铜 Copper		90	90~220						
		电解铜 Cathode Copper		100	90~220						
非铁金属 Non-metalic Material		塑料纤维 Plastic Fiber									
		硬橡胶 Hard Rubber									
高温合金 High Temperature Alloys	铁基 Iron-base	退火 Annealed			30~60	0.06	0.08	0.10	0.12	0.12	0.14
		固化 Solidfication		200	20~50	0.08	0.10	0.12	0.15	0.16	0.18
	镍基或 Inckel Base	退火 Annealed		280	20~50	0.11	0.13	0.15	0.18	0.20	0.22
		固化 Solidfication		250	20~50	0.06	0.08	0.10	0.12	0.14	0.16
	钴基 Cobolt Base	Cast		350	20~50	0.09	0.11	0.14	0.16	0.18	0.20
钛, 钛合金 Titanium, titanium Alloys				320	20~50	0.12	0.15	0.18	0.20	0.22	0.25
		α、β 合金化 α+β alloys			20~50	0.06	0.08	0.10	0.12	0.14	0.16
高硬钢 Hard Steel		淬硬 Harden		55HRC	20~50	0.09	0.11	0.14	0.16	0.18	0.20
		淬硬 Harden		60HRC	20~50	0.12	0.15	0.18	0.20	0.22	0.25
冷硬铸铁 Chiled Cast Iron		铸造 Cast		400							
铸铁 Cast Iron		淬硬 Harden		55HRC							

* 如果选用超过8倍径的和无冷却水孔的刀体请降低切削速度和进给率
* Lower cutting speed and feed rate should be used for tool holders of 8D or 12D and sithout coolant

粗镗 Rough boring

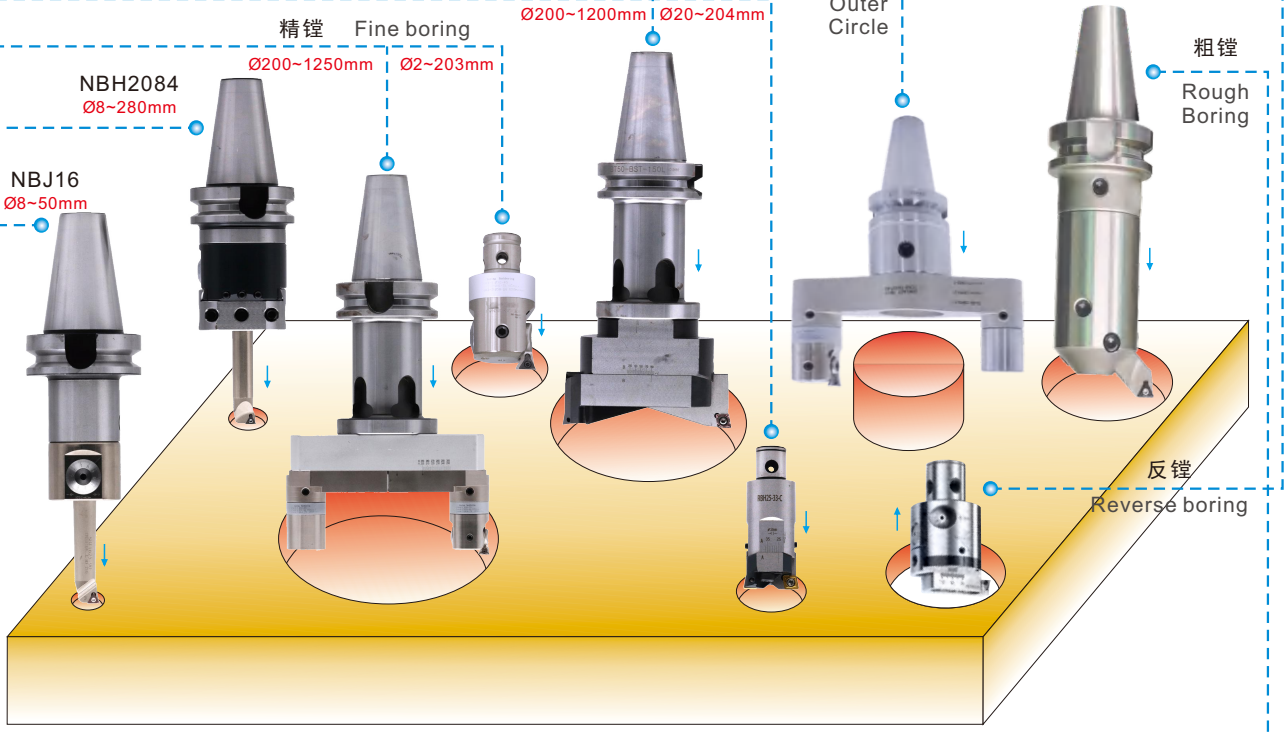
TWE 双刃粗镗	TWE 大粗镗	RBH 双刃粗镗	RBH 大粗镗	TBL粗镗刀杆	TBC粗镗刀盘
K43	K43	K44	K44	K48	K48
刀柄接口 LBK 镗孔范围20~204mm 粗镗加工	刀柄接口 BST 镗孔范围200~810mm 粗镗加工	刀柄接口 LBK 镗孔范围19~204mm 粗镗加工	刀柄接口 BST 镗孔范围200~1200mm 粗镗加工	固定式粗镗 镗孔范围8~50mm 粗镗孔加工	固定式粗镗 镗孔范围45~130mm 粗镗孔加工

镗外圆 Boring Outer Circle

CBH-M镗外圆	CBR镗外圆
K38	K38
刀柄接口 LBK 精镗范围23~107mm 精镗孔微调0.01mm	刀柄接口 LBK 精镗范围5~52mm 精镗孔微调0.01mm

反镗 Reverse boring

HBOR反镗头
K33
刀柄接口 CK 精镗范围29~160mm 精镗孔微调0.002mm



粗镗 Rough boring

TBS..30°	TBS..45°	TBS..90°	CBS..30°	CBS..45°	CBS..90°
K46 刀片TC..	K46 刀片TC..	K46 刀片TC..	K46 刀片CC..	K46 刀片CC..	K46 刀片CC..
刀杆角度 30° 镗孔范围20~190mm 粗镗加工	刀杆角度 45° 镗孔范围20~190mm 粗镗加工	刀杆角度 90° 镗孔范围20~190mm 粗镗加工	刀杆角度 30° 镗孔范围20~190mm 粗镗加工	刀杆角度 45° 镗孔范围20~190mm 粗镗加工	刀杆角度 90° 镗孔范围20~190mm 粗镗加工

BSA 粗镗	BSA..LBK..	BSB 粗镗	BSB..LBK..	SBS..30°	SBS..45°	SBS..90°
K45	K45	K45	K45	K46 刀片TP..	K46 刀片TP..	K46 刀片TP..
刀柄接口 BT柄 镗孔范围20~190mm 粗镗加工	刀柄接口 LBK 镗孔范围20~190mm 粗镗加工	刀柄接口 BT柄 镗孔范围20~190mm 粗镗加工	刀柄接口 LBK 镗孔范围20~190mm 粗镗加工	刀杆角度 30° 镗孔范围20~190mm 粗镗加工	刀杆角度 45° 镗孔范围20~190mm 粗镗加工	刀杆角度 90° 镗孔范围20~190mm 粗镗加工

精镗 Fine boring

HBOR精镗头	HBOR精镗套装	钨钢小镗刀	CBH精镗头	CBH大精镗头	CBH精镗头	SCT 可调镗杆
K33	K34-K35	K34	K37	K37	K37	K44
刀柄接口 CK 精镗范围29~160mm 精镗孔微调0.002mm	刀柄接口 CK 精镗范围2~160mm 精镗孔微调0.002mm	适配刀柄 HBOR 精镗范围2~10mm 精镗孔微调0.002mm	刀柄接口 LBK 精镗范围20~203mm 精镗孔微调0.01mm	刀柄接口 LBK 精镗范围200~1250mm 精镗孔微调0.01mm	刀柄接口 直柄 精镗范围20~42mm 精镗孔微调0.01mm	刀柄接口 直柄 镗孔范围10~50mm 半精镗加工

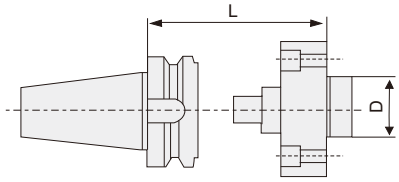
小孔精镗及套装 Small hole fine boring and suit

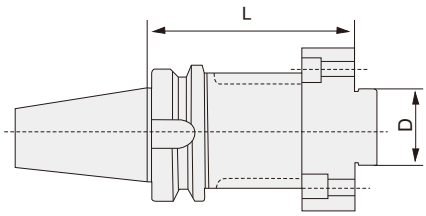
CBI小径精镗	CBI小精镗套装	BE小镗头	ST钨钢抗震杆	变径套	钨钢小镗刀	NBJ16 套装	NBH2084 套装
K39	K39	K40	K40	K40	K40	K41	K42
刀柄接口 LBK 精镗范围3~50mm 精镗孔微调0.01mm	刀柄接口 LBK 精镗范围3~50mm 精镗孔微调0.01mm	刀柄接口 ST 精镗范围9~42mm 精镗孔微调0.01mm	刀柄接口 直柄 精镗范围9~42mm 精镗孔微调0.01mm	刀柄接口 直柄 刀具直径转换 精镗孔微调0.01mm	适配刀柄 CBI 精镗范围2~10mm 精镗孔微调0.01mm	套装 8支装 精镗范围8~50mm 精镗孔微调0.01mm	套装 8支装 精镗范围8~280mm 精镗孔微调0.01mm

BST 刀柄	NBH2084刀柄	BT-LBK刀柄	SK-LBK刀柄	HSK-LBK刀柄	直柄LBK刀柄	NT-LBK刀柄	MT-LBK刀柄	LBK等径延长杆	LBK异径延长杆	LBK倒角刀	镗孔刀夹
K30	K30	K31	K31	K31	K32	K32	K32	K32	K32	K47	K47
适配镗头 直径200mm以上镗刀 镗刀刀柄	适配镗头 NBH2084 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	适配镗头 直径200mm以下镗刀 镗刀刀柄	倒角角度 45° 倒角范围5~160mm 倒角加工	镗刀配件 各种规格 镗孔加工

NBH2084 镗头刀柄
NBH2084 Boring Cutter Toolholder



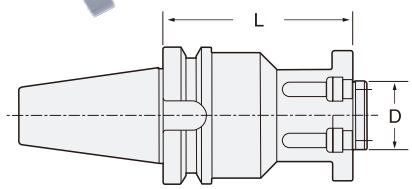




编码 Order	型号 Model	尺寸 Size (mm) D	L	单价 RMB
511000	BT30-NBH2084	35	55	600
511002	BT40-NBH2084	35	45	476
511004	BT50-NBH2084	35	55	950
511006	NT30-NBH2084	35	55	600
511008	NT40-NBH2084(5/8)	35	25	600
511010	NT40-NBH2084	35	25	600
511012	NT50-NBH2084	35	25	1200
511014	SK40-NBH2084	35	55	600
511016	SK50-NBH2084	35	55	1200
511018	BBT40-NBH2084	35	45	2501
511020	BBT50-NBH2084	35	55	3500
511022	CAT40-NBH2084	35	55	750
511024	CAT50-NBH2084	35	55	1500
511026	HSK63A-NBH2084	35	85	2501
511028	HSK100A-NBH2084	35	90	3500
511030	ISO40-NBH2084	35	45	750
511032	ISO50-NBH2084	35	55	1500
511034	C20-NBH2084	35	15	1001
511036	R8-NBH2084	35	15	600
511038	BT40-NBH2084-100L	35	100	1001
511040	BT40-NBH2084-150L	35	150	1500
511042	BT40-NBH2084-200L	35	200	2000
511044	BT40-NBH2084-250L	35	250	2501
511046	BT50-NBH2084-100L	35	100	1200
511048	BT50-NBH2084-150L	35	150	1500
511050	BT50-NBH2084-200L	35	200	2000
511052	BT50-NBH2084-250L	35	250	2501
511054	BT50-NBH2084-300L	35	300	3000
511056	MT3-NBH2084	35	15	701
511058	MT4-NBH2084	35	15	701
511060	MT5-NBH2084	35	15	851
511062	MT6-NBH2084	35	15	1100
511064	MTB3-NBH2084	35	15	701
511066	MTB4-NBH2084	35	15	701
511068	MTB5-NBH2084	35	15	851
511070	MTB6-NBH2084	35	15	1100

BST镗头刀柄
BST Boring Cutter Toolholder

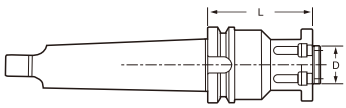




编码 Order	型号 Model	尺寸 Size (mm) D	L	单价 RMB
511072	BT40-BST-70	50	70	1100
511074	BT40-BST-100	50	100	1100
511076	BT40-BST-150	50	150	1301
511078	BT40-BST-200	50	200	1400
511080	BT50-BST-100	50	100	1100
511082	BT50-BST-150	50	150	1301
511084	BT50-BST-200	50	200	1400
511086	BT50-BST-250	50	250	1751
511088	BT50-BST-300	50	300	2000
511090	BT50-BST-350	50	350	2250
511092	BT50-BST-400	50	400	2501
511094	BT50-BST-450	50	450	3251
511096	BT50-BST-500	50	500	4001
511098	SK40-BST-100	50	100	1500
511100	SK40-BST-150	50	150	2000
511102	SK50-BST-100	50	100	1500
511104	SK50-BST-150	50	150	2000
511106	SK50-BST-200	50	200	2501
511108	SK50-BST-250	50	250	3000
511110	SK50-BST-300	50	300	3500
511112	NT50-BST-100	50	100	1500
511114	NT50-BST-150	50	150	2000

BST粗精镗孔刀头基础柄系列（镗孔范围＞Ø200）
BST Basic Holder For Roughness And Precision Boring Bar(boring Range＞Ø200)



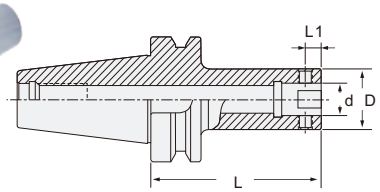


编码 Order	型号 Model	尺寸 Size (mm) D	L	单价 RMB
511116	MT4-BST-100	50	100	1000
511118	MT5-BST-100	50	100	1000
511120	MT6-BST-100	50	100	1333
511122	MT6-BST-150	50	150	1667
511124	MT6-BST-200	50	200	2000
511126	MT6-BST-250	50	250	2333

BT-LBK镗头刀柄

BT-LBK Boring Cutter Toolholder



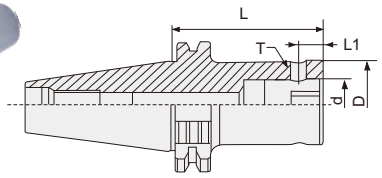


编码 Order		型号 Model	尺寸 Size (mm) D	d	L1	L	螺丝 SCREW	单价 RMB
511200	BT30	LBK1-70	19	11	5.05	75	SM4	350
511202		LBK1-105	19	11	5.05	105		350
511204		LBK2-80	24	11	5.05	130	SM5	475
511206		LBK2-115	24	11	5.05	165		600
511208		LBK3-80	31	11	5.05	195	SM6	1000
511210		LBK3-110	31	28	6.62	75		350
511212		LBK4-70	39	28	6.62	125	SM8	350
511214		LBK4-115	39	28	6.62	175		475
511216		LBK5-70	50	28	6.62	235	SM10	600
511218		LBK5-130	50	14	13	110		1000
511220		LBK6-60	64	14	13	140	SM12	350
511222		LBL6-125	64	14	13	175		350
511224	BT40	LBK1-75	19	14	13	235		600
511226		LBK1-105	19	11	5.05	85	SM4	1000
511228		LBK1-130	19	11	5.05	115		900
511230		LBK1-165	19	14	6.62	150		1000
511232		LBK1-195	19	14	6.62	175		1100
511234		LBK2-85	24	18	8	220		1820
511236		LBK2-115	24	18	8	95	SM5	350
511238		LBK2-130	24	22	10	125		600
511240		LBK2-165	24	22	10	155		350
511242		LBK2-200	24	28	13	210		600
511244		LBK3-95	31	28	13	70		350
511246		LBK3-125	31	36	16	105	SM6	600
511248		LBK3-155	31	36	16	80		350
511250		LBK3-210	31	14	6.62	115		600
511252		LBK4-85	39	14	6.62	80		350
511254		LBK4-115	39	14	6.62	110		600
511256		LBK4-150	39	14	6.62	70	SM8	350
511258		LBK4-175	39	14	6.62	115		600
511260		LBK4-220	39	22	10	70		350
511262		LBK5-75	50	22	10	130		350
511264		LBK5-125	50	22	10	60	SM10	475
511266		LBK5-175	50	22	10	125		600
511268		LBK5-235	50	22	10	85		1000
511270		LBK6-65	64	18	8	115		350
511272		LBK6-115	64	18	8	130	SM12	350
511274		LBK6-165	64	18	8	165		600
511276		LBK6-200	64	18	8	200		1000
511278		LBK6-240	64	36	16	65		350
511280	BT50	LBK1-115	19	36	16	115		350
511282		LBK1-145	19	36	16	165	SM4	600
511284		LBK1-175	19	36	16	200		1000
511286		LBK1-200	19	36	16	240		1000
511288		LBK2-110	24	11	5.05	115		900
511290		LBK2-140	24	11	5.05	145	SM5	1000
511292		LBK2-175	24	11	5.05	175		1100
511294		LBK2-235	24	11	5.05	200		1350
511296		LBK3-125	31	28	13	105		900
511298		LBK3-155	31	28	13	180		1000
511300		LBK3-185	31	28	13	240		1100
511302		LBK3-215	31	28	13	300	SM6	1260
511304		LBK3-255	31	28	13	350		1540
511306		LBL3-290	31	18	8	125		1820
511308		LBK3-350	31	18	8	155		2500
511310		LBK4-115	39	18	8	185		900
511312		LBK4-145	39	18	8	215		1100
511314		LBK4-175	39	18	8	255		1260
511316		LBK4-205	39	18	8	290	SM8	1820
511318		LBK4-255	39	18	8	350		2500
511320		LBK4-305	39	22	10	115		900
511322		LBK4-355	39	22	10	145		1000
511324		LBK5-105	50	22	10	175		1100
511326		LBK5-180	50	22	10	205		1260
511328		LBK5-240	50	22	10	255	SM10	1540
511330		LBK5-300	50	22	10	305		1820
511332		LBK5-350	50	22	10	355		2500
511334		LBK6-95	64	36	16	95		900
511336		LBK6-140	64	36	16	140		1100
511338		LBK6-170	64	36	16	170		1100
511340		LBK6-230	64	36	16	230		1260
511342		LBK6-290	64	36	16	290		1820
511344		LBK6-350	64	36	16	350		2500
511346		LBK6-400	64	36	16	400	SM12	3000
511348		LBK6-450	64	36	16	450		3500
511350		LBK6-500	64	36	16	500		4000
511352		LBK6-550	64	36	16	550		4500
511354		LBK6-600	64	36	16	600		5000
511356		LBK6-650	64	36	16	650		5500
511358		LBK6-700	64	36	16	700		6000

SK-LBK 镗刀柄

SK-LBK Boring Cutter Toolholder



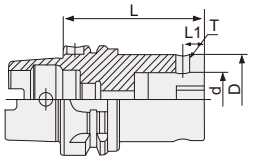


编码 Order		型号 Model	尺寸 Size (mm) D	d	L1	L	螺丝 SCREW	单价 RMB
511360	SK40	LBK1-105	19	11	5.05	105	SM4	600
511362		LBK2-115	24	14	6.62	115	SM5	600
511364		LBK3-125	31	18	8	125	SM6	600
511366		LBK4-130	39	22	10	130	SM8	600
511368		LBK5-125	50	28	13	125	SM10	600
511370		LBK6-65	64	36	16	65	SM12	600
511372	SK50	LBK1-105	19	11	5.05	105	SM4	1500
511374		LBK2-115	24	14	6.62	115	SM5	1500
511376		LBK3-125	31	18	8	125	SM6	1500
511378		LBK4-130	39	22	10	130	SM8	1500
511380		LBK4-170	39	22	10	170	SM8	2000
511382		LBK5-125	50	28	13	125	SM10	1500
511384		LBK5-180	50	28	13	180	SM10	2000
511386		LBK5-240	50	28	13	240	SM10	2750
511388		LBK6-115	64	36	16	115	SM12	1500
511390		LBK6-170	64	36	16	170	SM12	2000
511392		LBK6-230	64	36	16	230	SM12	2750
511394		LBK6-290	64	36	16	290	SM12	3750

HSK-LBK 镗刀柄

HSK-LBK Boring Cutter Toolholder

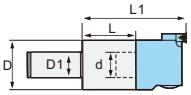


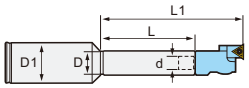


编码 Order		型号 Model	尺寸 Size (mm) D	d	L1	L	螺丝 SCREW	单价 RMB
511396	HSK50A	LBK1-70	19	11	5.05	70	SM4	3750
511398		LBK2-80	24	14	6.62	80	SM5	3750
511400		LBK3-80	31	18	8	80	SM6	3750
511402		LBK4-70	39	22	10	70	SM8	3750
511404		LBK5-70	50	28	13	70	SM10	3750
511406		LBK6-90	64	36	16	90	SM12	3750
511408	HSK63A	LBK1-75	19	11	5.05	75		2250
511410		LBK1-105	19	11	5.05	105	SM4	2250
511412		LBK1-135	19	11	5.05	135		2500
511414		LBK1-165	19	11	5.05	165		2750
511416		LBK2-85	24	14	6.62	85		2250
511418		LBK2-115	24	14	6.62	115	SM5	2250
511420		LBK2-130	24	14	6.62	130		2500
511422		LBK2-165	24	14	6.62	165		2750
511424		LBK3-95	31	18	8	95		2250
511426		LBK3-125	31	18	8	125	SM6	2250
511428		LBK3-155	31	18	8	155		2500
511430		LBK4-85	39	22	10	85		2250
511432		LBK4-130	39	22	10	130	SM8	2500
511434		LBK4-175	39	22	10	175		2750
511436		LBK5-75	50	28	13	75		2250
511438		LBK5-125	50	28	13	125	SM10	2250
511440		LBK5-175	50	28	13	175		2750
511442		LBK6-65	64	36	16	65		2250
511444		LBK6-115	64	36	16	115	SM12	2250
511446		LBK6-165	64	36	16	165		2750
511448	HSK100A	LBK1-115	19	11	5.05	115	SM4	3500
511450		LBK1-145	19	11	5.05	145		3500
511452		LBK2-110	24	14	6.62	110		3500
511454		LBK2-140	24	14	6.62	140	SM5	3500
511456		LBK2-175	24	14	6.62	175		4000
511458		LBK3-125	31	18	8	125		3500
511460		LBK3-155	31	18	8	155	SM6	3500
511462		LBK3-185	31	18	8	185		4000
511464		LBK3-215	31	18	8	215		5000
511466		LBK4-115	39	22	10	115		3500
511468		LBK4-160	39	22	10	160	SM8	4000
511470		LBK4-205	39	22	10	205		5000
511472		LBK5-105	50	28	13	105		3500
511474		LBK5-180	50	28	13	180	SM10	4000
511476		LBK5-240	50	28	13	240		5000
511478		LBK6-95	64	36	16	95		3500
511480		LBK6-170	64	36	16	170	SM12	4000
511482		LBK6-230	64	36	16	230		5000
511484		LBK6-290	64	36	16	290		6000

C20/25/32-LBK 镗刀柄
C20/25/32-LBK Boring Cutter Toolholder



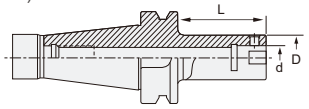




编码 Order	型号 Model	尺寸 Size (mm) D1	D	d	L1	L	螺丝 SCREW	单价 RMB
511490	C20- LBK1-75	20	19	11	107.5	75	SM4	1000
511492	LBK2-70	20	24	14	105.5	70	SM5	1000
511494	LBK2-120	20	24	14	155.5	120	SM5	1000
511496	LBK3-70	20	31	18	110	70	SM6	1000
511498	LBK3-120	20	31	18	160	120	SM6	1000
511500	LBK4-60	20	39	22	117	60	SM8	1000
511502	LBK4-110	20	39	22	157	110	SM8	1000
511504	LBK5-60	20	50	28	117	60	SM10	1500
511506	LBK5-120	20	50	28	177	120	SM10	1500
511508	LBK6-60	20	64	36	131	60	SM12	1500
511510	LBK6-120	20	64	36	191	120	SM12	1500
511512	C25- LBK1-75	25	19	11	107.5	75	SM4	1000
511514	LBK2-70	25	24	14	105.5	70	SM5	1000
511516	LBK2-120	25	24	14	155.5	120	SM5	1000
511518	LBK3-70	25	31	18	110	70	SM6	1000
511520	LBK3-120	25	31	18	160	120	SM6	1000
511522	LBK4-60	25	39	22	117	60	SM8	1000
511524	LBK4-110	25	39	22	157	110	SM8	1000
511526	LBK5-60	25	50	28	117	60	SM10	1500
511528	LBK5-120	25	50	28	177	120	SM10	1500
511530	LBK6-60	25	64	36	131	60	SM12	1500
511532	LBK6-120	25	64	36	191	120	SM12	1500
511534	C32- LBK1-75	32	19	11	107.5	75	SM4	1000
511536	LBK2-70	32	24	14	105.5	70	SM5	1000
511538	LBK2-120	32	24	14	155.5	120	SM5	1000
511540	LBK3-70	32	31	18	110	70	SM6	1000
511542	LBK3-120	32	31	18	160	120	SM6	1000
511544	LBK4-60	32	39	22	117	60	SM8	1000
511546	LBK4-110	32	39	22	157	110	SM8	1000
511548	LBK5-60	32	50	28	117	60	SM10	1500
511550	LBK5-120	32	50	28	177	120	SM10	1500
511552	LBK6-60	32	64	36	131	60	SM12	1500
511554	LBK6-120	32	64	36	191	120	SM12	1500

NT-LBK 镗刀柄(公制牙)
NT-LBK Boring Cutter Toolholder(Metric)

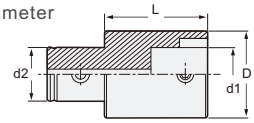




编码 Order	型号 Model	尺寸 Size (mm) D	d		L	螺丝 SCREW	单价 RMB
511556	NT40- LBK1-75	19	11		75	SM4	600
511558	LBK2-85	24	14		85	SM5	600
511560	LBK3-95	31	18		95	SM5	600
511562	LBK4-85	39	22		85	SM6	600
511564	LBK5-75	50	28		75	SM6	600
511566	LBK6-65	64	36		65	SM8	600
511568	LBK6-65(5/8)	64	36		65	SM8	600
511570	NT50- LBK1-105	19	11		105	SM4	1200
511572	LBK2-110	24	14		110	SM5	1200
511574	LBK3-125	31	18		125	SM6	1200
511576	LBK4-115	39	22		115	SM8	1200
511578	LBK5-105	50	28		105	SM10	1200
511580	LBK6-95	64	36		95	SM12	1200
511582	LBK6-170	64	36		170	SM12	2000
511584	LBK6-230	64	36		230	SM12	2750
511586	LBK6-290	64	36		290	SM12	3750

CK等径延长接柄
CK Extension Toolholder of the same diameter

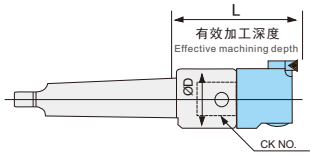




编码 Order	型号 Model	尺寸 Size (mm) D	d1	d2	L	螺丝 SCREW	单价 RMB
511588	CK1- 1-30	19	11	11	30	SM4	400
511590	CK2- 2-30	24	14	14	30	SM5	400
511592	2-45	24	14	14	45	SM5	400
511594	CK3- 3-30	31	18	18	30	SM6	400
511596	3-45	31	18	18	45	SM6	400
511598	CK4- 4-45	39	22	22	45	SM8	400
511600	4-60	39	22	22	60	SM8	450
511602	CK5- 5-60	50	28	28	60	SM10	500
511604	5-90	50	28	28	90	SM10	600
511606	CK6- 6-60	64	36	36	60	SM12	500
511608	6-100	64	36	36	100	SM12	600
511610	6-120	64	36	36	120	SM12	750

MT-DCK 镗刀柄
MT-DCK Boring Cutter Toolholder

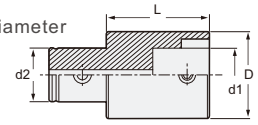




编码 Order	型号 Model	尺寸 Size (mm) D	d		L	螺丝 SCREW	单价 RMB
511620	MTA3- DCK1-47	19	11		47	SM4	600
511622	DCK2-67.5	24	14		67.5	SM5	600
511624	DCK3-64	31	18		64	SM6	600
511626	DCK5-48	50	28		48	SM10	600
511628	MTA4- DCK1-51.5	19	11		51.5	SM4	750
511630	DCK2-74	24	14		74	SM5	750
511632	DCK3-65.5	31	18		65.5	SM6	750
511634	DCK4-59.5	39	22		59.5	SM8	750
511636	DCK5-49.5	50	28		49.5	SM10	750
511638	DCK6-60.5	64	36		60.5	SM12	750
511640	MTA5- DCK1-78.5	19	11		78.5	SM4	1000
511642	DCK2-74	24	14		74	SM5	1000
511644	DCK3-95.5	31	18		95.5	SM6	1000
511646	DCK4-85.5	39	22		85.5	SM8	1000
511648	DCK5-74.5	50	28		74.5	SM10	1000
511650	DCK6-60.5	64	36		60.5	SM12	1000
511652	MTA6- LBK6-95	64	36		95	SM12	1200
511654	LBK6-170	64	36		170	SM12	1750
511656	LBK6-230	64	36		230	SM12	2250
511658	LBK6-290	64	36		290	SM12	2750

LBK等径延长接柄
LBK Extension Toolholder of the same diameter

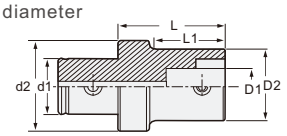




编码 Order	型号 Model	尺寸 Size (mm) D	d1	d2	L	螺丝 SCREW	单价 RMB
511660	LBK1- 1-30	19	11	11	30	SM4	175
511662	1-45	19	11	11	45	SM4	200
511664	1-60	19	11	11	60	SM4	200
511666	LBK2- 2-30	24	14	14	30	SM5	175
511668	2-45	24	14	14	45	SM5	200
511670	2-60	24	14	14	60	SM5	200
511672	LBK3- 3-30	31	18	18	30	SM6	200
511674	3-45	31	18	18	45	SM6	275
511676	3-60	31	18	18	60	SM6	275
511678	3-95	31	18	18	95	SM6	500
511680	LBK4- 4-45	39	22	22	45	SM8	200
511682	4-60	39	22	22	60	SM8	275
511684	4-100	39	22	22	100	SM8	500
511686	LBK5- 5-60	50	28	28	60	SM10	300
511688	5-90	50	28	28	90	SM10	325
511690	5-120	50	28	28	120	SM10	550
511692	LBK6- 6-60	64	36	36	60	SM12	325
511694	6-100	64	36	36	100	SM12	350
511696	6-120	64	36	36	120	SM12	500

LBK不等径延长接柄
LBK Extension Toolholder with different diameter



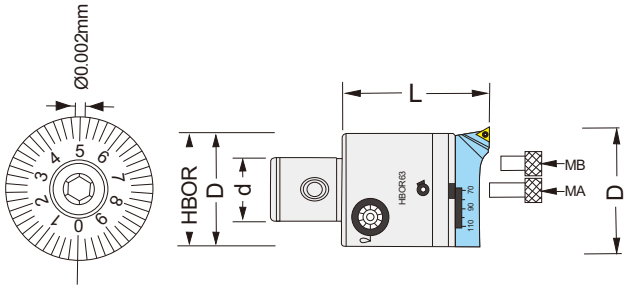


编码 Order	型号 Model	尺寸 Size (mm) D1	D2	d1	d2	L1	L	螺丝 SCREW	单价 RMB
511698	LBK2- 1-36	11	19	14	-	30	36	SM5	500
511700	LBK3- 1-41	11	19	18	31	30	41	SM6	500
511702	2-37	14	24	18	31	25	37	SM6	500
511704	LBK4- 1-58	11	19	22	39	40	58	SM8	580
511706	2-50	14	24	22	39	36	50	SM8	580
511708	3-50	18	31	22	39	37	50	SM8	580
511710	LBK5- 1-60	11	19	28	50	40	60	SM10	650
511712	2-54	14	24	28	50	35	54	SM10	650
511714	2-74	14	24	28	50	55	74	SM10	650
511716	3-47	18	31	28	50	29	47	SM10	650
511718	3-72	18	31	28	50	54	72	SM10	650
511720	4-42	22	39	28	50	25	42	SM10	650
511722	4-67	22	39	28	50	50	67	SM10	650
511724	LBK6- 1-70	11	19	36	64	40	70	SM12	750
511726	2-63	14	24	36	64	45	63	SM12	750
511728	2-93	14	24	36	64	75	93	SM12	900
511730	3-56	18	31	36	64	39	56	SM12	750
511732	3-96	18	31	36	64	79	96	SM12	900
511734	4-51	22	39	36	64	35	51	SM12	750
511736	4-101	22	39	36	64	85	101	SM12	900
511738	5-41	28	50	36	64	25	41	SM12	750
511740	5-91	28	50	36	64	75	91	SM12	900

HBOR 极细微调精搪孔刀

HBOR Micro-Finishing Cutter Fine Boring System



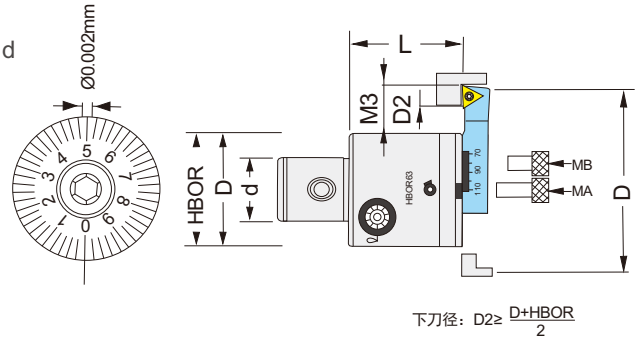


编码 Order	型号 Model	镗孔范围 Boring Range	尺寸 Size (mm) D	L	组件 Assembly 主体 Body	MA	MB	刀片座 Toolholder	重量 Weight(kg)	单价 RMB
511750	HBOR25M	29-38	25	50	HBOR25	M5x12		SRTP2938	0.16	8000
511752	HBOR32M	36-52	32	63	HBOR32	M6x12		SRTP3652	0.37	8000
511754	HBOR40M	44-68	40	63	HBOR40	M6x12		SRTP4468	0.53	9000
511756	HBOR50BM	57-90	50	80	HBOR50	BM8x20		SRTP5790	1.05	9000
511758	HBOR63BM1	70-110	63	80	HBOR63	BM8x20	M8x14	SRTP70110	1.65	11000
511760	HBOR63BM2	110-150	63	80	HBOR63	BM8x20	M8x14	SRTP110150	1.76	11000

HBOR 极细微调精搪孔刀-反搪

HBOR Micro-Finishing Cutter for Revers Fine Boring Head





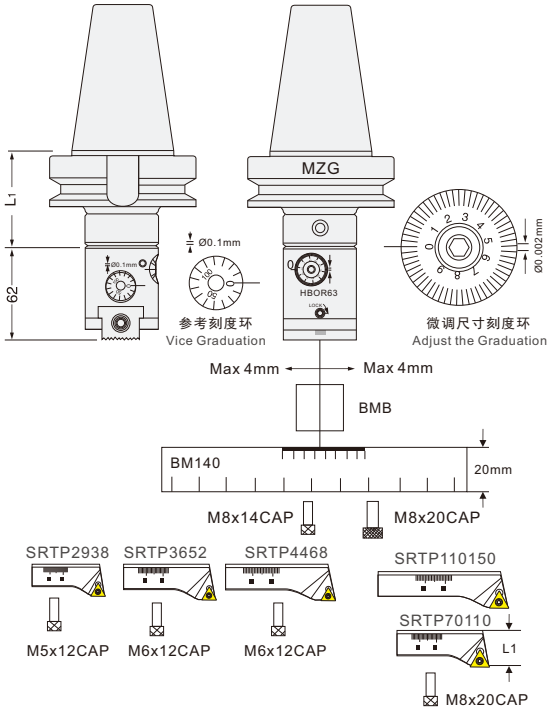
下刀径：D2≥ $\frac{D+HBOR}{2}$

编码 Order	型号 Model	镗孔范围 Boring Range	尺寸 Size (mm) M3	M2	D	组件 Assembly 主体 Body	MA	MB	刀片座 Toolholder	重量 Weight(kg)	单价 RMB
511770	HBOR25 MK	29-38	50	42	25	HBOR25	M5x12		FKTP2938	0.16	10825
511772	HBOR32 MK	36-52	63	52.5	32	HBOR32	M6x12		FKTP3652	0.37	12925
511774	HBOR40 MK	44-68	63	53	40	HBOR40	M6x12		FKTP4468	0.53	13475
511776	HBOR50 BMK	57-90	80	64.5	50	HBOR50	BM8x20		FKTP5790	1.05	12000
511778	HBOR63 BMK1	70-110	80	62.5	63	HBOR63	BM8x20	M8x14	FKTP70110	1.65	13000
511780	HBOR63 BMK2	110-150	80	62.5	63	HBOR63	BM8x20	M8x14	FKTP110150	1.76	13000

HBOR63+BM140 极细微调精搪孔+外圆系统

HBOR50+BM140 Micro-Finishing Cutter Fine Boring + outer circle system





BM140精搪刀杆运用于HBOR63刀杆
BM140精搪范围为150~280mm

BM140 Micro boring holder matches with HBOR63 boring head.
The boring range of BM140 boring system is from 150-280mm.

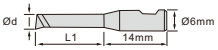
HBOR25 极细微调精搪孔系统
HBOR25 Micro-Finishing Cutter Fine Boring System

编码 Order	型号 Model	尺寸 Size (mm) L1		重量 Weight(kg)	单价 RMB
511790	BT30-HBOR25P	35		0.63	
511792	BT40-HBOR25P	40		1.22	
511794	SK30-HBOR25P	30		0.58	
511796	SK40-HBOR25P	30		0.72	
511798	HSK63-HBOR25P	40		0.92	



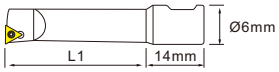
整体钨钢小镗刀
Carbide small boring cutter



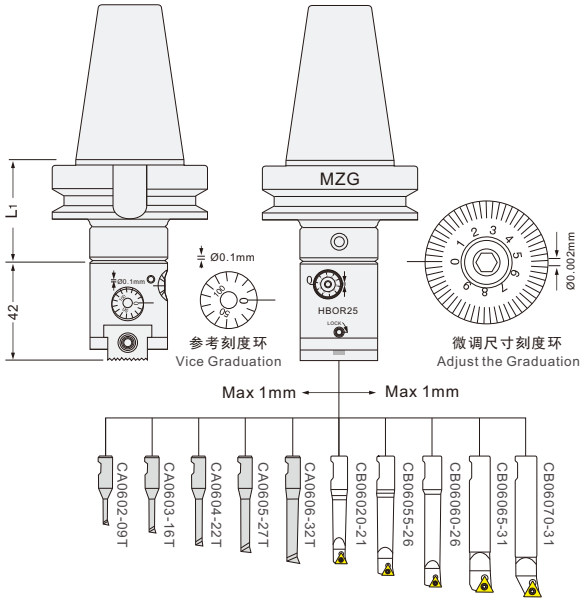


编码 Order	型号 Model	范围 Range	尺寸 Size (mm) L1	Ød	重量 Weight(kg)	单价 RMB
511810	CA0602-09T	2-3.2	9	2	0.01	400
511812	CA0603-16T	3-4.2	16	3	0.01	400
511814	CA0604-22T	5-5.2	22	4	0.02	400
511816	CA0605-27T	5-6.2	27	5	0.02	400
511818	CA0606-32T	6-7.2	32	6	0.02	400

钨钢防振刀杆
Carbide anti vibration Toolholder



编码 Order	型号 Model	范围 Range	深度 L1	刀片 Insert	螺丝 Screw	扳手 Wrench	重量 Weight (kg)	单价 RMB
511830	CB06050-21	5-6	21	CC..03..	M1.6x3	T6	0.008	800
511832	CB06055-26	5.5-6.5	26				0.010	800
511834	CB06060-26	6-7	26				0.011	800
511836	CB06065-31	6.5-7.5	31				0.015	800
511838	CB06070-31	7-8	31	CC..04..	M2.0x4	T6	0.016	800

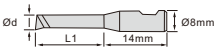


HBOR32 极细微调精搪孔系统
HBOR32 Micro-Finishing Cutter Fine Boring System

编码 Order	型号 Model	尺寸 Size (mm) L1		重量 Weight(kg)	单价 RMB
511850	BT30-HBOR32P	35		0.76	
511852	BT40-HBOR32P	40		1.35	
511854	SK30-HBOR32P	35		0.71	
511856	SK40-HBOR32P	35		1.30	
511858	HSK63-HBOR32P	40		1.32	

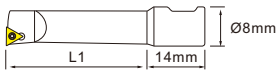
整体钨钢小镗刀
Carbide small boring cutter



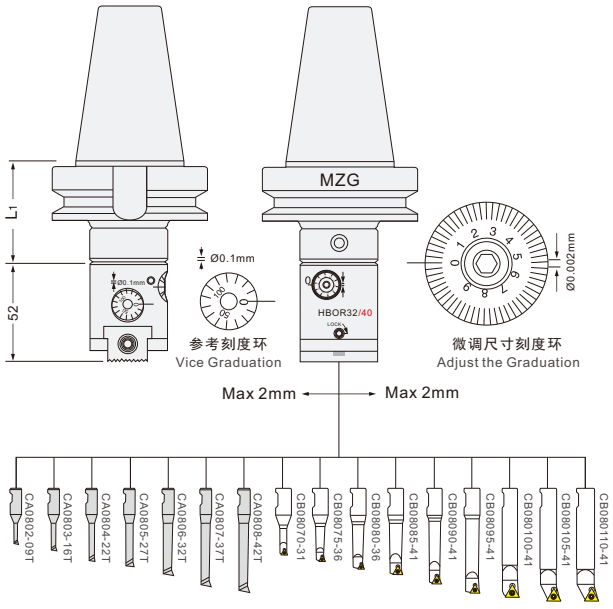


编码 Order	型号 Model	范围 Range	尺寸 Size (mm) L1	Ød	重量 Weight(kg)	单价 RMB
511890	CA0802-09T	2-3.2	9	2	0.03	600
511892	CA0803-16T	3-4.2	16	3	0.03	600
511894	CA0804-22T	5-5.2	22	4	0.03	600
511896	CA0805-27T	5-6.2	27	5	0.04	600
511898	CA0806-32T	6-7.2	32	6	0.04	600
511900	CA0807-37T	7-8.2	37	7	0.04	600
511902	CA0808-42T	8-9.2	42	8	0.05	600

钨钢防振刀杆
Carbide anti vibration Toolholder



编码 Order	型号 Model	范围 Range	深度 L1	刀片 Insert	螺丝 Screw	扳手 Wrench	重量 Weight (kg)	单价 RMB
511910	CB08070-31	7-8	31	CC..04..	M2.0x4	T6	0.020	800
511912	CB08075-36	7.5-8.5	36				0.025	800
511914	CB08080-36	8-9	36				0.030	800
511916	CB08085-41	8.5-9.5	41				0.035	800
511918	CB08090-41	9-10	41				0.040	800
511920	CB08095-41	9.5-10.5	41				0.040	800
511922	CB08100-41	10-11	41				0.040	800
511924	CB08105-41	10.5-11.5	41				0.040	800
511926	CB08110-41	11-12	41				0.040	800



HBOR40 极细微调精搪孔系统
HBOR40 Micro-Finishing Cutter Fine Boring System

编码 Order	型号 Model	尺寸 Size (mm) L1		重量 Weight (kg)	单价 RMB
511870	BT30-HBOR40P	35		0.95	
511872	BT40-HBOR40P	40		1.34	
511874	SK30-HBOR40P	35		0.9	
511876	SK40-HBOR40P	35		1.29	
511878	HSK63-HBOR40P	45		0.92	

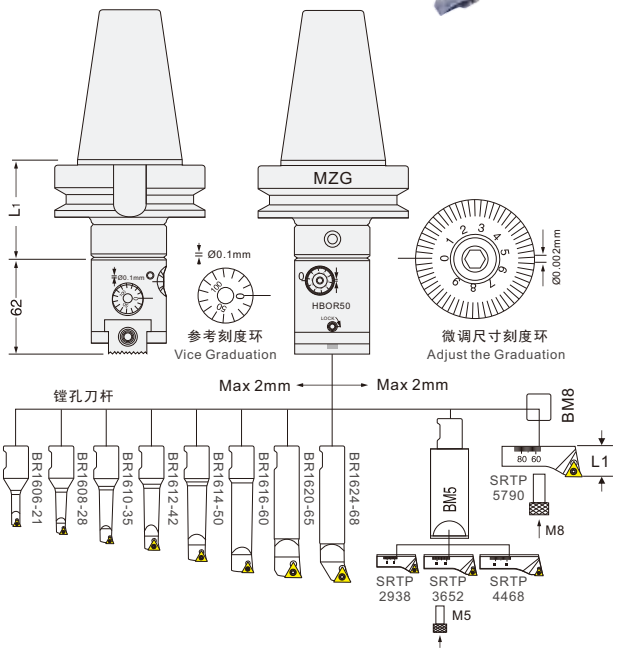
HBOR50 极细微调精搪孔系统

HBOR50 Micro-Finishing Cutter Fine Boring System

编码 Order	型号 Model	范围 Range	L1	重量 Weight(kg)	单价 RMB
511930	BT30-HBOR50-14P	06-90	70	5.84	19000
511932	BT40-HBOR50-14P	06-90	75	6.42	19000
511934	BT50-HBOIR50-14P	06-90	90	9.07	20000
511936	SK30-HBOR50-14P	06-90	55	5.97	19000
511938	SK40-HBOR50-14P	06-90	50	6.39	19000
511940	SK50-HBOR50-14P	06-90	50	8.62	20000
511942	HSK63-HBOR50-14P	06-90	50	6.13	21000







HBOR63 极细微调精搪孔系统

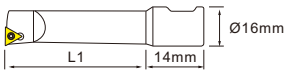
HBOR63 Micro-Finishing Cutter Fine Boring System

编码 Order	型号 Model	范围 Range	L1	重量 Weight(kg)	单价 RMB
511950	NT40-HBOR63-15P	06-150	65	7.2	21250
511952	NT50-HBOR63-15P	06-150	95	9.8	22250
511954	BT40-HBOR63-15P	06-150	65	7.2	21250
511956	BT50-HBOR63-15P	06-150	95	9.8	22250
511958	SK40-HBOR63-15P	06-150	65	7.2	21250
511960	SK50-HBOR63-15P	06-150	95	9.0	22250
511962	HSK63-HBOR63-15P	06-150	65	7.0	23500

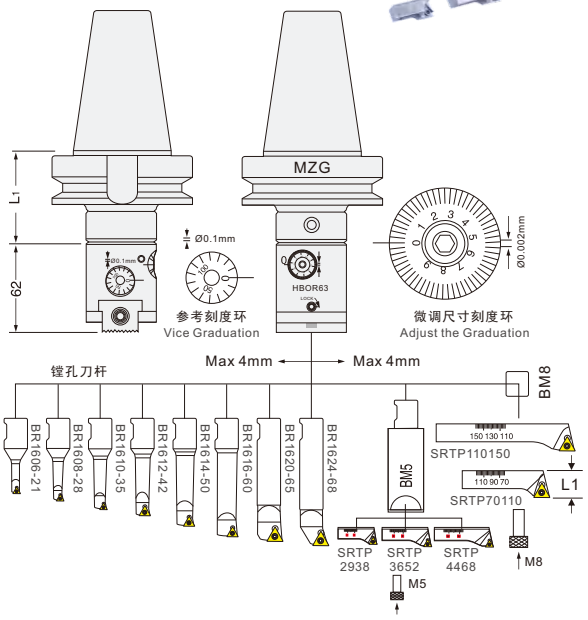


镗孔刀杆组件

Cutting Insert Toolholder



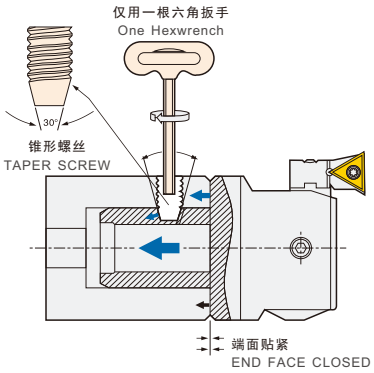
编码 Order	型号 Model	范围 Range	深度 L1	刀片 Insert	螺丝 Screw	扳手 Wrench	重量 Weight (kg)	单价 RMB
511970	BR1606-21	6-9	21	WB..06..	M2.0x4	T6	0.04	
511972	BR1608-28	8-11	28	TB..06..	M2.0x4	T6	0.04	
511974	BR1610-35	10-13	38				0.05	
511976	BR1612-42	12-15	42	TP..09..	M2.5x6	T8	0.06	
511978	BR1614-50	14-17	50				0.07	
511980	BR1616-60	16-20	60				0.09	
511982	BR1620-65	20-24	65	TP..11..	M3.0x8	T8	0.11	
511984	BR1624-68	24-28	68				0.12	
511986	BM5	-	60+	-	-	-	0.25	
511988	SRTP2938	28-38	+10	TP..09..	M2.5x6	T8	0.01	
511990	SRTP3652	36-52	+12				0.02	
511992	SRTP4468	44-68	+12				003	
511994	BM8	-		-	-	-	0.03	
511995	SRTP5790	57-90	+20	TP..11..	M3.0x8	T8	0.10	
511996	SRTP70110	70-110	+20				0.10	
511997	SRTP110150	110-150	+20				0.21	
511998	BM140	-	20+	-	-	-	0.50	



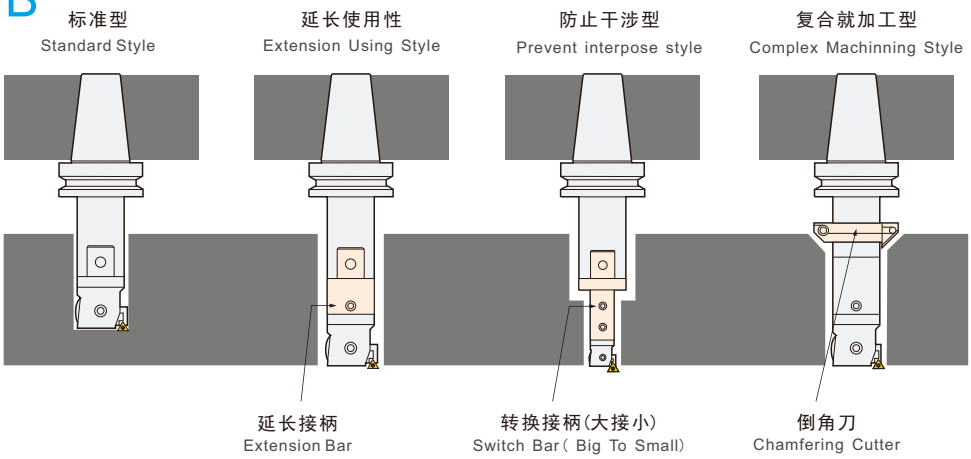
CBH 模块式镗刀系列
CBH Modular Boring Tool

高精度，强力，操作方便-理想的连接方式
HIGH PRECISION,BIG POWER AND EASY OPERATION-THE BEST CONNECTION STYLE

A



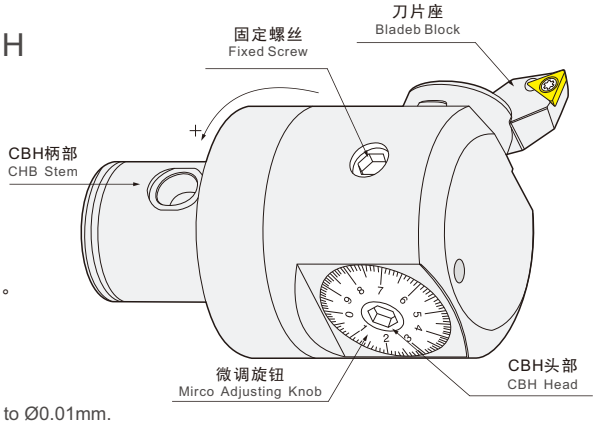
B



1.依靠30度锥形螺丝，把紧固力转换成轴向拉力，使镗刀端面与本体端面贴紧。（如图A)
2.模块式设计，可以自由设定加工直径和有效加工深度，配用。转换接头（大接小）减小刀具直径，即可以确保刚性，又可以防止干涉，在配合倒角器可自由组合成最合适的镗削刀具（如图B）
3.因镗头与本体的连接精度非常高所以祇需对镗头单独封刀，可减轻劳动强度，提高工作效率，降低综合成本。

1. Depending on the 30 degree tapered screw, the tightening force is converted into axial tension, so that the end face of the boring cutter and the end face of the main body are closely connected. (as shown in figure a)
2. Modular design, free to set machining diameter and effective machining depth, matching. The change-over joint (large joint and small joint) reduces the tool diameter, which ensures the rigidity,It can also prevent interference, and can be freely combined into the most suitable boring tool (as shown in Fig. b) with the chamferer
3. Because the connection precision between boring head and body is very high, it is necessary to seal the boring head separately, which can reduce the labor intensity, improve the working efficiency and reduce the comprehensive cost.

CBH 产品主要部位名称
The Name Of The Main Part Of Products With CBH



使用顺序
Sequence of use

请参照图示，按下列顺序1-5顺序操作
Please Operate The Following Step(1-5)according To The Diagram Figured

1. 松开固定螺丝
2. 按顺时针方向旋转调旋钮，使加工直径增大，调整旋钮刻度为Ø0. 01mm。
3. 按逆时针方向旋转调旋钮，使加工直径减小。
4. 调整尺寸加工时，请按同方向微调，以确保微调精度。
5. 微调至所需尺寸时，请以适当扭力锁紧固定螺丝。

1. Loosen the fixing screw
2. Turn the knob clockwise to increase the machining diameter, and adjust the knob scale to Ø0.01mm.
3. Turn the knob anticlockwise to reduce the machining diameter.
4. When adjusting the dimension processing, please make fine adjustment in the same direction to ensure the precision of fine adjustment.
5. When fine tuning to the required size, please lock the fixing screw with proper torque.

使用者注意事项
Notices of the user

1. 请使用在加工范围内。
2.当滑座在已锁紧状态下，请勿旋转调整旋钮，否则会导致调整机构被破坏。
3.滑座之固定，请使用专用扳手，以适当扭力来确保锁紧固定螺丝。过度锁紧会导致座体移位，过松会造成精度不良。
4.本产品是由精度螺丝、移动刀片座旋转调整旋钮，在阻力很大或无法移动是，请停止调整，并确保以下事项：
① 固定螺丝是否松开.
② 是否超出调整范围.
③ 当过度旋转调整旋钮时,会导致本体内部被破坏.

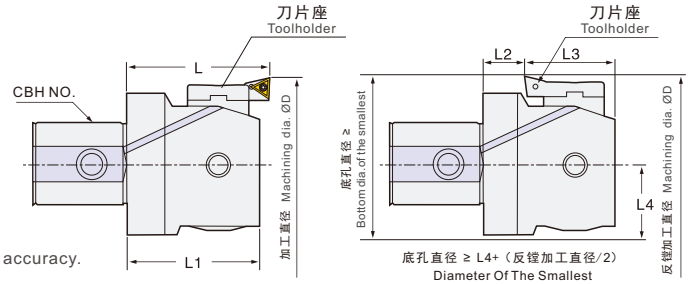
1. Please use in the processing range.
2. When the sliding seat is locked, do not rotate the adjustment knob, otherwise the adjustment mechanism will be damaged.
3. For the fixation of sliding seat, please use a special spanner to ensure that the fixing screw is locked with proper torque. Over locking will lead to displacement of seat body, and over loosening will lead to poor accuracy.
4. This product is made of precision screw and moving blade seat to rotate the adjusting knob. If the resistance is very large or it cannot be moved, please stop adjusting and ensure the following items:
① Whether the fixing screw is loosened
② Whether the adjustment range is exceeded
③ When the adjustment knob is rotated excessively, the interior of the body will be damaged

CBH 微调精密镗头
CBH Micro Boring Head



中心带内冷出水孔。
动平衡结构，高速也能达可靠加工精度。
可以反镗加工，加大附加值。

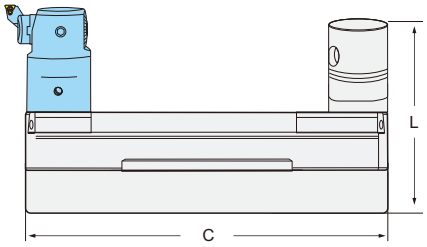
Cold water outlet hole in the center belt.
Dynamic balance structure, high speed can also achieve reliable machining accuracy.
Can reverse boring processing, increase added value.



编码 Order	型号 Model	正镗 Boring			反镗 Reverse Boring				组件 Assembly						重量 Weight (kg)	单价 RMB
		L1	L	范围 Range	L4	L2	L3	范围 Range	刀柄 Holder	镗头 Head	刀片座 Toolholder	刀片 Insert	螺丝 Screw	扳手 Wrench		
512000	CBH20-1	29.5	32.5	20-26	10	10.5	19	-	LBK1	CBH20	CBH1-1				0.07	1440
512002	CBH20-2	29.5	32.5	25-31	10	10.5	19	30-31	LBK1	CBH20	CBH1-2				0.07	1440
512004	CBH20-3	29.5	32.5	30-36	10	10.5	19	30-36	LBK1	CBH20	CBH1-3				0.07	1440
512006	CBH25-1	32.5	35.5	25-33	12.5	11.5	21	-	LBK2	CBH25	CBH2-1				0.12	1600
512008	CBH25-2	32.5	35.5	32-40	12.5	11.5	21	36-40	LBK2	CBH25	CBH2-2	TP..0802..	M2.2x6	T6	0.12	1600
512010	CBH25-3	32.5	35.5	39-47	12.5	11.5	21	39-47	LBK2	CBH25	CBH2-3				0.12	1600
512012	CBH32-1	35	40	32-42	16	10	25	-	LBK3	CBH32	CBH3-1				0.21	1734
512014	CBH32-2	35	40	41-51	16	10	25		LBK3	CBH32	CBH3-2				0.21	1734
512016	CBH32-3	35	40	50-60	16	10	25	50-60	LBK3	CBH32	CBH3-3				0.21	1734
512018	CBH41-1	43	47	41-54	20	14	29		LBK4	CBH41	CBH4-1				0.40	1940
512020	CBH41-2	43	47	50-63	20	14	29	53-63	LBK4	CBH41	CBH4-2				0.40	1940
512022	CBH41-3	43	47	61-74	20	14	29		LBK4	CBH41	CBH4-3				0.40	1940
512024	CBH53-1	53	57	53-70	25.5	19	34	62-70	LBK5	CBH53	CBH5-1				1.10	2160
512026	CBH53-2	53	57	65-82	25.5	19	34		LBK5	CBH53	CBH5-2				1.10	2160
512028	CBH53-3	53	57	78-95	25.5	19	34	78-95	LBK5	CBH53	CBH5-3				1.10	2160
512030	CBH68-1	67.2	71	68-100	32.5	22	45.2		LBK6	CBH68	CBH6-1	TC..1102..	M2.5x6	T8	1.47	2540
512032	CBH68-2	67.2	71	94-126	32.5	22	45.2	94-126	LBK6	CBH68	CBH6-2				1.47	2540
512034	CBH68-3	67.2	71	118-150	32.5	22	45.2		LBK6	CBH68	CBH6-3				1.47	2540
512036	CBH100-1	67.2	71	100-153	45.5	22	45.2	112-153	LBK6	CBH100	CBH6-1				2.46	3000
512038	CBH100-2	67.2	71	126-179	45.5	22	45.2		LBK6	CBH100	CBH6-2				2.46	3000
512040	CBH100-3	67.2	71	150-203	45.5	22	45.2	150-203	LBK6	CBH100	CBH6-3				2.46	3000

CBH 大径太空铝微调精密镗头(减重型)
CBH Large diameter space aluminum fine tuning precision boring head (reducing heavy)

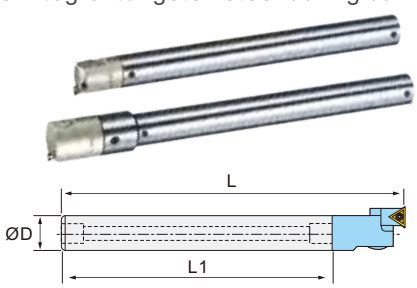




镗孔范围Ø200-Ø910mm　　Boring Range Ø200-Ø910mm

编码 Order	型号 Model	正镗 Boring			组件 Assembly									重量 Weight (kg)	单价 RMB
		C	L	范围 Range	底座 Flange	横向滑板 Extension Slide	平衡块 Balance weight	刀柄 Holder	镗头 Head	刀片座 Toolholder	刀片 Insert	螺丝 Screw	扳手 Wrench		
512050	CBH200-310	190	80	200-310	BR200	RST200	RBN200	BST	CBH41-1	CBH4-1	TC..1102..	M2.5x6	T8	4.1	6250
512052	CBH300-410	290	80	300-410	BR200	RST300								4.9	6667
512054	CBH400-510	390	80	400-510	BR200	RST400								5.9	8111
512056	CBH500-610	490	80	500-610	BR200	RST500								6.9	8556
512058	CBH600-950	590	80	600-950	BR600	RST300								7.9	10778
512060	CBH900-1250	690	80	900-1250	BR900	RST300								10.0	14922

FC整体钨钢镗孔刀杆
FC integral tungsten steel boring bar



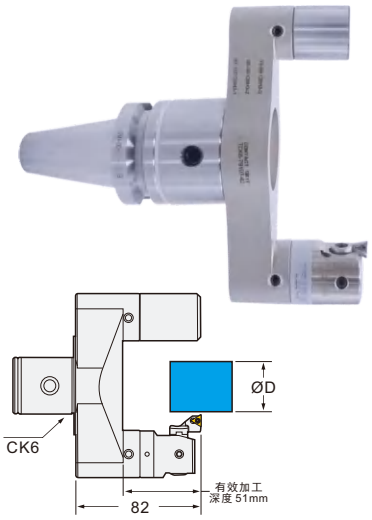
编码 Order	型号 Model	尺寸 Size (mm)			组合镗头 Combined boring head	镗孔范围 Boring range	重量 Weight (kg)	单价 RMB
		ØD	L	L1				
512070	FC19-LBK1-150	19	182.5	150	CBH20	20-26	0.8	1700
512072	FC19-LBK1-200	19	232.5	200			1.0	1875
512074	FC19-LBK1-250	19	282.5	250			1.2	2325
512076	FC19-LBK1-300	19	332.5	300			1.35	2875
512078	FC24-LBK2-200	24	235.5	200	CBH25	25-33	1.35	2625
512080	FC24-LBK2-250	24	285.5	250			1.9	3188
512082	FC24-LBK2-300	24	335.5	300			2.5	3750
512084	FC32-LBK3-200	32	240	200	CBH32	32-42	2.2	4400
512086	FC32-LBK3-250	32	290	250			2.8	5008
512088	FC32-LBK3-300	32	340	300			3.5	5900
512090	FC32-LBK3-350	32	400	350			4.2	7700
512092	FC32-LBK3-400	32	450	400			4.9	8800

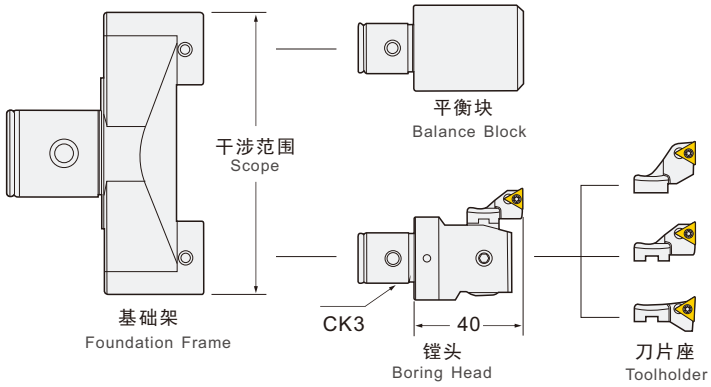
1.超硬碳化钨制镗刀杆，使用高刃度配方制造，坚韧耐用，实现高硬度、高刚性、高抗震性，可施行超深孔加工（10D）。
2.各种规格均有内部水孔，深孔加工时排屑及冷却效果良好。
3.直柄结构，加工深度可依加工须求自行调整。

1. The boring bar made of superhard tungsten carbide is made of high cutting edge formula. It is tough and durable. It can achieve high hardness, high rigidity and high seismic resistance. It can be used for ultra deep hole processing (10d).
2. All kinds of specifications have internal water holes, and the chip removal and cooling effect are good during deep hole processing.
3. The straight handle structure and processing depth can be adjusted according to the processing requirements.

CBH-M 外圆镗刀

CBH-M External boring cutter





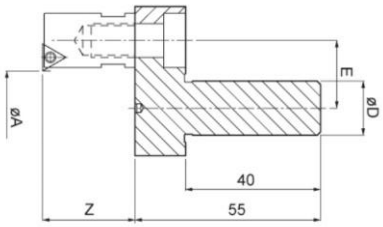
CBH大径镗刀反向装可以进行镗外圆加工
加工范围 Ø116-Ø200

CBH large diameter boring cutter can be installed reversely for boring outer circle
Processing range Ø 116 - Ø 200

编码 Order	型号 Model	范围 Range	组件 Assembly						单价 RMB
			刀片座 Toolholder	基础架 Foundation Frame	镗头 Head	刀片 Insert	螺丝 Screw	扳手 Wrench	
512100	CBH-M23-33	23-33	CBH3-3	CK6-2351-42 干涉范围=114mm	CBH32	TP..0802..	M2.2x6	T6	5778
512102	CBH-M32-42	32-42	CBH3-2						5778
512104	CBH-M41-51	41-51	CBH3-1						5778
512106	CBH-M51-61	51-61	CBH3-3	CK6-5179-42 干涉范围=142mm					6667
512108	CBH-M60-71	60-71	CBH3-2						6667
512110	CBH-M69-79	69-79	CBH3-1						6667
512112	CBH-M79-89	79-89	CBH3-3	CK6-79107-42 干涉范围=170mm					7778
512114	CBH-M88-98	88-98	CBH3-2						7778
512116	CBH-M97-107	97-107	CBH3-1						7778

CBR20,CBR30组合式镗外圆组件(镗孔范围ø5-ø52mm)

CBR20, CBR30 combined cylindrical bore components (bore range is 5- 52mm)





编码 Order	镗头 Head	范围 A Range	转换杆 Flange	尺寸 Size (mm)			组件 Assembly			单价 RMB
				偏心 E	深度 Z	柄径 ØD	刀片 Insert	螺丝 Screw	扳手 Wrench	
512120	BE36A	5-14	C16-CBR20	20	27	16	TP..0802..	M2.2x6	T6	1500
512122	BE34A	7-16								1500
512124	BE32A	9-18								1500
512126	BE30A	11-20								1500
512128	BE28A	13-22								1500
512130	BE26A	15-24								1500
512132	BE24A	17-26								1500
512134	BE22A	19-28								1500
512136	BE20A	21-30								1500
512138	BE18A	23-32								1500
512140	BE36A	25-34	C16-CBR30	30	27	16	TP..0802..	M2.2x6	T6	1800
512142	BE34A	27-36								1800
512144	BE32A	29-38								1800
512146	BE30A	31-40								1800
512148	BE28A	33-42								1800
512150	BE26A	35-44								1800
512152	BE24A	37-46								1800
512154	BE22A	39-48								1800
512156	BE20A	41-50								1800
512158	BE18A	43-52								1800

编码 Order	镗头 Head	范围 A Range	转换杆 Flange	尺寸 Size (mm)			组件 Assembly			单价 RMB
				偏心 E	深度 Z	柄径 ØD	刀片 Insert	螺丝 Screw	扳手 Wrench	
512160	BE36A	5-14	C20-CBR20	20	27	20	TP..0802..	M2.2x6	T6	1500
512162	BE34A	7-16								1500
512164	BE32A	9-18								1500
512166	BE30A	11-20								1500
512168	BE28A	13-22								1500
512170	BE26A	15-24								1500
512172	BE24A	17-26								1500
512174	BE22A	19-28								1500
512176	BE20A	21-30								1500
512178	BE18A	23-32								1500
512180	BE36A	25-34	C20-CBR30	30	27	20	TP..0802..	M2.2x6	T6	1800
512182	BE34A	27-36								1800
512184	BE32A	29-38								1800
512186	BE30A	31-40								1800
512188	BE28A	33-42								1800
512190	BE26A	35-44								1800
512192	BE24A	37-46								1800
512194	BE22A	39-48								1800
512196	BE20A	41-50								1800
512198	BE18A	43-52								1800

※C16-CBR20，CBR30 为 CBR16搪孔器转用搪外圆组件
※C20-CBR20，CBR30 为 CBR2084 搪孔器专用搪外圆组件

C16-CBR20, CBR30 for CBR16 lining hole to lined cylindrical component
C20-CBR20, CBR30 CBR2084 for lining lining hole cylindrical component

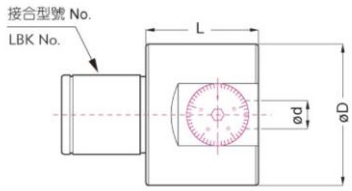
CBI小径微调整搪刀系列(搪孔范围ø3-ø50mm)

CBI diameter micro adjusting boring cutter series (bore range Ø3- Ø50mm)



1.CBI小径精搪刀有三种选择，通用于ø3-ø50mm小孔径使用，如使用全钨钢小径搪刀杆可加工ø3-14ømm小孔。
2.调整刻度为圆周50等分，每格调整尺寸为直径0. 01mm，另有副尺可作更精细之调整。
3.精密道程螺丝位于内部，不受切削，磨耗，生锈等影响，具有内部润滑，精毕耐用。

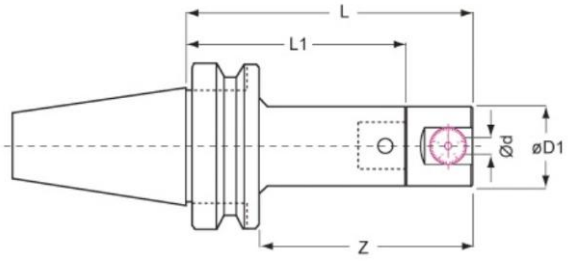
1. There are three options for CBI small-diameter fine lining knife, which is generally used for the use of φ 3 - φ 50mm small hole. For example, if the full tungsten steel small-diameter lining knife rod is used, the φ 3-14 φ mm small hole can be processed.
2. Adjust the scale to 50 equal parts of the circumference, adjust the size of each grid to 0.01mm diameter, and adjust the auxiliary ruler more precisely.
3. The precision path screw is located in the interior, not affected by cutting, abrasion, rust, etc., with internal lubrication and durable finish.



编码 Order	型号 Model	接口 LBK No	范围 Range	微调 Fine tuning	尺寸 Size (mm) Ød	ØD	L	重量 Weight (kg)	单价 RMB
512200	CBI4	LBK4	8-24	0-2.0	10	39	32	0.4	4300
512202	CBI5	LBK5	8-27	0-3.5	12	50	40	0.8	2900
512204	NBJ16	LBK6	8-50	0-6.0	16	64	50	1.2	2000

CBI小径微调精搪刀+LBK刀柄(MAS 403 BT)+小径搪刀杆BJ系列

CBI small diameter fine tuning fine boring tool + LBK Toolholder (MAS 403 BT) + small diameter boring bar BJ series





编码 Order	型号 Model	正镗 Boring 微调 F	深度 Z	接口 LBK NO	反镗 Reverse Boring L	L1	ØD1	范围 Range	组件 Assembly 刀柄 Holder	镗头 Head	刀杆 Toolholder	重量 Weight (kg)	单价 RMB
512210	BT30-CBI4-BJ10-6PCS	0-2.0	45	4	77	45	39	8-24	BT30-LBK4-45	CBI4	BJ10-5PCS	1.9	7200
512212	BT30-CBI5-BJ12-6PCS	0-3.5	65	5	105	65	50	8-27	BT30-LBK5-65	CBI5	BJ12-5PCS	2.3	5300
512214	BT40-CBI4-BJ10-6PCS	0-2.0	50	4	82	50	39	8-24	BT40-LBK4-50	CBI4	BJ10-5PCS	2.4	7200
512216	BT40-CBI5-BJ12-6PCS	0-3.5	75	5	90	75	50	8-27	BT40-LBK5-75	CBI5	BJ12-5PCS	2.8	5300
512218	BT50-CBI4-BJ10-6PCS	0-2.0	115	4	147	115	39	8-24	BT50-LBK4-115	CBI4	BJ10-5PCS	5.4	7500
512220	BT50-CBI5-BJ12-6PCS	0-3.5	90	5	130	90	50	8-27	BT50-LBK5-90	CBI5	BJ12-5PCS	6.0	5600



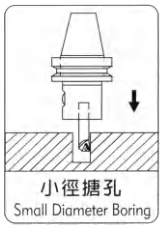




Fig.1

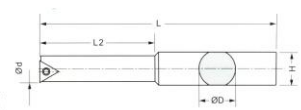




Fig.2



CBI4专用小径镗孔刀杆 BJ型 (镗孔范围Ø8-Ø24mm)

CBI4 special small diameter boring bar BJ type (boring range Ø 8-Ø 24mm)

编码 Order	型号 Model	尺寸 Size (mm) Ød	ØD	L	L2	刀片 Insert	螺丝 Screw	扳手 Wrench	图示 Fig	重量 Weight (kg)	单价 RMB
512230	BJ1006-24	6-9	10	64	24	WB..06..	M2.0x4	T6	1	0.020	200
512232	BJ1008-32	8-10	10	64	32	TB..06..				0.025	200
512234	BJ1010-40	10-12	10	72	40	TP..09..	M2.5x6	T8	2	0.035	200
512236	BJ1012-45	12-16	10	77	45					0.045	200
512238	BJ1016-45	16-20	10	77	22					0.045	200
512240	BJ1020-45	20-25	10	77	25					0.045	200

CBI5专用小径镗孔刀杆 BJ型 (镗孔范围Ø8-Ø27mm)

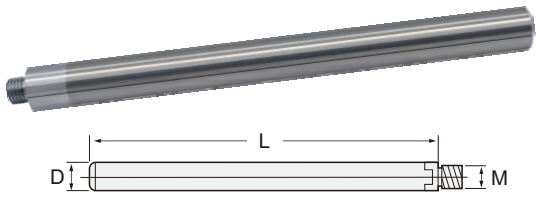
CBI5 special small diameter boring bar BJ type (boring range Ø 8-Ø 27mm)

编码 Order	型号 Model	尺寸 Size (mm) Ød	ØD	L	L2	刀片 Insert	螺丝 Screw	扳手 Wrench	图示 Fig	重量 Weight (kg)	单价 RMB
512250	BJ1206-24	6-9	12	64	24	WB..06..	M2.0x4	T6	1	0.020	200
512252	BJ1208-32	8-10	12	64	32	TB..06..				0.025	200
512254	BJ1210-40	10-12	12	72	40	TP..09..	M2.5x6	T8	2	0.035	200
512256	BJ1212-45	12-16	12	77	45					0.045	200
512258	BJ1216-45	16-20	12	77	22					0.045	200
512260	BJ1220-45	20-25	12	77	25					0.045	200

※ 切削加工时，小径搪刀杆以3倍直径伸出量为佳。

※ When machining path of boring bar with 3 times the diameter of stickout is preferred.

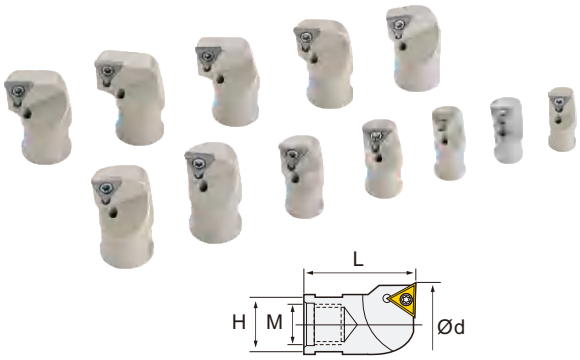
ST抗震钨钢刀杆
ST Shockproof tungsten steel pole



编码 Order	型号 Model	范围 Range	组合镗头 Modular Boring	尺寸 Size (mm) M	ØD	L	单价 RMB
512270	ST 08-W5-100	9-13	BE09,BE10.5	M5	8	100	900
512272	08-W5-145	9-13	BE09,BE10.5	M5	8	145	1125
512274	10-W6-120	12-15	BE12	M6	10	120	900
512276	10-W6-160	12-15	BE12	M6	10	160	1040
512278	12-W6-120	14-17	BE14,BE16	M6	12	120	1040
512280	12-W6-160	14-17	BE14,BE16	M6	12	160	1300
512282	14-W6-160	16-20	BE16	M6	14	160	1625
512284	14-W6-200	16-20	BE16	M6	14	200	2250
512286	16-W10-160	18-42	BE18-BE40	M10	16	160	2000
512288	16-W10-200	18-42	BE18-BE40	M10	16	200	2375

镗孔深度不超过刀柄直径的六倍时抗震效果较好。
When the boring depth is less than six times of the shank diameter, the anti-seismic effect is better.

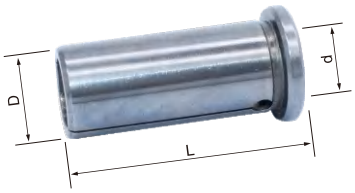
BE 组合式镗头
BE Combined boring head



编码 Order	型号 Model	尺寸 Size (mm) Ød	H	L	M	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
512700	BE09A	9	7	18	M5	TP..08..	M2.2x5	T7	250
512702	BE10.5A	10.5	7	18	M5				250
512704	BE12A	12	8	23	M6				250
512706	BE14A	14	10	23	M6				250
512708	BE16A	16	10	23	M6				250
512710	BE18A	18	14	27	M10				250
512712	BE20A	20	14	27	M10				250
512714	BE22A	22	14	27	M10				250
512716	BE24A	24	14	27	M10				250
512718	BE26A	26	14	27	M10				250
512720	BE28A	28	14	27	M10				250
512722	BE30A	30	14	27	M10				350
512724	BE32A	32	14	27	M10				350
512726	BE34A	34	14	27	M10				350
512728	BE36A	36	14	27	M10				500
512730	BE38A	38	14	27	M10				500
512732	BE40A	40	14	27	M10				500

注：以上三种配件可配镗头CBI4、CBI5、CBI6、NBJ16、NBH2084使用。

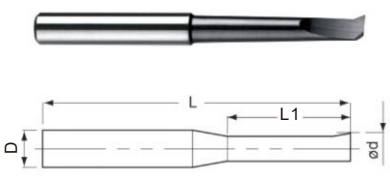
CBI/NBJ/NBH 专用变径套
CBI / NBJ / NBH Special Conversion Collet



编码 Order	型号 Model	尺寸 Size (mm) Ød	ØD	L	单价 RMB
512740	CBI 10-4	4	10	35	250
512742	10-6	6	10	35	250
512744	10-8	8	10	35	250
512746	CBI 12-4	4	12	35	250
512748	12-6	6	12	35	250
512750	12-8	8	12	35	250
512752	12-10	10	12	35	250

编码 Order	型号 Model	尺寸 Size (mm) Ød	ØD	L	单价 RMB
512754	NBJ 16-4	4	16	37	250
512756	16-6	6	16	37	250
512758	16-8	8	16	37	250
512760	16-10	10	16	37	250
512762	16-12	12	16	37	250
512764	16-14	14	16	37	250
512766	NBH 2084-8	8	20	37	250
512768	2084-10	10	20	37	250
512770	2084-12	12	20	37	250
512772	2084-16	16	20	37	250

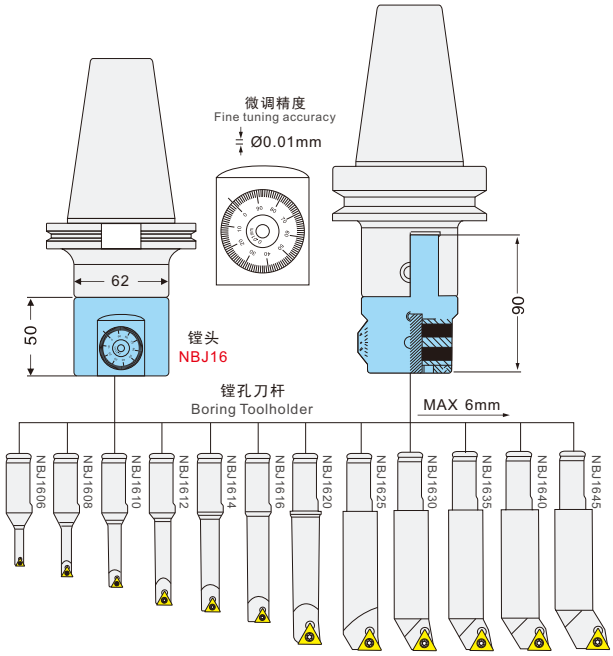
CBI系列专用小径钨钢镗孔刀
CBI Series special small diameter carbide boring cutter



编码 Order	型号 Model	尺寸 Size (mm) ØD	L	L1	镗孔范围 Boring Range Ød min	CBI4 max	CBI5 max	CBI6 max	重量 Weight (kg)	单价 RMB
512780	CBI 0403-15	4	50	15	3	7	10	13	0.015	510
512782	CBI 0404-20	4	50	20	4	8	11	14	0.015	540
512784	CBI 0605-25	6	60	25	5	9	12	15	0.020	600
512786	CBI 0606-30	6	60	30	6	10	13	16	0.020	600
512788	CBI 0808-35	8	75	35	8	12	15	18	0.055	750
512790	CBI 1010-40	10	75	40	10	14	17	20	0.060	900

NBJ-16微调精镗套装组合　NBJ-16 Fine tuning fine boring set combination

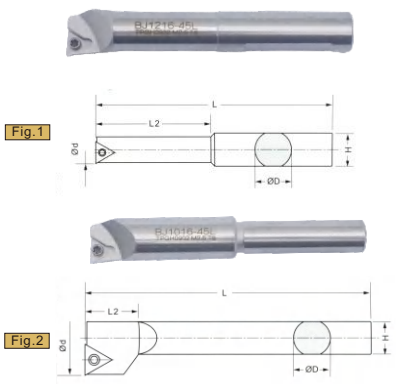




编码 Order	型号 Model	单价 RMB	编码 Order	型号 Model	单价 RMB
512800	NT30-NBJ16-8P	2000	512820	HSK63A-NBJ16-8P	2800
512802	NT40-NBJ16-8P	2000	512822	HSK100A-NBJ16-8P	3400
512804	NT50-NBJ16-8P	2200	512824	CAT40-NBJ16-8P	2200
512806	BT30-NBJ16-8P	2000	512826	CAT50-NBJ16-8P	2400
512808	BT40-NBJ16-8P	2000	512828	C32-BSJ16-8P	2000
512810	BT50-NBJ16-8P	2200	512830	MT4-NBJ16-8P	2200
512812	SK40-NBJ16-8P	2000	512832	MT5-NBJ16-8P	2300
512814	SK50-NBJ16-8P	2200	512834	MT6-NBJ16-8P	2400
512816	R8-NBJ16-8P	2000	512836	C20-NBJ16-8P	2200

NBJ16专用小径镗孔刀杆　NBJ型 (镗孔范围Ø8-Ø50mm)

NBJ16 special small diameter boring bar NBJ type (boring range Ø 8-Ø 50mm)



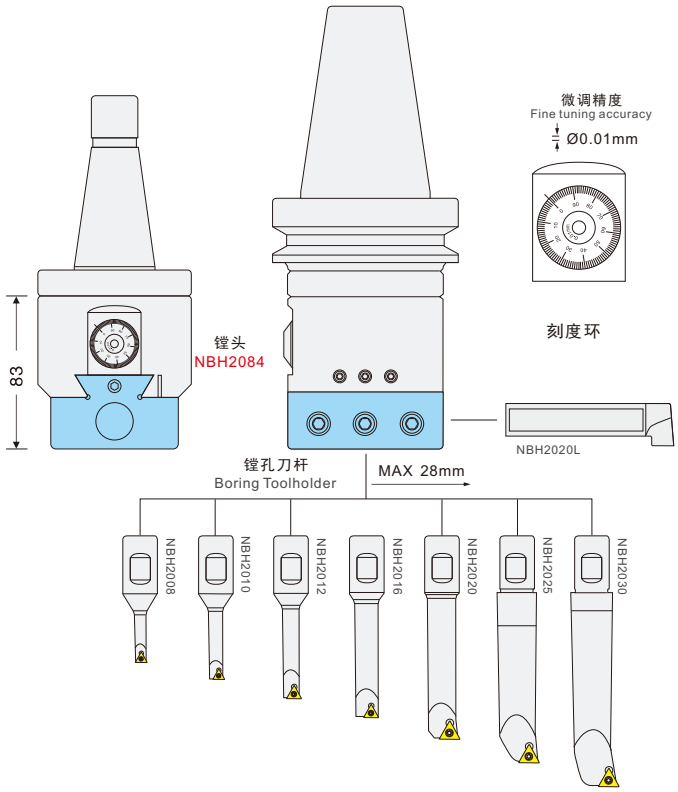
编码 Order	型号 Model	尺寸 Size (mm) Ød	ØD	L	L2	刀片 Insert	螺丝 Screw	扳手 Wrench	图示 Fig	重量 Weight (kg)	单价 RMB
512840	NBJ1606-24	6-9	16	62	24	WB..06..	M2.0x4	T6	1	0.077	200
512842	NBJ1608-32	8-11	16	80	32	TB..06..				0.077	200
512844	NBJ1608-90	8-11	16	138	90					0.100	300
512846	NBJ1610-40	10-13	16	87	40					0.082	200
512848	NBJ1610-90	10-13	16	138	90					0.110	300
512850	NBJ1612-53	12-15	16	98	53	TP..09..	M2.5x6	T8	1	0.095	200
512852	NBJ1612-90	12-15	16	138	90					0.130	300
512854	NBJ1614-60	14-17	16	108	60					0.110	200
512856	NBJ1614-100	14-17	16	148	100					0.155	300
512858	NBJ1616-68	16-21	16	110	68					0.143	200
512860	NBJ1616-100	16-21	16	148	100					0.210	300
512862	NBJ1616-120	16-21	16	168	120					0.260	400
512864	NBJ1616-150	16-21	16	198	150					0.290	500
512866	NBJ1620-83	20-26	16	125	83	TP..11..	M3.0x8	T8	2	0.203	200
512868	NBJ1620-150	20-26	16	198	150					0.300	400
512870	NBJ1620-200	20-26	16	248	200					0.390	500
512872	NBJ1625-90	25-31	16	128	90					0.275	200
512874	NBJ1625-150	25-31	16	198	150					0.390	400
512876	NBJ1625-200	25-31	16	248	200					0.510	500
512878	NBJ1630-90	30-36	16	128	90					0.275	200
512880	NBJ1630-150	30-36	16	198	150					0.415	400
512882	NBJ1630-200	30-36	16	248	200					0.520	500
512884	NBJ1635-90	35-41	16	128	90					0.283	300
512886	NBJ1640-90	40-46	16	128	90					0.286	300
512888	NBJ1645-90	45-51	16	128	90					0.310	300

※ 1.黑色标示规格为套装常用规格
2.切削加工时，小径搪刀杆以3倍直径伸出量为佳。

※ 1.The black mark specification is the common specification of the set,
2.When machining path of boring bar with 3 times the diameter of stickout is preferred.

NBH2084 微调精镗套装组合 NBH2084 Fine tuning fine boring set combination

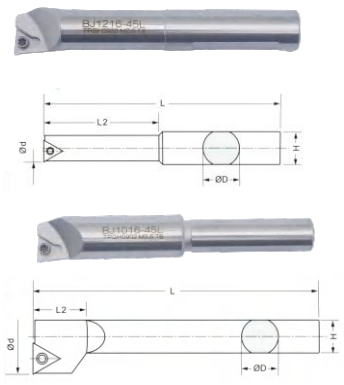




	型号 Model	重量 Weight (kg)	单价 RMB
512500	R8-NBH2084-8P	10.0	2000
512502	NT30-NBH2084-8P	8.4	2000
512504	NT40-NBH2084-8P	9.3	2000
512506	NT50-NBH2084-8P	10.8	2200
512508	BT40-NBH2084-8P	9.5	2000
512510	BT50-NBH2084-8P	12.0	2200

NBH20专用小径镗孔刀杆 NBH型 (镗孔范围Ø8-Ø280mm)

NBH20 special small diameter boring bar NBH type (boring range Ø 8-Ø 280mm)



编码 Order	型号 Model	尺寸 Size (mm) Ød	ØD	L	L2	刀片 Insert	螺丝 Screw	扳手 Wrench	图示 Fig	重量 Weight (kg)	单价 RMB
512520	NBH2008-32	8-11	20	80	32	TB..06..	M2.0x4	T6	1	0.095	200
512522	NBH2008-90	8-11	20	140	90					0.135	300
512524	NBH2010-40	10-13	20	87	40					0.095	200
512526	NBH2010-90	10-13	20	140	90					0.139	300
512528	NBH2012-53	12-17	20	98	53	TP..09..	M2.5x6	T8	1	0.12	200
512530	NBH2012-90	12-17	20	140	90					0.175	300
512532	NBH2016-68	16-21	20	110	68					0.16	200
512534	NBH2016-100	16-21	20	150	100					0.24	300
512536	NBH2016-150	16-21	20	200	150					0.31	400
512538	NBH2020-83	20-130	20	123	83	TP..11..	M3.0x8	T8	2	0.22	200
512540	NBH2020-125	20-130	20	175	125					0.31	300
512542	NBH2020-150	20-130	20	200	150					0.40	400
512544	NBH2020-200	20-130	20	250	200					0.50	500
512546	NBH2020-250	20-130	20	300	250					0.60	600
512548	NBH2025-96	25-135	20	137	96					0.34	200
512550	NBH2025-150	25-135	20	200	150					0.55	400
512552	NBH2025-200	25-135	20	250	200					0.65	500
512554	NBH2025-250	25-135	20	300	250					0.77	600
512556	NBH2030-115	30-140	20	152	115					0.54	200
512558	NBH2030-150	30-140	20	200	150					0.72	400
512560	NBH2030-200	30-140	20	250	200					0.91	500
512562	NBH2030-250	30-140	20	300	250					1.09	600
512564	NBH2020-L	120-200	20	100	16					0.23	200
512566	NBH2020L20-150	160-280	20	150	20					0.34	400
512568	NBH2020L20-200	280-330	20	200	20					0.41	500

1.黑色标示规格为套装常用规格
2.切削加工时，小径搪刀杆以3倍直径伸出量为佳。

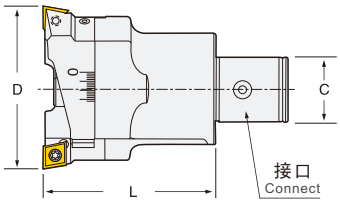
※ 1.The black mark specification is the common specification of the set,
2.When machining path of boring bar with 3 times the diameter of stickout is preferred.

TWE锯齿式双刃粗镗头 (加工范围20-204mm)

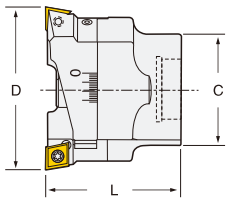
TWE Saw tooth type double edge rough boring head
Boring Range 20-204mm



A



B



编码 Order	型号 Model	接口 Connect	尺寸 Size (mm) Fig	C	L		镗孔范围 Boring Range	刀片 Insert	螺丝 Screw	刀片 Wrench	重量 Weight(kg)	单价 RMB
512600	TWE2026-C	LBK1	A	19	30		20-26	CC..0602..	M2.5x6	T8	0.1	857
512602	TWE2533-C	LBK2	A	24	40		25-33				0.2	914
512604	TWE3242-C	LBK3	A	31	50		32-42	CC..09T3..	M4.0x8	T15	0.3	980
512606	TWE4054-C	LBK4	A	39	60		40-54				0.5	1029
512608	TWE5270-C	LBK5	A	50	70		52-70				0.8	1429
512610	TWE6895-C	LBK6	A	64	90		68-95	CC..1204..	M5.0x12	T20	1.6	1571
512612	TWE90122-C	LBK6	A	95	100		90-122				2.8	1556
512614	TWE120164-C	BST	B	95	120		120-164				3.0	2667
512616	TWE160204-C	BST	B	95	150		160-204				3.8	3556

特点/Feature

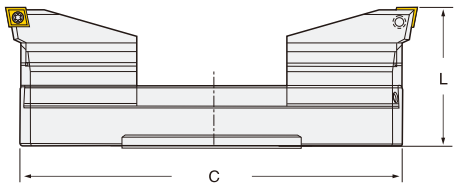
1.适用单刃镗孔，双刃镗孔及高低階镗孔。镗孔范围：LBK分体式20-122，BST分体式120-910。
2.新型锯齿滑座设计，加工时滑座承受的二个作用力相互抵消，具备良好的刚性和切削力，适用各形态的镗孔作业。
3.可依照不同加工需求，轻易调整镗刀，快速完成少量多样的加工。加工深度可配合延长杆至所需长度。
4.精密的侧边刻度，协助使用者轻易调整到所需的孔径范围。
5.适用在各型切削中心机或镗床配合使用，并可通装各厂商规格相同的刀片。节省刀具加工时间并大幅度提高镗孔效率。
6.高低断差设计，平刃或高低刃均可采用。
7.直径120以上大孔径镗刀，使用直接组件，结构简单刚性强。

1. It is suitable for single edge boring, double edge boring and high and low-level boring. Boring range: LBK split type 20-122, BST split type 120-910.
2. The new serrated sliding seat design, when machining, the two forces on the sliding seat offset each other, has good rigidity and cutting force, and is suitable for all kinds of boring operations.
3. The boring cutter can be adjusted easily according to different processing requirements to complete a small number of diverse processing quickly. The machining depth can be matched with the extension rod to the required length.
4. Precise side scale helps users easily adjust to the required aperture range.
5. It is suitable for use with all kinds of cutting center machines or boring machines, and can be installed with blades of the same specification from all manufacturers. It can save machining time and improve boring efficiency.
6. High and low break difference design, both flat blade and high and low blade can be used.
7. Large bore boring cutter with diameter more than 120, using direct components, simple structure and strong rigidity.

TWE大径太空铝双刃粗镗头(减重型) 加工范围200-800mm

TWE Large diameter space aluminum double edge rough boring head (reduced heavy) Boring Range 200-800mm





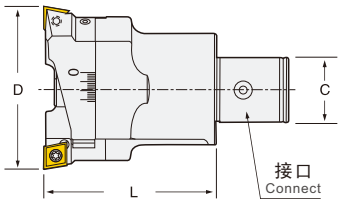
编码 Order	型号 Model	接口 Connect	尺寸 Size (mm) C	L	镗孔范围 Boring Range	刀片 Insert	螺丝 Screw	扳手 Wrench	重量 Weight(kg)	单价 RMB
512620	TWE200-310	BST	190	80	200-310	CC..1204..	M5.0x12	T20	3.7	3429
512622	TWE300-410	BST	290	80	300-410				4.7	6786
512624	TWE400-510	BST	390	80	400-510				5.7	8214
512626	TWE500-610	BST	490	80	500-610				7.0	8571
512628	TWE600-710	BST	590	80	600-710				8.0	16071
512630	TWE700-810	BST	690	80	700-810				9.5	19643

RBH 双刃粗镗头 (加工范围20-204mm)

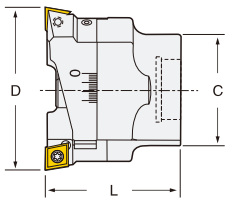
RBH double edge rough boring head (Boring Range 20-204mm)



A



B

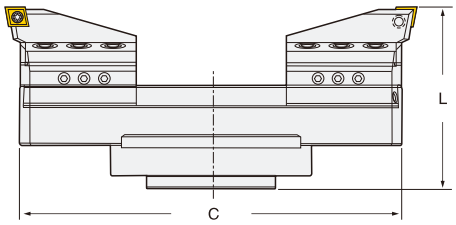


编码 Order	型号 Model	接口 Connect	尺寸 Size (mm) Fig	C	L		镗孔范围 Boring Range	刀片 Insert	螺丝 Screw	刀片 Wrench	重量 Weight(kg)	单价 RMB
512640	RBH1926-C	LBK1	A	19	50		19-26	CC..0602..	M2.5x6	T8	0.1	325
512642	RBH2533-C	LBK2	A	24	50		25-33				0.2	325
512644	RBH3242-C	LBK3	A	31	55		32-42				0.3	375
512646	RBH4055-C	LBK4	A	39	75		40-55	CC..09T3..	M4.0x8	T15	0.5	500
512648	RBH5270-C	LBK5	A	50	75		52-70				0.8	800
512650	RBH6892-C	LBK6	A	64	85		68-92	CC..1204..	M5.0x12	T20	1.6	1000
512652	RBH90122-C	LBK6	A	95	100		90-122				2.8	1438
512654	RBH120164-C	BST	B	95	95		120-164				3.0	1785
512656	RBH160204-C	BST	B	95	95		160-204				3.8	2125

RBH 大径双刃粗镗头 (加工范围200-1200mm)

RBH Large diameter double edge rough boring head (Boring Range 200-800mm)



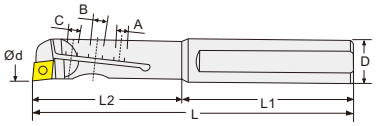


编码 Order	型号 Model	接口 Connect	尺寸 Size (mm) C	L	镗孔范围 Boring Range	刀片 Insert	螺丝 Screw	扳手 Wrench	重量 Weight(kg)	单价 RMB
512660	RBH200-310	BST	180	130	200-310	CC..1204..	M5.0x12	T20	9.7	3000
512662	RBH300-410	BST	280	130	300-410				11.7	5938
512664	RBH400-510	BST	380	130	400-510				13.7	7188
512666	RBH500-610	BST	480	130	500-610				15.7	7500
512668	RBH600-950	BST	580	130	600-950				17.7	14063
512670	RBH900-1200	BST	680	130	900-1200				19.7	17188

SCT 可调节镗刀杆

SCT adjustable boring bar



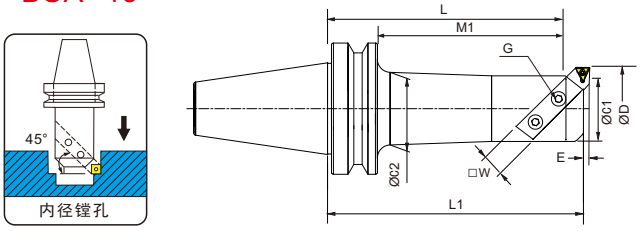


编码 Order	型号 Model	尺寸 Size (mm) L	L1	L2	ØD	镗孔范围 $d_{(min)}$	$d_{(max)}$	螺丝 Screw A	B	C	配件 Parts	单价 RMB
512680	SCT-10	100	70	30	10	10	12	M3x5	M4x8	M3x4	CC..06.. M2.5x6 T8	1100
512682	SCT-12	105	65	40	12	12	15	M3x6.5	M4x10	M3x5.5		1100
512684	SCT-15	110	60	50	16	15	20	M4x8	M5x12	M4x6		1100
512686	SCT-20	120	60	60	20	20	25	M4x10	M5x16.5	M4x8		1100
512688	SCT-25	140	70	70	25	25	30	M5x14	M6x20	M5x11	CC..09.. M4.0x8 T15	1300
512690	SCT-30	160	70	90	25	30	35	M5x16	M6x25	M5x13.5		1300
512692	SCT-35	170	70	100	32	35	40	M6x18.5	M8x30	M6x16		1300
512694	SCT-40	190	70	120	32	40	45	M6x21	M8x35	M6x18		1300
512696	SCT-45	220	70	150	40	45	50	M6x24	M8x40	M6x21		1300

BS 可调式粗镗孔刀柄
BS Adjustable rough boring toolholder

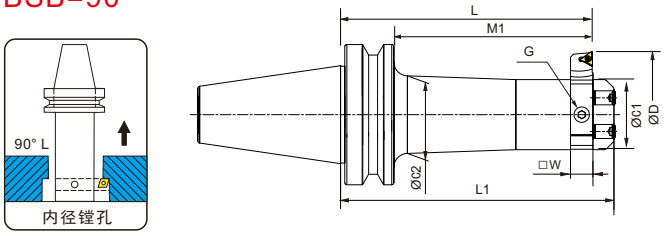


BSA=45°





BSB=90°



粗镗刀,适于通孔及盲孔加工
1.滑槽与刀刃平行
2.镗刀头单独定购
3.注意D的最小尺寸与L,L1,L2

Boring Rough boring cutter, suitable for through hole and blind hole machining
1. The chute is parallel to the blade
2. Boring head ordered separately
3. Pay attention to the minimum dimension of D and l.l1.l2

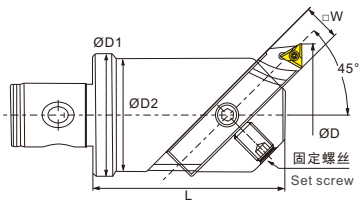
粗镗刀，适于通孔，也可用来反镗。
Coarse boring cutter is suitable for through hole and reverse boring.

编码 Order	型号 Model	镗孔范围 D(min)	D(max)	尺寸 Size (mm) L	M1	C1	C2	E	□W	单价 RMB
512300	BT30-BSA 20-105	20	30	105	85	17	19	–	6	
512302	25-120	25	38	120	100	20	24	1	8	
512304	25-160	25	38	160	140	20	24	1	8	
512306	30-150	30	42	150	130	24	28	1.6	8	
512308	30-180	30	42	180	160	24	28	1.6	8	
512310	30-210	30	42	210	190	24	28	1.6	8	
512312	38-165	38	52	165	145	30	36	2.6	10	
512314	50-165	50	65	165	145	40	48	3	13	
512316	50-210	50	65	210	190	40	48	3	13	
512318	BT40-BSA 25-135	25	38	135	110	20	24	1	8	
512320	30-150	30	42	150	125	24	28	1.6	8	
512322	38-165	38	52	165	140	30	36	2.6	10	
512324	50-165	50	65	165	140	40	48	3	13	
512326	50-210	50	65	210	185	40	48	3	13	
512328	62-165	62	90	165	140	50	48	2	16	
512330	62-225	62	90	225	200	50	58	2	16	
512332	72-165	72	110	165	140	60	60	2.4	19	
512334	72-225	72	110	225	200	60	60	2.4	19	
512336	90-165	90	125	165	140	75	62	4	19	
512338	90-210	90	125	210	185	75	62	4	19	
512340	BT50-BSA 25-135	25	38	135	100	20	24	1	8	
512342	30-165	30	42	165	130	24	28	1.6	8	
512344	38-180	38	52	180	145	30	36	2.6	10	
512346	38-230	38	52	230	195	30	36	2.6	10	
512348	42-210	42	56	210	175	34	38	2	10	
512350	42-240	42	56	240	205	34	38	2	10	
512352	50-180	50	65	180	145	40	48	3	13	
512354	50-240	50	65	240	205	40	48	3	13	
512356	50-270	50	65	270	235	40	48	3	13	
512358	50-300	50	65	300	265	40	48	3	13	
512360	62-195	62	90	195	160	50	58	2	16	
512362	62-240	62	90	240	205	50	58	2	16	
512364	62-270	62	90	270	235	50	58	2	16	
512366	62-300	62	90	300	265	50	58	2	16	
512368	72-195	72	110	195	160	60	68	2.4	19	
512370	72-240	72	110	240	205	60	68	2.4	19	
512372	72-285	72	110	285	250	60	68	2.4	19	
512374	72-320	72	110	320	285	60	68	2.4	19	
512376	90-210	90	125	210	175	75	74	4	19	
512378	90-250	90	125	250	215	75	76	4	19	
512380	90-300	90	125	300	265	75	76	4	19	
512382	105-195	105	160	195	160	90	76	3	25	
512384	105-285	105	160	285	250	90	76	3	25	

编码 Order	型号 Model	镗孔范围 D(min)	D(max)	尺寸 Size (mm) L	M1	C1	C2		□W	单价 RMB
512400	BT30-BSB 20-105	20	30	105	85	17	19		6	
512402	25-120	25	38	120	100	20	24		8	
512404	25-160	25	38	160	140	20	24		8	
512406	30-150	30	42	150	130	24	28		8	
512408	30-165	30	42	180	160	24	28		8	
512410	30-210	30	42	210	190	24	28		8	
512412	38-165	38	52	165	145	30	36		10	
512414	50-165	50	65	165	145	40	48		13	
512416	50-210	50	65	210	190	40	48		13	
512418	BT40-BSB 25-135	25	38	135	110	20	24		8	
512420	38-165	38	52	165	140	30	36		10	
512422	50-165	50	65	165	140	40	48		13	
512424	50-210	50	65	210	185	40	48		13	
512426	62-165	62	90	165	140	50	54		16	
512428	62-225	62	90	225	200	50	56		16	
512430	72-165	72	110	165	140	60	60		19	
512432	72-225	72	110	225	200	60	60		19	
512434	90-165	90	125	165	140	75	75		19	
512436	90-210	90	125	210	185	75	64		19	
512438	BT50-BSB 25-135	25	38	135	100	20	24		8	
512440	38-180	38	52	180	145	30	38		10	
512442	38-230	38	52	230	195	30	38		10	
512444	42-210	42	56	210	175	34	38		10	
512446	42-240	42	56	240	205	34	38		10	
512448	50-180	50	65	180	145	40	48		13	
512450	50-240	50	65	240	205	40	48		13	
512452	50-270	50	65	270	235	40	48		13	
512454	50-300	50	65	300	265	40	48		13	
512456	62-195	62	90	195	160	50	58		16	
512458	62-240	62	90	240	205	50	58		16	
512460	62-270	62	90	270	235	50	58		16	
512462	62-300	62	90	300	265	50	58		16	
512464	62-330	72	110	195	160	60	68		19	
512466	72-195	72	110	240	205	60	68		19	
512468	72-240	72	110	285	250	60	68		19	
512470	72-285	72	110	320	285	60	68		19	
512472	90-210	90	125	210	175	75	80		19	
512474	90-250	90	125	250	215	75	80		19	
512476	90-300	90	125	300	265	75	80		19	
512478	105-195	105	160	195	160	90	-		25	
512480	105-285	105	160	285	250	90	94		25	

BSA 45° 斜角型
BSA 45° Bevel Angle

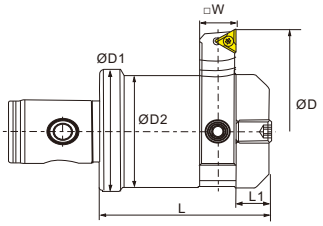




编码 Order	型号 Model	镗孔范围 D(min)	D(max)	尺寸 Size (mm) L	D1	D2		□W	固定螺丝 Set screw	单价 RMB
513300	BSA 25-LBK2	25	38	35	24	24		8	M6x1	400
513302	30-LBK2	30	42	40	24	24		8	M6x1	400
513304	38-LBK3	38	52	60	31	60		10	M8x1.25	425
513306	50-LBK4	50	65	70	42	40		13	M10x1.5	500
513308	62-LBK5	65	90	85	55	50		16	M12x1.75	630
513310	72-LBK6	72	110	98	63	60		19	M12x1.75	765
513312	90-LBK6	90	125	100	80	75		19	M12x1.75	1450
513314	105-LBK6	105	160	100	91	90		25	M12x1.75	2000

BSB 90°斜角型
BSB 90° Bevel Angle





编码 Order	型号 Model	镗孔范围 D(min)	D(max)	尺寸 Size (mm) L	D1	D2		□W	固定螺丝 Set screw	单价 RMB
513320	BSB 25-LBK2	26	52	45	24	20		8	M6x1	400
513322	38-LBK3	38	70	55	31	30		10	M8x1.25	425
513324	50-LBK4	50	90	60	42	40		13	M10x1.5	500
513326	62-LBK5	62	115	70	55	50		15	M12x1.75	630
513328	72-LBK6	72	135	85	63	60		19	M12x1.75	765
513330	90-LBK6	90	150	100	80	75		19	M12x1.75	1450
513332	105-LBK6	105	190	100	90	90		25	M12x1.75	2000
513334										

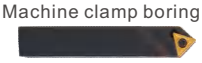
TBS-30° 舍弃式镗孔刀杆
TBS-30° Machine clamp boring tool bar





编码 Order	型号 Model	镗孔范围		尺寸Size (mm)		刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
		$D_{(min)}$	$D_{(max)}$	L	D				
513340	TBS 306-20L	20	30	20	6	TC..0902..	M2.2x6	T6	300
513342	308-25L	25	42	25	8				300
513344	310-36L	38	50	36	10				300
513346	313-48L	50	70	48	13	TC..1102..	M2.5x6	T8	300
513348	316-60L	70	90	60	16	TC..16T3..	M4.0x9	T15	400
513350	319-90L	90	135	90	19				500
513352	325-135L	140	190	135	25				600

TBS-45° 舍弃式镗孔刀杆
TBS-45° Machine clamp boring tool bar

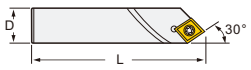




编码 Order	型号 Model	镗孔范围		尺寸Size (mm)		刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
		$D_{(min)}$	$D_{(max)}$	L	D				
513360	TBS 406-20L	20	30	20	6	TC..0902..	M2.2x6	T6	300
513362	408-25L	25	42	25	8				300
513364	410-45L	38	52	45	10				200
513366	410-50L	42	56	50	10				200
513368	413-60L	50	65	60	13	TC..1102..	M2.5x6	T8	300
513370	416-75L	62	90	75	16	TC..16T3..	M4.0x9	T15	300
513372	419-90L	72	110	90	19				400
513374	419-115L	90	125	115	19				500
513376	425-130L	105	160	130	25				600

CBS-30° 舍弃式镗孔刀杆
CBS-30° Machine clamp boring tool bar





编码 Order	型号 Model	镗孔范围		尺寸Size (mm)		刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
		$D_{(min)}$	$D_{(max)}$	L	D				
513410	CBS 306-20L	20	30	20	6	CC..0602..	M2.5x6	T8	300
513412	308-25L	25	42	25	8				300
513414	310-36L	38	50	36	10				300
513416	313-48L	50	70	48	13	CC..09T3..	M4.0x9	T15	300
513418	316-60L	70	90	60	16				400
513420	319-90L	90	135	90	19	CC..1204..	M5.0x12	T20	500
513422	325-135L	140	190	135	25				600

CBS-45° 舍弃式镗孔刀杆
CBS-45° Machine clamp boring tool bar





编码 Order	型号 Model	镗孔范围		尺寸Size (mm)		刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
		$D_{(min)}$	$D_{(max)}$	L	D				
513430	CBS 406-20L	20	30	20	6	CC..0602..	M2.5x6	T8	300
513432	408-30L	25	38	30	8				300
513434	408-35L	30	42	35	8				200
513436	410-45L	38	52	45	10				200
513438	410-50L	42	56	50	10				300
513440	413-60L	50	65	60	13	CC..09T3..	M4.0x9	T15	300
513442	413-75L	62	90	75	13				400
513444	419-115L	90	125	115	19	CC..1204..	M5.0x12	T20	500
513446	425-130L	105	160	130	25				600

SBS-30° 舍弃式镗孔刀杆
SBS-30° Machine clamp boring tool bar





编码 Order	型号 Model	镗孔范围		尺寸Size (mm)		刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
		$D_{(min)}$	$D_{(max)}$	L	D				
513480	SBS 306-20L	20	30	20	6	TP..0902..	M2.5x6	T8	300
513482	308-25L	25	42	25	8				300
513484	310-36L	38	50	36	10				300
513486	313-48L	50	70	48	13	TP..1103..	M3.0x8	T10	300
513488	316-60L	70	90	60	16	TP..1603..	M4.0x9	T15	400
513490	319-90L	90	135	90	19				500
513492	325-135L	140	190	135	25				600

SBS-45° 舍弃式镗孔刀杆
SBS-45° Machine clamp boring tool bar





编码 Order	型号 Model	镗孔范围		尺寸Size (mm)		刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
		$D_{(min)}$	$D_{(max)}$	L	D				
513500	SBS 406-20L	20	30	20	6	TP..0902..	M2.5x6	T8	300
513502	408-25L	25	42	25	8				300
513504	410-45L	38	52	45	10				200
513506	410-50L	42	56	50	10				200
513508	413-60L	50	65	60	13	TP..1103..	M3.0x8	T10	300
513510	416-75L	62	90	75	16	TP..1603..	M4.0x9	T15	300
513512	419-90L	72	110	90	19				400
513514	419-115L	90	125	115	19				500
513516	425-130L	105	160	130	25				600

TBS-90° 舍弃式镗孔刀杆
TBS-90° Machine clamp boring tool bar

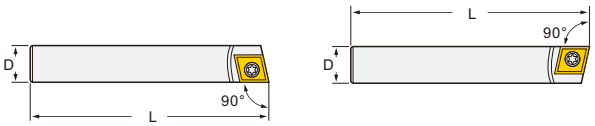




编码 Order	型号 Model	镗孔范围		尺寸Size (mm)		刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
		$D_{(min)}$	$D_{(max)}$	L	D				
513380	TBS 906-20L/R	20	30	20	6	TC..0902..	M2.2x6	T6	200
513382	908-25L/R	25	42	25	8				200
513384	910-36L/R	38	50	36	10				200
513386	910-45L/R	50	70	45	10				200
513388	913-48L/R	50	70	48	13	TC..1102..	M2.5x6	T8	200
513390	913-65L/R	70	90	65	13				200
513392	916-60L/R	62	90	60	16	TC..16T3..	M4.0x9	T15	200
513394	916-80L/R	90	115	80	16				200
513396	919-70L/R	72	105	70	19				300
513398	919-85L/R	105	115	85	19				300
513400	919-90L/R	90	135	90	19				300
513402	919-105L/R	105	150	105	19				400
513404	925-100L/R	115	140	100	25				500
513406	925-135L/R	140	190	135	25				600

CBS-90° 舍弃式镗孔刀杆
CBS-90° Machine clamp boring tool bar





编码 Order	型号 Model	镗孔范围		尺寸Size (mm)		刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
		$D_{(min)}$	$D_{(max)}$	L	D				
513450	CBS 906-20L/R	20	30	20	6	CC..0602..	M2.5x6	T8	200
513452	908-23L/R	25	38	23	8				200
513454	908-30L/R	32	52	30	8				200
513456	910-36L/R	38	50	36	10				200
513458	910-45L/R	50	70	45	10				200
513460	913-48L/R	50	70	48	13	CC..09T3..	M4.0x9	T15	200
513462	913-65L/R	70	90	65	13				200
513464	916-60L/R	62	90	60	16				200
513466	916-80L/R	90	115	80	16				200
513468	919-70L/R	72	105	70	19	CC..1204..	M5.0x12	T20	300
513470	919-90L/R	105	135	90	19				300
513472	919-85L/R	90	115	85	19				300
513474	919-105L/R	115	150	105	19				400
513476	925-100L/R	105	140	100	25				500
513478	925-135L/R	140	190	135	25				600

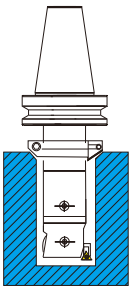
SBS-90° 舍弃式镗孔刀杆
SBS-90° Machine clamp boring tool bar

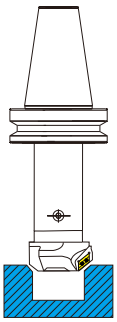


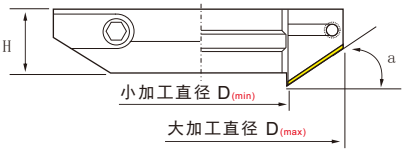


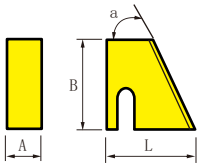
编码 Order	型号 Model	镗孔范围		尺寸Size (mm)		刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
		$D_{(min)}$	$D_{(max)}$	L	D				
513520	SBS 906-20L/R	20	30	20	6	TP..0902..	M2.5x6	T8	200
513522	908-25L/R	25	42	25	8				200
513524	910-36L/R	38	50	36	10				200
513526	910-45L/R	50	70	45	10				200
513528	913-48L/R	50	70	48	13	TP..1103..	M3.0x8	T10	200
513530	913-65L/R	70	90	65	13				200
513532	916-60L/R	62	90	60	16	TP..1603..	M4.0x9	T15	200
513534	916-80L/R	90	115	80	16				200
513536	919-70L/R	72	105	70	19				300
513538	919-85L/R	105	115	85	19				300
513540	919-90L/R	90	135	90	19				300
513542	919-105L/R	105	150	105	19				400
513544	925-100L/R	115	140	100	25				500
513546	925-135L/R	140	190	135	25				600

LBK 倒角刀
LBK Chamfering cutter



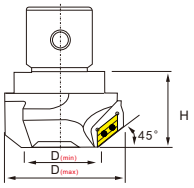


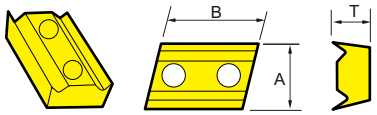




编码 Order	型号 Model	镗孔范围 D(min)	镗孔范围 D(max)	高度 H	接口 LBK	刀片 Insert	单价 RMB
513121	ZC1-35	20	35	13	LBK1		
513122	ZC2-42	25	42	15	LBK2	ZM1-45	
513123	ZC3-49	32	49	15	LBK3	ZM1-30	
513124	ZC4-57	41	57	15	LBK4		
513125	ZC5-90	53	90	25	LBK5		
513126	ZC6-104	68	104	25	LBK6	ZM2-45	
513127	ZC7-138	98	138	25	LBK6	ZM2-30	
513128	ZC8-160	120	160	25	LBK6		

编码 Order	型号 Model	尺寸 Size (mm) L	A	B	a	刀片 Insert	单价 RMB
513130	ZM1-45	23.5	4	9	45°	CK1-CK4	
513131	ZM2-45	43	8	20	45°	CK5-CK6	
513132	ZM1-30	27.5	4	9	30°	CK1-CK4	
513133	ZM2-30	52	8	20	30°	CK5-CK6	





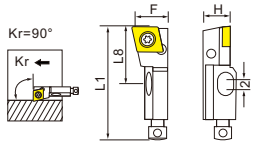
编码 Order	型号 Model	镗孔范围 D(min)	镗孔范围 D(max)	高度 H	接口 LBK	刀片 Insert	配件 Parts
513140	LBK2-C0525	5	25	25	LBK2	CW1206A	M2/T6
513141	LBK4-C1040	10	40	35	LBK4	CW1909A	M3/T8
513142	LBK5-C3060	30	60	40	LBK5	CW1909A	M3/T8
513143	LBK5-C50100	50	100	65	LBK6	CW3115A	M5/T20

编码 Order	型号 Model	尺寸 Size (mm) A	B	T	单价 RMB
513150	CW1206A	6.35	12.7	2.7	
513151	CW1909A	9.525	4.5	4.5	
513152	CW3115A	15.875	7.0	7.0	

卡式刀座 Cutter Toolholder

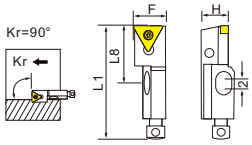
SCFCR





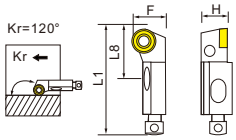
编码 Order	型号 Model	尺寸 Size (mm) L1	L8	F	H	Dm	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513200	STFCR- 08CA-06	32	15	10	8	25	CC..0602..	M2.5x6	T8	500
513202	10CA-09	50	30	14	10	40	CC..09T3..	M4.0x9	T15	500

STFPR



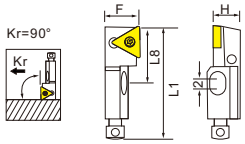
编码 Order	型号 Model	尺寸 Size (mm) L1	L8	F	H	Dm	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513218	STFPR- 08CA-09	32	15	10	8	25	TP..0902..	M2.5x6	T8	500
513220	10CA-11	50	30	14	10	40	TP..1103..	M3.0x8	T10	500
513222	12CA-16	55	35	20	12	50	TP..1603..	M4.0x9	T15	500

SRSCR



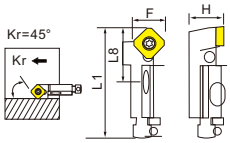
编码 Order	型号 Model	尺寸 Size (mm) L1	L8	F	H	Dm	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513208	SRSCR- 10CA-10	50	30	14	10	40	RC..10T3..	M3.5x8	T15	500

STGCL



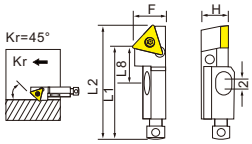
编码 Order	型号 Model	尺寸 Size (mm) L1	L8	F	H	Dm	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513224	STGCL 12CA-16	32	35	20	12	75	TC..16T3..	M4.0x9	T15	500

SSSPR



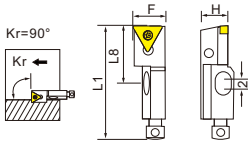
编码 Order	型号 Model	尺寸 Size (mm) L1	L8	F	H	Dm	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513210	SSSPR- 10CA-09	50	30	14	10	40	SP..0903..	M3.5x8	T15	500

STSPR



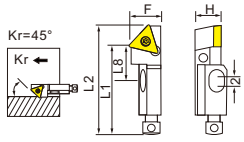
编码 Order	型号 Model	尺寸 Size (mm) L1	L8	F	H	Dm	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513230	STSPR- 08CA-09	28	11	10	8	25	TP..0902..	M2.5x6	T8	500
513232	10CA-11	44	24	14	10	40	TP..1103..	M3.0x8	T10	500
513234	12CA-16	47	27	20	12	50	TP..1603..	M4.0x9	T15	500

STFCR



编码 Order	型号 Model	尺寸 Size (mm) L1	L8	F	H	Dm	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513212	SSSPR- 08CA-09	32	15	10	8	25	TC..0902..	M2.2x5	T6	500
513214	10CA-11	50	30	14	10	40	TC..1102..	M2.5x6	T8	500
513216	12CA-16	55	35	20	12	50	TC..16T3..	M4.0x9	T15	500

STSCR



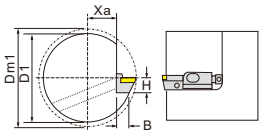
编码 Order	型号 Model	尺寸 Size (mm) L1	L8	F	H	Dm	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513236	STSCR- 08CA-09	28	11	10	8	25	TC..0902..	M2.2x5	T6	500
513238	10CA-11	44	24	14	10	40	TC..1102..	M2.5x6	T8	500
513240	12CA-16	47	27	20	12	50	TC..16T3..	M4.0x9	T15	500

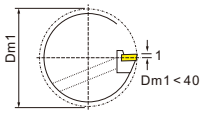
轴向安装
Axial mounting

$D1=2\sqrt{H^2+(B(\pm)xa)^2}$

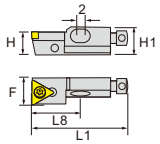
$Xa=\frac{Dm1}{2}-F$

Axial adjust=±1mm
Radial adjust=+0.5mm





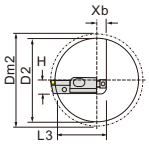
径向安装
Radial mounting



$Xb=L1-\frac{Dm2}{2}$

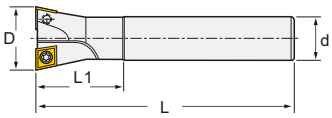
Axial adjust=+0.5mm
Radial adjust=±1mm

$D2=2\sqrt{H^2+(L3(\pm)xb)^2}$



TBL 固定式双刃粗镗刀杆
TBL Fixed double edge rough boring bar

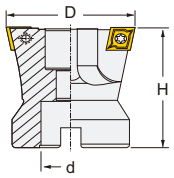




编码 Order	型号 Model	尺寸 Size (mm) D	d	L1	L	刃数 Edge	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513600	TBL 8-130-C16	7.7	16	35	130	1				400
513602	9-130-C16	8.7	16	40	130	1				400
513604	10-130-C16	9.7	16	45	130	1				400
513606	11-130-C16	10.7	16	55	130	1				400
513608	12-130-C16	11.7	16	60	130	1				400
513610	13-130-C16	12.7	16	65	130	1				250
513612	14-130-C16	13.7	16	70	130	1				250
513614	15-110-C16	14.7	16	60	110	2				250
513616	15-150-C16	14.7	16	80	150	2				250
513618	16-110-C16	15.7	16	60	110	2				250
513620	16-160-C16	15.7	16	80	160	2				250
513622	16-240-C16	15.7	16	160	240	2				750
513624	17-110-C16	16.7	16	40	110	2				250
513626	17-160-C16	16.7	16	40	160	2				250
513628	17-240-C16	16.7	16	40	240	2				750
513630	18-110-C16	17.7	16	40	110	2				250
513632	18-160-C16	17.7	16	40	160	2				250
513634	18-240-C16	17.7	16	40	240	2				750
513636	19-110-C16	18.7	16	40	110	2	CC..0602..	M2.5x6	T8	250
513638	19-160-C16	18.7	16	40	160	2				250
513640	19-240-C16	18.7	16	40	240	2				750
513642	20-110-C16	19.7	16	40	110	2				250
513644	20-160-C16	19.7	16	40	160	2				250
513646	20-240-C16	19.7	16	40	240	2				750
513648	21-120-C20	20.7	20	40	120	2				300
513650	21-180-C20	20.7	20	40	180	2				300
513652	21-260-C20	20.7	20	40	260	2				1000
513654	22-120-C20	21.7	20	40	120	2				300
513656	22-180-C20	21.7	20	40	180	2				300
513658	22-260-C20	21.7	20	40	260	2				1000
513660	23-120-C20	22.7	20	40	120	2				300
513662	23-160-C20	22.7	20	40	160	2				300
513664	23-260-C20	22.7	20	40	260	2				1000
513666	24-120-C20	23.7	20	40	120	2				300
513668	24-180-C20	23.7	20	40	180	2				300
513670	24-260-C20	23.7	20	40	260	2				1000
513672	25-120-C20	24.7	20	40	120	2				300
513674	25-180-C20	24.7	20	40	180	2				300
513676	25-260-C20	24.7	20	40	260	2				1250
513678	26-120-C20	25.7	20	40	120	2				400
513680	26-180-C20	25.7	20	40	180	2				400
513682	26-260-C20	25.7	20	40	260	2				1250
513684	27-120-C20	26.7	20	40	120	2				400
513686	27-200-C20	26.7	20	40	200	2				400
513688	27-280-C20	26.7	20	40	280	2				1250
513690	28-120-C20	27.7	20	40	120	2				400
513692	28-200-C20	27.7	20	40	200	2				400
513694	28-280-C20	27.7	20	40	280	2				1250
513696	29-200-C25	28.7	25	40	200	2				400
513698	29-280-C25	28.7	25	40	280	2				1250
513700	30-160-C25	29.7	25	40	160	2				400
513702	30-200-C25	29.7	25	40	200	2				400
513704	30-280-C25	29.7	25	40	280	2				1250
513706	31-200-C25	30.7	25	40	200	2				500
513708	31-280-C25	30.7	25	40	280	2				1500
513710	32-160-C25	31.7	25	40	160	2				500
513712	32-210-C25	31.7	25	40	210	2				500
513714	32-280-C25	31.7	25	40	280	2				1500
513716	33-220-C32	32.7	32	40	220	2				500
513718	34-220-C32	33.7	32	40	220	2	CC..09T3..	M4.0x9	T15	500
513720	35-160-C32	34.7	32	40	160	2				500
513722	35-250-C32	34.7	32	40	250	2				550
513724	36-250-C32	35.7	32	40	250	2				550
513726	37-160-C32	36.7	32	40	160	2				550
513728	37-250-C32	36.7	32	40	250	2				550
513730	38-250-C32	37.7	32	40	250	2				550
513732	39-250-C32	38.7	32	40	250	2				550
513734	40-160-C32	39.7	32	40	160	2				550
513736	40-250-C32	39.7	32	40	250	2				600
513738	41-250-C32	40.7	32	40	250	2				600
513740	42-250-C32	41.7	32	40	250	2				600
513742	43-250-C32	42.7	32	40	250	2				600
513744	44-250-C32	43.7	32	40	250	2				600
513746	45-250-C32	44.7	32	40	250	2				800
513748	46-250-C32	45.7	32	40	250	2				800
513750	47-250-C32	46.7	32	40	250	2				800
513752	48-250-C32	47.7	32	40	250	2				800
513754	49-250-C32	48.7	32	40	250	2				950
513756	50-250-C32	49.7	32	40	250	2				950

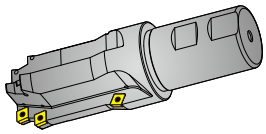
TBC 固定式双刃粗镗头
TBC Fixed double edge rough boring head



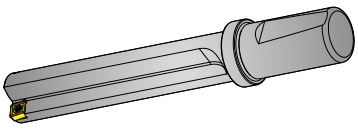


编码 Order	型号 Model	尺寸 Size (mm) D	d	H	刃数 Edge	刀片 Insert	螺丝 Screw	扳手 Wrench	单价 RMB
513760	TBC 22-45	44.7	22	50	2				1150
513762	22-50	49.7	22	50	2	CC..09T3..	M4.0x9	T15	1150
513764	22-55	54.7	22	50	2				1150
513766	22-60	59.7	22	50	2				1150
513768	TBC 27-60	59.7	27	50	2				1150
513770	27-65	64.7	27	50	2				1275
513772	27-70	69.7	27	50	2				1275
513774	27-75	74.7	27	50	2				1275
513776	27-80	79.7	27	50	2	CC..09T3..	M4.0x9	T15	1275
513778	27-85	84.7	27	50	2				1275
513780	27-90	89.7	27	50	2				1500
513782	27-95	94.7	27	50	2				1500
513784	27-100	99.7	27	50	2				1500
513786	TBC 32-105	104.7	32	63	2				1500
513788	32-110	109.7	32	63	2				1750
513790	32-115	114.7	32	63	2	CC..09T3..	M4.0x9	T15	1750
513792	32-120	119.7	32	63	2				1750
513794	32-125	124.7	32	63	2				1750
513796	32-130	129.7	32	63	2				1750

非标孔加工刀具
Nonstandard tool for boring



削平柄复合镗刀
Compound boring cutter



定尺寸扩孔钻
Fixed size drill

1.高效率：一把刀具可以在一次进给中完成多工序加工。
2.高刚性：由于是量身定制，刀具可以按加工要求设计成最高刚性结构。
3.超灵活：无论是超长超大还是特殊形状的刀具都能为您定制。

1. High efficiency: one tool can complete multi process processing in one feed.
2. High rigidity: because it is customized, the cutting tool can be designed into the highest rigidity structure according to the processing requirements.
3. Super flexible: both super long and super large cutters and special shaped cutters can be customized for you.

※ 定制非标刀具的一般步骤：
Custom non-standard tool of the general steps:

第一步：提供工件加工图纸，并详细注明需要加工位置的尺寸要求及工件的材质、硬度。
step1: providing workpiece drawings, and detailed processing of specifying a location of the size requirements and the workpiece material, hardness.

第二步：指定刀具柄部的型式，可以是BT等整体式主轴柄，也可以是削平柄或斜削平柄等直柄或其它任何形式的接口。
step2: Specify the type of tool shank, which can be integral spindle handle BT, etc. may also be a leveling out or raked flat shank straight shank handle, etc. or any other form of interface.

第三步：尽可能详细的提供下述资料以便我们为您量身定制最符合您需求的刀具。
step3: to provide the following information as detailed as possible so that we can provide you customized tool that best meets your needs.

机床类型 Machine Type_____
机床功率 (KW)Machine power (KW)_____
最大转速 (RPM)Maximum Speed (RPM)_____
最大冷却液压力 Maximum Coolant Pressure_____
钻头旋转 Rotary Drill ☐ 工件旋转 Workpiece rotation ☐
垂直钻削 Vertical Drilling ☐ 水平钻削 The level of drilling ☐
冷却方式 Cooling 内冷 Cooled ☐ 外冷 External cooling ☐
机床刚性 Machine rigidity 高 High ☐ 一般 Common ☐ 差 Low ☐

1. 如果您已经有设计好的非标刀具图纸，那么仅提供刀具图纸我们就可以为您加工。
1.If you already have designed non-standard drawing tools, then we can only provide tools that you are drawing processing.
2. 尽可能详细的提供您需要定制刀具的相关资料，资料越详细，定制的刀具将越合用。
2.Much detail as possible you need to customize the tool to provide relevant information, data more detailed, customized tool will be more shared.
3. 如果您还有其它要求请直接与我们的工程师沟通。
3.If you have other requirements please communicate directly with our engineers.

直柄标准麻花钻头 Straight Shank Drill

产品编码：525...

尺寸			单价(人民币)	
刃径	刃长	全长	L6542	M35
0.2	3	19	72	
0.3	3.5	20	59	
0.4	5.5	24	547	
0.5	7.5	27	7	9
0.6	8.5	30	7	9
0.7	10	32	7	9
0.8	11	34	7	9
0.9	13	36	7	9
1.0	18	40	7	9
1.1	20	42	7	9
1.2	20	42	7	9
1.3	22	45	7	9
1.4	23	48	7	9
1.5	23	48	7	9
1.6	25	50	8	10
1.7	25	50	8	10
1.8	28	52	8	10
1.9	28	52	8	10
2.0	29	55	8	10
2.1	29	55	8.5	11
2.2	33	58	8.5	11
2.3	33	58	8.5	11
2.4	35	61	8.5	11
2.5	35	61	8.5	11
2.6	37	64	10	13
2.7	37	64	10	13
2.8	39	67	10	13
2.9	42	71	10	13
3.0	42	71	10	13
3.1	42	71	11	14
3.2	42	71	11	14
3.3	45	73	11	14
3.4	45	73	11	14
3.5	45	73	11	14
3.6	48	76	13	16
3.7	48	76	13	16
3.8	48	76	13	16
3.9	51	79	13	16
4.0	54	83	13	16
4.1	54	83	17	21
4.2	54	83	17	21
4.3	54	83	18	23
4.4	56	86	18	23
4.5	56	86	18	23
4.6	56	86	20	25
4.7	59	89	20	25
4.8	59	89	20	25
4.9	62	92	20	25
5.0	62	92	20	25
5.1	62	92	24	30
5.2	64	95	24	30
5.3	64	95	26	33
5.4	64	95	26	33
5.5	64	95	26	33
5.6	67	98	29	36
5.7	67	98	29	36
5.8	67	98	29	36
5.9	67	98	29	36
6.0	70	102	29	36
6.1	70	102	33	41
6.2	70	102	33	41
6.3	70	102	33	41
6.4	73	105	33	41
6.5	73	105	33	41
6.6	73	105	39	49
6.7	73	105	39	49
6.8	73	105	39	49
6.9	73	105	39	49
7.0	73	105	39	49
7.1	75	108	47	59
7.2	75	108	47	59
7.3	75	108	47	59
7.4	78	111	47	59



尺寸			单价(人民币)	
刃径	刃长	全长	L6542	M35
7.5	78	111	47	59
7.6	78	111	55	69
7.7	81	114	55	69
7.8	81	114	55	69
7.9	81	114	55	69
8.0	81	114	55	69
8.1	84	117	69	86
8.2	84	117	69	86
8.3	84	117	69	86
8.4	87	121	69	86
8.5	87	121	69	86
8.6	87	121	76	95
8.7	87	121	76	95
8.8	89	124	76	95
8.9	89	124	76	95
9.0	89	124	76	95
9.1	89	124	83	104
9.2	92	127	83	104
9.3	92	127	83	104
9.4	92	127	83	104
9.5	92	127	83	104
9.6	95	130	93	116
9.7	95	130	93	116
9.8	95	130	93	116
9.9	95	130	93	116
10.0	95	130	93	116
10.1	98	133	105	131
10.2	98	133	105	131
10.3	98	133	105	131
10.4	98	133	105	131
10.5	100	137	105	131
10.6	100	137	113	141
10.7	100	137	113	141
10.8	103	140	113	141
10.9	103	140	113	141
11.0	103	140	113	141
11.1	103	140	125	156
11.2	106	143	125	156
11.3	106	143	125	156
11.4	106	143	125	156
11.5	106	143	125	156
11.6	109	146	136	170
11.7	109	146	136	170
11.8	109	146	136	170
11.9	109	146	136	170
12.0	111	149	136	170
12.1	111	149	150	188
12.2	111	149	150	188
12.3	111	149	150	188
12.4	114	152	150	188
12.5	114	152	150	188
12.6	114	152	160	200
12.7	114	152	160	200
12.8	114	152	160	200
12.9	114	152	160	200
13.0	114	152	160	200
13.5	122	168	195	244
14.0	122	168	245	306
14.5	122	168	308	385
15.0	132	181	370	463
15.5	132	181	423	529
16.0	132	181	440	550
16.5	132	181	485	606
17.0	143	194	530	663
17.5	143	194	550	688

直柄加长钻头 Straight shank lengthening drill bit



尺寸			单价(人民币)	
刃径	刃长	全长	L6542	M35
1.0	35	75	10	13
	40	100	15	19
1.1	35	75	10	13
	40	100	15	19
1.2	35	75	10	13
	40	100	15	19
1.3	35	75	10	13
	40	100	15	19
1.4	35	75	10	13
	40	100	15	19
1.5	35	75	10	13
	40	100	15	19
1.6	35	75	10	13
	40	100	15	19
1.7	35	75	10	13
	40	100	15	19
1.8	35	75	10	13
	40	100	15	19
1.9	35	75	10	13
	40	100	15	19
2.0	40	100	10	13
	60	150	15	19
2.1	40	100	10	13
	60	150	15	19
2.2	40	100	10	13
	60	150	15	19
2.3	40	100	10	13
	60	150	15	19
2.4	40	100	10	13
	60	150	15	19
2.5	50	100	10	13
	60	150	33	41
	100	200	48	60
2.6	50	100	10	13
	75	150	33	41
	100	200	48	60
2.7	50	100	10	13
	75	150	33	41
	100	200	48	60
2.8	50	100	10	13
	75	150	33	41
	100	200	48	60
2.9	50	100	10	13
	75	150	33	41
	100	200	48	60
3.0	50	100	10	13
	75	150	33	41
	100	200	48	60
3.1	75	150	36	45
	100	200	48	60
3.2	75	150	36	45
	100	200	48	60
3.3	75	150	36	45
	100	200	48	60
3.4	75	150	36	45
	100	200	48	60
3.5	75	150	36	45
	100	200	48	60
3.6	75	150	46	58
	100	200	57	71
	120	250	76	95
	120	300	100	125
3.7	75	150	46	58
	100	200	57	71
	120	250	76	95
	120	300	100	125
3.8	75	150	46	58
	100	200	57	71
	120	250	76	95
	120	300	100	125
3.9	75	150	46	58
	100	200	57	71
	120	250	76	95
	120	300	100	125

尺寸			单价(人民币)	
刃径	刃长	全长	L6542	M35
4.0	75	150	46	58
	100	200	57	71
	120	250	76	95
	120	300	100	125
4.1	75	150	49	61
	100	200	67	84
	120	250	86	108
	120	300	109	136
4.2	75	150	49	61
	100	200	67	84
	120	250	86	108
	120	300	109	136
4.3	75	150	49	61
	100	200	67	84
	120	250	86	108
	120	300	109	136
4.4	75	150	49	61
	100	200	67	84
	120	250	86	108
	120	300	109	136
4.5	75	150	49	61
	100	200	67	84
	120	250	86	108
	120	300	109	136
4.6	75	150	57	71
	100	200	76	95
	120	250	100	125
	130	300	119	149
	150	400	150	188
4.7	75	150	57	71
	100	200	76	95
	120	250	100	125
	130	300	119	149
	150	400	150	188
4.8	75	150	57	71
	100	200	76	95
	120	250	100	125
	130	300	119	149
	150	400	150	188
4.9	75	150	57	71
	100	200	76	95
	120	250	100	125
	130	300	119	149
	150	400	150	188
5.0	75	150	57	71
	100	200	76	95
	120	250	100	125
	130	300	119	149
	150	400	150	188
5.1	75	150	62	78
	100	200	81	101
	120	250	115	144
	130	300	135	169
	150	400	165	206
5.2	75	150	62	78
	100	200	81	101
	120	250	115	144
	130	300	135	169
	150	400	165	206
5.3	75	150	62	78
	100	200	81	101
	120	250	115	144
	130	300	135	169
	150	400	165	206
5.4	75	150	62	78
	100	200	81	101
	120	250	115	144
	130	300	135	169
	150	400	165	206
5.5	75	150	62	78
	100	200	81	101
	120	250	115	144
	130	300	135	169
	150	400	165	206

直柄加长钻头 Straight shank lengthening drill bit



尺寸			单价(人民币)	
刃径	刃长	全长	L6542	M35
5.6	100	150	69	86
	100	200	95	119
	120	250	125	156
	150	300	155	194
	180	400	220	275
	180	500	315	394
5.7	100	150	69	86
	100	200	95	119
	120	250	125	156
	150	300	155	194
	180	400	220	275
	180	500	315	394
5.8	100	150	69	86
	100	200	95	119
	120	250	125	156
	150	300	155	194
	180	400	220	275
	180	500	315	394
5.9	100	150	69	86
	100	200	95	119
	120	250	125	156
	150	300	155	194
	180	400	220	275
	180	500	315	394
6.0	100	150	69	86
	100	200	95	119
	120	250	125	156
	150	300	155	194
	180	400	220	275
	180	500	315	394
	200	600	500	625
6.1	100	150	69	86
	100	200	95	119
	120	250	125	156
	150	300	155	194
6.2	100	150	69	86
	100	200	95	119
	120	250	125	156
	150	300	155	194
6.3	100	150	69	86
	100	200	95	119
	120	250	125	156
	150	300	155	194
6.4	100	150	69	86
	100	200	95	119
	120	250	125	156
	150	300	155	194
6.5	100	200	105	131
	120	250	150	188
	150	300	175	219
	200	400	285	356
	200	500	370	463
	200	600	495	619
6.6	100	200	105	131
	120	250	150	188
	150	300	175	219
6.7	100	200	105	131
	120	250	150	188
	150	300	175	219
6.8	100	200	105	131
	120	250	150	188
	150	300	175	219
6.9	100	200	105	131
	120	250	150	188
	150	300	175	219
7.0	100	200	105	131
	120	250	150	188
	150	300	175	219
	200	400	285	356
	200	500	370	463
	200	600	495	619
7.1	100	200	105	131
	120	250	150	188
	150	300	175	219

刃径	刃长	全长	L6542	M35
7.2	100	200	120	150
	120	250	152	190
	150	300	250	313
7.3	100	200	120	150
	120	250	152	190
	150	300	250	313
7.4	100	200	120	150
	120	250	152	190
	150	300	250	313
7.5	100	200	120	150
	120	250	152	190
	150	300	250	313
	200	400	325	406
	200	500	390	488
	200	600	560	700
7.6	100	200	130	163
	120	250	165	206
	150	300	220	275
7.7	100	200	130	163
	120	250	165	206
	150	300	220	275
7.8	100	200	130	163
	120	250	165	206
	150	300	220	275
7.9	100	200	130	163
	120	250	165	206
	150	300	220	275
8.0	100	200	130	163
	120	250	165	206
	150	300	220	275
	200	400	330	413
	200	500	435	544
	200	600	620	775
8.1	100	200	145	181
	120	250	185	231
	150	300	238	298
8.2	100	200	145	181
	120	250	185	231
	150	300	238	298
8.3	100	200	145	181
	120	250	185	231
	150	300	238	298
8.4	100	200	145	181
	120	250	185	231
	150	300	238	298
8.5	100	200	145	181
	120	250	185	231
	150	300	238	298
	200	400	370	463
	200	500	475	594
	200	600	665	831
8.6	100	200	152	190
	120	250	195	244
	150	300	266	333
8.7	100	200	152	190
	120	250	195	244
	150	300	266	333
8.8	100	200	152	190
	120	250	195	244
	150	300	266	333
8.9	100	200	152	190
	120	250	195	244
	150	300	266	333
9.0	100	200	152	190
	120	250	195	244
	150	300	266	333
	200	400	399	499
	200	500	505	631
	200	600	695	869
9.1	100	200	162	203
	120	250	220	275
	150	300	285	356
9.2	100	200	162	203
	120	250	220	275
	150	300	285	356

尺寸			单价(人民币)	
刃径	刃长	全长	L6542	M35
9.3	100	200	162	203
	120	250	220	275
	150	300	285	356
9.4	100	200	162	203
	120	250	220	275
	150	300	285	356
9.5	100	200	162	203
	120	250	220	275
	150	300	285	356
	200	400	410	513
	200	500	560	700
	200	600	730	913
9.6	100	200	171	214
	120	250	238	298
	150	300	295	369
9.7	100	200	171	214
	120	250	238	298
	150	300	295	369
9.8	100	200	171	214
	120	250	238	298
	150	300	295	369
9.9	100	200	171	214
	120	250	238	298
	150	300	295	369
10.0	100	200	171	214
	120	250	238	298
	150	300	295	369
	200	400	430	538
	250	500	570	713
	300	600	760	950
10.1	100	200	185	231
	120	250	252	315
	150	300	305	381
10.2	100	200	185	231
	120	250	252	315
	150	300	305	381
10.3	100	200	185	231
	120	250	252	315
	150	300	305	381
10.4	100	200	185	231
	120	250	252	315
	150	300	305	381
10.5	120	250	252	315
	150	300	305	381
	200	400	465	581
	250	500	600	750
	300	600	800	1000
10.6	120	250	280	350
	150	300	335	419
10.7	120	250	280	350
	150	300	335	419
10.8	120	250	280	350
	150	300	335	419
10.9	120	250	280	350
	150	300	335	419
11.0	120	250	280	350
	150	300	335	419
	200	400	495	619
	250	500	635	794
	300	600	830	1038
11.1	120	250	295	369
	150	300	352	440
11.2	120	250	295	369
	150	300	352	440
11.3	120	250	295	369
	150	300	352	440
11.4	120	250	295	369
	150	300	352	440
11.5	120	250	295	369
	150	300	352	440
	200	400	500	625
	250	500	685	856
	300	600	885	1106

尺寸			单价(人民币)	
刃径	刃长	全长	L6542	M35
11.6	120	250	315	394
	150	300	371	464
11.7	120	250	315	394
	150	300	371	464
11.8	120	250	315	394
	150	300	371	464
11.9	120	250	315	394
	150	300	371	464
12.0	120	250	315	394
	150	300	371	464
	200	400	550	688
	250	500	710	888
	300	600	930	1163
12.1	120	250	330	413
	150	300	410	513
12.2	120	250	330	413
	150	300	410	513
12.3	120	250	330	413
	150	300	410	513
12.4	120	250	330	413
	150	300	410	513
12.5	120	250	330	413
	150	300	410	513
	120	400	570	713
	150	500	760	950
	200	600	995	1244
12.6	120	250	350	438
	150	300	465	581
12.7	120	250	350	438
	150	300	465	581
12.8	120	250	350	438
	150	300	465	581
12.9	120	250	350	438
	150	300	465	581
13.0	120	250	350	438
	150	300	465	581
	200	400	635	794
	250	500	830	1038
	300	600	1050	1310

斜柄钻头 Oblique Shank Drill



材质 HSS　DIN345 通用型　产品编码：527...

尺寸				单价(人民币)	
刃径	刃长	全长	MT.NO	L6542	M35
7.0	75	155	1	120	170
7.1	78	158	1	120	170
7.2	78	158	1	120	170
7.3	78	158	1	120	170
7.4	78	158	1	120	170
7.5	78	158	1	120	170
7.6	82	162	1	120	170
7.7	82	162	1	120	170
7.8	82	162	1	120	170
7.9	82	162	1	120	170
8.0	82	162	1	120	170
8.1	85	168	1	120	170
8.2	85	168	1	120	170
8.3	85	168	1	120	170
8.4	85	168	1	120	170
8.5	85	168	1	120	170
8.6	88	172	1	120	170
8.7	88	172	1	120	170
8.8	88	172	1	120	170
8.9	88	172	1	120	170
9.0	88	172	1	120	170
9.1	92	175	1	120	170
9.2	92	175	1	120	170
9.3	92	175	1	120	170
9.4	92	175	1	120	170
9.5	92	175	1	120	170
9.6	95	178	1	120	170
9.7	95	178	1	120	170
9.8	95	178	1	120	170
9.9	95	178	1	120	170
10.0	95	178	1	120	170
10.1	98	182	1	120	170
10.2	98	182	1	120	170
10.3	98	182	1	120	170
10.4	98	182	1	120	170
10.5	98	182	1	120	170
10.6	102	185	1	120	170
10.7	102	185	1	120	170
10.8	102	185	1	120	170
10.9	102	185	1	120	170
11.0	102	185	1	120	170
11.1	105	188	1	120	170
11.2	105	188	1	120	170
11.3	105	188	1	120	170
11.4	105	188	1	120	170
11.5	105	188	1	120	170
11.6	108	192	1	120	170
11.7	108	192	1	120	170
11.8	108	192	1	120	170
11.9	108	192	1	120	170
12.0	108	192	1	121	190
12.1	112	195	1	121	190
12.2	112	195	1	121	190
12.3	112	195	1	121	190
12.4	112	195	1	121	190
12.5	112	195	1	121	190
12.6	115	198	1	135	210
12.7	115	198	1	135	210
12.8	115	198	1	135	210
12.9	115	198	1	135	210
13.0	115	198	1	135	210
13.1	118	202	1	135	210
13.2	118	202	1	135	210
13.3	118	202	1	135	210
13.4	118	202	1	135	210
13.5	118	202	1	135	210
13.6	122	205	1	151	230
13.7	122	205	1	151	230
13.8	122	205	1	151	230
13.9	122	205	1	151	230
14.0	122	205	1	151	230
14.1	122	222	2	151	230
14.2	122	222	2	151	230
14.3	122	222	2	151	230
14.4	122	222	2	151	230
14.5	122	222	2	151	230
14.6	125	225	2	151	260
14.7	125	225	2	151	260
14.8	125	225	2	151	260
14.9	125	225	2	151	260
15.0	125	225	2	151	260
15.1	128	228	2	151	260
15.2	128	228	2	151	260
15.3	128	228	2	151	260
15.4	128	228	2	151	260
15.5	128	228	2	151	260
15.6	130	230	2	164	290
15.7	130	230	2	164	290
15.8	130	230	2	164	290
15.9	130	230	2	164	290
16.0	130	230	2	164	290
16.1	132	232	2	178	290
16.2	132	232	2	178	290
16.3	132	232	2	178	290
16.4	132	232	2	178	290
16.5	132	232	2	178	290
16.6	135	235	2	192	330
16.7	135	235	2	192	330
16.8	135	235	2	192	330
16.9	135	235	2	192	330
17.0	135	235	2	192	330
17.1	140	240	2	192	330
17.2	140	240	2	192	330
17.3	140	240	2	192	330
17.4	140	240	2	192	330
17.5	140	240	2	192	330
17.6	140	240	2	206	370
17.7	140	240	2	206	370
17.8	140	240	2	206	370
17.9	140	240	2	206	370
18.0	140	240	2	206	370
18.1	145	245	2	206	370
18.2	145	245	2	206	370
18.3	145	245	2	206	370
18.4	145	245	2	206	370
18.5	145	245	2	206	370
18.6	145	245	2	219	420
18.7	145	245	2	219	420
18.8	145	245	2	219	420
18.9	145	245	2	219	420
19.0	145	245	2	219	420
19.1	150	250	2	219	420
19.2	150	250	2	219	420
19.3	150	250	2	219	420
19.4	150	250	2	219	420
19.5	150	250	2	219	420
19.6	150	250	2	260	460
19.7	150	250	2	260	460
19.8	150	250	2	260	460
19.9	150	250	2	260	460
20.0	150	250	2	260	460
20.1	155	255	2	260	460
20.2	155	255	2	260	460
20.3	155	255	2	260	460
20.4	155	255	2	260	460
20.5	155	255	2	260	460
20.6	155	255	2	301	560
20.7	155	255	2	301	560
20.8	155	255	2	301	560
20.9	155	255	2	301	560
21.0	155	255	2	301	560
21.1	160	260	2	301	560
21.2	160	260	2	301	560
21.3	160	260	2	301	560
21.4	160	260	2	301	560
21.5	160	260	2	301	560
21.6	160	260	2	315	640
21.7	160	260	2	315	640
21.8	160	260	2	315	640
21.9	160	260	2	315	640
22.0	160	260	2	315	640
22.1	165	265	2	315	640
22.2	165	265	2	315	640
22.3	165	265	2	315	640
22.4	165	265	2	315	640
22.5	165	265	2	315	640
22.6	165	265	2	356	730
22.7	165	265	2	356	730
22.8	165	265	2	356	730
22.9	165	265	2	356	730
23.0	165	265	2	356	730
23.1	165	285	3	411	730
23.2	165	285	3	411	730
23.3	165	285	3	411	730
23.4	165	285	3	411	730
23.5	165	285	3	411	800
23.6	165	285	3	411	800
23.7	165	285	3	411	800
23.8	165	285	3	411	800
23.9	165	285	3	411	800
24.0	165	285	3	411	800
24.1	165	285	3	411	800
24.2	165	285	3	411	800
24.3	165	285	3	411	800
24.4	165	285	3	411	800
24.5	165	285	3	411	800
24.6	165	285	3	425	880
24.7	165	285	3	425	880
24.8	165	285	3	425	880
24.9	165	285	3	425	880
25.0	165	285	3	425	880
25.1	165	285	3	425	880
25.2	165	285	3	425	880
25.3	165	285	3	425	880
25.4	165	285	3	425	880
25.5	165	285	3	425	880
25.6	165	285	3	521	950
25.7	165	285	3	521	950
25.8	165	285	3	521	950
25.9	165	285	3	521	950
26.0	165	285	3	521	950
26.1	170	290	3	521	950
26.2	170	290	3	521	950
26.3	170	290	3	521	950
26.4	170	290	3	521	950
26.5	170	290	3	521	950
26.6	170	290	3	534	1020
26.7	170	290	3	534	1020
26.8	170	290	3	534	1020
26.9	170	290	3	534	1020
27.0	170	290	3	534	1020
27.1	175	295	3	534	1020
27.2	175	295	3	534	1020
27.3	175	295	3	534	1020
27.4	175	295	3	534	1020
27.5	175	295	3	534	1020
27.6	175	295	3	562	1100
27.7	175	295	3	562	1100
27.8	175	295	3	562	1100
27.9	175	295	3	562	1100
28.0	175	295	3	562	1100
28.1	180	300	3	562	1100
28.2	180	300	3	562	1100
28.3	180	300	3	562	1100
28.4	180	300	3	562	1100
28.5	180	300	3	562	1100
28.6	180	300	3	644	1270
28.7	180	300	3	644	1270
28.8	180	300	3	644	1270
28.9	180	300	3	644	1270
29.0	180	300	3	644	1270
29.1	185	305	3	644	1270
29.2	185	305	3	644	1270
29.3	185	305	3	644	1270
29.4	185	305	3	644	1270
29.5	185	305	3	644	1270
29.6	185	305	3	754	1430
29.7	185	305	3	754	1430
29.8	185	305	3	754	1430
29.9	185	305	3	754	1430
30.0	185	305	3	754	1430
30.1	190	310	3	754	1430
30.2	190	310	3	754	1430
30.3	190	310	3	754	1430
30.4	190	310	3	754	1430
30.5	190	310	3	754	1430
30.6	190	310	3	850	1560
30.7	190	310	3	850	1560
30.8	190	310	3	850	1560
30.9	190	310	3	850	1560
31.0	190	310	3	850	1560
31.1	195	315	3	850	1560
31.2	195	315	3	850	1560
31.3	195	315	3	850	1560
31.4	195	315	3	850	1560
31.5	195	315	3	850	1560
31.6	195	315	3	960	1810
31.7	195	315	3	960	1810
31.8	195	315	3	960	1810
31.9	195	315	3	960	1810
32.0	195	315	3	960	1810
32.5	200	345	4	1000	1930
33.0	200	345	4	1070	1930
33.5	205	350	4	1110	1980
34.0	205	350	4	1110	1980
34.5	205	350	4	1180	1980
35.0	205	350	4	1220	2140
35.5	210	355	4	1300	2140
36.0	210	355	4	1330	2310
36.5	210	355	4	1410	2310
37.0	210	355	4	1630	2500
37.5	215	360	4	1640	2500
38.0	215	360	4	1650	2760
38.5	215	360	4	1680	2760
39.0	215	360	4	1690	2940
39.5	220	365	4	1700	2940
40.0	220	365	4	1710	3050
40.5	220	365	4	1720	3050
41.0	220	365	4	1730	3160
41.5	225	370	4	1750	3160
42.0	225	370	4	1790	3230
42.5	225	370	4	1790	3230
43.0	225	370	4	1790	3400
43.5	230	375	4	1790	3400
44.0	230	375	4	2000	3560
44.5	230	375	4	2000	3560
45.0	230	375	4	2290	4040
45.5	235	380	4	2290	4040
46.0	235	380	4	2290	4240
46.5	235	380	4	2580	4240
47.0	235	380	4	2580	4790
47.5	240	385	4	2580	4790
48.0	240	385	4	2580	4900
48.5	240	385	4	2580	4900
49.0	240	385	4	2580	5010
49.5	245	390	4	2580	5010
50.0	245	390	4	2840	5140
51.0	245	425	5	3110	5830
52.0	250	430	5	3110	6030
53.0	250	430	5	3110	6210
54.0	250	435	5	3370	6520
55.0	250	435	5	3370	6810

斜柄钻头
Oblique Shank Drill

材质 HSS　DIN345 通用型

尺寸				单价
刃径	刃长	全长	MT.NO	L6542
56.0	260	440	5	3850
57.0	260	440	5	3850
58.0	265	445	5	4070
59.0	265	445	5	4070
60.0	270	450	5	4070
61.0	270	450	5	5740
62.0	275	455	5	5740
63.0	275	455	5	5740
64.0	280	460	5	6120
65.0	280	460	5	6120
66.0	285	465	5	6930
67.0	285	465	5	6930
68.0	290	470	5	7140
69.0	290	470	5	7140
70.0	295	475	5	7140
71.0	295	475	5	7520
72.0	300	480	5	7920
73.0	300	480	5	7920
74.0	305	485	5	7920
75.0	305	485	5	7920
76.0	310	490	5	11740
77.0	315	560	6	13520
78.0	315	560	6	13750
79.0	315	560	6	14000
80.0	315	560	6	14330
81.0	325	570	6	15440
82.0	325	570	6	15730
83.0	325	570	6	15950
84.0	325	570	6	16190
85.0	325	570	6	16480
86.0	335	580	6	17620
87.0	335	580	6	17880
88.0	335	580	6	18170
89.0	335	580	6	18450
90.0	335	580	6	18770
91.0	345	590	6	19960
92.0	345	590	6	20260
93.0	345	590	6	20550
94.0	345	590	6	20820
95.0	345	590	6	21110
96.0	355	600	6	22280
97.0	355	600	6	22590
98.0	355	600	6	22890
99.0	355	600	6	23210
100.0	355	600	6	23510

斜柄加长钻头
Oblique shank extension drill

材质 HSS　DIN345 通用型

尺寸				单价
刃径	全长	刃长	MT.NO	L6542
7.0	250	150	1	530
	300	200	1	669
	350	225	1	910
7.5	250	150	1	519
	300	200	1	665
	350	225	1	899
8.0	250	150	1	512
	300	200	1	653
	350	225	1	878
8.5	250	150	1	508
	300	200	1	639
	350	225	1	857
9.0	250	150	1	494
	300	200	1	635
	350	225	1	850
9.5	250	150	1	494
	300	200	1	635
	350	225	1	843
10.0	250	150	1	494
	300	200	1	635
	350	225	1	839

斜柄加长钻头
Oblique shank extension drill



材质 HSS　DIN345 通用型　产品编码：528...

尺寸				单价
刃径	全长	刃长	MT.NO	L6542
10.5	250	150	1	480
	300	200	1	619
	350	225	1	818
11.0	250	150	1	480
	300	200	1	619
	350	225	1	818
11.5	250	150	1	494
	300	200	1	621
	350	225	1	829
12.0	250	150	1	498
	300	200	1	635
	350	225	1	834
12.5	250	150	1	508
	300	200	1	646
	350	225	1	843
13.0	250	150	1	516
	300	200	1	531
	350	225	1	855
13.5	250	150	1	516
	300	200	1	658
	350	225	1	863
14.0	250	150	1	470
	300	200	1	580
	350	225	1	660
14.5	325	200	2	470
	375	250	2	580
	425	275	2	680
	475	325	2	860
15.0	325	200	2	470
	375	250	2	580
	425	275	2	680
	475	325	2	860
15.5	325	200	2	470
	375	250	2	580
	425	275	2	680
	475	325	2	860
16.0	325	200	2	470
	375	250	2	580
	425	275	2	680
	475	325	2	860
16.5	325	200	2	470
	375	250	2	580
	425	275	2	680
	475	325	2	860
17.0	325	200	2	580
	375	250	2	610
	425	275	2	710
	475	325	2	820
17.5	325	200	2	580
	375	250	2	610
	425	275	2	710
	475	325	2	820
18.0	325	200	2	610
	375	250	2	660
	425	275	2	740
	475	325	2	860
18.5	325	200	2	610
	375	250	2	660
	425	275	2	740
	475	325	2	860
19.0	325	200	2	660
	375	250	2	710
	425	275	2	820
	475	325	2	890
19.5	325	200	2	660
	375	250	2	710
	425	275	2	820
	475	325	2	890
20.0	325	200	2	660
	375	250	2	710
	425	275	2	870
	475	325	2	920

刃径	全长	刃长	MT.NO	L6542
20.5	325	200	2	660
	375	250	2	710
	425	275	2	870
	475	325	2	920
21.0	325	200	2	660
	375	250	2	710
	425	275	2	870
	475	325	2	920
21.5	325	200	2	710
	375	250	2	770
	425	275	2	870
	475	325	2	1030
22.0	325	200	2	770
	375	250	2	820
	425	275	2	950
	475	325	2	1050
22.5	325	200	2	770
	375	250	2	820
	425	275	2	950
	475	325	2	1050
23.0	325	200	2	770
	375	250	2	820
	425	275	2	950
	475	325	2	1050
23.5	350	200	3	780
	400	250	3	1050
	450	300	3	1160
	500	350	3	1310
	600	400	3	1630
24.0	350	200	3	780
	400	250	3	1050
	450	300	3	1160
	500	350	3	1310
	600	400	3	1630
24.5	350	200	3	780
	400	250	3	1050
	450	300	3	1160
	500	350	3	1310
	600	400	3	1630
25.0	350	200	3	780
	400	250	3	1050
	450	300	3	1210
	500	350	3	1470
	600	400	3	1630
25.5	350	200	3	900
	400	250	3	1140
	450	300	3	1310
	500	350	3	1630
	600	400	3	1730
26.0	350	200	3	900
	400	250	3	1140
	450	300	3	1310
	500	350	3	1630
	600	400	3	1730
26.5	350	200	3	1020
	400	250	3	1210
	450	300	3	1310
	500	350	3	1630
	600	400	3	1790
27.0	350	200	3	1020
	400	250	3	1210
	450	300	3	1310
	500	350	3	1630
	600	400	3	1790
27.5	350	200	3	1160
	400	250	3	1310
	450	300	3	1470
	500	350	3	1730
	600	400	3	1840
28.0	350	200	3	1160
	400	250	3	1310
	450	300	3	1470
	500	350	3	1730
	600	400	3	1840

尺寸				单价
刃径	全长	刃长	MT.NO	L6542
28.5	350	200	3	1290
	400	250	3	1370
	450	300	3	1630
	500	350	3	1890
	600	400	3	1940
29.0	350	200	3	1290
	400	250	3	1370
	450	300	3	1630
	500	350	3	1890
	600	400	3	1940
29.5	350	200	3	1420
	400	250	3	1730
	450	300	3	1890
	500	350	3	2050
	600	400	3	2310
30.0	350	200	3	1420
	400	250	3	1730
	450	300	3	1890
	500	350	3	2050
	600	400	3	2310
30.5	350	200	3	1580
	400	250	3	1790
	450	300	3	2000
	500	350	3	2310
	600	400	3	2520
31.0	350	200	3	1580
	400	250	3	1790
	450	300	3	2000
	500	350	3	2310
	600	400	3	2520
31.5	350	200	3	1630
	400	250	3	1890
	450	300	3	2150
	500	350	3	2360
	600	400	3	2730
32.0	350	200	3	1630
	400	250	3	1890
	450	300	3	2150
	500	350	3	2360
	600	400	3	2730
33.0	425	250	4	2100
	475	300	4	2310
	525	350	4	2650
	625	450	4	2940
34.0	425	250	4	2100
	475	300	4	2310
	525	350	4	2650
	625	450	4	2940
35.0	425	250	4	2150
	475	300	4	2420
	525	350	4	2780
	625	450	4	3260
36.0	425	250	4	2260
	475	300	4	2420
	525	350	4	2780
	625	450	4	3360
37.0	425	250	4	2520
	475	300	4	2840
	525	350	4	3360
	625	450	4	3890
38.0	425	250	4	2520
	475	300	4	2840
	525	350	4	3360
	625	450	4	3890
39.0	425	250	4	2520
	475	300	4	2940
	525	350	4	3360
	625	450	4	3990
40.0	425	250	4	2520
	475	300	4	2940
	525	350	4	3360
	625	450	4	3990

刃径	全长	刃长	MT.NO	L6542
41.0	425	250	4	2520
	475	300	4	2940
	525	350	4	3470
	625	450	4	4100
42.0	425	250	4	2780
	475	300	4	3470
	525	350	4	3830
	625	450	4	4360
43.0	425	250	4	2780
	475	300	4	3470
	525	350	4	3830
	625	450	4	4410
44.0	425	250	4	2940
	475	300	4	3680
	525	350	4	4100
	625	450	4	4730
45.0	425	250	4	3050
	475	300	4	3780
	525	350	4	4310
	625	450	4	4730
46.0	475	300	4	3780
	525	350	4	4310
	625	450	4	4940
47.0	475	300	4	3990
	525	350	4	4940
	625	450	4	5150
48.0	475	300	4	4520
	525	350	4	5460
	625	450	4	5780
49.0	475	300	4	4730
	525	350	4	5460
	625	450	4	5990
50.0	475	300	4	5150
	525	350	4	5780
	625	450	4	6090

诺氏直柄钻头
产品编码：529...



材质 HSS　通用型　=1/2"

尺寸			单价	
刃径	刃长	全长	L6542	4241
13.5	74	134	93	50
14	74	134	99	50
14.5	74	134	110	53
15	74	134	112	55
15.5	74	134	115	57
16	74	134	130	58
16.5	74	134	140	62
17	74	134	150	63
17.5	74	134	160	65
18	74	134	170	70
18.5	74	134	180	77
19	74	134	180	80
19.5	74	134	190	82
20	74	134	200	83
20.5	74	134	210	86
21	74	134	220	87
21.5	74	134	230	88
22	74	134	240	92
22.5	74	134	250	99
23	74	134	255	110
23.5	74	134	260	115
24	74	134	265	119
24.5	74	134	270	119
25	74	134	275	120
25.5	74	134	280	125
26	74	134	308	130
27	74	134	325	135
28	74	134	355	140
29	74	134	370	145
30	74	134	410	156
32	74	134	485	185

WGDDZ. . 钨钢定点钻

Tungsten steel fixed-point drill

Fig.1



刀具涂层：无

Tool coating: Without

适用 ：铝、铝合金、压铸铝

Use:Aluminum, aluminum alloy, die-cast aluminum

Fig.2

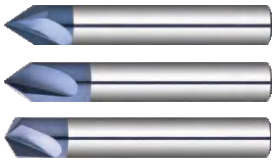
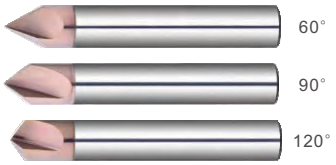
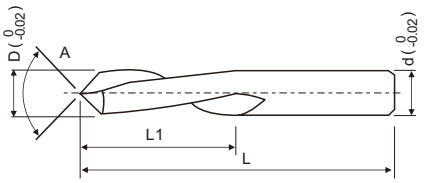


Fig.3





刀具涂层：纳米涂层 Tool coating: Nano coating

适用 ：模具预硬钢、淬火钢、合金钢、工具钢、有色金属、灰口铸铁、普通模具钢

Use:Die prehardened steel、Quenched steel、Alloy steel、Tool steel、Nonferrous metal, Gray cast iron、Common die steel

Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
WGDDZ1.0D4L50A60	WGDDZ1.0D4L50A60B	WGDDZ1.0D4L50A60T	60°	1	4	2	50	
WGDDZ2.0D4L50A60	WGDDZ2.0D4L50A60B	WGDDZ2.0D4L50A60T	60°	2	4	4	50	
WGDDZ3.0D4L50A60	WGDDZ3.0D4L50A60B	WGDDZ3.0D4L50A60T	60°	3	4	6	50	
WGDDZ4.0D4L50A60	WGDDZ4.0D4L50A60B	WGDDZ4.0D4L50A60T	60°	4	4	8	50	
WGDDZ5.0D5L50A60	WGDDZ5.0D5L50A60B	WGDDZ5.0D5L50A60T	60°	5	5	10	50	
WGDDZ6.0D6L50A60	WGDDZ6.0D6L50A60B	WGDDZ6.0D6L50A60T	60°	6	6	12	50	
WGDDZ8.0D8L60A60	WGDDZ8.0D8L60A60B	WGDDZ8.0D8L60A60T	60°	8	8	16	60	
WGDDZ10D10L75A60	WGDDZ10D10L75A60B	WGDDZ10D10L75A60T	60°	10	10	20	75	
WGDDZ12D12L75A60	WGDDZ12D12L75A60B	WGDDZ12D12L75A60T	60°	12	12	24	75	

Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
WGDDZ1.0D4L50A90	WGDDZ1.0D4L50A90B	WGDDZ1.0D4L50A90T	90°	1	4	2	50	
WGDDZ1.5D4L50A90	WGDDZ1.5D4L50A90B	WGDDZ1.5D4L50A90T	90°	1.5	4	3	50	
WGDDZ2.0D4L50A90	WGDDZ2.0D4L50A90B	WGDDZ2.0D4L50A90T	90°	2	4	4	50	
WGDDZ2.5D4L50A90	WGDDZ2.5D4L50A90B	WGDDZ2.5D4L50A90T	90°	2.5	4	5	50	
WGDDZ3.0D3L50A90	WGDDZ3.0D3L50A90B	WGDDZ3.0D3L50A90T	90°	3	3	6	50	
WGDDZ3.0D3L100A90	WGDDZ3.0D3L100A90B	WGDDZ3.0D3L100A90T	90°	3	3	6	100	
WGDDZ3.0D4L50A90	WGDDZ3.0D4L50A90B	WGDDZ3.0D4L50A90T	90°	3	4	6	50	
WGDDZ4.0D4L50A90	WGDDZ4.0D4L50A90B	WGDDZ4.0D4L50A90T	90°	4	4	8	50	
WGDDZ4.0D4L100A90	WGDDZ4.0D4L100A90B	WGDDZ4.0D4L100A90T	90°	4	4	8	100	
WGDDZ5.0D5L50A90	WGDDZ5.0D5L50A90B	WGDDZ5.0D5L50A90T	90°	5	5	10	50	
WGDDZ5.0D5L100A90	WGDDZ5.0D5L100A90B	WGDDZ5.0D5L100A90T	90°	5	5	10	100	
WGDDZ6.0D6L50A90	WGDDZ6.0D6L50A90B	WGDDZ6.0D6L50A90T	90°	6	6	12	50	
WGDDZ6.0D6L100A90	WGDDZ6.0D6L100A90B	WGDDZ6.0D6L100A90T	90°	6	6	12	100	
WGDDZ8.0D8L60A90	WGDDZ8.0D8L60A90B	WGDDZ8.0D8L60A90T	90°	8	8	16	60	
WGDDZ8.0D8L100A90	WGDDZ8.0D8L100A90B	WGDDZ8.0D8L100A90T	90°	8	8	16	100	
WGDDZ10D10L75A90	WGDDZ10D10L75A90B	WGDDZ10D10L75A90T	90°	10	10	20	75	
WGDDZ10D10L100A90	WGDDZ10D10L100A90B	WGDDZ10D10L100A90T	90°	10	10	20	100	
WGDDZ12D12L75A90	WGDDZ12D12L75A90B	WGDDZ12D12L75A90T	90°	12	12	24	75	
WGDDZ12D12L100A90	WGDDZ12D12L100A90B	WGDDZ12D12L100A90T	90°	12	12	24	100	
WGDDZ14D14L100A90	WGDDZ14D14L100A90B	WGDDZ14D14L100A90T	90°	14	14	28	100	
WGDDZ16D16L100A90	WGDDZ16D16L100A90B	WGDDZ16D16L100A90T	90°	16	16	32	100	
WGDDZ18D18L100A90	WGDDZ18D18L100A90B	WGDDZ18D18L100A90T	90°	18	18	36	100	
WGDDZ20D20L100A90	WGDDZ20D20L100A90B	WGDDZ20D20L100A90T	90°	20	20	40	100	

Fig.1 铝用不涂层 AL Uncoated	Fig.2 黑色涂层 Black Coating	Fig.3 古铜色涂层 Bronze Colored Coating	钻尖角度 A Drill point angle	刃径 D Oustside Diameter	柄径 d Shank Diamerer	刃长 L1 Flute Length	总长 L Total Length	Order Number
WGDDZ1.0D4L50A120	WGDDZ1.0D4L50A120B	WGDDZ1.0D4L50A120T	120°	1	4	2	50	
WGDDZ2.0D4L50A120	WGDDZ2.0D4L50A120B	WGDDZ2.0D4L50A120T	120°	2	4	4	50	
WGDDZ3.0D4L50A120	WGDDZ3.0D4L50A120B	WGDDZ3.0D4L50A120T	120°	3	4	6	50	
WGDDZ4.0D4L50A120	WGDDZ4.0D4L50A120B	WGDDZ4.0D4L50A120T	120°	4	4	8	50	
WGDDZ5.0D5L50A120	WGDDZ5.0D5L50A120B	WGDDZ5.0D5L50A120T	120°	5	5	10	50	
WGDDZ6.0D6L50A120	WGDDZ6.0D6L50A120B	WGDDZ6.0D6L50A120T	120°	6	6	12	50	
WGDDZ8.0D8L60A120	WGDDZ8.0D8L60A120B	WGDDZ8.0D8L60A120T	120°	8	8	16	60	
WGDDZ10D10L75A120	WGDDZ10D10L75A120B	WGDDZ10D10L75A120T	120°	10	10	20	75	
WGDDZ12D12L75A120	WGDDZ12D12L75A120B	WGDDZ12D12L75A120T	120°	12	12	24	75	

钨钢中心钻 产品编码：532...
Tungsten steel fixed point drill, center drill



尺寸 size				单价 Order Number
刃径 Blade diameter	刃长 blade length	柄径 Stem diameter	全长 entire length	
Ø1.0	2.4	4	38	64
Ø1.5	2.4	4	38	64
Ø2.0	2.9	4	50	64
Ø2.0	2.9	6	50	110
Ø2.5	3.1	6	50	110
Ø3.0	3.9	6	50	110
Ø3.0	3.9	8	50	160
Ø4.0	5.0	10	65	250
Ø5.0	6.3	12	60	310

高速钢中心钻 产品编码：529...
High speed steel center drill 通用型

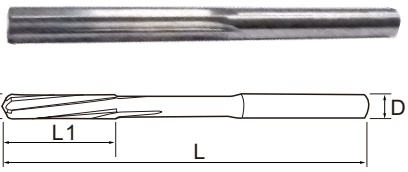


规格尺寸 size	单价 Order Number
0.4×3.0×31	110
0.5×3.0×31	86
0.6×3.5×36	77
0.8×4.0×36	59
1.0×4.0×36	49
1.2×5.0×42	45
1.5×5.0×42	37
2.0×5.0×42	37
2.5×6.0×47	43
3.0×7.7×57	52
3.2×7.7×57	52
4.0×10×69	103
5.0×11×69	111
6.0×16×90	271
8.0×18×100	425
10×18×100	425

钨钢机械绞刀 H7
Tungsten steel mechanical reamer

涂层：WGZCJD. .

铝用：AL-WGZCJD. .



适用于HRC55 以内的合金钢、不锈钢、钛合金、铸铁等难切削材料绞孔。
For less than HRC55 steel, stainless steel, titanium, cast iron and other hardTwisted hole cut materials.

直径D1 Diameter	刃长 L1 Flute Length	全长L Overall Length	柄径D Shank Diameter	刃数 Flute Number	单价 Price
2.0	25	50	2.0	4	40
2.5	25	50	2.5	4	40
3.0	25	50	3.0	4	40
3.5	25	50	3.5	4	56
4.0	25	50	4.0	4	56
4.5	25	50	4.5	4	76
5.0	25	50	5.0	4	76
5.5	25	50	5.5	4	104
6.0	30	60	6.0	6	104
6.5	30	60	6.5	6	152
7.0	35	70	7.0	6	152
8.0	40	70	8.0	6	184
9.0	40	75	9.0	6	236
10.0	40	75	10.0	6	280
11.0	40	75	11.0	6	380
12.0	40	80	12.0	6	396
13.0	50	100	13.0	6	544
14.0	50	100	14.0	6	632
15.0	50	100	15.0	6	740
16.0	50	100	16.0	6	800
17.0	50	100	17.0	6	900
18.0	50	100	18.0	6	996
19.0	50	100	19.0	6	1152
20.0	50	100	20.0	6	1276

FMZT. .

粉末高速钢钻头 3D

Powder high speed steel drill bit

☞ 刀具涂层：纳米涂层
Tool coating: Nano coating

☞ 材质： 高级粉末高速钢
Material: high grade powder high speed steel



☞ 特性：适用千一般构造压延钢、碳素钢、合金钢、调质钢、模具钢、不锈钢、钦合金、耐热合金铸铁、铝合金、铜合金等材料之高精度、高效率之钻孔。
Features: Applicable to thousands of general structure rolled steel, carbon steel, alloy steel, tempered steel, die steel, stainless steel, chin alloy, heat-resistant alloy cast iron, aluminum alloy, copper alloyHigh precision and high ef fi ciency drilling of other materials.

刃径 Oustside Diameter	总长 Total Length	刃长 Flute Length	柄径 Shank Diamerer	刃径 Oustside Diameter	总长 Total Length	刃长 Flute Length	柄径 Shank Diamerer	刃径 Oustside Diameter	总长 Total Length	刃长 Flute Length	柄径 Shank Diamerer
1	38	6	3	3.2	50	18	4	5.4	72	28	6
1.05	38	6	3	3.25	50	18	4	5.45	72	28	6
1.1	39	7	3	3.3	50	18	4	5.5	72	28	6
1.15	39	7	3	3.35	50	18	4	5.55	72	28	6
1.2	40	8	3	3.4	52	20	4	5.6	72	28	6
1.25	40	8	3	3.45	52	20	4	5.65	72	28	6
1.3	40	8	3	3.5	52	20	4	5.7	72	28	6
1.35	41	9	3	3.55	52	20	4	5.75	72	28	6
1.4	41	9	3	3.6	52	20	4	5.8	72	28	6
1.45	41	9	3	3.65	52	20	4	5.85	72	28	6
1.5	41	9	3	3.7	52	20	4	5.9	72	28	6
1.55	42	10	3	3.75	52	20	4	5.95	72	28	6
1.6	42	10	3	3.8	54	22	4	6.0	72	28	6
1.65	42	10	3	3.85	54	22	4	6.1-6.5	75	31	8
1.7	42	10	3	3.9	54	22	4	6.6-6.7	75	31	8
1.75	43	11	3	3.95	54	22	4	6.8-7.0	78	34	8
1.8	43	11	3	4.0	54	22	4	7.1-7.5	78	34	8
1.85	43	11	3	4.05	66	22	6	7.6-8.0	81	37	8
1.9	43	11	3	4.1	66	22	6	8.1-8.5	87	37	10
1.95	44	12	3	4.15	66	22	6	8.6-9.0	90	40	10
2.0	44	12	3	4.2	66	22	6	9.1-9.5	90	40	10
2.05	44	12	3	4.25	66	22	6	9 6-10	93	43	10
2 1	44	12	3	4.3	68	24	6	10.1-10.5	100	43	12
2.15	45	13	3	4.35	68	24	6	10.6	100	43	12
2 2	45	13	3	4.4	68	24	6	10.7-11.0	104	47	12
2.25	45	13	3	4.45	68	24	6	11.1-11.5	104	47	12
2.3	45	13	3	4.5	68	24	6	11.6-11.8	104	47	12
2.35	45	13	3	4.55	68	24	6	11.9-12.0	108	51	12
2.4	46	14	3	4.6	68	24	6	12.1-12.5	108	51	14
2.45	46	14	3	4.65	68	24	6	12.6-13.0	108	51	14
2.5	46	14	3	4.7	68	24	6	13.5	132	72	14
2.55	46	14	3	4.75	68	24	6	14	132	72	14
2.6	46	14	3	4.8	70	26	6	14.5	136	76	16
2.65	46	14	3	4.85	70	26	6	15	142	76	16
2.7	48	16	3	4.9	70	26	6	15.5	146	80	16
2.75	48	16	3	4.95	70	26	6	16	146	80	16
2.8	48	16	3	5.0	70	26	6	16.5	150	84	18
2.85	48	16	3	5.05	70	26	6	17	150	84	18
2.9	48	16	3	5.1	70	26	6	17.5	153	87	18
2.95	48	16	3	5.15	70	26	6	18	153	87	18
3	48	16	3	5.2	70	26	6	18.5	156	90	20
3.05	50	18	4	5.25	70	26	6	19	164	90	20
3.1	50	18	4	5.3	70	26	6	19.5	168	94	20
3.15	50	18	4	5.35	72	28	6	20	168	94	20

FMZT. .

粉末高速钢钻头 5D

Powder high speed steel drill bit



☞ 刀具涂层：纳米涂层
Tool coating: Nano coating

☞ 材质： 高级粉末高速钢
Material: high grade powder high speed steel

☞ 特性： 适用千一般构造压延钢、碳素钢、合金钢、调质钢、模具钢、不锈钢、钦合金、耐热合金铸铁、铝合金、铜合金等材料之高精度、高效率之钻孔。

Features: Applicable to thousands of general structure rolled steel, carbon steel, alloy steel, tempered steel, die steel, stainless steel, chin alloy, heat-resistant alloy cast iron, aluminum alloy, copper alloyHigh precision and high eff i ciency drilling of other materials.

刃径 Oustside Diameter	总长 Total Length	刃长 Flute Length	柄径 Shank Diamerer
2.0	56	24	3
2.1	56	24	3
2.2	56	25	3
2.3	56	25	3
2.4	61	30	3
2.5	61	30	3
2.6	61	30	3
2.7	64	33	3
2.8	64	33	3
2.9	64	33	3
3.0	64	33	3
3.1	68	36	4
3.2	68	36	4
3.3	68	36	4
3.4	71	39	4
3 5	71	39	4
3.6	71	39	4
3.7	71	39	4
3.8	75	43	4
3.9	75	43	4
4.0	75	43	4
4.1	85	43	6
4.2	85	43	6
4.3	89	47	6
4.4	89	47	6
4.5	89	47	6
4.6	89	47	6
4.7	89	47	6
4.8	94	52	6
4.9	94	52	6
5.0	94	52	6
5.1	94	52	6
5.2	94	52	6
5.3	94	52	6
5.4	99	57	6
5.5	99	57	6

刃径 Oustside Diameter	总长 Total Length	刃长 Flute Length	柄径 Shank Diamerer
5.6-5.9	99	57	6
6.0	99	57	6
6.1-6.4	107	63	8
6.5	107	63	8
6.6-6.7	107	63	8
6.8-6.9	113	69	8
7.0	113	69	8
7.1-7.4	113	69	8
7.5	113	69	8
7.6-7.9	119	75	8
8.0	119	75	8
8.1-8.4	125	75	10
8.5	125	75	10
8.6-8.9	131	81	10
9.0	131	81	10
9.1-9.4	131	81	10
9.5	131	81	10
9.6-9.9	137	87	10
10.0	137	87	10
10.1-10.4	144	87	12
10.5	144	87	12
10.6	144	87	12
10.7-10	151	94	12
11.0	151	94	12
11.1-11.4	151	94	12
11.5	151	94	12
11.6-11.8	151	94	12
11.9	158	101	12
12.0	158	101	12
12.1-12.4	158	101	14
12.5	158	101	14
12.6-12	158	101	14
13.0	158	101	14
13.5	168	108	14
14.0	168	108	14
14.5	173	114	16

刃径 Oustside Diameter	总长 Total Length	刃长 Flute Length	柄径 Shank Diamerer
15.0	180	114	16
15.5	185	120	16
16.0	185	120	16
16.5	189	125	18
17.0	189	125	18
17.5	194	130	18
18.0	194	130	18
18.5	198	135	20
19.0	206	135	20
19.5	210	140	20
20.0	210	140	20

高速钢直柄钻头

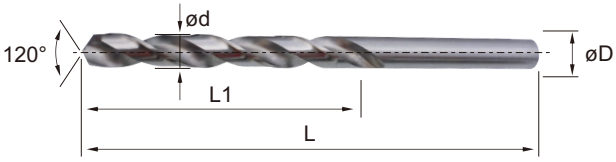
HSS Straight Shank Drill

适合铜，铝，钢材，铸铁加工

Suitable for copper, aluminum, steel, cast iron processing

L6542..





单位(Unit):mm

型号 Type ød = øD	尺寸Dimensions L1	L
0.50	6	22
0.60	7	23
0.70	9	27
0.80	10	29
0.90	11	32
0.5-1.0	12	34
1.10	14	36
1.2-1.3	16	38
1.4-1.5	18	40
1.6-1.7	20	43
1.8-1.9	22	46
2.0-2.1	24	49
2.1-2.3	27	53
2.4-2.6	30	57
2.7-3.0	33	61
3.1-3.3	36	65
3.4-3.7	39	70
3.8-4.2	43	75

型号 Type ød = øD	尺寸 Dimensions L1	L
4.3-4.7	47	80
4.8-5.3	52	86
5.4-6.0	57	93
6.1-6.7	63	101
6.8-7.5	69	109
7.6-8.5	75	117
8.6-9.5	81	125
9.6-10.6	87	133
10.7-11.8	94	142
11.9-13.0	101	151
13.5-14.0	108	160
14.5-15.0	114	169
15.5-16.0	120	178
16.5-17.0	125	184
17.5-18.0	130	191
18.5-19.0	135	198
19.5-20.0	140	205

高速钢钻头(切削参数)

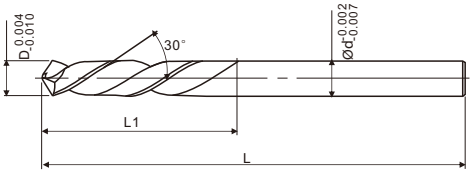
HSS Drill (Cutting parameters)

被削材 Work Material	结构用钢/铜/灰口铸铁 Structural Steel SS,SUM,FC250		合金钢/球墨铸铁 Alloy Steel/Cast Iron SCM,FCD		工具钢/不锈钢钢 Tool / Stainless Steel SKD,SKH,SUS		钛及钛合金 Titanium Alloy Ti,TiA,TiCu		铝合金 Aluminum Alloy ADC	
切削速度 Cutting Speed Vc m/min	32		16		10		5		60	
钻头外径 Dia of Drill mm	回转速 R.P.M min^{-1}	进给速度 Feed mm/min	回转速 R.P.M min^{-1}	进给速度 Feed mm/min	回转速 R.P.M min^{-1}	进给速度 Feed mm/min	回转速 R.P.M min^{-1}	进给速度 Feed mm/min	回转速 R.P.M min^{-1}	进给速度 Feed mm/min
0.5~1.0	13000	0.01	7000	0.01	5000	0.01	3000	0.005	25000	0.01
1.1~1.5	10200	0.015	6000	0.015	3900	0.015	2500	0.007	21000	0.02
1.5~2.0	7000	0.02	5000	0.016	3200	0.016	1600	0.01	20000	0.03
2.1~3.0	5100	0.04	2500	0.03	1600	0.03	800	0.02	10000	0.04
3.1~4.0	3400	0.06	1700	0.04	1070	0.04	540	0.03	6700	0.06
4.1~5.0	2550	0.08	1250	0.06	800	0.05	400	0.04	5000	0.12
5.1~6.0	2050	0.08	1020	0.06	640	0.05	320	0.05	4000	0.13
6.1~7.0	1700	0.09	850	0.07	500	0.06	270	0.06	3300	0.16
7.1~8.0	1450	0.11	730	0.08	460	0.07	230	0.07	2860	0.17
8.1~9.0	1280	0.12	630	0.10	400	0.08	200	0.08	2500	0.20
9.1~10.0	1130	0.14	570	0.11	360	0.09	180	0.09	2200	0.22
10.1~11.0	1020	0.16	510	0.12	320	0.10	160	0.10	2000	0.25
11.1~12.0	850	0.16	430	0.12	270	0.10	130	0.10	1670	0.25
12.1~13.0	640	0.20	320	0.16	200	0.12	100	0.12	1250	0.35
13.1~16.0	510	0.25	260	0.20	160	0.16	80	0.16	1000	0.40
16.5~20.0	500	0.30	230	0.25	150	0.18	70	0.18	900	0.50

DBWGZT45C-3D.. 45度黑色涂层钨钢钻头-3D
DBWGZT45C-5D.. 45度黑色涂层钨钢钻头-5D

HRC45° 钨钢定柄钻头
HRC45 ° tungsten steel fixed shank drill bit





刀具涂层：纳米涂层
Tool coating: Nano coating

适用 · 有色金属、灰口铸铁、普通模具钢 不锈钢、耐热合金钢
Use:Nonferrous metal,Gray cast iron,Common die steel Stainless steel, Heart resistant alloy steel

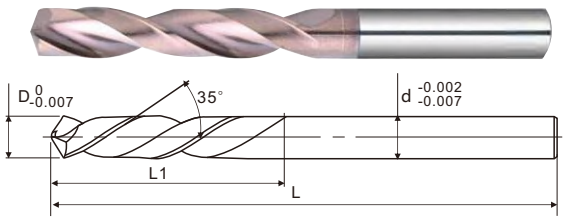
备注 规格 : 直径D 0.5-4mm(间隔0.05)
Specification : Diameter D 0.5-4mm(interval 0.05)
直径D 4-12mm(间隔0.1)
Diameter D 4-12mm(interval 0.1)
直径D 12-16mm(间隔0.5)
Diameter D 12-16mm(interval 0.5)

规格（刃径） D Outside Diameter	柄径d Shank Diamerer		总长开槽L Total length slotted L 3倍径	5倍径	Order Number
0 5-0.6	3		50-5		
0 7-0 9	3		50-6		
1-1.5	3	4	50-8	50-13	
1 6-2	3	4	50-11	50-20	
2.1-2.5	3	4	50-13	75-22	
2.6-3	3	4	50-16	75-26	
3.1-3.5	4	4	50-18	75-28	
3.6-4	4	4	50-20	75-32	
4,1-4,5	6		50-20	75-36	
4.6-5	6		60-24	75-36	
5 1-5.5	6		60-26	75-40	
5.6-6	6		60-26	75-40	
6.1-6.5	8		60-28	100-48	
6.6-7	8		60-28	100-48	
7 1-7 5	8		60-30	100-50	
7 6-8	8		60-30	100-50	
8,1-8 5	10		75-34	100-56	
8 6-9	10		75-36	100-56	
9 1-9 5	10		75-38	100-58	
9.6-10	10		75-40	100-58	
10 1-10.5	12		75-42	100-60	
10.6-11	12		75-42	100-60	
11 1-11.5	12		75-45	100-65	
11.6-12	12		75-45	100-65	
12.5	14		100-52	120-70	
13	14		100-52	120-70	
13.5	14		100-52	120-70	
14	14		100-52	120-70	
14.5	16		100-60	135-83	
15	16		100-60	135-83	
15.5	16		100-60	135-83	
16	16		100-60	135-83	

DBWGZT-AL-3D.. 铝用定柄钨钢钻头-3D
DBWGZT-AL-5D.. 铝用定柄钨钢钻头-5D
DBWGZT45C-3D.. 45度黑色涂层钨钢钻头-3D
DBWGZT45C-5D.. 45度黑色涂层钨钢钻头-5D
DBWGZT55C-3D.. 55度古铜色涂层钨钢钻头-3D
DBWGZT55C-5D.. 55度古铜色涂层钨钢钻头-5D

DBWGZT55C-3D.. 55度古铜色涂层钨钢钻头-3D
DBWGZT55C-5D.. 55度古铜色涂层钨钢钻头-5D

HRC55° 钨钢定柄钻头
HRC55 ° tungsten steel fixed shank drill bit



☞ 刀具涂层：纳米涂层
Tool coating: Nano coating

☞ 适用：淬火钢、高温合金等难加工材料
Use: Hardened steel, high temperature alloy and othe
「diff i cult processing material

备注 规格 ： 直径D 0. 5-4mm(间隔0. 05)
Specification : Diameter D 0.5-4mm(interval 0.05)
直径D 4-12mm(间隔0. 1)
Diameter D 4-12mm(interval 0.1)
直径D 12-16mm(间隔0. 5)
Diameter D 12-16mm(interval 0.5)

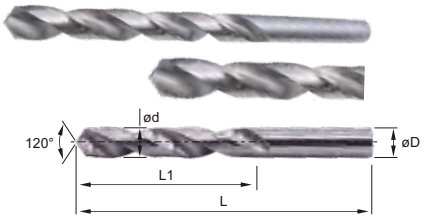
规格（刃径） D Outside Diameter	柄径d Shank Diamerer		总长开槽L Total length slotted L 3倍径	5倍径	Order Number
0 5-0.6	3		50-5		
0 7-0 9	3		50-6		
1-1.5	3	4	50-8	50-13	
1 6-2	3	4	50-11	50-20	
2.1-2.5	3	4	50-13	75-22	
2.6-3	3	4	50-16	75-26	
3.1-3.5	4	4	50-18	75-28	
3.6-4	4	4	50-20	75-32	
4,1-4,5	6		50-20	75-36	
4.6-5	6		60-24	75-36	
5 1-5.5	6		60-26	75-40	
5.6-6	6		60-26	75-40	
6.1-6.5	8		60-28	100-48	
6.6-7	8		60-28	100-48	
7 1-7 5	8		60-30	100-50	
7 6-8	8		60-30	100-50	
8,1-8 5	10		75-34	100-56	
8 6-9	10		75-36	100-56	
9 1-9 5	10		75-38	100-58	
9.6-10	10		75-40	100-58	
10 1-10.5	12		75-42	100-60	
10.6-11	12		75-42	100-60	
11 1-11.5	12		75-45	100-65	
11.6-12	12		75-45	100-65	
12.5	14		100-52	120-70	
13	14		100-52	120-70	
13.5	14		100-52	120-70	
14	14		100-52	120-70	
14.5	16		100-60	135-83	
15	16		100-60	135-83	
15.5	16		100-60	135-83	
16	16		100-60	135-83	

钨钢钻头(无涂层)

Carbide Drill (Uncoated)

适合铜，铝，钢材，铸铁加工

Suitable for copper, aluminum, steel, cast iron processing



加长 Lengthening 单位(Unit):mm

型号 Type ød = øD	尺寸Dimensions L1	L
1.0~5.0	35	60
2.0~9.0	45	80
2.0~20	60	100
3.0~20	80	120
3.0~20	105	150
4.0~20	150	200

标准长 Standard Length

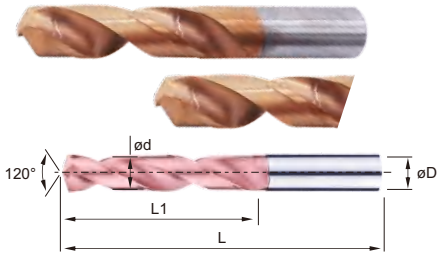
型号 Type ød = øD	尺寸Dimensions L1	L
0.5~1.5	10	33
1.6~3.5	19	38
3.6~4.5	23	45
4.6~6.0	25	50
6.1~7.0	28	55
7.1~8.5	30	60
8.6~9.5	33	65
9.6~10.5	35	70
10.6~13.0	38	75
13.1~15.0	40	80
15.1~20.0	40	80
20.5~22.0	60	100
22.5~25.0	80	120

钨钢钻头(涂层)

Carbide Drill (Coated) HRC≤50°

适合钢材，不锈钢，铸铁等材料加工

Suitable for steel, stainless steel, cast iron and other materials processing



加长 Lengthening 单位(Unit):mm

型号 Type ød = øD	尺寸Dimensions L1	L
1.0~5.0	35	60
2.0~9.0	45	80
2.0~20	60	100
3.0~20	80	120
3.0~20	105	150
4.0~20	150	200

标准长 Standard Length

型号 Type ød = øD	尺寸Dimensions L1	L
0.5~1.5	10	33
1.6~3.5	19	38
3.6~4.5	23	45
4.6~6.0	25	50
6.1~7.0	28	55
7.1~8.5	30	60
8.6~9.5	33	65
9.6~10.5	35	70
10.6~13.0	38	75
13.1~15.0	40	80
15.1~20.0	40	80
20.5~22.0	60	100
22.5~25.0	80	120

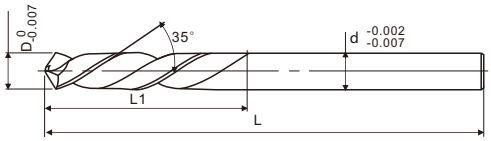
50° 2F 铝用钨钢钻头

50° 2F Aluminum Carbide Drill

涂层： WGZT..

铝用： AL-WGZT..





规格（刃径） D Outside Diameter	柄径d Shank Diamerer		总长开槽L Total length slotted L 3倍径	5倍径	Order Number
0.5-0.6	3		50-5		
0.7-0 9	3		50-6		
1-1 5	3	4	50-8	50-13	
1 6-2	3	4	50-11	50-20	
2.1-2.5	3	4	50-13	75-22	
2.6-3	3	4	50-16	75-26	
3.1-3.5	4	4	50-18	75-28	
3.6-4	4	4	50-20	75-32	
4.1-4.5	6		50-20	75-36	
4.6-5	6		60-24	75-36	
5.1-5 5	6		60-26	75-40	
5.6-6	6		60-26	75-40	
6.1-6.5	8		60-28	100-48	
6 6-7	8		60-28	100-48	
7.1-7 5	8		60-30	100-50	
7 6-8	8		60-30	100-50	
8.1-8.5	10		75-34	100-56	
8.6-9	10		75-36	100-56	
9.1-9.5	10		75-38	100-58	
9.6-10	10		75-40	100-58	
10.1-10 5	12		75-42	100-60	
10 6-11	12		75-42	100-60	
11.1-11 5	12		75-45	100-65	
11 6-12	12		75-45	100-65	
12 5	14		100-52	120-70	
13	14		100-52	120-70	
13 5	14		100-52	120-70	
14	14		100-52	120-70	
14.5	16		100-60	135-83	
15	16		100-60	135-83	
15 5	16		100-60	135-83	
16	16		100-60	135-83	

☞ 刀具涂层：无
Tool coating: Without

☞ 适用 ： 铝、铝合金、压铸铝
Use:Aluminum, aluminum alloy, die-cast aluminum

备注 规格 ： 直径D 0.5-4mm(间隔0.05)
Specification : Diameter D 0.5-4mm(interval 0.05)

直径D4-12mm(间隔0.1)
Diameter D 4-12mm(interval 0.1)

直径D12-16mm(间隔0.5)
Diameter D 12-16mm(interval 0.5)

钨钢钻头(切削参数) Carbide Drill (Cutting parameters)

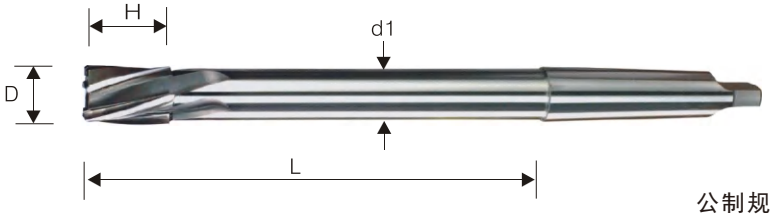
被削材 Work Material	一般结构用钢 Structural Steel SS400,S50C,FC250		合金钢/球墨铸铁 Alloy Steel/Cast Iron SCM,FCD,20~30HRC		模具钢/调质钢 Mold/Hardened Steel SKD,NAK,30~40HRC		高硬度钢 High Hardened Steel 40~50HRC		铝合金 Aluminum Alloy ADC	
切削速度 Cutting Speed Vc m/min	90 65		80 55		55 28		40 18		90 -	
钻头外径 Dia of Drill mm	回转速 R.P.M min^{-1}	进给速度 Feed mm/min	回转速 R.P.M min^{-1}	进给速度 Feed mm/min	回转速 R.P.M min^{-1}	进给速度 Feed mm/min	回转速 R.P.M min^{-1}	进给速度 Feed mm/min	回转速 R.P.M min^{-1}	进给速度 Feed mm/min
0.5~1.0	25500 19000	500 400	21000 15000	350 500	15000 9000	500 300	8000 3000	350 130	25500 -	1000 -
1.1~1.5	17000 12000	600 380	15000 13000	900 500	13500 7500	600 300	7000 3000	400 130	17000 -	950 -
1.5~2.0	14000 10000	560 340	14000 9600	880 450	12800 4400	590 220	6400 2800	340 110	14000 -	900 -
2.1~3.0	9500 6900	510 310	9500 6400	830 420	8500 3000	530 210	4200 1900	320 110	9500 -	860 -
3.1~4.0	7000 5000	480 270	7000 4800	770 390	6400 2200	510 200	3200 1400	310 100	7000 -	780 -
4.1~5.0	5700 4000	450 260	5700 3800	740 360	5100 1800	480 190	2500 1200	290 100	5700 -	750 -
5.1~6.0	4800 3400	430 260	4800 3200	710 350	4200 1500	450 180	2100 950	270 90	4800 -	720 -
6.1~7.0	4100 3000	410 250	4100 2700	680 340	3600 1250	430 170	1800 820	260 90	4100 -	690 -
7.1~8.0	3500 2500	390 230	3500 2400	630 320	3200 1100	420 160	1600 700	260 85	3500 -	650 -
8.1~9.0	3200 2300	390 230	3200 2100	630 320	2800 1000	410 160	1400 640	250 85	3200 -	650 -
9.1~10.0	2800 2000	370 220	2800 1900	600 310	2500 900	400 160	1250 600	240 85	2800 -	630 -
10.1~11.0	2600 1850	360 220	2600 1700	590 300	2300 800	380 150	1150 520	230 80	2600 -	610 -
11.1~12.0	2400 1700	360 220	2400 1600	580 290	2100 700	370 150	1050 480	230 80	2400 -	600 -
12.1~13.0	2200 1600	350 210	2200 1450	560 280	2000 680	360 150	1000 440	230 80	2200 -	580 -
13.1~16.0	1600 1300	330 190	1600 1300	500 250	1900 600	330 140	900 400	210 70	1600 -	550 -

● 有冷却液加工参数 With Coolant Processing Parameters ● 干式钻孔加工参数 Dry Drilling Processing Parameters

SWRMT

螺旋焊刃式超微粒钨钢左旋机械铰刀-莫氏锥柄

Spiral welded edge ultrafine tungsten steelLeft-handed mechanical reamer - Morse taper shank



公制规格

订购编码 Order Number	规格 Type	尺寸 Size(mm)						单价 Price
		外径 D(H7)	刃长 H	工作长 L	颈径 d_1	莫式锥柄 MT	齿数 T	
551100	SWRMT-12	12	20	150	11	2#	4	390
551102	SWRMT-14	14	20	150	13	2#	4	410
551104	SWRMT-15	15	25	150	14	3#	4	465
551106	SWRMT-16	16	25	150	15	3#	4	465
551108	SWRMT-17	17	25	150	16	3#	4	510
551110	SWRMT-18	18	35	200	17	3#	5	715
551112	SWRMT-19	19	35	200	18	3#	5	730
551114	SWRMT-20	20	35	200	19	3#	5	735
551116	SWRMT-22	22	35	200	20	3#	5	830
551118	SWRMT-23	23	35	200	21	3#	5	835
551120	SWRMT-24	24	35	200	22	3#	5	865
551122	SWRMT-25	25	35	200	22	3#	5	840
551124	SWRMT-28	28	35	230	25	4#	6	1160
551126	SWRMT-30	30	35	230	26	4#	6	1195
551128	SWRMT-32	32	35	230	28	4#	6	1245
551130	SWRMT-35	35	35	230	31	4#	6	1360
551132	SWRMT-40	40	40	260	34	4#	6	1650
551134	SWRMT-42	42	40	260	36	4#	6	1810
551136	SWRMT-45	45	40	260	38	4#:5#	6	2020
551138	SWRMT-50	50	50	300	44	4#:5#	6	2520
551140	SWRMT-55	55	50	300	46	4#:5#	8	3070
551142	SWRMT-60	60	50	300	50	4#:5#	8	3300

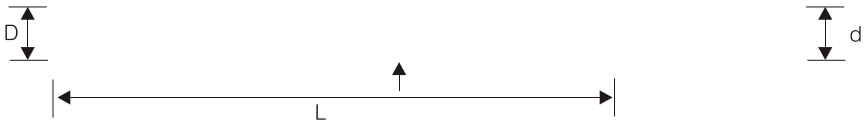
SWRIMT

螺旋焊刃式超微粒钨钢左旋机械铰刀-莫氏锥柄

Spiral Welding Edge Type Ultra-fine Particle Tungsten Steel Left-hand Mechanical Reamer - Morse Taper Shank

英制规格

订购编码 Order Number	规格 Type	尺寸 Size(mm)						单价 Price
		外径 D(H7)	刃长 H	工作长 L	颈径 d_1	莫式锥柄 MT	齿数 T	
551200	SWRIMT-1/2"	1/2"	20	150	12	2#	4	410
551202	SWRIMT-5/8"	5/8"	25	150	15	3#	4	465
551204	SWRIMT-3/4"	3/4"	35	200	18	3#	5	735
551206	SWRIMT-7/8"	7/8"	35	200	20	3#	5	865
551208	SWRIMT-1"	1"	35	200	22	3#	5	1160
551210	SWRIMT-1"1/8	1"1/8	35	230	25	4#	6	1195
551212	SWRIMT-1"1/4	1"1/4	35	230	28	4#	6	1245
551214	SWRIMT-1"3/8	1"3/8	35	230	31	4#	6	1360
551216	SWRIMT-1"1/2	1"1/2	35	260	34	4#	6	1650
551218	SWRIMT-1"5/8	1"5/8	40	260	36	4#	6	1810
551220	SWRIMT-1"3/4	1"3/4	40	260	38	4#	6	2020
551222	SWRIMT-1"7/8	1"7/8	40	260	40	4#	6	2520
551224	SWRIMT-2"	2"	50	300	44	4#	6	3070

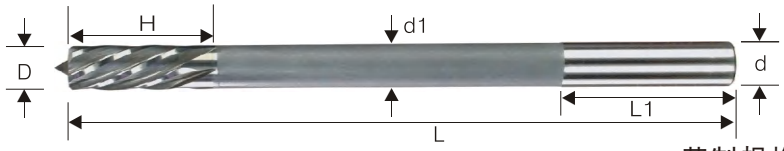


订购编码 Order Number	规格 Type	尺寸 Size(mm)							单价 Price
		外径 D(H7)	刃长 H	工作长 L	颈径 d_1	柄径 d(h7)	柄长 L_1	齿数 T	
551300	SWRM-12	12	20	120	11	12	50	4	270
551302	SWRM-14	14	20	150	13	16	60	4	305
551304	SWRM-15	15	20	150	14	16	60	4	315
551306	SWRM-16	16	25	150	15	16	60	4	340
551308	SWRM-20	20	35	200	19	20	60	5	550
551310	SWRM-25	25	35	200	20	20	60	5	630

SWRI

对焊式超微粒钨钢头 左旋机械铰刀-直柄

Butt-welded ultra-fine tungsten steel head
Left-handed mechanical reamer - straight shank



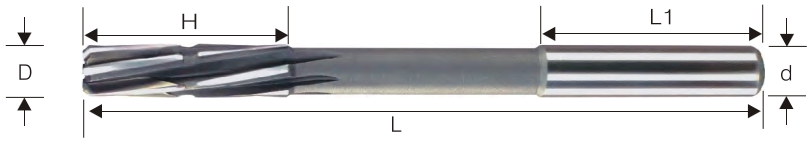
英制规格

订购编码 Order Number	规格 Type	尺寸 Size(mm)							单价 Price
		外径 D(H7)	刃长 H	颈径 d_1	柄长 L_1	柄径 d(h7)	全长 L	齿数 T	
551400	SWRI-1/8"	1/8"	20	3	35	3	75	4	
551402	SWRI-3/16"	3/16"	20	4.4	35	4	75	4	
551404	SWRI-1/4"	1/4"	30	6	40	6	130	4	
551406	SWRI-5/16"	5/16"	30	7.5	40	8	130	5	
551408	SWRI-3/8"	3/8"	30	9.3	40	10	130	5	
551410	SWRI-7/16"	7/16"	30	10.8	40	12	130	6	
551412	SWRI-1/2"	1/2"	30	12	40	12	130	6	

SWM

焊刃式超微粒钨钢不等分 左旋机械铰刀-直柄

Welding edge type ultrafine tungsten steel is not equal
Left-handed mechanical reamer - straight shank

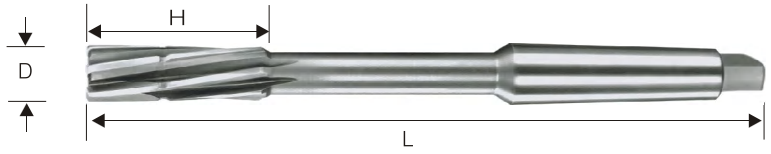


订购编码 Order Number	规格 Type	尺寸 Size(mm)						单价 Price
		外径 D(H7)	刃长 H	柄长 L_1	柄径 d(h7)	全长 L	齿数 T	
551500	SWM-6	6	26	32	6	93	6T	
551502	SWM-7	7	31	36	7	109	6T	
551504	SWM-8	8	33	42	8	117	6T	
551506	SWM-9	9	36	42	9	125	6T	
551508	SWM-10	10	38	45	10	133	6T	
551510	SWM-11	11	41	48	10	142	6T	
551512	SWM-12	12	44	50	10	151	6T	
551514	SWM-13	13	44	50	10	151	6T	
551516	SWM-14	14	47	53	12.5	160	6T	
551518	SWM-15	15	50	55	12.5	162	6T	
551520	SWM-16	16	52	58	12.5	170	6T	
551522	SWM-17	17	54	62	14	175	6T	
551524	SWM-18	18	56	64	14	182	6T	
551526	SWM-19	19	58	66	16	189	6T	
551528	SWM-20	20	60	68	16	195	6T	

SWMT

焊刃式超微粒钨钢不等分 左旋机械铰刀-莫式锥柄

Welding edge type ultrafine tungsten steel is not equal
Left-handed mechanical reamer - Mo-style taper shank



订购编码 Order Number	规格 Type	尺寸 Size(mm)					单价 Price
		外径 D(H7)	刃长 H	全长 L	莫式锥柄 MT	齿数 T	
551600	SWMT-10	10	38	168	1#	6	
551602	SWMT-11	11	41	175	1#	6	
551604	SWMT-12	12	44	182	1#	6	
551606	SWMT-13	13	44	182	1#	6	
551608	SWMT-14	14	47	189	1#	6	
551610	SWMT-15	15	50	204	2#	6	
551612	SWMT-16	16	52	210	2#	6	
551614	SWMT-17	17	54	214	2#	6	
551616	SWMT-18	18	56	219	2#	6	
551618	SWMT-19	19	58	223	2#	6	
551620	SWMT-20	20	60	228	2#	6	
551622	SWMT-22	22	64	237	2#	6	
551624	SWMT-24	24	68	268	2#	8	
551626	SWMT-25	25	68	268	2#	8	
551628	SWMT-26	26	70	273	3#	8	
551630	SWMT-27	27	71	277	3#	8	
551632	SWMT-28	28	71	277	3#	8	
551634	SWMT-30	30	73	281	3#	8	
551636	SWMT-32	32	77	317	4#	8	
551638	SWMT-35	35	78	321	4#	8	
551640	SWMT-36	36	79	325	4#	8	
551642	SWMT-38	38	81	329	4#	8	
551644	SWMT-40	40	81	329	4#	8	

螺纹铣削刀具

Thread milling tool

L05-L25

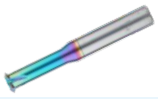
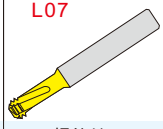
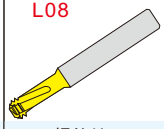
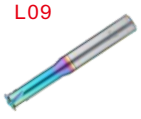
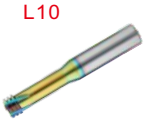
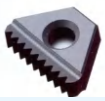


丝锥

Taps

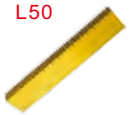
L27-L54



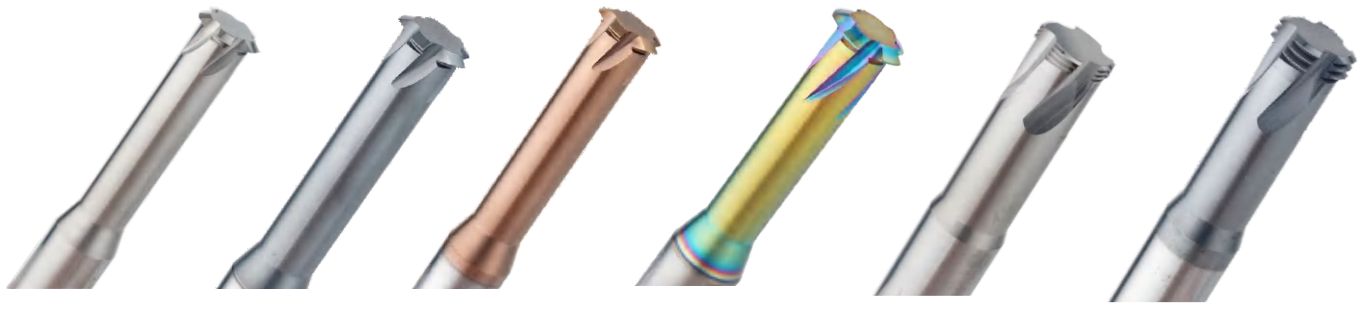
单牙型	三牙型	全牙型	加长单牙型	加长三牙型	右旋钻型	左旋钻型	左旋右切全牙型
L05	L05	L06	L06	L07	L07	L08	L08
							
螺纹铣刀 公制单牙螺纹铣刀 螺纹铣削加工	螺纹铣刀 公制三牙螺纹铣刀 螺纹铣削加工	螺纹铣刀 公制全牙螺纹铣刀 螺纹铣削加工	螺纹铣刀 公制加长单牙螺纹铣刀 螺纹铣削加工	螺纹铣刀 公制加长三牙螺纹铣刀 螺纹铣削加工	螺纹铣刀 M公制-硬质合金右旋钻孔螺纹铣刀 螺纹铣削加工	螺纹铣刀 M公制-硬质合金左旋钻孔螺纹铣刀 螺纹铣削加工	螺纹铣刀 M公制-钨钢左旋右切全牙螺纹铣刀 螺纹铣削加工
单齿型	三牙型	内螺纹型	单齿范围型	直槽型	圆柱型	圆锥型	圆锥型
L09	L10	L11	L12	L13	L13	L14	L14
							
螺纹铣刀 60° 单齿范围螺纹铣刀 螺纹铣削加工	螺纹铣刀 UNC. UNF美制三牙螺纹刀 螺纹铣削加工	螺纹铣刀 全牙美制UN内螺纹铣刀 螺纹铣削加工	螺纹铣刀 55° 英制单齿范围螺纹铣刀 螺纹铣削加工	螺纹铣刀 A80德标PG-钨钢直槽螺纹铣刀 螺纹铣削加工	螺纹铣刀 英制圆柱管螺纹铣刀 螺纹铣削加工	螺纹铣刀 NPT/NTPF美制圆锥管螺纹铣刀 螺纹铣削加工	螺纹铣刀 BSPT(PT.RC)英制圆锥管螺纹铣刀 螺纹铣削加工
标准型	标准型	英国惠氏	标准锥管型	SR. .	SR. . 加长	SR. . 双刃	SR. . 刀盘
L15	L15	L16	L16	L18	L18	L18	L18
							
螺纹刀片 ISO标准型螺纹刀片 螺纹铣削加工	螺纹刀片 UN-60° 美制统一标准型螺纹刀片 螺纹铣削加工	螺纹刀片 W-55° 英国惠氏螺纹刀 螺纹铣削加工	螺纹刀片 BSPT-55° 英国标准锥管螺纹刀 螺纹铣削加工	适配刀片 ..N. . 螺纹铣削加工	适配刀片 ..N. . 螺纹铣削加工	适配刀片 ..N. . 螺纹铣削加工	适配刀片 ..N. . 螺纹铣削加工
标准型	美制统一标准型	机械型	STM. .	STMN. .	STM. .	STML. .	2STM. . 双刃
L19	L19	L19	L20	L20	L20	L20	L20
							
螺纹铣刀片 ISO标准型螺纹铣刀片 螺纹铣削加工	螺纹铣刀片 UN-60° 美制统一标准型螺纹铣刀片 螺纹铣削加工	螺纹铣刀片 UNJ美制航空航天机械螺纹刀片 螺纹铣削加工	适配刀片 TM. . 螺纹铣削加工	适配刀片 TM. . 螺纹铣削加工	适配刀片 TM. . 螺纹铣削加工	适配刀片 TM. . 螺纹铣削加工	适配刀片 TM. . 螺纹铣削加工
SHTM. . 刀盘	2UI..	3UI..	..AI..	螺纹铣刀杆	螺纹铣刀杆	单刃铣螺纹	旋风铣螺纹
L20	L23	L23	L23	L23	L23	L24	L25
							
适配刀片 TM. . 螺纹铣削加工	螺纹铣刀片 深孔加工 螺纹铣削加工	螺纹铣刀片 深孔加工 螺纹铣削加工	螺纹铣刀片 深孔加工 螺纹铣削加工	螺纹铣刀杆 深孔加工 螺纹铣削加工	螺纹铣刀杆 深孔加工 螺纹铣削加工	螺纹铣刀杆 铣螺纹加工 螺纹铣削加工	螺纹铣刀杆 旋风铣螺纹加工 螺纹铣削加工
螺旋槽丝锥	螺旋槽丝锥	螺旋槽丝锥-短刃	螺旋槽丝锥	螺旋槽丝锥	直槽先端丝锥	直槽先端丝锥	直槽先端丝锥
L27	L28	L28	L29	L30	L31	L33	L34
							
螺旋丝锥 JIS-SP螺旋槽丝锥 螺纹铣削加工	螺旋丝锥 JIS-SP螺旋槽丝锥 螺纹铣削加工	螺旋丝锥 JIS螺旋槽丝锥-短刃 螺纹铣削加工	螺旋槽丝锥 JIS-SP美制螺旋槽丝锥 螺纹铣削加工	螺旋槽丝锥 JIS-SP英制螺旋槽丝锥 螺纹铣削加工	直槽丝锥 直槽先端丝锥JIS-PO 通孔加工	直槽丝锥 JIS-PO英制直槽先端丝锥 通孔加工	直槽丝锥 JIS-PO美制直槽先端丝锥 通孔加工
无沟挤压丝锥	无沟挤压丝锥	螺旋槽丝锥	直槽丝锥	螺旋槽丝锥	直槽丝锥	螺纹丝锥	螺纹丝锥（RC）
L35	L36	L37	L38	L39	L40	L41	L41
							
直槽丝锥 JIS-NRT无沟挤压丝锥 螺纹孔加工	直槽丝锥 JIS-NRT美制无沟挤压丝锥 螺纹孔加工	螺旋槽丝锥 GB-SPS螺旋槽丝锥 螺纹孔加工	直槽丝锥 GB-POZ直槽先端丝锥 螺纹孔加工	螺纹槽丝锥 DIN-SP螺旋槽丝锥 螺纹孔加工	直槽丝锥 DIN-PO直槽先端丝锥 螺纹孔加工	螺纹丝锥 （标准）圆柱螺纹丝锥 螺纹孔加工	螺纹丝锥 55° 圆锥管螺纹丝锥 螺纹孔加工
螺纹丝锥（PT）	螺纹丝锥	螺旋丝锥	螺纹丝锥	螺纹丝锥	螺纹加长丝锥	螺纹丝锥	螺纹丝锥
L41	L42	L42	L42	L43	L43	L43	L44
							
螺纹丝锥 55° 圆锥管螺纹螺旋槽丝锥 螺纹孔加工	螺纹丝锥 60° 圆锥管螺纹螺丝锥 螺纹孔加工	螺纹丝锥 60° 圆锥管螺纹螺旋丝锥 螺纹孔加工	螺纹丝锥 ANPT圆锥管螺纹丝锥 螺纹孔加工	螺纹丝锥 NPTF圆锥管螺纹丝锥（干密封） 螺纹孔加工	螺纹加长丝锥 60° 圆锥管螺纹加长丝锥 螺纹孔加工	螺纹丝锥 美标气瓶锥螺纹丝锥 螺纹孔加工	螺纹丝锥 气瓶锥螺纹丝锥 螺纹孔加工

螺纹丝锥	暖气片丝锥	钢管丝锥	钢管丝锥	抽油杆丝锥	桶盖丝锥	过滤器丝锥	过滤器丝锥
L44	L44	L45	L45	L45	L46	L46	L46
							
螺纹丝锥	暖气片丝锥	钢管丝锥	钢管丝锥	抽油杆丝锥	桶盖丝锥	过滤器丝锥	过滤器丝锥
建筑套筒用螺纹丝锥	适用于左右旋内螺纹加工	NPSC、NPSL钢管丝锥	Rp刚管丝锥	抽油杆接箍挤压丝锥	桶盖挤压丝锥	过滤器普通螺纹挤压丝锥	过滤器统一螺纹挤压丝锥
螺纹孔加工	螺纹孔加工	螺纹孔加工	螺纹孔加工	螺纹孔加工	螺纹孔加工	螺纹孔加工	螺纹孔加工

梯形丝锥	螺母丝锥	螺旋槽丝锥	专用丝锥	螺纹环规	螺纹塞规	螺纹塞规	螺纹环规
L47	L47	L47	L47	L48	L48	L48	L49
							
梯形丝锥	螺母丝锥	螺旋槽丝锥	专用丝锥	螺纹环规	螺纹塞规	螺纹塞规	螺纹环规
梯形丝锥（TR...）	防松螺母丝锥	马氏体专用螺旋槽公制丝锥	专用公制阀门丝锥	55° 全牙型工作螺纹环规	55° 全牙型工作螺纹塞规	NPT圆锥管工作螺纹塞规（极限式）	NPT圆锥管工作螺纹环规（极限式）
螺纹孔加工	螺母螺纹孔加工	螺纹孔加工	螺纹孔加工	螺纹加工	螺纹加工	螺纹加工	螺纹加工

螺纹塞规	圆锥环规	气瓶环规	螺纹梳刀体	螺纹梳刀体	梳刀片	梳刀片	梳刀片
L49	L49	L49	L49	L50	L50	L50	L50
							
螺纹塞规	圆锥环规	气瓶环规	螺纹梳刀体	螺纹梳刀体	梳刀片	梳刀片	梳刀片
德标螺纹极限塞规	气瓶圆锥光滑环规	气瓶圆锥光滑环规	R、NPT圆锥管螺纹梳刀体	R、NPT圆锥管螺纹梳刀体（刀把式）	出口数刀片	R、NPT圆锥管螺纹刀把梳刀片	R、NPT圆锥管螺纹梳刀片
螺纹加工	螺纹加工	螺纹加工	螺纹加工	螺纹加工	螺纹加工	螺纹加工	螺纹加工

螺纹钻头	螺纹攻牙	螺纹攻牙	螺纹攻牙	螺纹攻牙
L51	L52	L52	L53	L54
				
螺纹钻头	螺纹攻牙	螺纹攻牙	螺纹攻牙	螺纹攻牙
螺纹攻牙下孔径（钻头）	挤压-螺纹攻牙下孔径	挤压-螺纹攻牙下孔径	螺纹攻牙下孔径（钻头）	螺纹攻牙下孔径（钻头）
螺纹加工	螺纹加工	螺纹加工	螺纹加工	螺纹加工

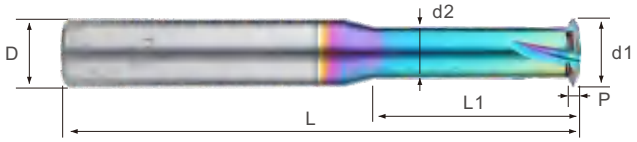




公制单牙螺纹铣刀

Metric single tooth thread milling cutter

1T-..

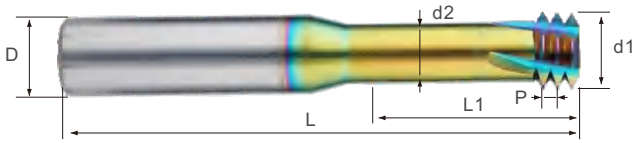


螺距 pitch	粗牙 Coarse teeth	细牙 Fine tooth	刃径d1 Blade diameter d1	避空直径d2 Avoidance diameter d2	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
0.2	**M0.8xP0.2**		0.55	0.29	1.5	4	50	2	
0.25	**M1.0xP0.25**	M1.4x0.25	0.7	0.375	3.1	4	50	3	
0.25	**M1.2xP0.25**	M1.4x0.25	0.9	0.575	3.8	4	50	3	
0.3	**M1.4xP0.3**		1.05	0.66	4	4	50	3	
0.35	**M1.6xP0.35**		1.2	0.745	5	4	50	3	
0.35		M1.8xP0.35/M2.0xP0.35	1.4	0.945	5.6	4	50	3	
0.4	**M2xP0.4**		1.54	1.02	6	4	50	3	
0.45	**M2.5xP0.45**		1.96	1.375	6.5	4	50	3	
0.5	**M3xP0.5**		2.4	1.75	8		50	3	
0.5		M8.0xP0.5	6	5.35	20	6	50	3	
0.6	**M3.5xP0.6**		2.75	1.97	10	4	50	3	
0.7	**M4.0xP0.7**		3.15	2.24	10	4	50	3	
0.75	**M4.5xP0.75**		3.5	2.525	12	4	50	3	
0.75		M8.0xP0.75	6	5.025	20	6	50	3	
0.8	**M5.0xP0.8**		4	2.96	12	4	50	3	
1.0	**M6.0xP1.0**		4.8	3.5	15	6	50	3	
1.25	**M8.0xP1.25**		6	4.375	20	6	50	3	
1.5	**M10xP1.5**		8	6.05	25	8	60	3	
1.5		M14xP1.5	12	10.05	30	12	75	4	
1.75	**M12xP1.75**		10	7.725	30	10	75	4	
2.0	**M14xP2.0**		10	7.4	36	10	75	4	
2.0		M16xP2.0	12	9.4	45	12	75	4	
2.5	**M18xP2.5**		14	10.75	48	14	90	5	
3.0	**M24xP3.0**		14	10.1	48	14	90	5	
3.5	**M30xP3.5**		16	11.45	50	16	90	5	

公制三牙螺纹铣刀

Metric three tooth thread milling cutter

3T-..

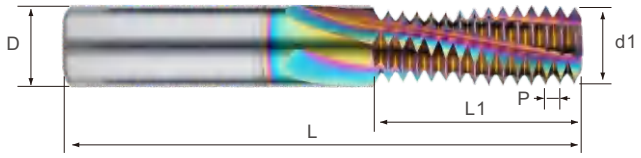


螺距 pitch	粗牙 Coarse teeth	细牙 Fine tooth	刃径d1 Blade diameter d1	避空直径d2 Avoidance diameter d2	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
0.25	**M1.0xP0.25**		0.7	0.375	2.8	4	50	3	
0.25	**M1.2xP0.25**		0.9	0.575	3	4	50	3	
0.3	**M1.4xP0.3**		1.05	0.66	3.2	4	50	3	
0.35	**M1.6xP0.35**		1.2	0.745	4	4	50	3	
0.35		M1.8xP0.35	1.41	0.955	4.1	4	50	3	
0.4	**M2.0xP0.4**		1.54	1.02	4.4	4	50	3	
0.45	**M2.5xP0.45**		1.96	1.375	5.3	4	50	3	
0.5	**M3.0xP0.5**		2.4	1.75	6.4	4	50	3	
0.5		M4.0xP0.5	3	2.35	8.6	4	50	3	
0.5		M6.0xP0.5	4.8	4.15	13	6	50	3	
0.5		M10xP0.5	8	7.35	21.8	8	60	3	
0.6	**M3.5xP0.6**		2.75	1.97	7.4	4	50	3	
0.7	**M4.0xP0.7**		3.15	2.24	8.6	4	50	3	
0.75	**M4.5xP0.75**		3.5	2.525	9.5	4	50	3	
0.75		M6.0xP0.75	4.8	3.825	13	6	50	3	
0.75		M8.0xP0.75	6	5.025	16	6	50	3	
0.75		M10xP0.75	8	7.025	21.8	8	60	3	
0.8	**M5.0xP0.8**		4	2.96	12	4	50	3	
1.0	**M6.0xP1.0**		4.8	3.5	13	6	50	3	
1.0		M8.0xP1.0	6	4.7	16	6	50	3	
1.0		M10xP1.0	8	6.7	21.8	8	60	3	
1.0		M12xP1.0	10	8.7	25	10	75	4	
1.0		M14xP1.0	10	8.7	28	10	75	4	
1.0		M16xP1.0	12	10.7	30	12	75	4	
1.0		M20xP1.0	15.8	14.5	40	16	90	4	
1.25	**M8.0xP1.25**		6	4.375	16	6	50	3	
1.25		M10xP1.25	8	6.375	21.8	8	60	3	
1.25		M12xP1.25	10	8.375	25	10	75	4	
1.25		M14xP1.25	10	8.375	28	10	75	4	
1.25		M16xP1.25	12	10.375	30	12	75	4	
1.5	**M10xP1.5**		8	6.05	21.8	8	60	3	
1.5		M12xP1.5	10	8.05	25	10	75	4	
1.5		M14xP1.5	12	10.05	28	12	75	4	
1.5		M16xP1.5	12	10.05	30	12	75	4	
1.5		M20xP1.5	15.8	13.85	40	16	90	4	
1.75	**M12xP1.75**		10	7.725	25	10	75	4	
2.0	**M14xP2.0**		10	7.4	25	10	75	4	
2.0		M16xP2.0	12	9.4	27	12	75	4	
2.0		M20xP2.0	15.8	13.2	40	16	90	4	
2.5	**M20xP2.5**		14	10.75	40	14	90	4	
3.0	**M24xP3.0**		16	12.1	45	16	90	4	

公制全牙螺纹铣刀

Metric full thread milling cutter

FT-..

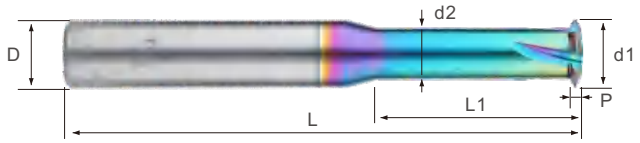


螺距 pitch	粗牙 Coarse teeth	细牙 Fine tooth	刃径d1 Blade diameter d1	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
0.5	**M3.0xP0.5**		2.3	6	4	50	3	
0.5		M6.0xP0.5	4	10	4	50	3	
0.5		M8-M12xP0.5	6	16	6	50	3	
0.6	**M3.5xP0.6**		2.7	7	4	50	3	
0.7	**M4.0xP0.7**		3	8	4	50	3	
0.75	**M4.5xP0.75**		3.4	9	4	50	3	
0.75		M6.0xP0.75	4.8	12	6	60	3	
0.75		M8.0xP0.75	6	16	6	60	3	
0.75		M10-M12xP0.75	8	20	8	60	3	
0.8	**M5.0xP0.8**		4	10	4	50	3	
1.0	**M6.0xP1.0**		4.8	12	6	60	3	
1.0		M8.0xP1.0	6	16	6	60	3	
1.0		M10xP1.0	8	20	8	60	3	
1.0		M12-M14xP1.0	10	22	10	75	4	
1.0		M16xP1.0	12	22	12	75	4	
1.0		M20-M48xP1.0	16	30	16	90	4	
1.25	**M8.0xP1.25**		6	16	6	60	3	
1.25		M10xP1.25	8	20	8	60	3	
1.25		M12-M14xP1.25	10	25	10	75	4	
1.5	**M10xP1.5**		8	20	8	60	3	
1.5		M12-M20xP1.5	10	28	10	75	4	
1.5		M14-M24xP1.5	12	28	12	75	4	
1.5		M20-M48xP1.5	16	30	16	90	4	
1.75	**M12xP1.75**		9.8	30	10	75	4	
2.0	**M14xP2.0**		10	30	10	75	4	
2.0		M16xP2.0	12	30	12	75	4	
2.0		M20-M80xP2.0	16	40	16	100	4	
2.5	**M18-M20xP2.5**		14	36	14	100	4	
2.5		M20-M80xP2.5	16	40	16	100	4	
3.0	**M24xP3.0**		16	42	16	100	4	

公制加长单牙螺纹铣刀

Metric extended single tooth thread milling cutter

1T-..

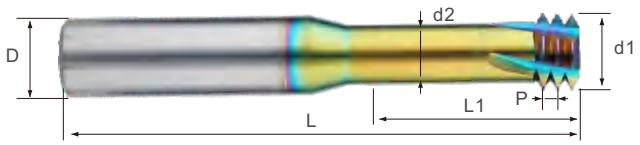


螺距 pitch	型号 model	刃径d1 Blade diameter d1	避空直径d2 Avoidance diameter d2	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
0.3	**M1.4xP0.3**	1.05	0.66	4	4	100	3	
0.35	**M1.6xP0.35**	1.2	0.745	4.5	4	100	3	
0.4	**M2.0xP0.4**	1.55	0.9	6	4	100	3	
0.45	**M2.5xP0.45**	1.96	1.3	6.5	4	100	4	
0.5	**M3.0xP0.5**	2.35	1.6	8	4	100	4	
0.7	**M4.0xP0.7**	3.15	2.1	10	4	100	4	
0.8	**M5.0xP0.8**	3.9	2.8	12	4	100	4	
1.0	**M6.0xP1.0**	4.8	3.4	15	6	100	4	
1.25	**M8.0xP1.25**	6	4.2	20	6	100	4	
1.5	**M10xP1.5**	7.7	5.6	25	8	100	4	
1.75	**M12xP1.75**	9.6	7.3	30	10	100	4	
2.0	**M14xP2.0**	10	7.3	36	10	100	4	
2.5	**M18xP2.5**	12	8.75	38	12	100	4	
3.0	**M24xP3.0**	14	10.1	48	14	100	6	
3.5	**M30xP3.5**	16	11.45	50	16	100	6	

公制加长三牙螺纹铣刀

Metric extended single tooth thread milling cutter

3T-..

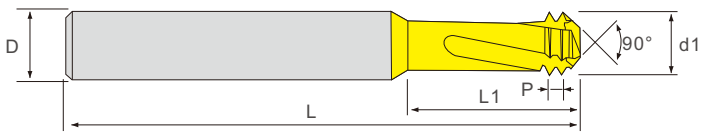


螺距 pitch	型号 model	刃径d1 Blade diameter d1	避空直径d2 Avoidance diameter d2	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
0.35	**M1.6*P0.35**	1.2	0.745	3.2	6	100	3	
0.4	**M2.0*P0.4**	1.55	1.03	4	6	100	3	
0.45	**M2.5*P0.45**	1.96	1.375	5	6	100	3	
0.5	**M3.0*P0.5**	2.4	1.75	6	6	100	3	
0.7	**M4.0*P0.7**	3.15	2.24	8	6	100	3	
0.8	**M5.0*P0.8**	4	2.96	10	6	100	3	
1.0	**M6.0*P1.0**	4.8	3.5	12	6	100	3	
1.25	**M8.0*P1.25**	6	4.375	16	6	100	4	
1.5	**M10*P1.5**	8	6.05	21.8	8	100	4	
1.75	**M12*P1.75**	10	7.725	24	10	100	4	
2.0	**M14*P2.0**	10	7.4	37	10	100	4	

M公制-硬质合金右旋钻孔螺纹铣刀

M metric hard alloy right-hand drilling thread milling cutter

RT-..



M公制螺纹代号 M metric thread code	刀具规格 tool specification	刃径d1 Blade diameter d	有效刃长L1 Effective blade length L1	螺距 P pitch	柄径D Shank diameter D	刃数F Blade count F	总长L Total length L	Order Number
M2*0.4P	D1.4*0.4P*5H*D6*50L*3F	1.4	5	0.4	6	3	50	
M2.5*0.45P	D1.8*0.45P*6H*D6*50L*3F	1.8	6	0.45	6	3	50	
M3*0.5P	D2.4*0.5P*9H*D6*50L*3F	2.4	9	0.5	6	3	50	
M4*0.7P	D3.2*0.7P*12H*D6*50L*3F	3.2	12	0.7	6	3	50	
M5*0.8P	D3.9*0.8P*12H*D6*50L*3F	3.9	12	0.8	6	3	50	
M6*1.0P	D4.7*1.0P*15H*D6*50L*3F	4.7	15	1	6	3	50	
M8*1.25P	D6.5*1.25P*20H*D8*60L*3F	6.5	20	1.25	8	3	60	
M10*1.5P	D7.8*1.5P*23H*D8*75L*3F	7.8	23	1.5	8	3	75	
M12*1.75P	D9.5*1.75P*26H*D10*75L*3F	9.5	26	1.75	10	3	75	

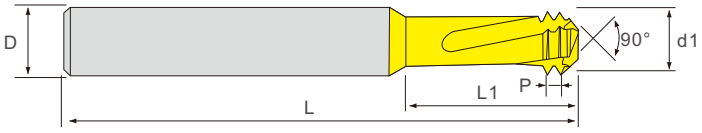
Co10%材料，涂层巴尔查斯-超H,加工不锈钢，高温合金，钛合金，模具钢，钢件，铸铁

Co10% material, coated with Balchals Ultra H, processed stainless steel, high-temperature alloy, titanium alloy, mold steel, steel parts, cast iron

M公制-硬质合金高硬左旋左切钻铣螺纹铣刀

M metric hard alloy high hardness left-hand
cutting, drilling, and milling thread milling cutter

LT-..



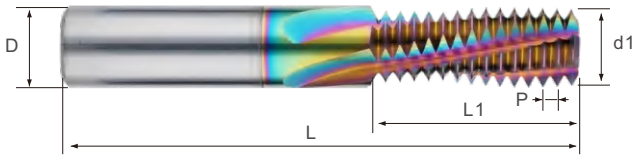
M公制螺纹代号 M metric thread code	刀具规格 tool specification	刃径d1 Blade diameter d	有效刃长L1 Effective blade length L1	螺距 P pitch	柄径D Shank diameter D	刃数F Blade count F	总长L Total length L	Order Number
M2*0.4P	D1.4*0.4P*5H*D6*50L*4F	1.4	5	0.4	6	4	50	
M2.2*0.45P	D1.6*0.45P*5.5H*D6*50L*4F	1.6	5.5	0.45	6	4	50	
M2.5*0.45P	D1.8*0.45P*6.25H*D6*50L*4F	1.8	6.25	0.45	6	4	50	
M3*0.5P	D2.4*0.5P*7.25H*D6*50L*4F	2.4	7.25	0.5	6	4	50	
M4*0.7P	D3.1*0.7P*10H*D6*50L*4F	3.1	10	0.7	6	4	50	
M5*0.8P	D4*0.8P*12.5H*D6*50L*4F	4	12.5	0.8	6	4	50	
M6*1.0P	D4.6*1.0P*15H*D6*50L*4F	4.6	15	1	6	4	50	
M8*1.25P	D6.2*1.25P*20H*D10*75L*4F	6.2	20	1.25	10	4	75	
M10*1.5P	D7.5*1.5P*25H*D10*75L*4F	7.5	25	1.5	10	4	75	
M12*1.75P	D9*1.75P*30H*D10*75L*4F	9	30	1.75	10	4	75	

Co8%高硬材料，涂层巴尔查斯-DR,加工热处理钢材HRC60模具钢等高硬度材料
Co8% high hardness material, coated with Balchals DR, processed heat treated steel HRC60 mold steel and other high hardness materials

M公制-钨钢左旋右切全牙螺纹铣刀

M metric tungsten steel left-hand right
cutting full thread milling cutter

FLT-..



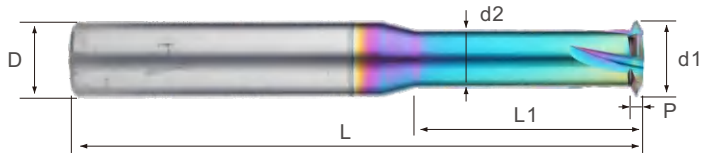
M公制螺纹代号 M metric thread code	刀具规格 tool specification	刃径d1 Blade diameter d	有效刃长L1 Effective blade length L1	螺距P pitch	柄径D Shank diameter D	刃数F Blade count F	总长L Total length L	Order Number
M6*0.75P	D4.5*0.75P*13H*D6*65*4T	4.5	13	0.75	6	4	65	
M6*1.0P	D4.5*1.0P*13H*D6*65*4T	4.5	13	1	6	4	65	
M8*0.5P	D5.7*0.5P*16H*D6*75L*4T	5.7	16	0.5	6	4	75	
M8*1.0P	D5.7*1.0P*18H*D6*75*4T	5.7	18	1	6	4	75	
M8*1.25P	D5.7*1.25P*19H*D6*75*4T	5.7	19	1	6	4	75	
M10*1.0P	D7.7*1.0P*22H*D8*85*4T	7.7	22	1	8	4	85	
M10*1.25P	D7.7*1.25P*22.5H*D8*85*4T	7.7	22.5	1.25	8	4	85	
M10*1.5P	D7.7*1.5P*24H*D8*85*4T	7.7	24	1.5	8	4	85	
M12*1.0P	D9.7*1.0P*26H*D10*100*5T	9.7	26	1	10	5	100	
M12*1.25P	D9.7*1.25P*27.5H*D10*100*5T	9.7	27.5	1.25	10	5	100	
M12*1.5P	D9.7*1.5P*27H*D10*100*5T	9.7	27	1.5	10	5	100	
M12*1.75P	D9.7*1.75P*28H*D10*100*5T	9.7	28	1.75	10	5	100	
M14*0.5P	D11.7*0.5P*29H*D12*100*5T	11.7	29	0.5	12	5	100	
M14*0.75P	D11.7*0.75P*30H*D12*100*5T	11.7	30	0.75	12	5	100	
M14*1.0P	D11.7*1.0P*28H*D12*100*5T	11.7	28	1	12	5	100	
M14*2.0P	D9.7*2.0P*28H*D10*100*5T	9.7	28	2	10	5	100	
M16*1.0P	D13.7*1.0P*35H*D14*110*5T	13.7	35	1	14	5	110	
M16*1.5P	D13.7*1.5P*36H*D14*110*5T	13.7	36	1.5	14	5	110	
M16*1.5P	D13.7*1.5P*45H*D14*120*5T	13.7	45	1.5	14	5	120	
M16*2.0P	D11.7*2.0P*35H*D12*110*5T	11.7	35	2	12	5	110	
M18*2.5P	D11.7*2.5P*42.5H*D12*120*5T	11.7	42.5	2.5	12	5	120	
M20*1.5P	D15.7*1.5P*40H*D16*100*5T	15.7	40	1.5	16	5	100	
M24*3.0P	D19.7*3.0P*54H*D20*130*5T	19.7	54	3	20	5	130	

Co10%材料，涂层巴尔查斯-超H,加工不锈钢，高温合金，钛合金，模具钢，钢件，铸铁
Co10% material, coated with Balchals Ultra H, processed stainless steel, high-temperature alloy, titanium alloy, mold steel, steel parts, cast iron

60°单齿范围螺纹铣刀(适合UN.M)

60 ° single tooth range thread milling cutter (suitable for UN.M.)

1T-..

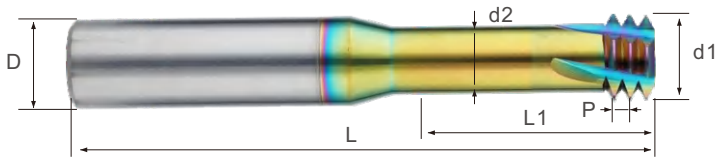


螺距 pitch	螺距 pitch	规格 specifications			尺寸规格 Size specifications						Order Number
		粗牙 Coarse teeth	细牙 Fine tooth		刃径d1 Blade diameter d1	避空直径d2 Avoidance diameter d2	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	
32-56	0.5-0.8	**M5.0x0.8**	M5x0.5 M5X0.75	No.10-56UNS, No. 10-48UNS, No. 40UNS,M5X0.75	3.9	2.8	16	4	50	4	
24-56	0.5-1.0	**M6.0x1.0**	M6x0.5 M6X0.75	No. 12-56UNS, No. 12-48UNS, 1/4-40UNS, 1/4-36UNS, 1/4-32UNEF, 1/4-28UNF, 1/4-27UNS, 1/4-24UNS	4.85	3.5	20	6	60	5	
20-48	0.5-1.25	**M8.0x1.25**	M7x0.5 M7X0.75	5/16-48UNS, 5/16-40UNS, 5/16-36UNS, 5/16-36UNEF, 5/16-28UN, 5/16-27UNS, 5/16-24UNS, 5/16-20UNS	5.9	4.2	25	6	60	5	
24-56	0.5-1.0		M7.5X1.0 M10X0.5 M11X0.75	7/16-32UNS, 7/16-28UNEF, 7/16-27UNS, 7/16-24UNS	9.8	8.5	35	10	75	6	
13-24	1.0-1.50	**M10x1.5**	M11X1.0 M10X1.0	3/8-24UNF, 3/8-20UNS, 7/16-18UNS, 7/16-16UNS	7.9	5.8	32	8	75	6	
14-24	1.0-1.75	**M12x1.75**	M10X1.25 M12X1.0	1/2-24UNS, 1/2-20UNS, 1/2-18UNS, 1/2-16UNS, 1/2-14UNS	9.9	7.6	38	10	75	6	
14-24	1.0-2.0	**M16x2.0**	M12X1.25 M12X1.5 M13.5X1.0	9/16-24UNEF, 9/16-18UNF, 5/8-18UNF, 3/4-16UNF, 7/8-14UNF	11.9	9.6	40	12	75	6	
9-12	2.0-3.0	**M18x2.5** **M20x2.5** **M22x2.5** **M24x3.0** **M27x3.0**	M14X1.25 M14X1.5	9/16-12UNC, 5/8-11UNC 3/4-10UNC, 7/8-9UNC	14	10.2	48	14	100	6	
8-12	2.0-3.5	**M20×2.5** **M22x2.5** **M24x3.0** **M27×3.0** **M30×3.5** **M33x3.5**		9/16-12UNC, 5/8-11UNC 3/4-10UNC, 1-8UNC	16	11.5	50	16	100	6	

UNC.UNF美制三牙螺纹刀

UNC.UNF American triple thread cutter

3T-..

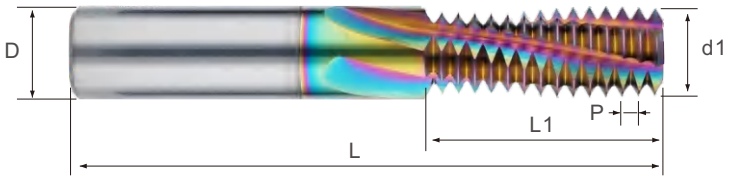


螺距 pitch	UNC粗牙 NUF Coarse teeth	UNF细牙 NUF Fine tooth	刃径d1 Blade diameter d1	避空直径d2 Avoidance diameter d2	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
72		No.1-72	1.45	0.991	3.9	4	50	3	
64	**No.1-64**	No.2-64	1.4	0.884	4.2	4	50	3	
56	**No.2-56**	No.3-56	1.65	1.06	5	4	50	3	
48	**No.3-48**	No.4-48	1.9	1.212	6	4	50	3	
40	**No.4,No.5-40**	No.6-40	2.1	1.275	6	4	50	3	
40	**No.5-40**	No.6-40	2.45	1.6	7.2	4	50	3	
36		No.8-36	3.3	2.383	8.7	4	50	3	
32	**No.6,No.8-32**	No.10-32	2.55	1.518	7.4	4	50	3	
32	**No.8-32**	No.10-32	3.2	2.168	10	4	50	3	
32		No.10-32	3.8	2.768	10.3	4	50	3	
28		1/4"-28	5.25	4.071	13.2	6	50	3	
24	**No.10-24**	5/16"-24	3.58	2.204	10.2	4	50	3	
24		5/16"-24	6.68	5.304	16.5	8	60	3	
20	**1/4"-20**	7/16"-20	4.88	3.229	13.4	6	50	3	
20		7/16"-20	9.55	7.899	23	10	75	4	
18	**5/16"-18**		6.15	4.316	16.9	8	60	3	
16	**3/8"-16**		6.7	4.636	19.1	8	60	3	
14	**7/16"-14**		9	6.641	23.3	10	75	4	

全牙美制UN内螺纹铣刀

Full tooth American UN internal thread milling cutter

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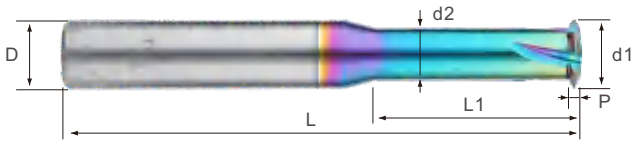


螺距 pitch	粗牙 Coarse teeth	细牙 Fine tooth	超细牙 Ultrafine teeth	刃径d1 Blade diameter d1	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
36		No.8-36		3	8.5	4	50	3	
32		No.10-32	No.12-3/8"-32	3.5	11.1	4	50	3	
28		No.12-28,1/4"-28	7/16",1/2"-28	4	11.8	4	50	3	
28		1/4"-28	7/16",1/2"-28	5	12.7	6	60	3	
28	**N0.10-24**		7/16",1/2"-28	9.2	22.7	10	75	4	
24	**N0.12-24**	5/16",3/8-24	9/16",11/16"-24	3.2	10.6	4	50	3	
24		5/16",3/8-24	9/16",11/16"-24	4	11.6	4	50	3	
24		5/16",3/8-24	9/16",11/16"-24	6	15.9	6	60	3	
24		3/8"-24	9/16",11/16"-24	7.8	19.1	8	60	3	
24	**1/4"-20**		9/16",11/16"-24	11.9	28.6	12	75	4	
20		7/16",1/2"-20	3/4",1"-20	4	12.7	4	50	3	
20		7/16",1/2"-20	3/4",1"-20	9	22.9	10	75	4	
20		1/2"-20	3/4",1"-20	10	25.4	10	75	4	
20	**5/16"-18**		3/4",1"-20	12	38.1	12	75	4	
18		9/16",5/8"-18	11/16",1 11/16"-18	5.8	16.9	6	60	3	
18		9/16",5/8"-18	11/16",1 11/16"-18	10	29.6	10	75	4	
18	**3/8"-16**	5/8"-18	11/16",1 11/16"-18	11.9	32.5	12	75	4	
16		3/4"-16		7.6	19.1	8	60	3	
16	**7/16"-14**	3/4"-16		12	28	12	75	4	
14		7/8"-14		8	20	8	60	3	
14	**1/2"-13**	7/8"-14		16	39.9	16	100	4	
13	**9/16"-12**			8	20	8	60	3	
12		1",1 1/2"-12		10	28	10	75	4	
12	**5/8"-11**	1",1 1/2"-12		16	40	16	100	4	
11	**3/4"10**			12	30	12	75	4	
10	**7/8"-9**			12	30	12	75	4	
9	**1"-8**			16	38	16	100	4	
8				16	40	16	100	4	

55°英制单齿范围螺纹铣刀

55 ° inch single tooth range thread milling cutter

1T-..

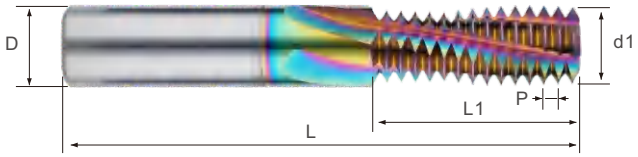


螺距 pitch	型号 model	刃径d1 Blade diameter d1	避空直径d2 Avoidance diameter d2	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
P0.793	**W5/32**	3.1	1.9	8	4	50	4	
P1.058	**W3/16-24**	3.5	2	10	4	50	4	
P1.27	**W1/4-20**	4	2.2	12	4	50	4	
P0.907-P1.411	**W5/16-18 G1/16-28 G1/8-28**	6	4.5	14	6	50	4	
P1.336-P1.814	**W3/8-16 W7/16-14 G1/4-19 G3/8-19**	8	5.9	22	8	60	4	
P1.336-P1.814	**W7/16-14 G1/2-14 G1/4-19 G3/4-14 G3/8-19"**	10	7.3	30	10	75	4	
P1.336-P2.54	**W5/8-11 W3/4-10 G1/2-14 G3/4-14 G1-11**	12	8.2	38	12	75	4	

A80德标PG-钨钢直槽螺纹铣刀

A80 German standard PG tungsten steel straight groove thread milling cutter

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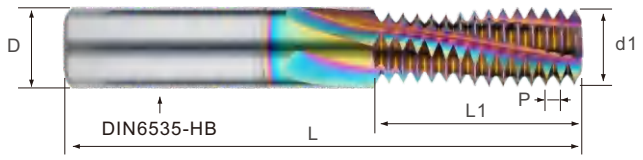
UN螺纹代号 UN thread code	螺距 pitch	刀具规格 tool specification	刃径d1 Blade diameter d	有效刃长L1 Effective blade length L1	螺距 pitch	柄径D Shank diameter D	刃数F Blade count F	总长L Total length L	Order Number
Pg7	20	d7.9*1.27P*19L1*D8*65L*5F	7.9	19	1.27	8	5	65	
PG9,11，13.5，16	18	d9.9*1.411P*24L1*D10*75L*5F	9.9	24	1.411	10	5	75	
PG21，29，36，42，48	16	d11.9*1.588P*29L1*D12*85L*5F	11.9	29	1.588	12	5	85	

Co10%材料，涂层巴尔查斯-超H,加工不锈钢，高温合金，钛合金，模具钢，钢件，铸铁
Co10% material, coated with Balchals Ultra H, processed stainless steel, high-temperature alloy, titanium alloy, mold steel, steel parts, cast iron

英制圆柱管螺纹铣刀

Inch cylindrical pipe thread milling cutter

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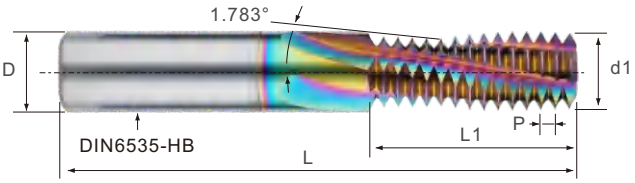


螺距 pitch	型号 model	刃径d1 Blade diameter d1	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
28	G1/16 G1/8	6	12	6	60	3	
28	G1/8	8	12	8	60	3	
19	G1/4	8	18	8	60	3	
19	G1/4 G3/8	10	15	10	75	4	
19	G3/8	12	22	12	75	4	
19	G3/8	14	22	14	90	4	
14	G1/2 G5/8 G3/4	16	30	16	90	4	
11	G1 G1-1/2	16	34	16	90	4	

NPT/NPTF美制圆锥管螺纹铣刀

NPT/NPTF American taper pipe
thread milling cutter

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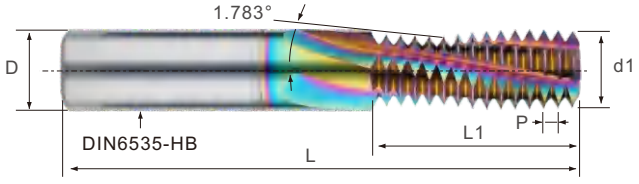


螺距 pitch	型号 model	刃径d1 Blade diameter d1	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
27	1/16'' 1/8''	5.2	12	6	60	3	
27	1/8''	7.2	12	8	60	3	
18	1/4''	7.1	14.1	8	60	3	
18	1/4'' 3/8''	8.7	20	10	75	4	
18	3/8''	10.6	22	12	75	4	
18	3/8''	12.6	22	14	90	4	
14	1/2''	10.8	18.1	12	75	4	
14	1/2'' 3/4'' 5/8''	14.4	25	16	90	4	
11.5	1'' 2''	14.1	30	16	90	4	
8	2-1/2'' 3''	13.8	35	16	90	4	

BSPT(PT.RC)英制圆锥管螺纹铣刀

BSPT (PT. RC) British taper pipe
thread milling cutter

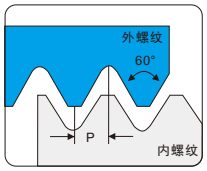
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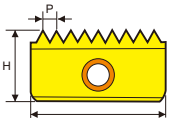


螺距 pitch	型号 model	刃径d1 Blade diameter d1	有效刃长L1 Effective blade length L1	柄径D Shank diameter D	总长L Total length L	刃数 Blade count	Order Number
28	RC1/16 RC1/8	5.24	12	6	60	3	
28	RC1/8	7.24	12	8	60	3	
19	RC1/4	7.13	14	8	60	3	
19	RC1/4 RC3/8	8.88	18	10	75	4	
19	RC3/8	10.75	20	12	75	4	
19	RC3/8	12.75	20	14	90	4	
14	RC1/2 RC3/4 RC7/8	14.48	24	16	90	4	
11	1"	14.13	30	16	90	4	

ISO标准型螺纹刀片

ISOS tandard threaded blade　　产品编码：6061. .





双面使用

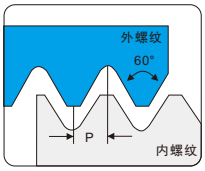
加工螺距 Pitch		尺寸 Dimensions(mm)				
mm		12	14	21	30	40
0.5	外Ext					
0.5	内Int	*12N 0.5 ISO	14 N 0.5 ISO			
0.75	外Ext	*12N 0.75 ISO	14 E 0.75 ISO			
0.75	内Int	*12N 1.0 ISO	14 N 0.75 ISO			
1.0	外Ext	*12N 1.25 ISO	14 E 1.0 ISO	21 E 1.0 ISO		
1.0	内Int	*12N 1.5 ISO	14 N 1.0 ISO	21 N 1.0 ISO		
1.25	外Ext		14 E 1.25 ISO			
1.25	内Int		14 N 1.25 1SO			
1.5	外Ext		14 E 1.5 ISO	21 E 1.5 ISO	30 E 1.5 ISO	40 E 1.5 ISO
1.5	内Int		14 N 1.5 ISO	21 N 1.5 ISO	30 N 1.5 ISO	40 N 1.5 ISO
1.75	外Ext		14 E 1.75 ISO			
1.75	内Int		14 N 1.75 ISO	21 N 1.751SO		
2.0	外Ext		14 E 2.0 ISO	21 E 20 ISO	30 E 2 0 ISO	40 E 2.0 ISO
2.0	内Int		14 N 2.0 ISO	21 N 2.0 ISO	30 N 2.0 ISO	40 N 2.0 ISO
2.5	外Ext		14 E 2.5 ISO	21 E 2.5 ISO		
2.5	内Int		14 N 2.5 ISO	21 N 2.5 ISO		
3.0	外Ext			21 E 3.0 ISO	30 E 3.0 ISO	40 E 3.0 ISO
3.0	内Int			21 N 3.0 ISO	30 N 3.0 ISO	40 N 3.0 ISO
3.5	外Ext				30 E 3.5 ISO	
3.5	内Int			21 N 3.5 ISO	30 N 3.5 ISO	40 N 3.5 ISO
4.0	外Ext				30 E 4.0 ISO	40 E 4.0 ISO
4.0	内Int				30 N 4.0 ISO	40 N 4.0 ISO
4.5	外Ext					
4.5	内Int				30 N 4.5 ISO	40 N 4.5 ISO
5.0	外Ext					40 E 5.0 ISO
5.0	内Int				30 N 5.0 ISO	40 N 5.0 ISO
5.5	外Ext					
5.5	内Int					40 E 5.5 ISO
6.0	外Ext					40 E 6.0 ISO
6.0	内Int					

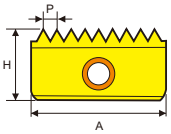
H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

*One cutting edge
Order example: 14 N 1.5 ISO MT7

UN-60°美制统-标准性螺纹刀片

UN,UNC,UNF,UNEF,UNS　　产品编码：6064. .





双面使用

加工螺距 Pitch		尺寸 Dimensions(mm)				
tpi		12	14	21	30	40
32	外Ext		14 E 32 UN			
32	内Int	*12N 32 UN	14 N 32 UN			
28	外Ext		14 E 28 UN			
28	内Int	*12N 28 UN	14 N 28 UN			
27	外Ext					
27	内Int		14 N 27 UN			
24	外Ext		14 E 24 UN	21 E 24 UN		
24	内Int	*12N 24 UN	14 N 24 UN	21 N 24 UN		
20	外Ext		14 E 20 UN	21 E 20 UN	30 E 20 UN	
20	内Int	*12N 20 UN	14 N 20 UN	21 N 20 UN	30 N 20 UN	
18	外Ext		14 E 18 UN	21 E 18 UN	30 E 18 UN	
18	内Int	*12N 18 UN	14 N 18 UN	21 N 18 UN	30 N 18 UN	
16	外Ext		14 E 16 UN	21 E 16 UN	30 E 16 UN	40 E 16 UN
16	内Int	*12N 16 UN	14 N 16 UN	21 N 16 UN	30 N 16 UN	40 N 16 UN
14	外Ext		14 E 14 UN	21 E 14 UN	30 E 14 UN	40 E 14 UN
14	内Int		14 N 14 UN	21 N 14 LIN	30 N 14 UN	40 N 14 UN
12	外Ext		14 E 12 UN	21 E 12 UN	30 E 12 UN	40 E 12 UN
12	内Int		14 N 12 UN	21 N 12 UN	30 N 12 UN	40 N 12 UN
11	外Ext					
11	内Int		14 N 11 UN			
10	外Ext			21 E 10 UN	30 E 10 UN	40 E 10 UN
10	内Int		14 N 10 UN	21 N 10 UN	30 N 10 UN	40 N 10 UN
9	外Ext				30 E 8 UN	40 E 8 UN
8	内Int			21 N 8 UN	30 N 8 UN	40 N 8 UN
7	外Ext					
7	内Int			21 N 7 UN		
6	外Ext				30 E 6 UN	40 E 6 UN
6	内Int				30 N 6 UN	40 N 6 UN
5	外Ext					
5	内Int				30 N 5 UN	
4.5	外Ext					
4.5	内Int					40 N 4.5 UN
4	外Ext					
4	内Int					40 N 4 UN

H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

*One cutting edge
Order example: 21 E 18 UN MT7


12..


14..


21..

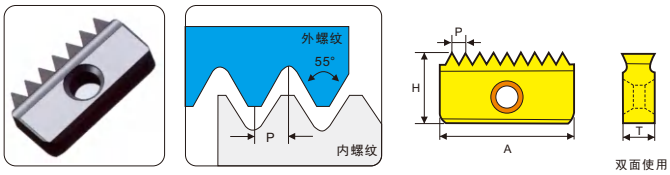

30..


40..

W-55° 英国惠氏螺纹刀

BSW,BSF,BSP

产品编码：6063..



加工螺距 Pitch	尺寸 Dimensions(mm)				
tpi	12	14	21	30	40
24		14-24 W			
20		14-20 W	21 20 W		
19	*12-19 W	14-19 W	21-19 W		
16		14-16 W	21-16 W	30-16 W	
14		14-14 W	21-14 W	30-14 W	
11		14-11 W	21-11 W	30-11 W	40-11 W
8					40-8W

H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

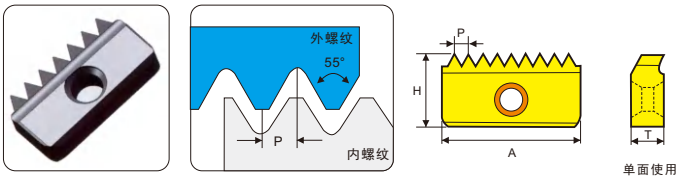
*One cutling edge

Order example: 21-11 W MT7

BSPT-55°英国标准锥管螺纹刀片

BSPT

产品编码：6066. .



加工螺距 Pitch	尺寸 Dimensions(mm)				
tpi	12	14	21	30	40
19	12-19 BSPT	14-19 BSPT			
14		14-14 BSPT	21-14 BSPT		
11			21-11 BSPT	30-11 BSPT	40-11 BSPT

H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

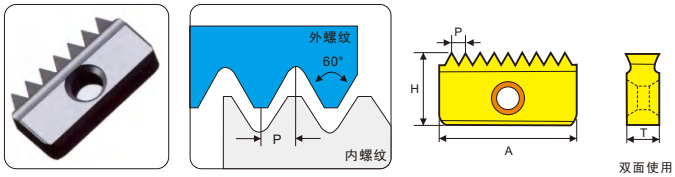
Order example: 14-19 BSPT MT7

For conical preparation end mills see page 121

NPT-60° 美国标准锥锥管螺纹刀片

NPT

产品编码：6068. .



加工螺距 Pitch	尺寸 Dimensions(mm)				
tpi	12	14	21	30	40
18	12-18 NPT	14-18 NPT			
14		14-14 NPT	21-14 NPT		
11.5			21-11.5 NPT	30-11.5 NPT	40-11.5 NPT
8				30- 8 NPT	40-8 NPT

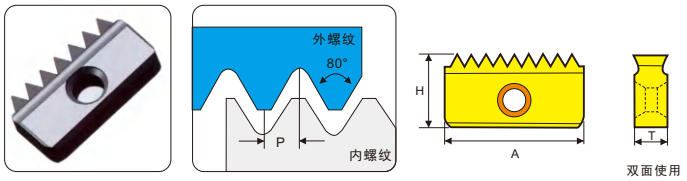
H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

Order example: 30-11.5 NPT MT7

PG 螺纹刀片

PG-DIN 40430

产品编码：6069. .



加工螺距 Pitch	尺寸 Dimensions(mm)		
tpi	14	21	30
18	**14-18 PG** (PG 9 , 11 , 13.5 , 16)	**21-18 PG** (PG 16)	
16		**21-16 PG** (PG 21, 29, 36, 42, 48)	**30-16 PG** (PG 36, 42, 48)

H	7.5	12	16
T	3.1	4.7	5.5

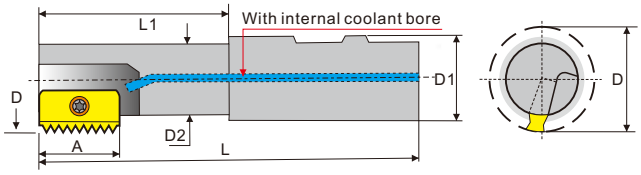
Order example: 21-18 PG Mt7




MACHINE TOOL
MACHINE TOOL
MACHINE TOOL
MACHINE TOOL

单刃螺纹铣刀杆
Single insert toolholders



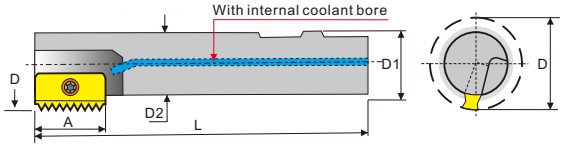


型号	尺寸 Dimensions（mm）						刀片	螺钉	板手	订购编码	价格
Ordering Code	A	D	D1	D2	L	L1	Insert	Insert Screw	Torx Key	Order Number	Price (RMB)
* SR0009H12	12	9.5	20	7.5	85	14	12****	M2.5X7	T8	607100	
SRO010H12	12	9.9	20	7.6	85	16	12****	M2.5X7	T8	607102	
SR0012H14	14	12.0	20	8.9	85	20	14****	M3X8	T8	607104	
SR0014H14	14	14.5	20	11.2	85	25	14****	M3X8	T8	607106	
SR0017H14	14	17.0	20	13.4	85	30	14****	M3X8	T8	607108	
** SR0018H21	21	18.0	20	14.4	85	30	21****	M3.5X8	T15	607110	
SR0021H21	21	21.0	20	16 5	94	40	21****	M3.5X8	T15	607112	
SR0029J30	30	29.0	25	22.4	110	50	30****	M4X10	T15	607114	
SR0048M40	40	48 0	40	35.0	153	78	40****	M5X14	T20	607116	

Order example: SR0029J30
*For conic inserts: 12-18 NPT, 12-18 NPTF, 12-19 BSPT
** Cannot be used with Ihe following inserls:
21 N 3.5 ISO. 21I 8 UN. 21I 7 UN. 21-11 BSPT, 21-11.5 NPT, 21-11.5 NPTF

单刃螺纹铣刀杆(加长型)
Single insert toolholders(long shank)



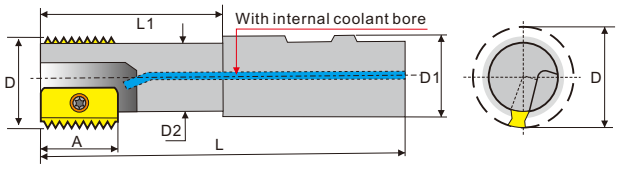


型号	尺寸 Dimensions（mm）				刀片	螺钉	板手	订购编码	价格
Ordering Code	A	D	D1	L	Insert	Insert Screw	Torx Key	Order Number	Price (RMB)
SR0025K21	21	25	20	125	21****	M3.5X8	T15	607200	
SR0031M30	30	31	25	150	30****	M4X10	T15	607202	
SR0038M30	30	38	32	150	30****	M4X10	T15	607204	
SR0048R40	40	48	40	210	40****	M5X14	T20	607206	

Order example: SR0031M30
For holders with long overhang reduce the cutting speed and feed rate between 20% t0 40% (depends on workpiece material. pitch and overhang)

双刃螺纹铣刀杆
Twin insert toolholders



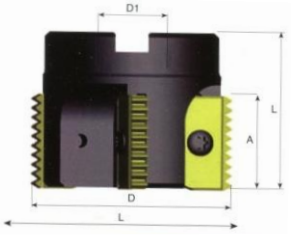


型号	尺寸 Dimensions（mm）						刀片	刃数	螺钉	板手	订购编码	价格
Ordering Code	A	D	D1	D2	L	L1	Insert	No.of Insert	Insert Screw	Torx Key	Order Number	Price (RMB)
SR0020H14-2	14	20	20	16	93	41	14****	2	M3X7	T8	607300	
SR0030J21-2	21	30	25	24	108	52	21****	2	M3.5X8	T15	607302	
SR0040L30-2	30	40	32	30	130	70	30****	2	M4X10	T15	607304	
SR0050M40-2	40	50	40	38	153	78	40****	2	M5X14	T20	607306	

Order example: SR0030J21-2

螺纹铣刀盘（多刃）
Multi Insert Toolholders



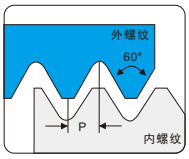


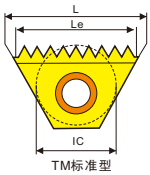
型号	尺寸 Dimensions（mm）				刀片	螺钉	板手	订购编码	价格
Ordering Code	A	D	D1	L	Insert	Insert Screw	Torx Key	Order Number	Price (RMB)
SR0063C21-5	21	63	22	50	21****	M3.5X7	T15	607400	
SR0063C30-4	30	63	22	50	30****	M4X10	T15	607402	
SR0080D30-4	30	80	27	55	30****	M4X10	T15	607404	
SR0100D30 4	30	100	32	60	30****	M4XI0	T15	607406	
SR0080D40-4	40	80	27	65	40****	M5X14	T20	607408	
SR0100E40-4	40	100	32	70	40****	M5X14	T20	607410	

Order example: SR0080D30-4

ISO标准型螺纹铣刀片

ISO Metric Full Profile　　产品编码：6031. .

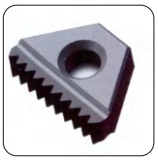
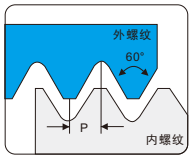

双面使用


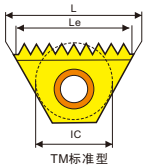
TM标准型

加工螺距 Pitch		尺寸 Dimensions(mm)					
mm		L=10.4mm D=6.0mm	L=11mm D=1/4"	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38.5mm D=3/4"B
0.5	外Ext						
	内Int	TM6.0N0.5 ISO	TM2N0.5 ISO	TM3N0.5 ISO			
0.75	外Ext		TM2E0.75 ISO	TM3E0.75 ISO			
	内Int	TM6.0N0.75 ISO	TM2N0.75 ISO	TM3N0.75 ISO			
1.0	外Ext		TM2E1.0 ISO	TM3E1.0 ISO	TM3BE1.0 ISO	TM5E1.0 ISO	
	内Int	TM6.0N1.0 ISO	TM2N1.0 ISO	TM3N1.0 ISO	TM3BN1.0 ISO	TM5N1.0 ISO	
1.25	外Ext		TM2E1.25 ISO	TM3E1.25 ISO	TM3BE1.25 ISO	TM5E1.25 ISO	
	内Int	TM6.0N1.25 ISO	TM2N1.25 ISO	TM3N1.25 ISO	TM3BN1.25 ISO	TM5N1.25 ISO	
1.5	外Ext		TM2E1.5 ISO	TM3E1.5 ISO	TM3BE1.5 ISO	TM5E1.5 ISO	TM6BE1.5 ISO
	内Int	TM6.0N1.5 ISO	TM2N1.5 ISO	TM3N1.5 ISO	TM3BN1.5 ISO	TM5N1.5 ISO	TM6BN1.5 ISO
1.75	外Ext			TM3E1.75 ISO	TM3BE1.75 ISO	TM5E1.75 ISO	
	内Int			TM3N1.75 ISO	TM3BN1.75 ISO	TM5N1.75 ISO	
2.0	外Ext			TM3E2.0 ISO	TM3BE2.0 ISO	TM5E2.0 ISO	TM6BE2.0 ISO
	内Int			TM3N2.0 ISO	TM3BN2.0 ISO	TM5N2.0 ISO	TM6BN2.0 ISO
2.5	外Ext					TM5E2.5 ISO	TM6EB2.5 ISO
	内Int					TM5N2.5 ISO	TM6BN2.5 ISO
3.0	外Ext					TM5E3.0 ISO	TM6BE3.0 ISO
	内Int					TM5N3.0 ISO	TM6BN3.0 ISO
3.5	外Ext					TM5E3.5 ISO	
	内Int					TM5N3.5 ISO	
4.0	外Ext					TM5E4.0 ISO	TM6BE4.0 ISO
	内Int					TM5N4.0 ISO	TM6BN4.0 ISO
4.5	外Ext					TM5E4.5 ISO	TM6BE4.5 ISO
	内Int					TM5N4.5 ISO	TM6BN4.5 ISO
5.0	外Ext						TM6BE5.0 ISO
	内Int						TM6BN5.0 ISO
5.5	外Ext						TM6BE5.5 ISO
	内Int						TM6BN5.5 ISO
6.0	外Ext						TM6BE6.0 ISO
	内Int						TM6BN6.0 ISO

UN-60° 美制统一标准螺纹铣刀片

UN-60° American UN Full Profile　　产品编码：6035. .

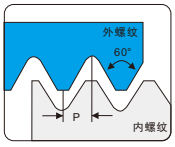

双面使用


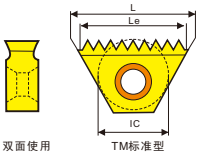
TM标准型

加工螺距 Pitch		尺寸 Dimensions(mm)					
TPI		L=10.4mm D=6.0mm	L=11mm D=1/4"	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38.5mm D=3/4"B
48	外Ext						
	内Int		TM2N48 UN				
40	外Ext						
	内Int		TM2N40 UN	TM3N40 UN			
32	外Ext						
	内Int	TM6.0N32 UN	TM2N32 UN	TM3N32 UN			
28	外Ext		TM2E28 UN	TM3E28 UN			
	内Int	TM6.0N28 UN	TM2N28 UN	TM3N28 UN			
27	外Ext		TM2E27 UN	TM3E27 UN			
	内Int		TM2N27 UN	TM3N27 UN			
26	外Ext			TM3E26 UN			
	内Int			TM3N26 UN			
24	外Ext		TM2E24 UN	TM3E24 UN	TM3BE24 UN	TM5E24 UN	
	内Int	TM6.0N24 UN	TM2N24 UN	TM3N24 UN	TM3BN24 UN	TM5N24 UN	
20	外Ext		TM2E20 UN	TM3E20 UN	TM3BE20UN	TM5E20 UN	
	内Int	TM6.0N20 UN	TM2N20 UN	TM3N20 UN	TM3BN20 UN	TM5N20 UN	
18	外Ext		TM2E18 UN	TM3E18 UN	TM3BE18 UN	TM5E18 UN	
	内Int	TM6.0N18 UN	TM2N18 UN	TM3N18 UN	TM3BN18 UN	TM5N18 UN	
16	外Ext		TM2E16 UN	TM3E16 UN	TM3BE16 UN	TM5E16 UN	
	内Int	TM6.0N16 UN	TM2N16 UN	TM3N16 UN	TM3BN16 UN	TM5N16 UN	
14	外Ext		TM2E14 UN	TM3E14 UN	TM3BE14 UN	TM5E14 UN	
	内Int		TM2N14 UN	TM3N14 UN	TM3BN14 UN	TM5N14 UN	
13	外Ext			TM3E13 UN	TM3BE13 UN	TM5E13 UN	
	内Int			TM3N13 UN	TM3BN13 UN	TM5N13 UN	
12	外Ext			TM3E12 UN	TM3BE12 UN	TM5E12 UN	
	内Int			TM3N12 UN	TM3BN12 UN	TM5N12 UN	
11.5	外Ext			TM3E11.5 UN		TM5E11.5 UN	
	内Int			TM3N11.5 UN		TM5N11.5 UN	
11	外Ext					TM5E11 UN	
	内Int					TM5N11 UN	
10	外Ext					TM5E10 UN	
	内Int					TM5N10 UN	
9	外Ext					TM5E9 UN	
	内Int					TM5N9 UN	
8	外Ext					TM5E8 UN	
	内Int					TM5N8 UN	
7	外Ext					TM5E7 UN	
	内Int					TM5N7 UN	
6	外Ext					TM5E6 UN	TM6BE6 UN
	内Int					TM5N6 UN	TM6BN6 UN
5	外Ext						TM6BE5 UN
	内Int						TM6BN5 UN
4.5	外Ext						TM6BE4.5 UN
	内Int						TM6BN4.5 UN
4	外Ext						TM6BE4 UN
	内Int						TM6BN4 UN

UNJ 美制航空航天机械螺纹铣刀片

UNJ Aviation Thread 产品编码：6041. .

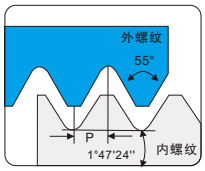



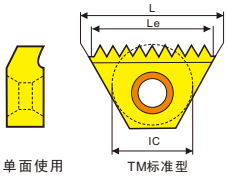


加工螺距 Pitch		尺寸 Dimensions(mm)			
TPI		L=10.4mm D=6.0mm	L=11mm D=1/4"	L=16mm D=3/8"	L=27mm D=5/8"
24	外Ext		TM2E24 UNJ	TM3E24 UNJ	
	内Int	TM6.0N24 UNJ	TM2N24 UNJ	TM3N24 UhU	
20	外Ext		TM2E20 UNJ	TM3E20 UNJ	
	内Int	TM6.0N20 UNJ	TM2N20 UNJ	R13N20 UNJ	
18	外Ext			TM3E18 UNJ	
	内Int	TM6.0N18 UNJ	TM2N18 UNJ	TM3N18 UhU	
16	外Ext		TM2E16 UNJ	TM3E16 UNJ	TM5E16 UNJ
	内Int	TM6.0N18 UNJ	TM2N16 UNJ	TM3N16 UNJ	TM5N16 UNJ
14	外Ext		TM2E14 UNJ	TM3E14 UNJ	
	内Int		TM2N14 UNJ	TM3N14 UNJ	
13	外Ext			TM3E13 UNJ	
	内Int			TM3N13 UNJ	
12	外Ext			TM3E12 UNJ	TM5E12 UNJ
	内Int			TM3N12 UhU	TM5N12 UNJ
11	外Ext			TM3E11 UNJ	TM5E11 UNJ
	内Int			TM3N11 UNJ	TM5N11 UNJ

BSPT 英国标准锥管螺纹铣刀片

BSPT-55° 产品编码：6043. .

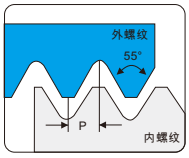



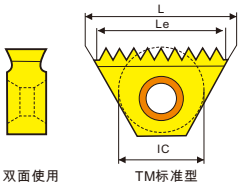


加工螺距 Pitch	尺寸 Dimensions(mm)		
TPI	L=11mm D=1/4"	L=16mm D=3/8"	L=27mm D=5/8"
19	TM2-19 BSPT		
14		TM3-14 BSPT	
11		TM3-11 BSPT	TM5-11 BSPT

W-55° 英制惠氏螺纹铣刀片

W-55° Whitworth Full Proile 产品编码：6033. .

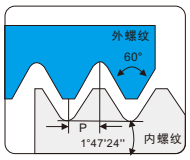



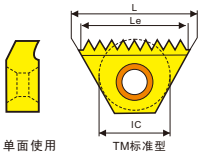


加工螺距 Pitch		尺寸 Dimensions(mm)					
mm		L=10.4mm D=6.0mm	L=11mm D=1/4"	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38.5mm D=3/4"B
28	外Ext	TM6.0E28 W	TM2E28 W				
	内Int	TM6.0N28 W	TN2N28 W				
26	外Ext	TM6.0E26 W	TM2E26 W	TM3E26 W			
	内Int	TM6.0N26 W	TN2N26 W	TM3N26 W			
24	外Ext	TM6.0E24 W	TM2E24 W	TM3E24 W	TM3BE24 W		
	内Int	TM6.0N24 W	TM2N24 W	TM3N24 W	TM3BN24 W		
20	外Ext	TM6.0E20 W	TM2E20 W	TM3E20 W	TM3BE20 W		
	内Int	TM6.0N20 W	TM2N20 W	TN3N20 W	TM3BN20 W		
19	外Ext	TM6.0E19 W	TM2E19 W	TM3E19 W	TM3BE19 W		
	内Int	TM6.0N19 W	TM2N19 W	TM3N19 W	TM3BN19 W		
18	外Ext			TM3E18 W	TM3BE18 W		
	内Int			TM3N18 W	TM3BN18 W		
16	外Ext			TM3E16 W	TM3BE16 W	TM5E16 W	
	内Int			TM3N16 W	TM3BN16 W	TM5N16 W	
14	外Ext		TM2E14 W	TM3E14 W	TM3BE14 W	TM5E14 W	
	内Int		TM2N14 W	TM3N14 W	TM3BN14 W	TM5N14 W	
12	外Ext			TM3E12 W	TM3BE12 W	TM5E12 W	
	内Int			TM3N12 W	TM3BN12 W	TM5N12 W	
11	外Ext			TM3E11 W	TM3BE11 W	TM5E11 W	6BE11 W
	内Int			TM3N11 W	TM3BN11 W	TM5N11 W	6BN11 W
10	外Ext					TM5E10 W	
	内Int					TM5N10 W	
9	外Ext					TM5E9 W	
	内Int					TM5N9 W	
8	外Ext					TM5E8 W	
	内Int					TM5N8 W	
7	外Ext					TM5E7 W	
	内Int					TM5N7 W	
6	外Ext					TM5E6 W	TM6BE6 W
	内Int					TM5N6 W	TM6BN6 W
5	外Ext						TM6BE5 W
	内Int						TM6BN5 W
4.5	外Ext						TM6BE4.5 W
	内Int						TM6BN4.5 W

NPT 美国标准锥管螺纹铣刀片

NPT-60°National Pipe Threads 产品编码：6037. .

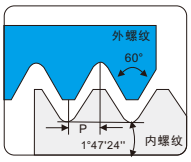



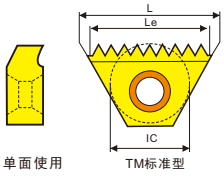


加工螺距 Pitch	尺寸 Dimensions(mm)			
TPI	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38.5mm D=3/4"B
18	TM3E18 NPT			
14	TM3-14 NPT	TM3B-14 NPT		
11.5	TM3-11.5 NPT	TM3B-11.5 NPT	TM5-11.5 NPTF	TM6B-11.5 NPT
8			TM5-8 NPTF	TM6B-8 NPT

NPTF美制干密封螺纹铣刀片

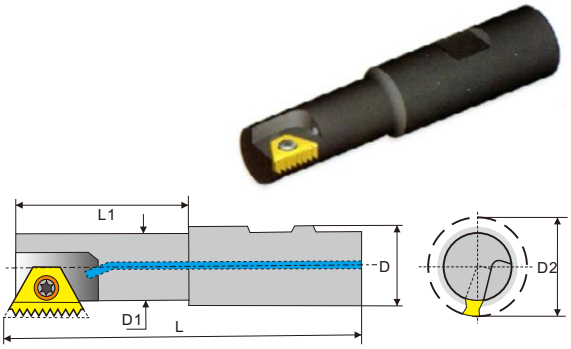
NPTF(Dry seal) 产品编码：6039. .



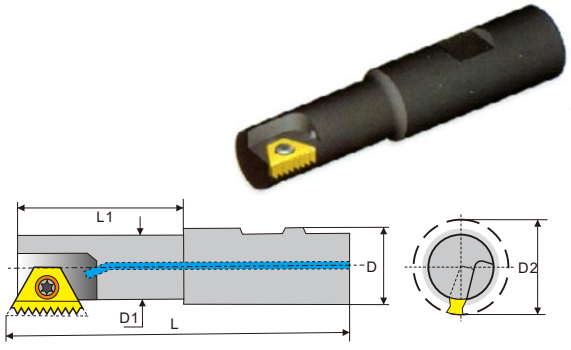
加工螺距 Pitch	尺寸 Dimensions(mm)			
TPI	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38.5mm D=3/4"B
14	TM3-14 NPTF	TM3B-14 NPTF		
11.5	TM3-11.5 NPTF	TM3B-11.5 NPTF	TM5-11.5 NPTF	TM6B-11.5 NPTF
8			TM5-8 NPTF	TM6B-8 NPTF

螺纹铣刀杆 Threading Milling Tool Holders



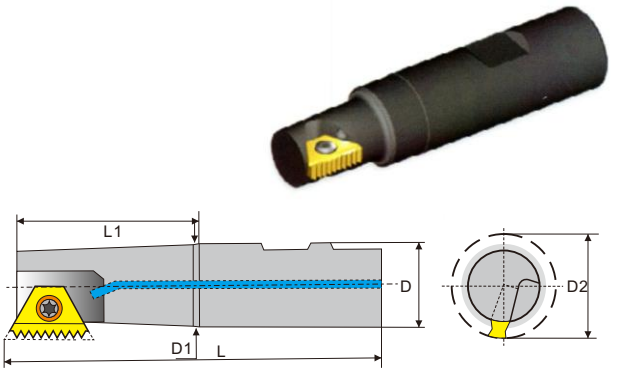
型号	尺寸 Dimensions（mm）					适用刀片	刀片螺钉	板手	订购编码	价格
Ordering Code	L	L1	D	D1	D2	Insert	Insert Screw	Wrench	Order Number	Price (RMB)
STM6.0-C20 124/003	85	15	20	6.7	9	6.0****	M2 2X5	T7	605100	
STM2-C20 124/005	77	15.5	20	7.4	10	6.0****	M2.2X5	T7	605102	
STM2-C20 124/006	77	15 5	20	9	12	2****	M3X7	T8	605104	
STM2-C20 124/009	77	15.5	20	7.4	10	2****	M3X7	T8	605106	
STM3-C16 124/001	91	20 5	16	12.2	15.5	3****	M3.5X8	T15	605108	
STM4-C25 124/002	88	30	25	13.4	18	3****	M3.5X8	T15	605110	
STM4-C25 124/007	98	40	25	16	20	3B****	M3.5X8	T15	605112	
STM5-C25 124/004	98	40	25	19	25	3B****	M3.5X8	T15	605114	
STM5-C25 124/008	98	40	25	16.4	22	3B****	M3.5X8	T15	605116	

螺纹铣刀杆 Threading Milling Tool Holders



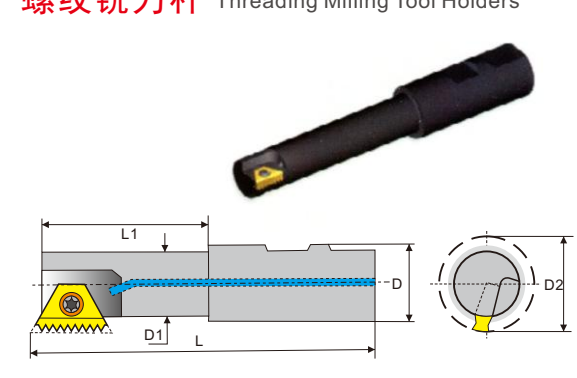
型号	尺寸 Dimensions (mm)					适用刀片	刀片螺钉	板手	订购编码	价格
Ordering Code	L	L1	D	D1	D2	Insert	Insert Screw	Torx Key	Order Number	Price (RMB)
STM6 0-C12	69	12	12	6.8	9	6.0****	M2.2X5	T7	605300	
STM6.0-C20	84	17	20	6.8	9	6.0****	M2.2X5	T7	605302	
STM2-C12	70	12	12	8.9	11.5	2****	M3X7	T9	605304	
STM2-C20	85	20	20	8.9	11.5	2****	M3X7	T8	605306	
STM3-C16	90	22	16	13.6	17	3****	M3.5X8	T15	605308	
STM3-C20	95	43	20	16.6	20	3****	M3.5X8	T15	605310	
SBTM3B-C16	79 5	29	16	13.5	17	3B****	M3.5X8	T15	605312	
SBTM3B-C20	81.5	29	20	15.5	19	3B****	M3.5X8	T15	605314	
SBTM3B-C25	92 3	30	25	15.5	19	3B****	M3.5X8	T15	605316	
SBTMW3B-C25	90.8	30	25	18.5	22	3B****	M3.5X8	T15	605318	
STM5-C25	110	52	25	24	30	5****	M5X14	T20	605320	
STM5-C25LH	110	52	25	24	30	5****	M5X14	T20	605322	
STM5-C32	120	58	32	31	37	5****	M5X14	T20	605324	
STM6B-C32	115	53	32	27	35	6B****	M7X15	T25	605326	
STM6B-C40	135	63	40	38	46	6B****	M7X15	T25	605328	

螺纹铣刀杆 Threading Milling Tool Holders



右刀杆	左刀杆	尺寸 Dimensions（mm）					适用刀片	刀片螺钉	板手	订购编码	单价
Right Hand	Left Hand	L	L1	D	D1	D2	Insert	Insert Screw	Torx Key	Order Number	Price (RMB)
STMN3-C16	STMN3-C16 LH	125	17	25	8.9	11.5	2****	M3X7	T8	605200	
STMN3-C20	STMN3-C20 LH	125	25	25	18.6	22	3****	M3.5X8	T15	605202	
SBTMN3N-C16	SBTMN3N-C16 LH	125	63.5	25	18.6	22	3****	M3.5X8	T15	605204	
SBTMN3B-C20	SBTMN3B-C20 LH	96.5	44	20	15.5	19	3B****	M3.5X8	T15	605206	
SBTMN5-C32	SBTMN5-C32 LH	125	63.5	25	18.6	22	3B****	M3.5X8	T15	605208	

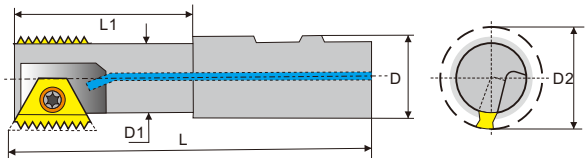
螺纹铣刀杆 Threading Milling Tool Holders



型号	尺寸 Dimensions（mm）					适用刀片	刀片螺钉	板手	订购编码	价格
Ordering Code	L	L1	D	D1	D2	Insert	Insert Screw	Torx Key	Order Number	Price (RMB)
STML2-C25	125	17	25	8.9	11.5	2****	M3X7	T8	605400	
STML3-C25	125	25	25	18.6	22	3****	M3.5X8	T15	605402	
SBTML3-C25	125	63.5	25	18.6	22	3****	M3.5X8	T15	605404	
SBTML3B-C20	96.5	44	20	15.5	19	3B****	M3.5X8	T15	605406	
SBTML3B-C25	125	63.5	25	18.6	22	3B****	M3.5X15	T15	605408	
STML5-C25	150	92	25	24	30	5****	M5X14	T20	605410	
STML5-C32	160	98	32	31	37	5****	M5X14	T20	605412	
STML6B-C40	165	93	40	38	46	6B****	M7X15	T25	605414	

螺纹铣刀杆 Threading Milling Tool Holders

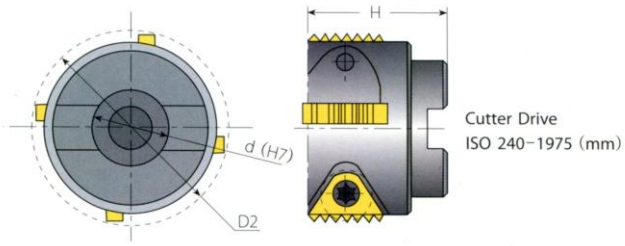




型号	尺寸Dimensions（mm）					适用刀片	刀片螺钉	板手	订购编码	价格
Ordering Code	L	L1	D	D1	D2	Insert	Insert Screw	Torx Key	Order Number	Price (RMB)
2STM2-C20	85	20	20	14.4	17	6.0****	M2.2X5	T7	605500	
2STM3-C25	100	43	25	22.5	26	6.0****	M2.2X5	T7	605502	
2SBTM3B-C25	104.2	46	25	22.5	26	2****	M3X7	T8	605504	
2STM5-C32	120	45	32	36	42	2****	M3X7	T8	605506	
2STM6B-C40	137.2	65	40	44	52	3****	M3.5X8	T15	605508	

螺纹铣刀杆 Threading Milling Tool Holders

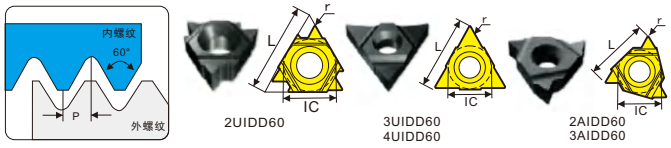




型号	刀片数量	尺寸 Dimensions（mm）			适用刀片	刀片螺钉	板手	订购编码	单价
Ordering Code	No.of insert	D2	d(H7)	H	Insert	Insert Screw	Torx Key	Order Number	Price (RMB)
SHTM2-D38-16	6	38	16	40	2****	M3X7	T8	605600	
SHTM2-D50-22	8	50	22	40	2****	M3X7	T8	605602	
SHTM3-D50-22	6	50	22	40	3****	M3.5X8	T15	605604	
SHTM3B-D63-22	6	63	22	40	3B****	M3.5X8	T15	605606	
SHTM5-D63-22	4	63	22	45	5****	M5X14	T20	605608	
SHTM6B-D63-22	4	63	22	50	6B****	M7X15	T25	605610	
SHTM5-D80-27	6	80	27	50	5****	M5X14	T20	605612	
SHTM6B-D80-27	5	80	27	50	6B****	M7X15	T25	605614	
SHTM5-D100-32	7	100	32	55	5****	M5X14	T20	605616	
SHTM6B-D100-32	6	100	32	55	6B****	M7X15	T25	605618	
SHTM5-D125-40	9	125	40	63	5****	M5X14	T20	605620	
SHTM6B-D125-40	8	125	40	63	6B****	M7X15	T25	605622	

60° 深孔加工螺纹铣刀片

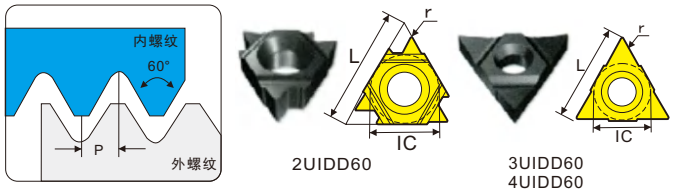
Thread Mill for Deep Holes　　产品编码：6081. .



型号	材质 Material Code			加工螺距范围		尺寸 Dimensions (mm)			刀杆
Ordering Code	ZK 01	ZP 15	ZM 856	mm	tpi	IC	L	r	toolholder
2UIDA60 TM***	○	○	○	0 5-1.5	48-16	1/4"	11		SMT.SC***2U
2UIDB60 TM***	○	○	○	1.5-2.0	16-12				SMT.SC*2U
2UIDD60 TM***	○	○	○	2.0-2.5	9-12				SMT2SC 14C17-65-2U
2UIDM60 TM***	○	○	○	2.5	10				
2UIDC60 TM***	○	○	●	2.5-4.0	10-6				SMT.SC***2U CTM.SC***2U
3UIDB60 TM***	○	○	○	1.5-2.0	16-12	3/8"	16		SMT.SC***3U
3UIDE60 TM***	○	○	○	2.5-3.5	10-7				
3UIDH60 TM***	○	○	○	4.0-6.0	6-4				
4UIDX60 TM***	○	○	○	6.0-8.0	4-3	1/2"	22		SMT.SC D***4U
2AIDP60 TW***	○	○	●	1.5-3.0	16-8	1/4'	11		SMT.SC***2A
3AIDT60 TM***	○	○	○	2.0-4.0	12-6	3/8 "	16		SMT.SC***3A

60° 深孔加工螺纹铣刀片

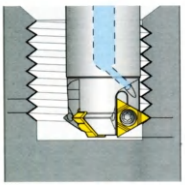
Thread Mill for Deep Holes　　产品编码：6083. .



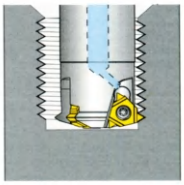
型号	材质 Material Code			加工螺距范围		尺寸Dimensions(mm)			刀杆
Ordering Code	ZK 01	ZP 15	ZM 856	mm	tpi	IC	L	r	toolholder
2UIDA60 TM***	○	○	○	0 5-1.5	48-16	1/4"	11		SMT.SC***2U
2UIDB60 TM***	○	○	○	1.5-2.0	16-12				SMT.SC*2U
2UIDD60 TM***	○	○	○	2.0-2.5	9-12				SMT2SC 14C17-65-2U
2UIDM60 TM***	○	○	○	2.5	10				
2UIDC60 TM***	○	○	●	2.5-4.0	10-6				SMT.SC***2U CTM.SC***2U
3UIDB60 TM***	○	○	○	1.5-2.0	16-12	3/8"	16		SMT.SC***3U
3UIDE60 TM***	○	○	○	2.5-3.5	10-7				
3UIDH60 TM***	○	○	○	4.0-6.0	6-4				
4UIDX60 TM***	○	○	○	6.0-8.0	4-3	1/2"	22		SMT.SC D***4U
2AIDP60 TW***	○	○	●	1.5-3.0	16-8	1/4'	11		SMT.SC***2A
3AIDT60 TM***	○	○	○	2.0-4.0	12-6	3/8 "	16		SMT.SC***3A

深孔加工螺纹铣刀具（U型）

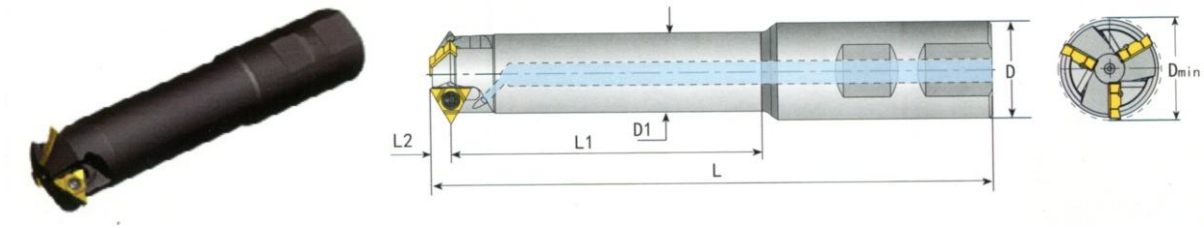
Thread Milling holder For Deep Holes



U型适用于大螺距
Forlarge pitches



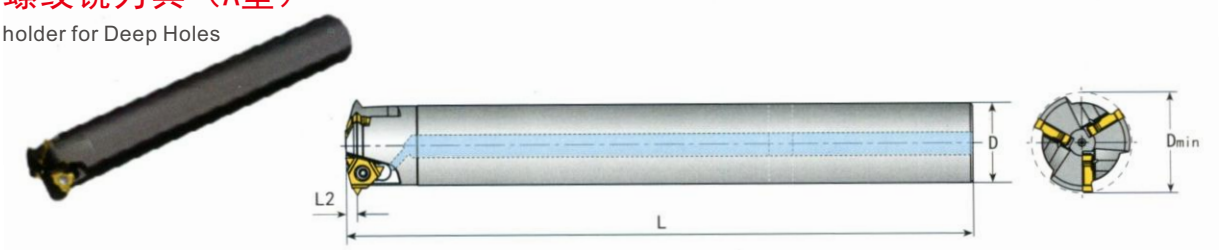
A型适用于小螺距以及退刀槽较短的情况
For short pitches



型号	尺寸 Dimensions（mm）						刃数	适用刀片	螺钉	板手	产品编码	价格
Ordering Code	L	L1	L2	D	D1	Dmin	No. of Insert	Insert	Insert Screw	Torx Key	Order NUmber	（RMB） Price
SMT1SC 16W15-40-2U	95	40	5.4	16	11	14.75*	1	2UID***	M2.5X6	T8	609100	
SMT2SC 25W21-60-2U	123	60		25	16	20.65*	2				609102	
SMT2SC 25W23-70-2U	135	70		25	17.7	23	2				609104	
SMT3SC 25W26-80-2U	147	80		25	20.4	26	3				609106	
SMT4SC 32W31-95-2U	164	95		32	25.7	31	4				609108	
SMT3SC 32W36-95-3U	166	95	8.0	32	29	36.5	3	3UID***	M3.5X10	T15	609110	
SMT4SC 40W42-120-3U	201	120		40	34.2	42	4				609112	

深孔加工螺纹铣刀具（A型）

Thread Milling holder for Deep Holes

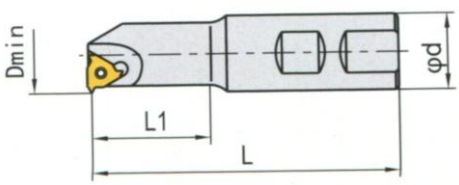


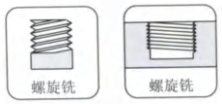
型号	尺寸 Dimensions（mm）				刃数	适用刀片	刀片螺钉	板手	产品编码	价格
Ordering Code	L	L2	D	Dmin	No. of Insert	Insert	Insert Screw	Torx Key	Order NUmber	（RMB） Price
SMT3SC 20C26-105-2A	105	3.0	20	26	3	2UID***	M2.5X6	T8	609200	
SMT3SC 28C35-144-3A	144	4.0	28	35	3	3UID***	M3.5X8	T15	609202	

单刃螺纹铣刀
Indexable Threading Mills









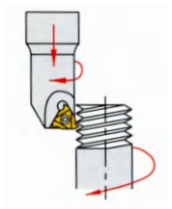
型号	尺寸 Dimensions (mm)				刀片	刀片螺钉	板手	产品编码	价格
Ordering Code	Dmin	φd	L1	L	Insert	Insert Screw	Torx Key	Order NUmber	(RMB) Price
SMT10-10F08	10	10	25	80	08IR..	M2.2X5	T6		
SMT12-12F11	12	12	25	80	11IR..	M2.5X6	T8		
SMT14-14K11	14	14	40	125	11IR..	M2.5X6	T8		
SMT16-16K16	16	16	40	125	16IR..	M3.5X8	T15		
SMT16-20K16	16	20	40	125	16IR..	M3.5X8	T15		
SMT18-18K16	18	18	40	125	16IR..	M3.5X8	T15		
SMT18-20K16	18	20	40	125	16IR..	M3.5X8	T15		
SMT20-20K16	20	20	40	125	16IR..	M3.5X8	T15		
SMT25-25M16	25	25	65	150	16IR..	M3.5X8	T15		
SMT25-25M22	25	25	65	150	22IR..	M4.5X12	T20		
SMT32-32R16	32	32	110	200	16IR..	M3.5X8	T15		
SMT32-32R22	32	32	110	200	22IR..	M4.5X12	T20		
SMT35-32S16	35	32	110	250	16IR..	M3.5X8	T15		
SMT35-32S22	35	32	110	250	22IR..	M4.5X12	T20		

● 订货示例：1件 SMT18-20KIF1
Ordering exampie: 1pc, SMT18-20Kie

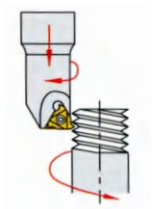
刀片使用：加工外螺纹：16NR**
加工内螺纹：16NT**

Insert information: Extemalthreading inserts: 16NR **
Intemal tnreading inserts: 16NR **

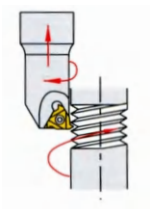
外螺纹铣削方法 External thread milling method



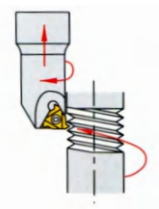
右旋螺纹 -R Right Hand-R
顺时针进给，顺铣CW.Feed and Milling
刀片Insert:16NR****



左旋螺纹 -L Left Hand-L
逆时针进给，逆铣CCW.Feed and Milling
刀片Insert:16NR****

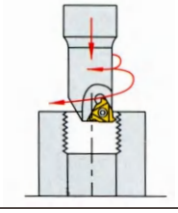


右旋螺纹 -R Right Hand-R
顺时针进给，逆铣 CW.Feed and CCW Milling
刀片Insert:16NR****

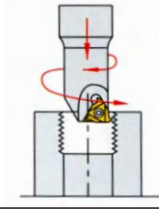


左旋螺纹 -L Left Hand-L
逆时针进给，顺铣 CW.Feed and CW Milling
刀片Insert:16NR****

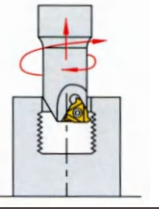
内螺纹铣削方法 Internal thread milling method



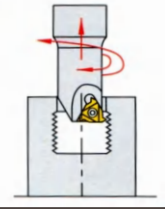
右旋螺纹 -R Right Hand-R
顺时针进给，顺铣CW.Feed and Milling
刀片Insert:16NR****



左旋螺纹 -L Left Hand-L
逆时针进给，逆铣CCW.Feed and Milling
刀片Insert:16NR****



右旋螺纹 -R Right Hand-R
顺时针进给，逆铣 CW.Feed and CCW Milling
刀片Insert:16NR****



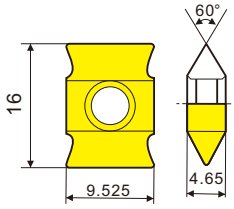
左旋螺纹 -L Left Hand-L
逆时针进给，顺铣 CW.Feed and CW Milling
刀片Insert:16NR****

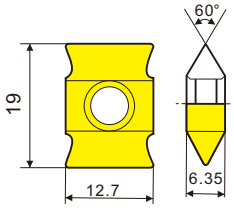
旋风铣螺纹刀片

Partial Profile Thread Milling Inserts

产品编码：6085. .







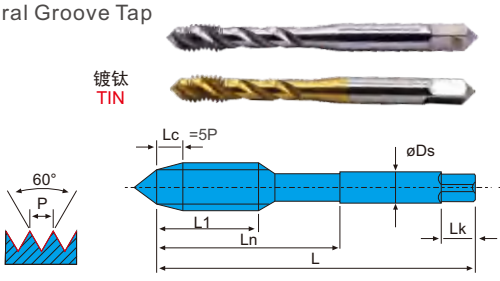
名称	刀片型号	材质 Material Code		
Name	Designation	ZK 110	ZP 153	ZP 15
60°通用螺纹刀片 Partial Profile 60°	SV1906		○	●
60°通用螺纹刀片 Partial Profile 60°	SV1604		○	●

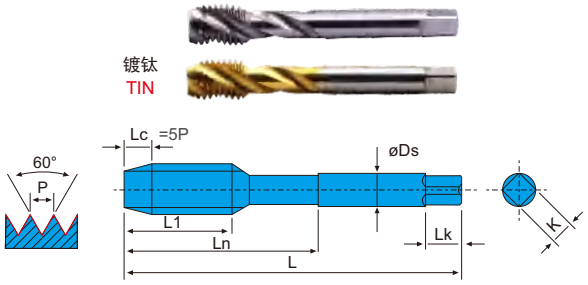
● 常备库存（主推） Stock standard(main) ○ 一般库存 Stock standard

订货示例：SV1604 ZP5 10片 Ordering example:SV1604 ZP15 10pcs

JIS-SP螺旋槽丝锥

Spiral Groove Tap





向上排屑适合盲孔加工，钢，不锈钢，铸铁通用。

Upward chip removal is suitable for blind hole processing, steel, stainless steel and cast iron.

单位(Unit)：mm

丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	颈长 Ln	柄径 øDs	四方 K	方长 Lk
M1.0×	0.25	P1	0.75	36	4.0	-	3	2.5	5
	0.2	P1	0.8	36	4.0	-	3	2.5	5
M1.1×	0.25	P1	0.85	36	4.5	-	3	2.5	5
	0.2	P1	0.9	36	4.5	-	3	2.5	5
M1.2×	0.25	P1	0.95	36	5.5	-	3	2.5	5
	0.2	P1	1.0	36	4.5	-	3	2.5	5
M1.4×	0.3	P1	1.1	36	6.0	-	3	2.5	5
	0.2	P1	1.2	36	4.5	-	3	2.5	5
M1.6×	0.35	P1	1.25	36	6.0	-	3	2.5	5
	0.2	P1	1.4	36	4.5	-	3	2.5	5
M1.7×	0.35	P1	1.35	36	7.0	-	3	2.5	5
	0.2	P1	1.5	36	4.5	-	3	2.5	5
M1.8×	0.35	P1	1.45	42	10	-	3	2.5	5
	0.2	P1	1.6	42	4.5	-	3	2.5	5
M2.0×	0.4	P1	1.6	42	9	12	3	2.5	5
	0.25	P1	1.75	42	8	12	3	2.5	5
M2.2×	0.45	P1	1.75	42	11	12	3	2.5	5
	0.25	P1	1.95	42	8	12	3	2.5	5
M2.3×	0.4	P1	1.9	42	12	12	3	2.5	5
	0.25	P1	2.05	42	8	12	3	2.5	5
M2.5×	0.45	P1	2.05	46	10	14	3	2.5	5
	0.35	P1	2.15	46	10	14	3	2.5	5
M2.6×	0.45	P1	2.15	46	10	14	3	2.5	5
	0.35	P1	2.25	46	10	14	3	2.5	5
M3.0×	0.5	P1	2.5	46	10.5	14	4	3.2	6
	0.35	P1	2.65	46	12	14	4	3.2	6
M3.5×	0.6	P1	2.9	52	13	16	5	4.0	7
	0.35	P1	3.15	52	10	16	5	4.0	7
M4.0×	0.7	P2	3.3	52	14	19	5	4	7
	0.5	P1	3.5	55	14	19	5	4	7
M4.5×	0.75	P2	3.8	55	16	24	5.5	4.5	7
	0.5	P1	4.0	55	12	19	5.5	4.5	7
M5.0×	0.8	P2	4.2	62	16	24	5.5	4.5	7
	0.5	P1	4.5	62	16	25	5.5	4.5	7
M5.5×	0.5	P1	5.0	63	18	24	6	4.5	7
M6.0×	1.0	P2	5.0	67	18	30	6	4.5	7
	0.75	P2	5.3	67	18	30	6	4.5	7
	0.5	P1	5.5	68	20	28	6	4.5	7

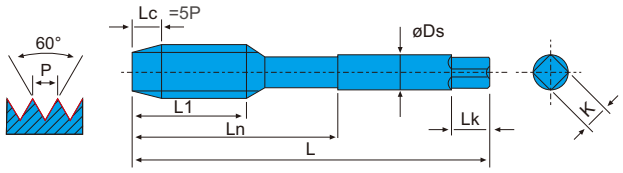
螺纹底孔(Threaded Bottom Hole)：L51

丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M7.0×	1.0	P2	6.0	70	23	6.2	5	8
	0.75	P2	6.3	70	22	6.2	5	8
	0.5	P2	6.4	70	13	6.2	5	8
M8.0×	1.25	P2	6.8	70	22	6.2	5	8
	1.0	P2	7.0	70	22	6.2	5	8
	0.75	P2	7.3	70	22	6.2	5	8
	0.5	P2	7.5	70	13	6.2	5	8
M9.0×	1.25	P2	7.8	75	25	7	5.5	8
	1.0	P2	8.0	75	25	7	5.5	8
	0.75	P2	8.3	75	25	7	5.5	8
M10×	1.5	P2	8.5	75	25	7	5.5	8
	1.25	P2	8.8	75	25	7	5.5	8
	1.0	P2	9.0	75	25	7	5.5	8
	0.75	P2	9.3	75	25	7	5.5	8
	0.5	P2	9.5	75	15	7	5.5	8
M11×	1.5	P2	9.6	82	29	8.5	6.5	9
	1.0	P2	10.0	82	29	8.5	6.5	9
	0.75	P2	10.2	82	29	8.5	6.5	9
M12×	1.75	P2	10.2	82	29	8.5	6.5	9
	1.5	P2	10.5	82	29	8.5	6.5	9
	1.25	P2	10.8	82	29	8.5	6.5	9
	1.0	P2	11.0	82	29	8.5	6.5	9
	0.75	P2	11.3	82	29	8.5	6.5	9
	0.5	P2	11.5	82	12	8.5	6.5	9
M13×	1.75	P2	11.2	88	26	10.5	8	11
	1.0	P2	12.0	88	26	10.5	8	11
M14×	2.0	P2	12.0	88	30	10.5	8	11
	1.5	P2	12.5	88	30	10.5	8	11
	1.25	P2	12.8	88	30	10.5	8	11
	1.0	P2	13.0	88	30	10.5	8	11
M15×	2.0	P2	13.0	95	33	12.5	10	13
	1.5	P2	13.5	95	33	12.5	10	13
	1.0	P2	14.0	95	33	12.5	10	13
M16×	2.0	P2	14.0	95	32	12.5	10	13
	1.5	P2	14.5	95	32	12.5	10	13
	1.0	P2	15.0	95	32	12.5	10	13
M17×	1.5	P2	15.5	100	33	14	11	14
	1.0	P2	16.0	100	33	14	11	14
M18×	2.5	P3	15.5	100	37	14	11	14
	2.0	P3	16.0	100	37	14	11	14
	1.5	P2	16.5	100	37	14	11	14
	1.0	P2	17.0	100	18	14	11	14
M19×	2.5	P3	16.5	105	37	15	12	15
	1.5	P3	17.5	105	37	15	12	15
	1.0	P2	18.0	105	18	15	12	15
M20×	2.5	P3	17.5	105	37	15	12	15
	2.0	P3	18.0	105	37	15	12	15
	1.5	P3	18.5	105	37	15	12	15
	1.0	P2	19.0	105	18	15	12	15
M22×	2.5	P3	19.5	115	38	17	13	16
	2.0	P3	20.0	115	38	17	13	16
	1.5	P3	20.5	115	38	17	13	16
	1.0	P2	21.0	115	19	17	13	16

JIS-SP螺旋槽丝锥
Spiral Groove Tap



镀钛
TIN



螺纹底孔(Threaded Bottom Hole):L51

向上排屑适合盲孔加工，钢，不锈钢，铸铁通用。
Upward chip removal is suitable for blind hole processing, steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M23× 2.5	P3	20.5	120	39	19	15	18
2.0	P3	21.0	120	39	19	15	18
M24× 3.0	P3	21.0	120	39	19	15	18
2.0	P3	22.0	120	39	19	15	18
1.5	P3	22.5	120	39	19	15	18
1.0	P2	23.0	120	19	19	15	18
M25× 3.0	P3	22.0	125	39	19	15	18
2.0	P3	23.0	125	39	19	15	18
1.5	P3	23.5	125	39	19	15	18
1.0	P2	24.0	125	20	19	15	18
M26× 3.0	P3	23.0	130	39	20	15	18
1.5	P3	24.5	130	39	20	15	18
M27× 3.0	P3	24.0	130	39	20	15	18
2.0	P3	25.0	130	39	20	15	18
1.5	P3	25.5	130	39	20	15	18
1.0	P2	26.0	130	20	20	15	18
M28× 3.0	P3	25.0	135	46	23	17	20
2.0	P3	26.0	135	46	23	17	20
1.5	P3	26.5	135	46	23	17	20
1.0	P2	27.0	135	20	23	17	20
M30× 3.5	P4	26.5	135	46	23	17	20
3.0	P3	27.0	135	46	23	17	20
2.0	P3	28.0	135	46	23	17	20
1.5	P3	28.5	135	46	23	17	20
1.0	P2	29.0	135	21	23	17	20
M32× 2.0	P3	30.0	145	46	24	19	22
1.5	P3	30.5	145	46	24	19	22
1.0	P2	31.0	145	21	24	19	22

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M33× 3.5	P4	29.5	145	46	25	19	22
3.0	P3	30.0	145	46	25	19	22
2.0	P3	31.0	145	46	25	19	22
1.5	P3	31.5	145	21	25	19	22
M35× 1.5	P3	33.5	155	52	28	21	24
M36× 4.0	P4	32.0	155	52	28	21	24
3.0	P3	33.0	155	52	28	21	24
2.0	P3	34.0	155	52	28	21	24
1.5	P3	34.5	155	26	28	21	24
M38× 1.5	P3	36.5	165	26	30	23	26
M39× 4.0	P4	35.0	165	52	30	23	26
3.0	P3	36.0	165	52	30	23	26
2.0	P3	37.0	165	52	30	23	26
1.5	P3	37.5	165	26	30	23	26
M40× 3.0	P3	37.0	175	59	32	26	30
2.0	P3	38.0	175	59	32	26	30
1.5	P3	38.5	175	27	32	26	30
M42× 4.5	P4	37.5	175	59	32	26	30
4.0	P4	38.0	175	59	32	26	30
3.0	P3	39.0	175	59	32	26	30
2.0	P3	40.0	175	59	32	26	30
1.5	P3	40.5	175	27	32	26	30
M45× 4.5	P4	40.5	180	59	35	26	30
4.0	P4	41.0	180	59	35	26	30
3.0	P3	42.0	180	59	35	26	30
2.0	P3	43.0	180	59	35	26	30
1.5	P3	43.5	180	27	35	26	30
M48× 5.0	P4	43.0	185	65	38	29	32

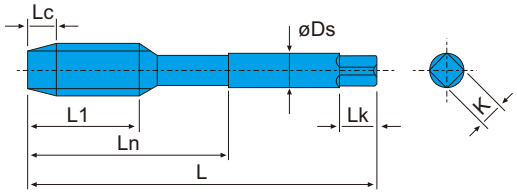
JIS 螺旋槽丝锥-短刃
Spiral Groove Tap - Short Cutting Edge

短刃
S Type



短刃镀钛
S-TIN
Type





螺纹底孔(Threaded Bottom Hole):L51

向上排屑适合盲孔加工，钢，不锈钢，铸铁通用。
Upward chip removal is suitable for blind hole processing, steel, stainless steel and cast iron.

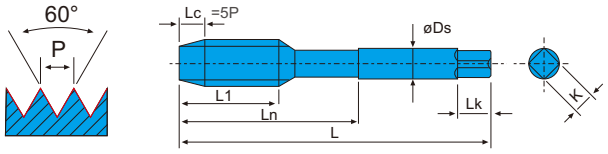
单位(Unit):mm

型号 Type	导向牙 Lc	全长 L	螺纹长 L1	颈长 Ln	钻头 Drill	柄径 øDs	四方 K	四方长 Lk	产品编码 Order NUmber
M2.0× 0.4	2.5P	40	3.2	10	1.6	3	2.5	5.0	
M2.2× 0.45	2.5P	42	3.6	11	1.75	3	2.5	5.0	
M2.5× 0.45	2.5P	44	3.6	13	2.05	3	2.5	5.0	
M2.6× 0.45	2.5P	44	3.6	13	2.15	3	2.5	5.0	
M3.0× 0.5	2.5P	46	4.0	19	2.5	4	3.2	6.0	
M3.5× 0.6	2.5P	48	4.8	20	2.9	4	3.2	6.0	
M4.0× 0.7	2.5P	52	5.6	21	3.3	5	4.0	7.0	
M4.5× 0.75	2.5P	55	6.0	21	3.8	5	4.0	7.0	
M5.0× 0.8	2.5P	60	6.4	24	4.2	5.5	4.5	7.0	
M6.0× 1.0	2.5P	62	8.0	29	5.0	6	4.5	7.0	
M8.0× 1.25	2.5P	70	15	37	6.8	6.2	5.0	8.0	
M10× 1.5	2.5P	75	18	41	8.5	7	5.5	8.0	
M12× 1.75	2.5P	82	21	48	10.3	8.5	6.5	9.0	
M14× 2.0	2.5P	88	24	48	12.0	10.5	8.0	11	
M16× 2.0	2.5P	95	24	52	14	12.5	10	13	
M18× 2.5	2.5P	100	30	55	15.5	14.0	11	14	
M20× 2.5	2.5P	105	30	58	17.5	15.0	12	15	

螺旋槽丝锥 Spiral Groove Tap

美制螺纹 (UNC/UNF)
JIS-SP





螺纹底孔(Threaded Bottom Hole):L53

向上排屑适合盲孔加工，钢，不锈钢，铸铁通用。
Upward chip removal is suitable for blind hole processing, steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
0	-80UNF	P1	1.25	38	10.5	3	2.5	5
1	-64UNC	P1	1.55	38	9.5	3	2.5	5
	-72UNF	P1	1.55	38	10.5	3	2.5	5
2	-56UNC	P1	1.8	42	11	3	2.5	5
	-64UNF	P1	1.85	42	11	3	2.5	5
3	-48UNC	P1	2.1	46	13	3	2.5	5
	-56UNF	P1	2.1	46	13	3	2.5	5
4	-40UNC	P2	2.3	46	13	4	3.2	6
	-48UNF	P1	2.4	46	15	4	3.2	6
5	-40UNC	P2	2.6	52	15	5	4	7
	-44UNF	P1	2.7	52	15	5	4	7
6	-32UNC	P2	2.8	52	15	5	4	7
	-40UNF	P2	2.9	52	15	5	4	7
8	-32UNC	P2	3.4	60	17	5.5	4.5	7
	-36UNF	P2	3.5	60	17	5.5	4.5	7
10	-24UNC	P2	3.9	60	19	5.5	4.5	7
	-32UNF	P2	4.1	60	19	5.5	4.5	7
12	-24UNC	P2	4.5	62	19	6	4.5	7
	-28UNF	P2	4.6	62	19	6	4.5	7
1/4	-20UNC	P2	5.1	62	23	6	4.5	7
	-28UNF	P2	5.5	62	23	6	4.5	7
5/16	-18UNC	P3	6.6	70	22	6.2	5	8
	-24UNF	P2	6.9	70	22	6.2	5	8
3/8	-16UNC	P3	8	75	23	7	5.5	8
	-24UNF	P2	8.5	75	23	7	5.5	8

丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
7/16	-14UNC	P3	9.4	82	26	8.5	6.5	9
	-20UNF	P2	9.9	82	26	8.5	6.5	9
1/2	-13UNC	P3	10.9	88	26	10.5	8	11
	-20UNF	P2	11.5	88	26	10.5	8	11
9/16	-12UNC	P3	12.2	95	26	12.5	10	13
	-18UNF	P2	12.9	95	26	12.5	10	13
5/8	-11UNC	P3	13.6	95	26	12.5	10	13
	-18UNF	P2	14.5	95	26	12.5	10	13
3/4	-10UNC	P3	16.6	105	33	15	12	15
	-16UNF	P3	17.5	105	33	15	12	15
7/8	-9UNC	P3	19.6	115	33	17	13	16
	-14UNF	P3	20.5	115	33	17	13	16
1	-8UNC	P3	22.3	125	39	19	15	18
	-12UNF	P3	23.3	125	39	19	15	18
1-1/8	-7UNC	P4	25	135	46	23	17	20
	-12UNF	P3	26.5	135	46	23	17	20
1-1/4	-7UNC	P4	28.2	145	46	24	19	22
	-12UNF	P3	29.6	145	46	24	19	22
1-3/8	-6UNC	P4	30.8	155	52	28	21	24
	-12UNF	P3	32.8	155	52	28	21	24
1-1/2	-6UNC	P4	34	165	52	30	23	26
	-12UNF	P3	36	165	52	30	23	26
1-3/4	-5UNC	P4	39.5	180	59	35	26	30
2	-4-1/2UNC	P4	45.2	185	65	38	29	32

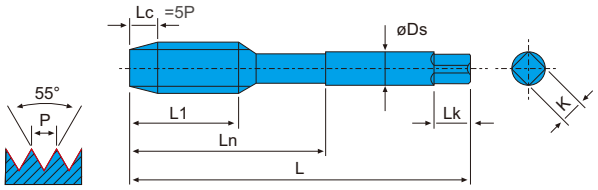
螺旋槽丝锥

Spiral Groove Tap

英制螺纹 (W)

JIS-SP





螺纹底孔(Threaded Bottom Hole):L53

向上排屑适合盲孔加工，钢，不锈钢，铸铁通用。

Upward chip removal is suitable for blind hole processing, steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk	产品编码 Order NUmber
W1/8 -40	P1	2.55	50	15	5	4	7	
W3/16 -24	P2	3.7	63	20	5.5	4.5	7	
W1/4 -20	P2	5.1	67	23	6	4.5	7	
W5/16 -18	P2	6.6	70	23	6.2	5	8	
W3/8 -16	P2	8	75	25	7	5.5	8	
W7/16 -14	P3	9.4	82	30	8.5	6.5	9	
W1/2 -12	P3	10.7	85	32	10.5	8	11	
W9/16 -12	P3	12.3	95	32	12.5	10	13	
W5/8 -11	P3	13.7	95	33	12.5	10	13	
W3/4 -10	P3	16.6	105	33	15	12	15	
W7/8 -9	P3	19.5	115	33	17	13	16	
W1 -8	P3	22.3	125	39	19	15	18	

直槽先端丝锥 JIS-PO

Straight Groove Tip Tap



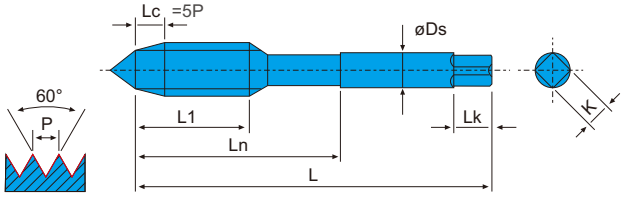
镀钛
TIN

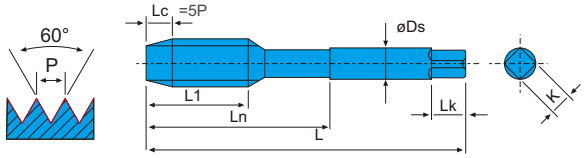




镀钛
TIN







向下排屑适合通孔加工，钢，不锈钢，铸铁通用。

Downward chip removal is suitable for through hole processing, which is common for steel, stainless steel and cast iron.

单位(Unit):mm

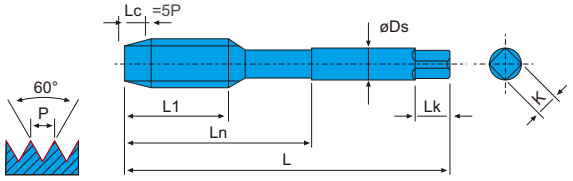
丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	颈长 Ln	柄径 øDs	四方 K	方长 Lk
M1.0×	0.25	P1	0.75	36	4.0	-	3	2.5	5
	0.2	P1	0.8	36	4.0	-	3	2.5	5
M1.1×	0.25	P1	0.85	36	4.5	-	3	2.5	5
	0.2	P1	0.9	36	4.5	-	3	2.5	5
M1.2×	0.25	P1	0.95	36	5.5	-	3	2.5	5
	0.2	P1	1.0	36	4.5	-	3	2.5	5
M1.4×	0.3	P1	1.1	36	6.0	-	3	2.5	5
	0.2	P1	1.2	36	4.5	-	3	2.5	5
M1.6×	0.35	P1	1.25	36	6.0	-	3	2.5	5
	0.2	P1	1.4	36	4.5	-	3	2.5	5
M1.7×	0.35	P1	1.35	36	7.0	-	3	2.5	5
	0.2	P1	1.5	36	4.5	-	3	2.5	5
M1.8×	0.35	P1	1.45	42	10	-	3	2.5	5
	0.2	P1	1.6	42	4.5	-	3	2.5	5
M2.0×	0.4	P1	1.6	42	9	12	3	2.5	5
	0.25	P1	1.75	42	8	12	3	2.5	5
M2.2×	0.45	P1	1.75	42	11	12	3	2.5	5
	0.25	P1	1.95	42	8	12	3	2.5	5
M2.3×	0.4	P1	1.9	42	12	12	3	2.5	5
	0.25	P1	2.05	42	8	12	3	2.5	5
M2.5×	0.45	P1	2.05	46	10	14	3	2.5	5
	0.35	P1	2.15	46	10	14	3	2.5	5
M2.6×	0.45	P1	2.15	46	10	14	3	2.5	5
	0.35	P1	2.25	46	10	14	3	2.5	5
M3.0×	0.5	P1	2.5	46	10.5	14	4	3.2	6
	0.35	P1	2.65	46	12	14	4	3.2	6
M3.5×	0.6	P1	2.9	52	13	16	5	4.0	7
	0.35	P1	3.15	52	10	16	5	4.0	7
M4.0×	0.7	P2	3.3	52	14	19	5	4	7
	0.5	P1	3.5	55	14	19	5	4	7
M4.5×	0.75	P2	3.8	55	16	24	5.5	4.5	7
	0.5	P1	4.0	55	12	19	5.5	4.5	7
M5.0×	0.8	P2	4.2	62	16	24	5.5	4.5	7
	0.5	P1	4.5	62	16	25	5.5	4.5	7
M5.5×	0.5	P1	5.0	63	18	24	6	4.5	7
M6.0×	1.0	P2	5.0	67	18	30	6	4.5	7
	0.75	P2	5.3	67	18	30	6	4.5	7
	0.5	P1	5.5	68	20	28	6	4.5	7

丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M7.0×	1.0	P2	6.0	70	23	6.2	5	8
	0.75	P2	6.3	70	22	6.2	5	8
	0.5	P2	6.4	70	13	6.2	5	8
M8.0×	1.25	P2	6.8	70	22	6.2	5	8
	1.0	P2	7.0	70	22	6.2	5	8
	0.75	P2	7.3	70	22	6.2	5	8
	0.5	P2	7.5	70	13	6.2	5	8
M9.0×	1.25	P2	7.8	75	25	7	5.5	8
	1.0	P2	8.0	75	25	7	5.5	8
	0.75	P2	8.3	75	25	7	5.5	8
M10×	1.5	P2	8.5	75	25	7	5.5	8
	1.25	P2	8.8	75	25	7	5.5	8
	1.0	P2	9.0	75	25	7	5.5	8
	0.75	P2	9.3	75	25	7	5.5	8
	0.5	P2	9.5	75	15	7	5.5	8
M11×	1.5	P2	9.6	82	29	8.5	6.5	9
	1.0	P2	10.0	82	29	8.5	6.5	9
	0.75	P2	10.2	82	29	8.5	6.5	9
M12×	1.75	P2	10.2	82	29	8.5	6.5	9
	1.5	P2	10.5	82	29	8.5	6.5	9
	1.25	P2	10.8	82	29	8.5	6.5	9
	1.0	P2	11.0	82	29	8.5	6.5	9
	0.75	P2	11.3	82	29	8.5	6.5	9
	0.5	P2	11.5	82	12	8.5	6.5	9
M13×	1.75	P2	11.2	88	26	10.5	8	11
	1.0	P2	12.0	88	26	10.5	8	11
M14×	2.0	P2	12.0	88	30	10.5	8	11
	1.5	P2	12.5	88	30	10.5	8	11
	1.25	P2	12.8	88	30	10.5	8	11
	1.0	P2	13.0	88	30	10.5	8	11
M15×	2.0	P2	13.0	95	33	12.5	10	13
	1.5	P2	13.5	95	33	12.5	10	13
	1.0	P2	14.0	95	33	12.5	10	13
M16×	2.0	P2	14.0	95	32	12.5	10	13
	1.5	P2	14.5	95	32	12.5	10	13
	1.0	P2	15.0	95	32	12.5	10	13
M17×	1.5	P2	15.5	100	33	14	11	14
	1.0	P2	16.0	100	33	14	11	14
M18×	2.5	P3	15.5	100	37	14	11	14
	2.0	P3	16.0	100	37	14	11	14
	1.5	P2	16.5	100	37	14	11	14
	1.0	P2	17.0	100	18	14	11	14
M19×	2.5	P3	16.5	105	37	15	12	15
	1.5	P3	17.5	105	37	15	12	15
	1.0	P2	18.0	105	18	15	12	15
M20×	2.5	P3	17.5	105	37	15	12	15
	2.0	P3	18.0	105	37	15	12	15
	1.5	P3	18.5	105	37	15	12	15
	1.0	P2	19.0	105	18	15	12	15
M22×	2.5	P3	19.5	115	38	17	13	16
	2.0	P3	20.0	115	38	17	13	16
	1.5	P3	20.5	115	38	17	13	16
	1.0	P2	21.0	115	19	17	13	16

螺纹底孔(Threaded Bottom Hole):L51

JIS-PO直槽先端丝锥
Straight Groove Tip Tap





螺纹底孔(Threaded Bottom Hole): L51

向下排屑适合通孔加工，钢，不锈钢，铸铁通用。
Downward chip removal is suitable for through hole processing, which is common for steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M23×	2.5	P4	20.5	120	39	19	15	18
	2.0	P4	21.0	120	39	19	15	18
M24×	3.0	P4	21.0	120	39	19	15	18
	2.0	P4	22.0	120	39	19	15	18
	1.5	P4	22.5	120	39	19	15	18
	1.0	P3	23.0	120	19	19	15	18
M25×	3.0	P4	22.0	125	39	19	15	18
	2.0	P4	23.0	125	39	19	15	18
	1.5	P4	23.5	125	39	19	15	18
	1.0	P3	24.0	125	20	19	15	18
M26×	3.0	P4	23.0	130	39	20	15	18
	1.5	P4	24.5	130	39	20	15	18
M27×	3.0	P4	24.0	130	39	20	15	18
	2.0	P4	25.0	130	39	20	15	18
	1.5	P4	25.5	130	39	20	15	18
	1.0	P3	26.0	130	20	20	15	18
M28×	3.0	P4	25.0	135	46	23	17	20
	2.0	P4	26.0	135	46	23	17	20
	1.5	P4	26.5	135	46	23	17	20
	1.0	P3	27.0	135	20	23	17	20
M30×	3.5	P5	26.5	135	46	23	17	20
	3.0	P4	27.0	135	46	23	17	20
	2.0	P4	28.0	135	46	23	17	20
	1.5	P4	28.5	135	46	23	17	20
	1.0	P3	29.0	135	21	23	17	20
M32×	2.0	P4	30.0	145	46	24	19	22
	1.5	P4	30.5	145	46	24	19	22
	1.0	P3	31.0	145	21	24	19	22

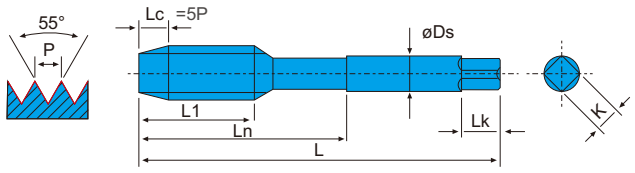
丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M33×	3.5	P5	29.5	145	46	25	19	22
	3.0	P4	30.0	145	46	25	19	22
	2.0	P4	31.0	145	46	25	19	22
	1.5	P4	31.5	145	21	25	19	22
M35×	1.5	P4	33.5	155	52	28	21	24
M36×	4.0	P5	32.0	155	52	28	21	24
	3.0	P4	33.0	155	52	28	21	24
	2.0	P4	34.0	155	52	28	21	24
	1.5	P4	34.5	155	26	28	21	24
M38×	1.5	P4	36.5	165	26	30	23	26
M39×	4.0	P5	35.0	165	52	30	23	26
	3.0	P4	36.0	165	52	30	23	26
	2.0	P4	37.0	165	52	30	23	26
	1.5	P4	37.5	165	26	30	23	26
M40×	3.0	P4	37.0	175	59	32	26	30
	2.0	P4	38.0	175	59	32	26	30
	1.5	P4	38.5	175	27	32	26	30
M42×	4.5	P5	37.5	175	59	32	26	30
	4.0	P4	38.0	175	59	32	26	30
	3.0	P4	39.0	175	59	32	26	30
	2.0	P4	40.0	175	59	32	26	30
	1.5	P4	40.5	175	27	32	26	30
M45×	4.5	P5	40.5	180	59	35	26	30
	4.0	P4	41.0	180	59	35	26	30
	3.0	P4	42.0	180	59	35	26	30
	2.0	P4	43.0	180	59	35	26	30
	1.5	P4	43.5	180	27	35	26	30
M48×	5.0	P5	43.0	185	65	38	29	32

JIS-PO 直槽先端丝锥

Straight Groove Tip Tap

英制螺纹(W)





螺纹底孔(Threaded Bottom Hole):L53

向下排屑适合通孔加工，钢，不锈钢，铸铁通用。

Downward chip removal is suitable for through hole processing, which is common for steel, stainless steel and cast iron.

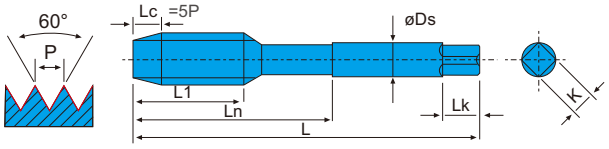
丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk	产品编码 Order NUmber
W1/8	-40	P1	2.55	50	15	5	4	7	
W3/16	-24	P2	3.7	63	20	5.5	4.5	7	
W1/4	-20	P2	5.1	67	23	6	4.5	7	
W5/16	-18	P2	6.6	70	23	6.2	5	8	
W3/8	-16	P2	8	75	25	7	5.5	8	
W7/16	-14	P3	9.4	82	30	8.5	6.5	9	
W1/2	-12	P3	10.7	85	32	10.5	8	11	
W9/16	-12	P3	12.3	95	32	12.5	10	13	
W5/8	-11	P3	13.7	95	33	12.5	10	13	
W3/4	-10	P3	16.6	105	33	15	12	15	
W7/8	-9	P3	19.5	115	33	17	13	16	
W1	-8	P3	22.3	125	39	19	15	18	

JIS-PO 直槽先端丝锥

Straight Groove Tip Tap

美制螺纹 (UNC/UNF)





螺纹底孔(Threaded Bottom Hole):L53

向下排屑适合通孔加工，钢，不锈钢，铸铁通用。

Downward chip removal is suitable for through hole processing, which is common for steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
0 -80UNF	P1	1.25	38	10.5	3	2.5	5
1 -64UNC	P1	1.55	38	9.5	3	2.5	5
-72UNF	P1	1.55	38	10.5	3	2.5	5
2 -56UNC	P1	1.8	42	11	3	2.5	5
-64UNF	P1	1.85	42	11	3	2.5	5
3 -48UNC	P1	2.1	46	13	3	2.5	5
-56UNF	P1	2.1	46	13	3	2.5	5
4 -40UNC	P2	2.3	46	13	4	3.2	6
-48UNF	P1	2.4	46	15	4	3.2	6
5 -40UNC	P2	2.6	52	15	5	4	7
-44UNF	P1	2.7	52	15	5	4	7
6 -32UNC	P2	2.8	52	15	5	4	7
-40UNF	P2	2.9	52	15	5	4	7
8 -32UNC	P2	3.4	60	17	5.5	4.5	7
-36UNF	P2	3.5	60	17	5.5	4.5	7
10 -24UNC	P2	3.9	60	19	5.5	4.5	7
-32UNF	P2	4.1	60	19	5.5	4.5	7
12 -24UNC	P2	4.5	62	19	6	4.5	7
-28UNF	P2	4.6	62	19	6	4.5	7
1/4 -20UNC	P2	5.1	62	23	6	4.5	7
-28UNF	P2	5.5	62	23	6	4.5	7
5/16 -18UNC	P3	6.6	70	22	6.2	5	8
-24UNF	P2	6.9	70	22	6.2	5	8
3/8 -16UNC	P3	8	75	23	7	5.5	8
-24UNF	P2	8.5	75	23	7	5.5	8

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
7/16 -14UNC	P3	9.4	82	26	8.5	6.5	9
-20UNF	P3	9.9	82	26	8.5	6.5	9
1/2 -13UNC	P3	10.9	88	26	10.5	8	11
-20UNF	P3	11.5	88	26	10.5	8	11
9/16 -12UNC	P3	12.2	95	26	12.5	10	13
-18UNF	P3	12.9	95	26	12.5	10	13
5/8 -11UNC	P3	13.6	95	26	12.5	10	13
-18UNF	P3	14.5	95	26	12.5	10	13
3/4 -10UNC	P4	16.6	105	33	15	12	15
-16UNF	P3	17.5	105	33	15	12	15
7/8 -9UNC	P4	19.6	115	33	17	13	16
-14UNF	P3	20.5	115	33	17	13	16
1 -8UNC	P4	22.3	125	39	19	15	18
-12UNF	P4	23.3	125	39	19	15	18
1-1/8 -7UNC	P4	25	135	46	23	17	20
-12UNF	P4	26.5	135	46	23	17	20
1-1/4 -7UNC	P4	28.2	145	46	24	19	22
-12UNF	P4	29.6	145	46	24	19	22
1-3/8 -6UNC	P5	30.8	155	52	28	21	24
-12UNF	P4	32.8	155	52	28	21	24
1-1/2 -6UNC	P5	34	165	52	30	23	26
-12UNF	P4	36	165	52	30	23	26
1-3/4 -5UNC	P5	39.5	180	59	35	26	30
2 -4-1/2UNC	P5	45.2	185	65	38	29	32

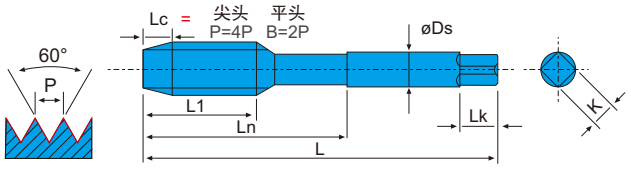
JIS-NRT 无沟挤压丝锥

Extrusion Tap

尖头 P Type

平头 B Type





螺纹底孔(Threaded Bottom Hole):L52

适合薄壁零件的螺纹孔加工，钢，不锈钢，铸铁通用。

It is suitable for the processing of thin wall parts, which is common for steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	颈长 Lc	柄径 øDs	四方 K	方长 Lk
M0.5× 0.125	RH2	0.375	33	2.0	-	3	2.5	5
M0.6× 0.15	RH2	0.45	33	2.5	-	3	2.5	5
M0.7× 0.175	RH3	0.525	37	2.5	-	3	2.5	5
M0.8× 0.2	RH3	0.6	39	2.5	-	3	2.5	5
M0.9× 0.25	RH4	0.65	36	3.0	-	3	2.5	5
0.225	RH4	0.675	32	3.0	-	3	2.5	5
M1.0× 0.25	RH4	0.75	34	5.0	-	3	2.5	5
0.2	RH4	0.8	34	6.0	-	3	2.5	5
M1.1× 0.25	RH4	0.85	34	6.5	-	3	2.5	5
0.2	RH4	0.9	34	6.5	-	3	2.5	5
M1.2× 0.25	RH4	0.95	34	7.0	-	3	2.5	5
0.2	RH4	1.0	34	7.0	-	3	2.5	5
M1.4× 0.3	RH4	1.1	36	7.0	-	3	2.5	5
0.2	RH4	1.2	36	7.0	-	3	2.5	5
M1.6× 0.35	RH4	1.25	38	7.5	-	3	2.5	5
0.2	RH4	1.4	38	7.5	-	3	2.5	5
M1.7× 0.35	RH4	1.35	38	10	-	3	2.5	5
0.2	RH4	1.5	38	7.5	-	3	2.5	5
M1.8× 0.35	RH4	1.45	38	9.0	-	3	2.5	5
0.2	RH4	1.6	38	9.0	-	3	2.5	5
M2.0× 0.4	RH4	1.6	42	13.5	12	3	2.5	5
0.25	RH4	1.75	42	12	12	3	2.5	5
M2.2× 0.45	RH4	1.75	42	12	12	3	2.5	5
0.25	RH4	1.95	42	12	12	3	2.5	5
M2.3× 0.4	RH4	1.9	42	12	12	3	2.5	5
0.25	RH4	2.05	42	12	12	3	2.5	5
M2.5× 0.45	RH5	2.05	45	16	14	3	2.5	5
0.35	RH5	2.15	45	16	14	3	2.5	5
M2.6× 0.45	RH5	2.15	45	17	14	3	2.5	5
0.35	RH5	2.25	45	17	14	3	2.5	5
M3.0× 0.5	RH5	2.5	48	20	14	4	3.2	6
0.35	RH5	2.65	47	20	14	4	3.2	6
M3.5× 0.6	RH5	2.9	50	18	16	5	4.0	7
0.35	RH5	3.15	50	18	16	5	4.0	7
M4.0× 0.7	RH6	3.3	54	22	17	5	4	7
0.5	RH6	3.5	54	22	17	5	4	7
M4.5× 0.75	RH6	3.8	60	22	21	5.5	4.5	7
0.5	RH6	4.0	60	22	21	5.5	4.5	7
M5.0× 0.8	RH6	4.2	62	23	22	5.5	4.5	7
0.5	RH6	4.5	62	23	22	5.5	4.5	7
M5.5× 0.5	RH6	5.0	62	23	26	6	4.5	7
M6.0× 1.0	RH7	5.0	65	25	26	6	4.5	7
0.75	RH6	5.3	65	25	26	6	4.5	7
0.5	RH6	5.5	65	25	26	6	4.5	7

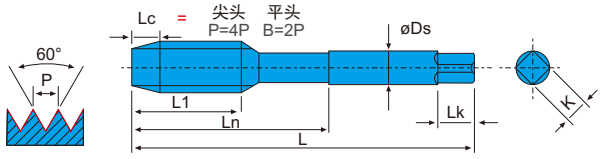
丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M7.0× 1.0	RH7	6.0	70	22	6.2	5	8
0.75	RH7	6.3	70	22	6.2	5	8
0.5	RH7	6.4	70	14	6.2	5	8
M8.0× 1.25	RH7	6.8	70	23	6.2	5	8
1.0	RH7	7.0	70	23	6.2	5	8
0.75	RH7	7.3	70	23	6.2	5	8
0.5	RH7	7.5	70	15	6.2	5	8
M9.0× 1.25	RH7	7.8	75	25	7	5.5	8
1.0	RH7	8.0	75	25	7	5.5	8
0.75	RH7	8.3	75	25	7	5.5	8
M10× 1.5	RH7	8.5	75	25	7	5.5	8
1.25	RH7	8.8	75	25	7	5.5	8
1.0	RH7	9.0	75	25	7	5.5	8
0.75	RH7	9.3	75	25	7	5.5	8
0.5	RH7	9.5	75	14	7	5.5	8
M11× 1.5	RH7	9.6	82	30	8.5	6.5	9
1.0	RH7	10.0	82	30	8.5	6.5	9
0.75	RH7	10.2	82	30	8.5	6.5	9
M12× 1.75	RH8	10.2	82	30	8.5	6.5	9
1.5	RH8	10.5	82	30	8.5	6.5	9
1.25	RH9	10.8	82	30	8.5	6.5	9
1.0	RH7	11.0	82	30	8.5	6.5	9
0.75	RH7	11.3	82	28	8.5	6.5	9
0.5	RH7	11.5	82	12	8.5	6.5	9
M13× 1.75	RH9	11.2	88	30	10.5	8	11
1.0	RH8	12.0	88	30	10.5	8	11
M14× 2.0	RH10	12.0	88	26	10.5	8	11
1.5	RH9	12.5	88	26	10.5	8	11
1.25	RH9	12.8	88	26	10.5	8	11
1.0	RH8	13.0	88	26	10.5	8	11
M15× 2.0	RH10	13.0	95	26	12.5	10	13
1.5	RH9	13.5	95	26	12.5	10	13
1.0	RH8	14.0	95	26	12.5	10	13
M16× 2.0	RH10	14.0	95	32	12.5	10	13
1.5	RH9	14.5	95	32	12.5	10	13
1.0	RH8	15.0	95	32	12.5	10	13
M17× 1.5	RH9	15.5	100	33	14	11	14
1.0	RH8	16.0	100	18	14	11	14
M18× 2.5	RH11	15.5	100	25	14	11	14
2.0	RH10	16.0	100	25	14	11	14
1.5	RH9	16.5	100	25	14	11	14
1.0	RH8	17.0	100	25	14	11	14
M19× 2.5	RH11	16.5	105	25	15	12	15
1.5	RH10	17.5	105	25	15	12	15
1.0	RH9	18.0	105	18	15	12	15
M20× 2.5	RH11	17.5	105	25	15	12	15
2.0	RH10	18.0	105	25	15	12	15
1.5	RH10	18.5	105	25	15	12	15
1.0	RH9	19.0	105	18	15	12	15

JIS-NRT无沟挤压丝锥

Extrusion Tap

美制螺纹 (UNC/UNF)





螺纹底孔(Threaded Bottom Hole):L52

适合薄壁零件的螺纹孔加工，钢，不锈钢，铸铁通用。

It is suitable for the processing of thin wall parts,which is common for steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
0 -80UNF	RH5	1.25	36	6.3	3	2.5	5
1 -64UNC	RH5	1.55	42	7.2	3	2.5	5
-72UNF	RH5	1.55	42	8.1	3	2.5	5
2 -56UNC	RH4	1.8	42	8.1	3	2.5	5
-64UNF	RH4	1.85	42	8.1	3	2.5	5
3 -48UNC	RH4	2.1	46	8.1	3	2.5	5
-56UNF	RH4	2.1	46	8.1	3	2.5	5
4 -40UNC	RH5	2.3	46	9	4	3.2	6
-48UNF	RH5	2.4	46	9	4	3.2	6
5 -40UNC	RH5	2.6	52	11	5	4	7
-44UNF	RH5	2.7	52	11	5	4	7
6 -32UNC	RH5	2.8	52	11	5	4	7
-40UNF	RH5	2.9	52	11	5	4	7
8 -32UNC	RH6	3.4	60	13	5.5	4.5	7
-36UNF	RH5	3.5	60	13	5.5	4.5	7
10 -24UNC	RH6	3.9	60	13	5.5	4.5	7
-32UNF	RH6	4.1	60	13	5.5	4.5	7
12 -24UNC	RH6	4.5	62	15	6	4.5	7
-28UNF	RH6	4.6	62	15	6	4.5	7
1/4 -20UNC	RH7	5.1	62	15	6	4.5	7
-28UNF	RH6	5.5	62	15	6	4.5	7

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
7/16 -14UNC	P3	9.4	82	26	8.5	6.5	9
-20UNF	P3	9.9	82	26	8.5	6.5	9
1/2 -13UNC	P3	10.9	88	26	10.5	8	11
-20UNF	P3	11.5	88	26	10.5	8	11
9/16 -12UNC	P3	12.2	95	26	12.5	10	13
-18UNF	P3	12.9	95	26	12.5	10	13
5/8 -11UNC	P3	13.6	95	26	12.5	10	13
-18UNF	P3	14.5	95	26	12.5	10	13
3/4 -10UNC	P4	16.6	105	33	15	12	15
-16UNF	P3	17.5	105	33	15	12	15
7/8 -9UNC	P4	19.6	115	33	17	13	16
-14UNF	P3	20.5	115	33	17	13	16
1 -8UNC	P4	22.3	125	39	19	15	18
-12UNF	P4	23.3	125	39	19	15	18
1-1/8 -7UNC	P4	25	135	46	23	17	20
-12UNF	P4	26.5	135	46	23	17	20
1-1/4 -7UNC	P4	28.2	145	46	24	19	22
-12UNF	P4	29.6	145	46	24	19	22
1-3/8 -6UNC	P5	30.8	155	52	28	21	24
-12UNF	P4	32.8	155	52	28	21	24
1-1/2 -6UNC	P5	34	165	52	30	23	26
-12UNF	P4	36	165	52	30	23	26
1-3/4 -5UNC	P5	39.5	180	59	35	26	30
2 -4-1/2UNC	P5	45.2	185	65	38	29	32

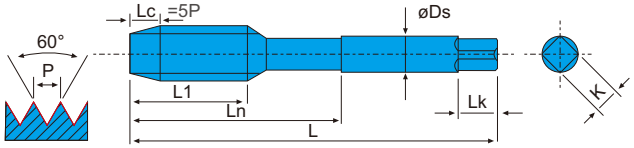
国标 ISO 标准柄

GB-SP螺旋槽丝锥

Spiral Groove Tap



镀钛
TIN



螺纹底孔(Threaded Bottom Hole):L51

向上排屑适合盲孔加工，钢，不锈钢，铸铁通用。

Upward chip removal is suitable for blind hole processing, steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	颈长 Ln	柄径 øDs	四方 K	方长 Lk
M1.0× 0.25		0.75	35	5.5		3	2.5	5
M1.2× 0.25		0.95	35	5.5		3	2.5	5
M1.4× 0.3		1.1	35	7.0		3	2.5	5
M1.6× 0.35		1.25	38	7.0		3	2.5	5
M1.8× 0.35		1.45	38	8.0		3	2.5	5
M2.0× 0.4		1.6	42	8.0		3	2.5	5
M2.5× 0.45		2.05	44	9.5		3	2.5	5
M3.0× 0.5		2.5	48	11		3.15	2.5	5
M3.5× 0.6		2.9	53	11		4	3.15	6
M4.0× 0.7		3.3	53	13		4	3.15	6
0.5		3.5	53	13		4	3.15	6
M4.5× 0.75		3.75	58	16		5	4.0	6
M5.0× 0.8		4.2	58	16		5	4.0	6
0.5		4.5	58	16		5	4.0	6
M6.0× 1.0		5.0	66	19		6.3	5.0	8
0.75		5.25	66	19		6.3	5.0	8
M8.0× 1.25		6.75	72	22		6.3	5.0	8
1.0		7.0	72	19		6.3	5.0	8
0.75		7.25	72	19		6.3	5.0	8
M10× 1.5		8.5	76	24		8	6.3	8
1.25		8.75	76	20		8	6.3	8
1.0		9.0	76	20		8	6.3	8
0.75		9.25	76	20		8	6.3	8
M12× 1.75		10.25	89	29		9	7.1	10
1.5		10.5	89	29		9	7.1	10
1.25		10.75	89	24		9	7.1	10
1.0		11.0	89	24		9	7.1	10

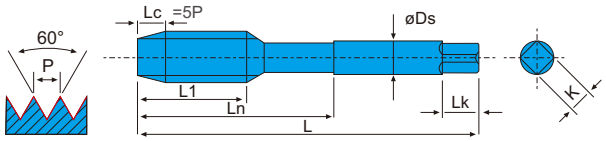
丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	颈长 Ln	柄径 øDs	四方 K	方长 Lk
M14× 2.0		12.0	95	30		11.2	9.0	12
1.5		12.5	95	30		11.2	9.0	12
M16× 2.0		14.0	102	32		12.5	10	13
1.5		14.5	102	32		12.5	10	13
M18× 2.5		15.5	112	37		14	11.2	14
1.5		16.5	104	29		14	11.2	14
M20× 2.5		17.5	112	37		14	11.2	14
1.5		18.5	104	29		14	11.2	14
M22× 2.5		19.5	118	38		16	12.5	16
1.5		20.5	113	33		16	12.5	16
M24× 3.0		21.0	130	45		18	14	18
2.0		22.0	120	35		18	14	18
M27× 3.0		24.0	135	45		20	16	20
2.0		25.0	127	37		20	16	20
M30× 3.5		26.5	138	48		20	16	20
2.0		28.0	127	37		20	16	20
M36× 4.0		32.0	162	57		25	20	24
2.0		34.0	149	39		25	20	24

国标 ISO 标准柄

GB-PO直槽先端丝锥

Straight Groove Tip Tap





螺纹底孔(Threaded Bottom Hole):L51

向下排屑适合通孔加工，钢，不锈钢，铸铁通用。

Downward chip removal is suitable for through hole processing, which is common for steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	颈长 Ln	柄径 øDs	四方 K	方长 Lk
M1.0×0.25		0.75	35	5.5		3	2.5	5
M1.2×0.25		0.95	35	5.5		3	2.5	5
M1.4×0.3		1.1	35	7.0		3	2.5	5
M1.6×0.35		1.25	38	7.0		3	2.5	5
M1.8×0.35		1.45	38	8.0		3	2.5	5
M2.0×0.4		1.6	42	8.0		3	2.5	5
M2.5×0.45		2.05	44	9.5		3	2.5	5
M3.0×0.5		2.5	48	11		3.15	2.5	5
M3.5×0.6		2.9	53	11		4	3.15	6
M4.0×0.7		3.3	53	13		4	3.15	6
0.5		3.5	53	13		4	3.15	6
M4.5×0.75		3.75	58	16		5	4.0	6
M5.0×0.8		4.2	58	16		5	4.0	6
0.5		4.5	58	16		5	4.0	6
M6.0×1.0		5.0	66	19		6.3	5.0	8
0.75		5.25	66	19		6.3	5.0	8
M8.0×1.25		6.75	72	22		6.3	5.0	8
1.0		7.0	72	19		6.3	5.0	8
0.75		7.25	72	19		6.3	5.0	8
M10× 1.5		8.5	76	24		8	6.3	8
1.25		8.75	76	20		8	6.3	8
1.0		9.0	76	20		8	6.3	8
0.75		9.25	76	20		8	6.3	8
M12× 1.75		10.25	89	29		9	7.1	10
1.5		10.5	89	29		9	7.1	10
1.25		10.75	89	24		9	7.1	10
1.0		11.0	89	24		9	7.1	10

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	颈长 Ln	柄径 øDs	四方 K	方长 Lk
M14× 2.0		12.0	95	30		11.2	9.0	12
1.5		12.5	95	30		11.2	9.0	12
M16× 2.0		14.0	102	32		12.5	10	13
1.5		14.5	102	32		12.5	10	13
M18× 2.5		15.5	112	37		14	11.2	14
1.5		16.5	104	29		14	11.2	14
M20× 2.5		17.5	112	37		14	11.2	14
1.5		18.5	104	29		14	11.2	14
M22× 2.5		19.5	118	38		16	12.5	16
1.5		20.5	113	33		16	12.5	16
M24× 3.0		21.0	130	45		18	14	18
2.0		22.0	120	35		18	14	18
M27× 3.0		24.0	135	45		20	16	20
2.0		25.0	127	37		20	16	20
M30× 3.5		26.5	138	48		20	16	20
2.0		28.0	127	37		20	16	20
M36× 4.0		32.0	162	57		25	20	24
2.0		34.0	149	39		25	20	24

德标 DIN 标准柄

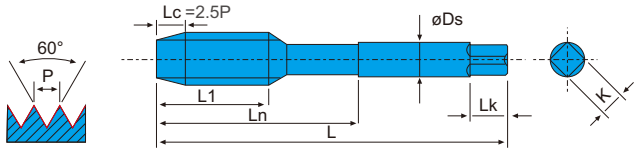
DIN-SP 螺旋槽丝锥

Spiral Groove Tap



镀钛

TIN



螺纹底孔(Threaded Bottom Hole):L51

向上排屑适合盲孔加工，钢，不锈钢，铸铁通用。

Upward chip removal is suitable for blind hole processing, steel, stainless steel and cast iron.

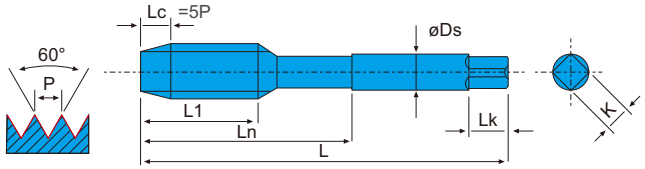
单位(Unit):mm

丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M2.0×	0.4		1.6	45	8	2.8	2.1	5
M2.2×	0.45		1.75	45	9	2.8	2.1	5
M2.5×	0.45		2.05	50	8	2.8	2.1	5
M2.6×	0.45		2.15	50	8	2.8	2.1	5
M3.0×	0.5		2.5	56	11	3.5	2.7	6
M3.5×	0.6		2.9	56	13	4.0	3.0	6
M4.0×	0.7		3.3	63	13	4.5	3.4	6
M5.0×	0.8		4.2	70	16	6.0	4.9	8
M6.0×	1.0		5.0	80	19	6.0	4.9	8
M8.0×	1.25-371		6.75	90	22	8.0	6.2	9
	1.25-376		6.75	90	22	6.0	4.9	8
	1.0		7.0	90	22	6.0	4.9	8
	0.75		7.25	80	12	6.0	4.9	8
	0.5		7.5	80	12	6.0	4.9	8
M10×	1.5-371		8.5	100	24	10	8.0	11
	1.5-376		8.5	100	24	7.0	5.5	8
	1.25		8.75	100	24	7.0	5.5	8
	1.0		9.0	90	14	7.0	5.5	8
	0.75		9.25	90	14	7.0	5.5	8
M12×	1.75		10.25	110	29	9.0	7.0	10
	1.5		10.5	100	29	9.0	7.0	10
	1.25		10.75	100	19	9.0	7.0	10
	1.0		11.0	100	19	9.0	7.0	10
M14×	2.0		12.0	110	30	11.0	9.0	12
	1.5		12.5	100	20	11.0	9.0	12
M16×	2.0		14.0	110	32	12.0	9.0	12
	1.5		14.5	100	22	12.0	9.0	12
	1.0		15.0	100	22	12.0	9.0	12

丝锥 Tap Size		精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M18×	2.5		15.5	125	34	14	11	14
	2.0		16.0	125	34	14	11	14
M20×	2.5		17.5	140	34	16	12	15
	2.0		18.0	140	34	16	12	15
	1.5		18.5	125	20	16	12	15
	1.0		19.0	125	20	16	12	15
M22×	2.5		19.5	140	34	18	14.5	17
	2.0		20.0	140	34	18	14.5	17
M24×	3.0		21.0	160	38	18	14.5	17
	2.0		22.0	140	18	18	14.5	17
M25×	1.5		23.5	140	18	18	14.5	17
M26×	1.5		24.5	140	18	18	14.5	17
M27×	3.0		24.0	160	25	20	16	19
M28×	2.0		26.0	140	20	20	16	19
M30×	3.5		26.5	180	38	22	18	21
M32×	2.0		30.0	150	20	22	18	21
M33×	3.5		29.5	180	38	25	20	23
M36×	4.0		32.0	200	40	28	22	25
	2.0		34.0	170	20	28	22	25
	1.5		34.5	170	20	28	22	25
	1.0		35.0	170	20	28	22	25
M39×	4.0		35.0	200	40	32	24	27
M42×	4.5		37.5	200	40	32	24	27
M45×	4.5		40.5	220	45	36	29	32
	3.0		42.0	200	40	36	29	32
	2.0		43.0	180	25	36	29	32
	1.5		43.5	180	25	36	29	32
M48×	5.0		43.0	250	45	36	29	32

德标 DIN 标准柄
DIN-PO直槽先端丝锥
Straight Groove Tip Tap





螺纹底孔(Threaded Bottom Hole):L51

向下排屑适合通孔加工，钢，不锈钢，铸铁通用。
Downward chip removal is suitable for through hole processing, which is common for steel, stainless steel and cast iron.

单位(Unit):mm

丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M2.0× 0.4		1.6	45	8	2.8	2.1	5
M2.2× 0.45		1.75	45	9	2.8	2.1	5
M2.5× 0.45		2.05	50	8	2.8	2.1	5
M2.6× 0.45		2.15	50	8	2.8	2.1	5
M3.0× 0.5		2.5	56	11	3.5	2.7	6
M3.5× 0.6		2.9	56	13	4.0	3.0	6
M4.0× 0.7		3.3	63	13	4.5	3.4	6
M5.0× 0.8		4.2	70	16	6.0	4.9	8
M6.0× 1.0		5.0	80	19	6.0	4.9	8
M8.0× 1.25-371		6.75	90	22	8.0	6.2	9
1.25-376		6.75	90	22	6.0	4.9	8
1.0		7.0	90	22	6.0	4.9	8
0.75		7.25	80	12	6.0	4.9	8
0.5		7.5	80	12	6.0	4.9	8
M10× 1.5-371		8.5	100	24	10	8.0	11
1.5-376		8.5	100	24	7.0	5.5	8
1.25		8.75	100	24	7.0	5.5	8
1.0		9.0	90	14	7.0	5.5	8
0.75		9.25	90	14	7.0	5.5	8
M12× 1.75		10.25	110	29	9.0	7.0	10
1.5		10.5	100	29	9.0	7.0	10
1.25		10.75	100	19	9.0	7.0	10
1.0		11.0	100	19	9.0	7.0	10
M14× 2.0		12.0	110	30	11.0	9.0	12
1.5		12.5	100	20	11.0	9.0	12
M16× 2.0		14.0	110	32	12.0	9.0	12
1.5		14.5	100	22	12.0	9.0	12
1.0		15.0	100	22	12.0	9.0	12

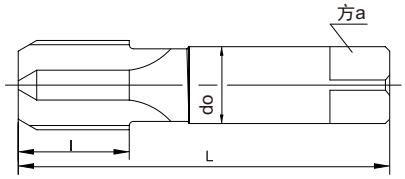
丝锥 Tap Size	精度 Limit	钻头 Drill	全长 L	刃长 L1	柄径 øDs	四方 K	方长 Lk
M18× 2.5		15.5	125	34	14	11	14
2.0		16.0	125	34	14	11	14
M20× 2.5		17.5	140	34	16	12	15
2.0		18.0	140	34	16	12	15
1.5		18.5	125	20	16	12	15
1.0		19.0	125	20	16	12	15
M22× 2.5		19.5	140	34	18	14.5	17
2.0		20.0	140	34	18	14.5	17
M24× 3.0		21.0	160	38	18	14.5	17
2.0		22.0	140	18	18	14.5	17
M25× 1.5		23.5	140	18	18	14.5	17
M26× 1.5		24.5	140	18	18	14.5	17
M27× 3.0		24.0	160	25	20	16	19
M28× 2.0		26.0	140	20	20	16	19
M30× 3.5		26.5	180	38	22	18	21
M32× 2.0		30.0	150	20	22	18	21
M33× 3.5		29.5	180	38	25	20	23
M36× 4.0		32.0	200	40	28	22	25
2.0		34.0	170	20	28	22	25
1.5		34.5	170	20	28	22	25
1.0		35.0	170	20	28	22	25
M39× 4.0		35.0	200	40	32	24	27
M42× 4.5		37.5	200	40	32	24	27
M45× 4.5		40.5	220	45	36	29	32
3.0		42.0	200	40	36	29	32
2.0		43.0	180	25	36	29	32
1.5		43.5	180	25	36	29	32
M48× 5.0		43.0	250	45	36	29	32

（标准）圆柱管螺纹丝锥

Standard Cylinder Pipe Thread Taps

G/Rp





螺纹底孔(Threaded Bottom Hole):L54

性能特点：Features：

该系列丝锥产品基本尺寸符合GB/T20333-2006/ISO2284：1987 标准的要求，Rp 适用于用螺纹密封的圆柱内螺纹的加工，加工出的螺纹符合GB/T7306.1-2000 eqv ISO7-1：1994 标准的要求；G 为非螺纹密封的管件圆柱内螺纹的加工，螺纹符合GB/T7307-2001 eqv ISO228-1：1994 。

This series product comforms to GB/T20333-2006/ISO2284:1987 . Rp tap is designed for processing femalethread with thread-seal. The thread conforms to GB7306.1-2000 eqv ISO7-1:1994 ; G tap for processingfemale thread with non-thread-seal. The thread conforms to GB7307-2001 eqv ISO228-1: 1994.

单位（unit）：mm

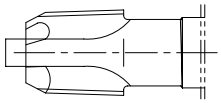
规格 Thread Size		牙数 T.P.I	L	l	do	a	槽数 Flutes	Order Number
Rp1/8	**G1/8**	28	59	15	8	6.3	Rc1/8	
Rp1/4	**G1/4**	19	67	19	10	8	Rc1/4	
Rp3/8	**G3/8**	19	75	21	12.5	10	Rc3/8	
Rp1/2	**G1/2**	14	87	26	16	12.5	Rc1/2	
Rp3/4	**G3/4**	14	96	28	20	16	Rc3/4	
Rp1	**G1**	11	109	33	25	20	Rc1	
Rp1¼	**G1¼**	11	119	36	31.5	25	Rc1¼	
Rp1½	**G1½**	11	125	37	35.5	28	Rc1½	
Rp2	**G2**	11	140	41	40	31.5	Rc2	

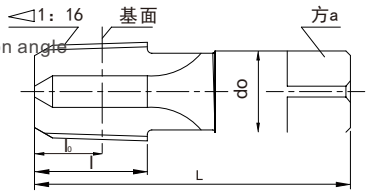
55 度圆锥管螺纹丝锥(RC)

55° Taper Pipe Thread Taps

PT/Rc







螺纹底孔(Threaded Bottom Hole):L54

性能特点：Features：

该系列产品适用于用英制螺纹密封的圆锥管螺纹内螺纹的加工，可用于加工玛钢管件及不锈钢管件，加工的螺纹，符合GB7306. 2-2000 eqv ISO7-1：1994 标准的要求，也可根据用户需求增加刃倾角。本产品采用优质高速钢W6Mo4Cr4V2 材料。加工螺纹精度高，经久耐用。

This series of products is suitable for processing internal threads of conical pipes sealed with imperial threads. It can be used to process malleable steel and stainless steel pipe fittings, and the processed threads comply with GB7306 According to the requirements of the ISO7-1:1994 standard for 2-2000 eqv, the blade inclination angle can also be increased according to user needs. This product uses high-quality high-speed steel W6Mo4Cr4V2 material. High precision and durability in thread processing.

单位（unit）：mm

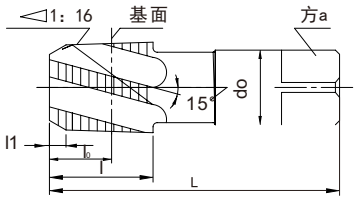
代码编号 Code number	规格 Thread Size		牙数 T.P.I	L	l	l0	do	a	槽数 Flutes	Order Number
	Rc1/8S	**PT1/8**	28	55	15	10	9	7	4	
	Rc1/4S	**PT1/4**	19	60	20	12	11	9	4	
	Rc3/8S	**PT3/8**	19	65	22	14	14	11	4	
	Rc1/2S	**PT1/2**	14	70	25	15	18	14.5	4	
	Rc3/4S	**PT3/4**	14	70	26	17	22	18	4	
	Rc1S	**PT1**	11	80	30	20	26	20	4	
	Rc1¼S	**PT1¼**	11	85	32	22	34	26	6	
	Rc1½S	**PT1½**	11	90	32	23	38	29	6	
	Rc2S	**PT2**	11	100	35	25	38	29	6	

55 度圆锥管螺纹螺旋槽丝锥（PT）

55° Taper Pipe Thread Tap with Spiral Flute

PT





螺纹底孔(Threaded Bottom Hole):L54

性能特点：Features：

该系列产品适用于用英制螺纹密封的不锈钢管件的圆锥管螺纹内螺纹的加工，丝锥表面TIN 处理，加工的螺纹符合ISO7-1：1994 标准的要求。本产品采用优质高速钢W6Mo4Cr4V2材料。加工螺纹精度高，经久耐用。

This series of products is suitable for processing the internal threads of tapered pipe threads of stainless steel pipe fittings sealed with inch threads. The surface of the tap is treated with TIN, and the processed threads comply with the requirements of ISO7-1:1994 standard.This product uses high-quality high-speed steel W6Mo4Cr4V2 material. High precision and durability in thread processing.

单位（unit）：mm

代码编号 Code number	规格 Thread Size	牙数 T.P.I	L	l	l0	l1	do	a	槽数 Flutes	Order Number
	PT1/8	28	55	15	10	2.3	9	7	3	
	PT1/4	19	60	20	12	3.3	11	9	3	
	PT3/8	19	65	22	14	3.3	14	11	4	
	PT1/2	14	70	25	15	3.6	18	14.5	4	
	PT3/4	14	70	26	17	3.6	22	18	4	
	PT1	11	80	30	20	4.5	26	20	5	
	PT1¼	11	85	32	22	5.5	34	26	6	
	PT1½	11	90	32	23	5.5	38	29	6	
	PT2	11	100	35	25	5.5	38	29	7	

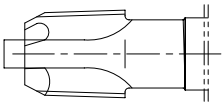
60 度圆锥管螺纹丝锥

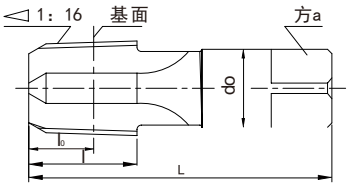
60° Taper Pipe Thread Taps

NPT



带刃倾角的丝锥
Tap with blade inclination angle





☞ 性能特点：Features：

☞ 螺纹底孔(Threaded Bottom Hole)：L54

该系列产品适用于用美制螺纹密封的圆锥管螺纹内螺纹的加工，可用于加工玛钢件及不锈钢件，加工的螺纹，符合GB/T12716-2002 eqv ASME BI. 20. 1-1983 标准的要求，也可根据用户需求增加刃倾角。

Designed for processing female thread with thread-seal, The thread standard conforms to ASME BI. 20.1-1983, to produce the malleable fittings and stainless steel products.

单位（unit）：mm

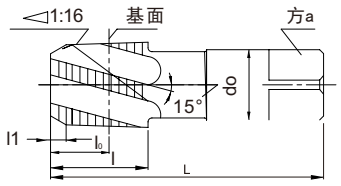
规格 Thread Size	牙数 T.P.I	L	l	l_0	do	a	槽数 Flutes	Order Number
NPT1/8-27	27	55	15	10	9	7	4	
NPT1/4-18	18	60	20	12	11	9	4	
NPT3/8-18	18	65	22	14	14	11	4	
NPT1/2-14	14	70	25	15	18	14.5	4	
NPT3/4-14	14	70	26	17	22	18	4	
NPT1-11½	11½	80	30	20	26	20	4	
NPT1¼-11½	11½	85	32	22	34	26	6	
NPT1½-11½	11½	90	32	23	38	29	6	
NPT2-11½	11½	100	35	25	38	29	6	

60 度圆锥管螺纹螺旋槽丝锥

60° Taper Pipe Thread Tap with Spiral Flute

NPT





☞ 性能特点：Features：

☞ 螺纹底孔(Threaded Bottom Hole)：L54

该系列产品适用于用英制螺纹密封的不锈钢管件的圆锥管螺纹内螺纹的加工，丝锥表面TIN 处理，加工的螺纹符合ISO7-1：1994 标准的要求。本产品采用优质高速钢W6Mo4Cr4V2材料。加工螺纹精度高，经久耐用。

This series of products is suitable for processing the internal threads of tapered pipe threads of stainless steel pipe fittings sealed with inch threads. The surface of the tap is treated with TIN, and the processed threads comply with the requirements of ISO7-1:1994 standard. This product uses high-quality high-speed steel W6Mo4Cr4V2 material. High precision and durability in thread processing.94.

单位（unit）：mm

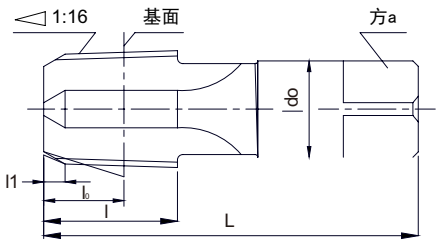
规格 Thread Size	牙数 T.P.I	L	l	l_0	do	a	槽数 Flutes	Order Number
NPT1/8-27	27	55	15	10	9	7	4	
NPT1/4-18	18	60	20	12	11	9	4	
NPT3/8-18	18	65	22	14	14	11	4	
NPT1/2-14	14	70	25	15	18	14.5	4	
NPT3/4-14	14	70	26	17	22	18	4	
NPT1-1½	11½	80	30	20	26	20	4	
NPT1¼-11½	11½	85	32	22	34	26	6	
NPT1½-11½	11½	90	32	23	38	29	6	
NPT2-111½	11½	100	35	25	38	29	6	

ANPT圆锥管螺纹丝锥

ANPT Taper Pipe Thread Taps

ANPT





☞ 性能特点：Features：

☞ 螺纹底孔(Threaded Bottom Hole)：L54

该系列产品为美国航空（军用）标准，适用于严格的螺纹密封的螺纹产品，螺纹符合ML-P-7105B标准的要求。

Designed for taper pipe thread with thread-seal, Aeronautical National Form , The thread standard conformsto MIL-P-7105B.

单位（unit）：mm

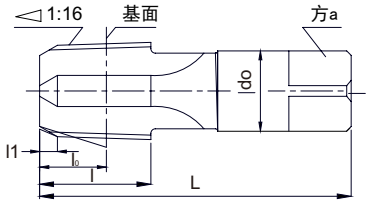
规格 Thread Size	牙数 T.P.I	L	l	l_0	l_1	do	a	槽数 Flutes	Order Number
ANPT1/8-27	27	55	15	10	3.0	9	7	4	
ANPT1/4-18	18	60	20	12	3.0	11	9	4	
ANPT3/8-18	18	65	22	14	3.0	14	11	4	
ANPT1/2-14	14	70	25	15	4.0	18	14.5	4	
ANPT3/4-14	14	70	26	17	4.0	22	18	4	
ANPT1-11½	11½	80	30	20	5.0	26	20	4	
ANPT1¼-11½	11½	85	32	22	5.0	34	26	6	
ANPT1½-11½	11½	90	32	23	5.0	38	29	6	
ANPT2-111½	11½	100	35	25	5.0	38	29	6	

NPTF 圆锥管螺纹丝锥（干密封）

NPTF Taper Pipe Thread Taps (HSS Dry Seal)

NPTF





螺纹底孔(Threaded Bottom Hole)：L54

性能特点：Features：

该系列产品适用于干密封管螺纹的加工，螺纹符合ANSI B1.20.3-1976标准的要求。

These general purpose taps are suitable for tapping most materials.The chips areretained in the flutes during use. Assembly of NPTF thread does not require the sealants, The thread standard conforms to ANSIB1.20.3-1976.

单位（unit）：mm

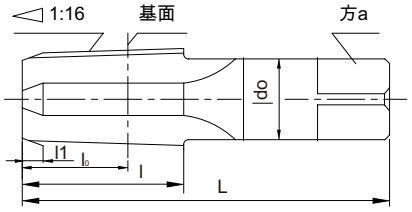
规格 Thread Size	牙数 T.P.I	L	l	l_0	l_1	do	a	槽数 Flutes	Order Number
NPTF1/8-27	27	55	15	10	3.0	9	7	4	
NPTF1/4-18	18	60	20	12	3.0	11	9	4	
NPTF3/8-18	18	65	22	14	3.0	14	11	4	
NPTF1/2-14	14	70	25	15	4.0	18	14.5	4	
NPTF3/4-14	14	70	26	17	4.0	22	18	4	
NPTF1-11½	11½	80	30	20	5.0	26	20	4	
NPTF1¼-11½	11½	85	32	22	5.0	34	26	6	
NPTF1½-11½	11½	90	32	23	5.0	38	29	6	
NPTF2-11½	11½	100	35	25	5.0	38	29	6	

60°圆锥管螺纹加长丝锥

60°Taper Pipe Thread Taps HSS Bright-Low Hook for Cast Iron

加长NPT





螺纹底孔(Threaded Bottom Hole)：L54

性能特点：Features：

该系列产品广泛应用于玛钢产品，因其性能可靠，还可用于铸铜和其它铜制品等材料的加工，螺纹标准符合GB/T12716-2002 eqv ASME B1.20.1-1983 标准的要求。

These geometry of these taps are specifically designed for cast iron producing small or powdery chips. They will also work well in cast brass and other brasses which produce similar chips. The chips are retained in the flutes during use. The thread standard conforms to ASME B1.20.1-1983.

单位（unit）：mm

规格 Thread Size	牙数 T.P.I	L	l	l_0	l_1	do	a	槽数 Flutes	Order Number
NPT1/8-27	27	54	19.1	12.03	2.5	11.11	8.33	4	
NPT1/4-18	18	61.9	27	17.44	3.5	14.29	10.69	4	
NPT3/8-18	18	65.1	27	17.63	3.5	17.78	13.49	4	
NPT1/2-14	14	79.4	34.9	22.83	4.5	17.46	13.08	4	
NPT3/4-14	14	82.6	34.9	22.96	4.5	23.02	17.25	5	
NPT1-11½	11½	95.3	44.5	27.38	5.5	28.58	21.41	5	
NPT1¼-11½	11½	101.6	44.5	28.09	5.5	33.34	24.99	5	
NPT1½-11½	11½	108	44.5	28.42	6.0	38.10	28.58	7	
NPT2-11½	11½	114.3	44.5	28.02	6.0	47.63	35.71	7	

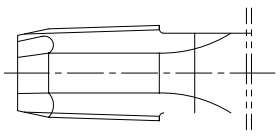
美标气瓶锥螺纹丝锥

NGT Taper Thread Tap for Gas Cylinder

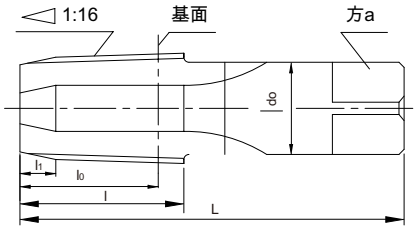
NGT



螺纹底孔(Threaded Bottom Hole)：L54



可加工带刃倾角的丝锥
Machinable tap with edge inclination angle



性能特点：Features：

该系列产品加工的螺纹符合 ANSI5.7.1 中 NGT 气瓶锥螺纹标准。

Designed for NGT taper thread of gas Cylinder. The thread standard conforms to ANSI5.7.1.

单位（unit）：mm

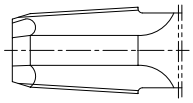
规格 Thread Size	牙数 T.P.I	L	l	l_0	l_1	do	a	槽数 Flutes	Order Number
NGT3/8-18	18	70	28	21	6.0	14	11	3	
NGT1/2-14	14	75	32	27	7.0	18	14.5	3	
NGT3/4-14	14	80	37.5	30	7.0	22	18	3	
NGT1-11½	11½	90	40	33	9.0	25	20	3	
NGT2-11½	11½	100	45	38	9.0	40	31.5	6	

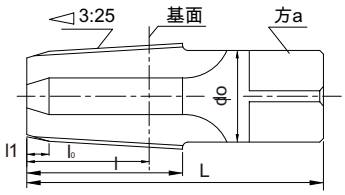
气瓶锥螺纹丝锥
Taper Thread Tap for Gas Cylinder

PZ



可加工带刃倾角的丝锥
Machinable tap with edge inclination angle





性能特点：Features：

该系列产品用于氧气、乙炔气、液化石油气、二氧化碳等钢瓶瓶口具有 3：25 锥度、牙型角平分线垂直于锥体母线的瓶口内螺纹的加工。

加工出的螺纹符合国标 GB8335-2011，其余根据用户要求特订。

Designed for processing female thread for mouth which owns 3:25 taper, and bisector of thread form angle of steel cylinder in which is oxygen, acetylene, LPG, CO2. The thread standard conforms to GB/T8335-2011.

单位（unit）：mm

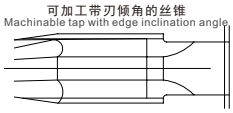
规格 Thread Size	牙数 T.P.I	L	l	l_0	l_1	do	a	槽数 Flutes	Order Number
*PZ19. 2	14	75	32	27	6.0	16	12.5	3	
PZ19. 8	14	75	38	32	6.0	18	14.5	3	
PZ25. 4	14	80	42	36	6.0	22	18	3	
*PZ27. 8	14	80	40	33	6.0	25	20	3	
PZ30. 3	14	80	40	33	6.0	25	20	3	
*PZ39	12	90	42	34	7.0	31.5	25	4	

建筑套筒用螺纹丝锥
Building Sleeves Joint Tap

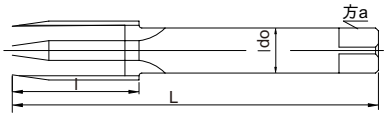
建筑



可加工带刃倾角的丝锥
Machinable tap with edge inclination angle







性能特点：Features：

该系列产品是特殊订货产品，适用于加工建筑接箍套筒内螺纹，螺距、牙型角可根据用户要求设计，可特定螺旋槽丝锥、带习倾角的丝锥。

Suitable for building joint sleeve female thread.This product is special.The pitch and teeth angle aredecided by the customers.And we accept the orders including spiral flute and spiral point taps.

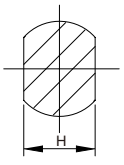
单位（unit）：mm

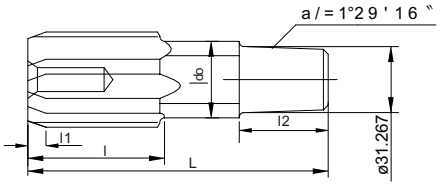
规格 Thread Size	L	l	do	a	槽数 Flutes	α			Order Number
JZTT-12#	90	32	10	8	3	60°	70°	75°	
JZTT-14#	100	40	11.2	9	4	60°	70°	75°	
JZTT-16#	120	45	12.5	10	3	60°	70°	75°	
JZTT-18#	125	45	14	11.2	4	60°	70°	75°	
JZTT-20#	130	45	16	12.5	4	60°	70°	75°	
JZTT-22#	140	45	18	14	4	60°	70°	75°	
JZTT-25#	150	55	20	16	4	60°	70°	75°	
JZTT-28#	160	55	20	16	4	60°	70°	75°	
JZTT-32#	170	55	22.4	18	4	60°	70°	75°	
JZTT-36#	190	55	25	20	4	60°	70°	75°	
JZTT-40#	200	55	28	22.4	4	60°	70°	75°	

暖气片丝锥
Radiator Tap

暖气片







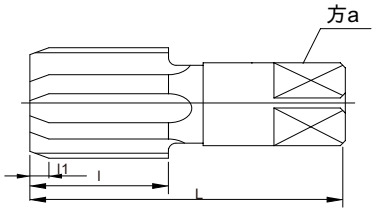
性能特点：Features：

该系列产品适用于大立柱式暖气片丝锥上左、右旋内螺纹的加工。

Designed for the big column radiator. Its thread is in left and in right thread.

单位（unit）：mm

规格 Thread Size	牙数 T.P.I	L	l	l_1	l_2	do	H	槽数 Flutes	Order Number
LH1/1	11	145	60	5.0	39	40	31.6	4	
LH1¼/1/1¼	11	148	71	5.0	39	40	31.6	6	
LH1½/1/1½	11	150	70	5.0	49	40	31.6	6	



单位（unit）：mm

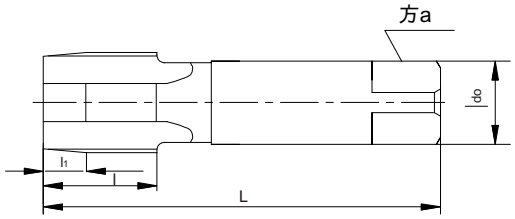
规格 Thread Size	牙数 T.P.I	L	l	l_1	do	H	槽数 Flutes	Order Number
LH1½/1½	11	105	48	6.0	38	29	6	

NPSC、NPSL 钢管丝锥

NPSC (NPSL) Pipe Steel Taps

NPS..





性能特点:Features:

该系列产品加工符合美国标准螺纹 H28 钢管圆柱内螺纹。

This product is suitable to produce the female thread of pipe steel. The thread standard conforms to H28 (America Standard)

单位（unit）：mm

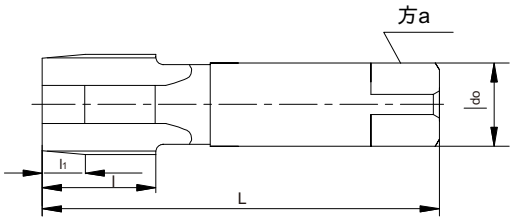
规格 Thread Size		牙数 T.P.I	L	l	l_1	do	a	槽数 Flutes	Order Number
NPSC1/8	NPSL1/8	27	60	15	9	8.0	6.3	3	
NPSC1/4	NPSL1/4	18	80	25	13	11.0	9	3	
NPSC3/8	NPSL3/8	18	90	25	13	14.0	11	3	
NPSC1/2	NPSL1/2	14	95	30	17	18.0	14.5	4	
NPSC3/4	NPSL3/4	14	105	30	17	22.0	18	4	
NPSC1	NPSL1	11½	115	35	21	26.0	20	4	
NPSC1¼	NPSL1¼	11½	125	35	21	34.0	26	6	
NPSC1½	NPSL1½	11½	130	35	21	38.0	29	6	
NPSC2	NPSL2	11½	130	35	21	38.0	29	6	

Rp 钢管丝锥

Rp Pipe Steel Taps

钢管 Rp





性能特点:Features:

该系列产品加工符合GB/T7306.1-2000标准螺纹的钢管圆柱内螺纹。

It comforms to GB/T7306.1-2000 (Cylinder female thread for pipe steel).

单位（unit）：mm

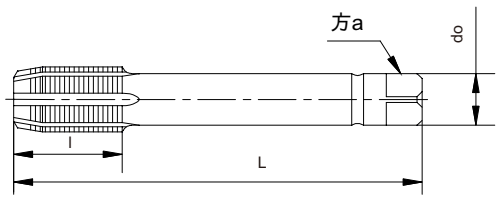
规格 Thread Size	牙数 T.P.I	L	l	l_1	do	a	槽数 Flutes	Order Number
Rp1/8	28	60	15	9	8.0	6.3	3	
Rp1/4	19	80	25	13	11.0	9	3	
Rp3/8	19	90	25	13	14.0	11	3	
Rp1/2	14	95	30	17	18.0	14.5	4	
Rp3/4	14	105	30	17	22.0	18	4	
Rp1	11	115	35	21	26.0	20	4	
Rp1¼	11	125	35	21	34.0	26	6	
Rp1½	11	130	35	21	38.0	29	6	
Rp2	11	130	35	21	38.0	29	6	

抽油杆接箍挤压丝锥

Extruding Tap for Sucker Rod Joint

抽油杆





性能特点:Features:

该系列产品适用于抽油杆接箍内螺纹的挤压成形（分为通孔和盲孔两种形式），加工出的螺纹符合SY /T5029-2003、SY /T5550-2006标准的要求。

Designed for the sucker rod joint. The tap is divided into through and blind ones. The thread standard conformsto sY/T5029-2003, sY/T5550-2006.

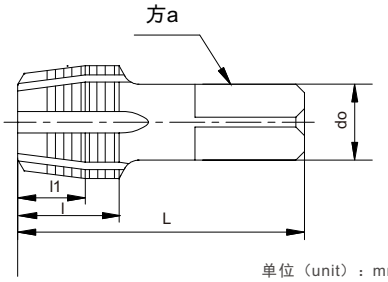
单位（unit）：mm

规格 Thread Size	L	l	do	a	槽数 Flutes	Order Number
YG5/8	170	40	18	14.32	6	
YG5/8	170	40	24	17.75	8	
YG7/8	170	40	24	17.75	8	
YG1	170	40	24	17.75	8	
YG$1^{1}/_{8}$	170	40	32	23.72	10	
YG$1^{3}/_{4}$	200	40	32	23.72	10	
YG$1^{7}/_{8}$	200	40	36	28	10	

桶盖挤压丝锥
Extruding Tap for Barrel Cap

桶盖





性能特点:Features:

该系列产品适用于桶盖内螺纹的挤压成形。

The series tap is designed for barrel cap female thread to be extruded

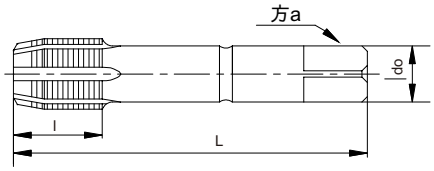
单位（unit）：mm

规格 Thread Size	牙数 T.P.I	L	l	l_1	do	a	槽数 Flutes	Order Number
TC1/2	14	66	24	16	14	11	8	
TC3/4	14	68	24	16	18	14	8	
TC2	14	77	30	19	38	30	14	

滤清器普通螺纹挤压丝锥
Metric Extruding Tap for Filter

滤清器





性能特点:Features:

该系列产品适用于滤清器内螺纹的挤压成形，加工出的螺纹符合GB/T192-2003、193-2003、196-2003、197-2003螺纹标准的要求。

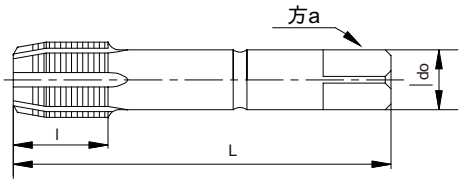
Designed for the filter. The thread standard comforms to GB/T192-2003, 193-2003, 196-2003, 197-2003.

单位（unit）：mm

规格 Thread Size	p	L	l	do	a	槽数 Flutes	Order Number
LQQ-M12	1.5	75	24	9.0	7.1	4	
LQQ-M14	1.25/1.5	85	25	11.2	9	6	
LQQ-M16	1/1.5/2	100	25	12.5	10	6	
LQQ-M17	1.25	100	25	15	11.2	6	
LQQ-M18	1.5/2	100	25	15	11.2	6	
LQQ-M20	1/1.5/2	100	25	15	11.2	6	
LQQ-M22	1/1.5/2	110	28	15	11.2	6	
LQQ-M23	1/1.5	110	28	18	14	6	
LQQ-M24	1.5/2	110	28	18	14	6	
LQQ-M25	1.5/2	110	28	18	14	6	
LQQ-M26	1.5/2	110	28	18	14	6	
LQQ-M27	1.5/2	110	28	18	14	8	
LQQ-M30	1.5/2	110	28	26	20	8	
LQQ-M32	1.5/2	110	28	26	20	8	
LQQ-M33	1.5	110	28	26	20	8	
LQQ-M36	1.5/2	110	28	34	20	10	
LQQ-M38	1.5/2	120	30	34	29	10	
LQQ-M39	1.5	120	30	34	29	10	
LQQ-M40	1.5/2	120	30	34	29	10	
LQQ-M41	1.5	120	30	34	29	10	
LQQ-M42	1.5/2	120	30	34	29	10	
LQQ-M48	5	120	30	34	29	12	

滤清器统一螺纹挤压丝锥
Unified Extruding Tap for Filter





性能特点:Features:

该系列产品适用于滤清器内螺纹的挤压成形，加工出的螺纹符合美国统一螺纹标准ANSI-B1.1 的要求。

Designed for the filter. The thread standard comforms to ANSI BI.I.

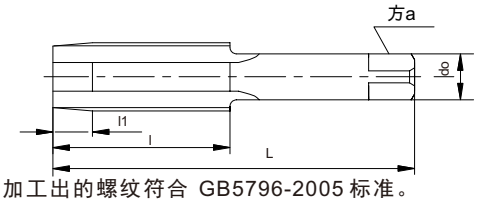
单位（unit）：mm

规格 Thread Size	牙数T. P. I			L	l	do	a	槽数 Flutes	Order Number
	UN	UNF	UNS						
LQQ-5/8		18		100	25	12.5	10	6	
LQQ-11/16	12/16			100	25	12.5	10	6	
LQQ-3/42	12	16		100	25	15	11.2	6	
LQQ-13/16	12/16		18	100	25	15	11.2	6	
LQQ-7/8	16	14		110	28	15	11.2	6	
LQQ-15/16	16			110	28	18	14	6	
LQQ-1	16	12		110	28	18	14	6	
LQQ-$1^{1}/_{16}$	12/16			110	28	18	14	8	
LQQ-$1^{1}/_{8}$	16	12		110	28	18	14	8	
LQQ-$1^{1}/_{4}$	16	12	14	110	28	26	20	8	
LQQ-$1^{5}/_{16}$	12			120	30	26	20	8	
LQQ-$1^{3}/_{8}$	16	12		110	28	26	20	10	
LQQ-$1^{1}/_{2}$	16	12		120	30	34	29	10	
LQQ-$1^{5}/_{8}$	12			120	30	34	29	10	
LQQ-$1^{3}/_{4}$	12/16			120	30	34	29	10	
LQQ-$1^{1}/_{4}$	12			120	30	34	29	14	
LQQ-$2^{1}/_{2}$	12			120	30	38	29	14	

梯形丝锥
Trapezoidal Thread Taps

TR..





性能特点:Features:

该系列产品适用于冷水嘴、低压阀门等产品上左、右旋的梯形内螺纹的加工，加工出的螺纹符合 GB5796-2005 标准。

Designed for processing female trapezoidal threads (right and left thread) in the cold-water mouth pieces or low-pressure valves. The thread conforms to GB5796-2005.

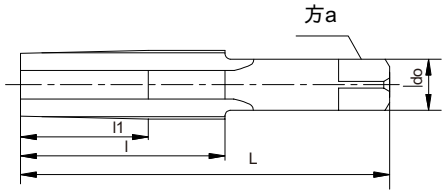
单位（unit）：mm

规格 Thread Size	P	L	l	l1	do	a	槽数 Flutes	Order Number
GB-PO-Tr9×2L	2	75	30	6	8	6. 2	3	
GB-PO-Tr10×3L	3	80	40	9	8	6. 2	4	
GB-PO-Tr12×3L	3	85	45	9	9	7	4	
GB-PO-Tr14×3L	3	95	45	9	10	8	4	
GB-PO-Tr16×3L	3	100	48	9	12	10	4	
GB-PO-Tr16×4L	4	100	48	9	12	10	4	
GB-PO-Tr18×4L	4	105	50	12	12	10	4	
GB-PO-Tr20×4L	4	110	55	12	14	11	4	
GB-PO-Tr12×3S	3	65	26	5	14	11	4	
GB-PO-Tr14×3S	3	65	26	5	14	11	4	

防松螺母丝锥
Anti-loose Locknut Tap

防松螺母





性能特点:Features:

适用于美国施必牢防松螺母螺纹的加工。

Suitable for America spiralock's anti-loose locknut.

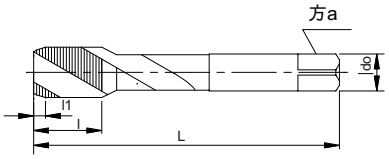
单位（unit）：mm

规格 Thread Size	P	L	l	l1	do	a	槽数 Flutes	Order Number
NS-M24	3	130	72/66	45/6.5	18	14	4	
NS-M27	3	130	72	45	22.4	18	4	

马氏体专用螺旋槽公制丝锥
Spiral Flute Metric Tap for Martensite Steel

马氏体





性能特点:Features:

用于汽车行业马氏体材料螺纹的加工。

Suitable to process the martensite materials of in automotive industry

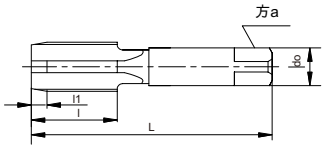
单位（unit）：mm

规格 Thread Size	P	L	l	l1	do	a	槽数 Flutes	刀具材料 Raw Materials	Order Number
MST-M14	1.5	88	31	4.0	10.5	8.0	3	M42	
MST-M16	1.5	102	23	4.0	10.5	10.0	4	M42	

专用公制丝锥
Special Metric Tap

阀门





性能特点:Features:

该系列产品适用于低压阀门及其他行业产品上内螺纹的加工，加工出的螺纹符合 192、193、196、197、老二级）精度。

Design according to the old standard. The thread standard conforms to 192, 193, 196, 197.

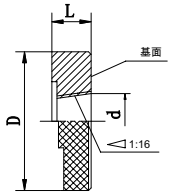
单位（unit）：mm

规格 Thread Size	P	L	l	l1	do	a	槽数 Flutes	Order Number
FM-M14	1/1.5	70	25	2P	10.5	8	4	
FM-M16	1/1.5	80	28	2P	12.5	10.0	4	
FM-M18	1/1.5/2	90	32	2P	14	11	4	
FM-M20	1/1.5/2	90	32	2P	16	12	4	
FM-M22	1/1.5/2	90	32	2P	18	14.5	4	
FM-M25	1.5	95	32	2P	20	16	4	
FM-M30	1/1.5/2	105	36	2P	24	18	4	
FM-M32	1.5/2	115	40	2P	26	20	4	
FM-M35	1.5	115	40	2P	26	20	4	
FM-M36	1.5/2	125	45	2P	28	22	6	
FM-M38	1.5/2	125	45	2P	28	22	6	
FM-M39	1.5/2	130	45	2P	32	24	6	
FM-M40	2	130	45	2P	32	24	6	
FM-M42	1.5/2	130	45	2P	34	26	6	
FM-M45	1.5/2	140	50	2P	36	29	6	
FM-M48	1.5/2	150	50	2P	38	29	6	
FM-M50	2	150	50	2P	38	29	6	
FM-M52	1.5/2	150	50	2P	38	29	6	
FM-M54	2	150	50	2P	35.5	28	6	

55° 圆锥管螺纹削 u 值平顶全牙型工作螺纹环规

RB Work Ring Gauge





性能特点:Features:

该系列产品适用于用螺纹密封的圆锥外螺纹的综合测量，环规的设计依据标准 JB/T10031-1999。

Suitable for checking the taper male thread (thread-seal fittings). It conforms to JB/T10031-1999.

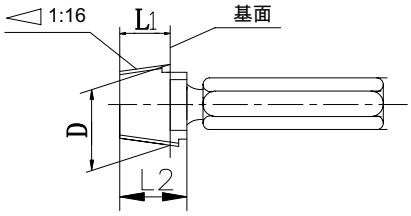
单位（unit）：mm

规格 Thread Size	牙数 T.P.I	L	D	d	Order Number
LWHG-R_B1/2	14	9.979	45	18.875	
LWHG-R_B3/4	14	11.339	48	30.608	
LWHG-R_B1	11	12.700	56	39.269	
LWHG-R_B1¼	11	15.009	72	39.269	
LWHG-R_B1½	11	15.009	80	45.162	
LWHG-R_B2	11	18.184	90	56.973	
LWHG-R_B2½	11	20.926	115	72.537	
LWHG-R_B3	11	24.101	135	85.237	
LWHG-R_B3½	11	25.663	155	97.683	
LWHG-R_B4	11	28.864	175	110.383	
LWHG-R_B5	11	32.039	200	135.783	
LWHG-R_B6	11	32.039	235		

55° 圆锥管螺纹削U值平顶全牙型工作螺纹塞规

55 ° taper pipe thread cutting U-value flat top full tooth working thread plug gauge





性能特点:Features:

该系列产品适用于螺纹密封的圆锥内螺纹及圆柱内螺纹的综合测量，塞规的设计依据标准 JB/T10031-1999。

Suitable for checking the taper female and cylinder female thread. The standard conforms to JB/T10031-1999.

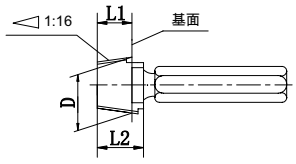
单位（unit）：mm

规格 Thread Size	牙数 T.P.I	L1	L2	D	Order Number
LWSG-R_B1/8	28	3.969	6.69	9.594	
LWSG-R_B1/4	19	6.016	10.03	12.959	
LWSG-R_B3/8	19	6.350	10.36	16.464	
LWSG-R_B1/2	14	8.164	13.6	20.687	
LWSG-R_B3/4	14	9.525	15.0	26.173	
LWSG-R_B1	11	10.391	17.3	32.908	
LWSG-R_B1¼	11	12.700	19.6	41.569	
LWSG-R_B1½	11	12.700	19.6	47.462	
LWSG-R_B2	11	15.875	22.8	59.273	
LWSG-R_B2½	11	17.463	24.4	74.843	
LWSG-R_B3	11	20.638	27.6	87.543	
LWSG-R_B3½	11	22.20	29.1	99.989	
LWSG-R_B4	11	25.401	32.3	112.689	
LWSG-R_B5	11	28.576	35.5	138.089	
LWSG-R_B6	11	28.576	35.5	163.489	

NPT 圆锥管螺纹工作螺纹塞规（极限型式）

NPT Work Plug Gauge





性能特点:Features:

该系列产品适用于螺纹密封的圆锥内螺纹及圆柱内螺纹的综合测量，塞规的设计依据标准JB/T10031-1999。

Designed for checking the taper female thread. It conforms to FED-STD-H28: ANSI B47.1.

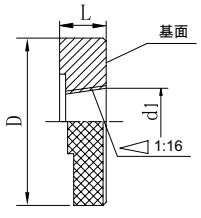
单位（unit）：mm

规格 Thread Size	牙数 T.P.I	L1	L2	D	Order Number
LWSG-NPT1/8-27	27	4.102	6.702	10.116	
LWSG-NPT1/4-18	18	5.786	10.205	13.427	
LWSG-NPT3/8-18	18	6.096	10.358	16.866	
LWSG-NPT1/2-14	14	8.128	13.556	20.980	
LWSG-NPT3/4-14	14	8.611	13.861	26.326	
LWSG-NPT1-11½	11½	10.160	17.343	32.932	
LWSG-NPT1¼-11½	11½	10.668	17.952	41.689	
LWSG-NPT1½-11½	11½	10.668	18.376	47.758	
LWSG-NPT2-11½	11½	11.074	19.216	59.796	
LWSG-NPT2½-8	8	17.323	28.89	72.273	
LWSG-NPT3-8	8	19.456	30.48	88.182	
LWSG-NPT3½-8	8	20.853	31.75	100.891	
LWSG-NPT4-8	8	21.438	33.02	113.548	
LWSG-NPT5-8	8	23.800	35.72	140.527	
LWSG-NPT6-8	8	24.333	38.42	167.366	

NPT 圆锥管螺纹工作螺纹环规（极限型式）

NPT Work Ring Gauge





性能特点:Features:

该系列产品按美国标准H28 设计，符合美国国家标准ANSI B47.1 的要求。

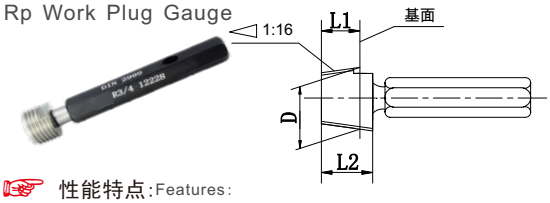
Designed according to America Standard H28. The thread standard conforms to ANSI B47.1.

单位（unit）：mm

规格 Thread Size	牙数 T.P.I	L1	L2	D	Order Number
LWHG-NPT1/2-14	14	9.942	45	18.564	
LWHG-NPT3/4-14	14	10.425	48	23.909	
LWHG-NPT1-11½	11½	12.369	56	29.990	
LWHG-NPT1¼-11½	11½	12.877	72	38.747	
LWHG-NPT1½-11½	11½	12.877	80	44.816	
LWHG-NPT2-11½	11½	13.283	90	56.854	
LWHG-NPT2½-8	8	20.498	115	68.044	
LWHG-NPT3-8	8	22.631	135	83.953	
LWHG-NPT3½-8	8	24.028	155	96.661	
LWHG-NPT4-8	8	24.613	175	109.318	
LWHG-NPT5-8	8	26.975	200	136.297	
LWHG-NPT6-8	8	27.508	235	163.137	

德标螺纹极限塞规

Rp Work Plug Gauge



性能特点:Features:

该系列产品设计依据德国标准DIN2999。

Designed for checking the cylinder female thread. It conforms to DIN2999.

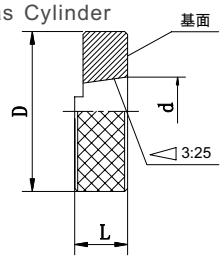
单位（unit）：mm

规格 Thread Size	牙数 T.P.I	L1	L2	D	Order Number
LWSG-R1/8	28	4.01	5.6	9.666	
LWSG-R1/4	19	6.06	8.4	13.065	
LWSG-R3/8	19	6.46	8.8	16.570	
LWSG-R1/2	14	8.22	11.4	20.823	
LWSG-R3/4	14	9.52	12.7	26.309	
LWSG-R1	11	10.46	14.5	33.078	
LWSG-R1¼	11	10.46	14.5	41.739	
LWSG-R1½	11	10.46	14.5	47.632	
LWSG-R2	11	10.96	15.0	59.443.	
LWSG-R2½	11	12.88	17.5	75.015	
LWSG-R3	11	13.88	18.5	87.715	
LWSG-R4	11	15.38	20.0	112.861	

气瓶圆锥光滑环规

Taper Smooth Ring for Gas Cylinder





性能特点:Features:

该系列产品适用于氧气、乙炔气、液化石油气、二氧化碳等钢瓶瓶阀尾部圆锥外螺纹大径、锥度的测量，环规的设计依据国标 GB/T8336-2011。

Designed for checking the taper of the minor diameter of female thread for steel cylinder in which is oxygen, acetylene, LPG, CO2, the standard conforms to GB/T8336-2011.

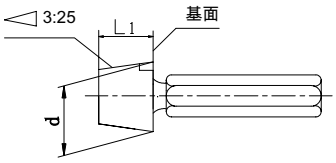
单位（unit）：mm

规格 Thread Size	L1	L2	D
YZHG-PZ19.2	16.00	40	19.2
YZHG-PZ27.8	17.67	48	27.8
YZHG-PZ30.3	17.67	52	30.3
YZHG-PZ39	17.67	60	39

气瓶圆锥光滑环规

Taper Smooth Ring for Gas Cylinder





性能特点:Features:

该系列产品适用于氧气、乙炔气、液化石油气、二氧化碳等钢瓶瓶口圆锥内螺纹小径锥度的测量。塞规的设计依据国标 GB/T8336-2011。

Designed for checking the taper of the minor diameter of female thread for steel cylinder in which is oxygen, acetylene, LPG, CO2, the standard conforms to GB/T8336-2011.

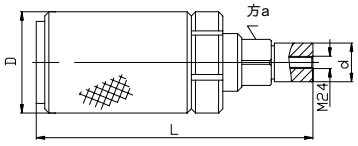
单位（unit）：mm

规格 Thread Size	L1	D
YZSG-PZ19.2	16.00	16.876
YZSG-PZ27.8	17.67	25.476
YZSG-PZ30.3	17.67	27.976
YZSG-PZ39	17.67	36.290

R、NPT 圆锥管螺纹梳刀体

R (NPT) Die Chaser Body





性能特点:Features:

R、NPT 系列圆锥管螺纹梳刀体与本公司生产的 R、NPT 圆锥管螺纹梳刀片配套使用。该系列产品适用于螺纹密封的管螺纹（R、NPT）圆锥外螺纹的加工，加工出的螺纹符合

GB/T7306.2-2000 eqvISO7-1:1994、ASME B1.20.1-1983 和 GB/T12716-2002 标准的要求。Designed for external thread, to equipped with our die chaser. The thread standard conforms to GB/T7306.2-2000 eqv ISO7-1:1994; ASME B1.20.1-1983 and GB/T12716-2002 (NPT).

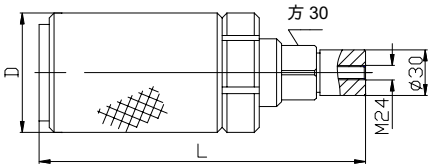
单位（unit）：mm

规格 Thread Size		D	L	a	d	槽数 Flutes	配套用梳刀片尺寸 Die Chaser	Order Number
LWSDT-R1/2	NPT1/2	58	180	30	30	4	85×6×12	
LWSDT-R3/4	NPT3/4	63	180	30	30	4	85×6×12	
LWSDT-R1	NPT1	77	190	30	30	4	95×8×15	
LWSDT-R1¼	NPT1¼	85	190	30	30	4	95×8×15	
LWSDT-R1½	NPT1½	91	190	30	30	4	95×8×15	
LWSDT-R2	NPT2	102	190	30	30	4	95×8×15	
LWSDT-R2½	NPT2½	122	208	50	50	5	100×9.5×16	
LWSDT-R3	NPT3	135	208	50	50	5	100×9.5×16	
LWSDT-R3½	NPT3½	147	220	50	50	6	100×9.5×16	
LWSDT-R4	NPT4	160	220	50	50	6	100×9.5×16	
LWSDT-R5	NPT5	189	230	50	50	8	100×9.5×16	
LWSDT-R6	NPT6	215	230	50	50	8		

R、NPT 圆锥管螺纹梳刀体（刀把式）

R （NPT） Die Chaser Body（Hilt Type）





性能特点:Features:

R、NPT 系列圆锥管螺纹梳刀体（刀把式）与本公司生产的 R、NPT 圆锥管螺纹刀把梳刀片（单独订货）配套使用。该系列产品适用于螺纹密封的管螺纹（R、NPT) 圆锥外螺纹的加工，加工出的螺纹符合 GB/T7306.2-2000 eqv ISO7-1:1994、ASME BI.20.1-1983 和 GB/T12716-2002 标准的要求。

Designed for external thread, to equipped with our die chaser . The thread standard conforms to GB/T7306.2-2000 eqv ISO7-1:1994; ASME BI.20.1-1983 and GB/T12716-2002(NPT).

单位（unit）：mm

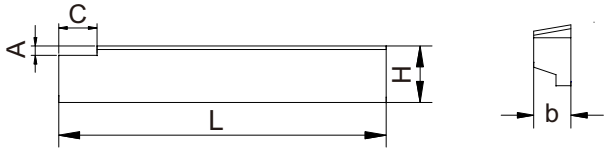
规格 Thread Size		D	L	槽数 Flutes	配套用梳刀片尺寸 Die Chaser	Order Number
LWSDB-R1/8	NPT1/8	56	180	4	80×4×17	
LWSDB-R1/4	NPT1/4	60	180	4	80×6×17	
LWSDB-R3/8	NPT3/8	65	180	4	80×6×17	
LWSDB-R1/2	-	66	185	4	85×6×17	
LWSDB-R3/4	-	72	185	4	85×6×17	

出口梳刀片

Die Chaser for Exporting

LWSDP..





性能特点:Features:

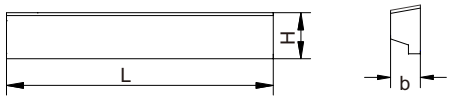
PT 系列、NPT 系列产品适用于螺纹密封的外螺纹的加工，与本公司生产的出口梳刀体配套使用。加工出的螺纹分别符合 GB/T7306.2-2000 eqvISO7-1:1994、ASME BI.20.1-1983 和 GB/T12716-2002 (NPT) 标准的要求。梳刀片的结构尺寸符合日本 SAKAI 标准。

Acccording to the customers, die chaser dimension is same as SAKAI 's and Taiwan's products. The thread standard conforms to GB/T7306.2-2000 eqv ISO7-1:1994, ASME BI.20.1-1983 and GB/T12716-2002 (NPT).

单位（unit）：mm

规格 Thread Size		α		L	b	H	A	C	牙数 T.P.I		Order Number
PT1/4	NPT1/4	55°	60°	55	6.0	13.9	3	10	19	18	

LWSDP..



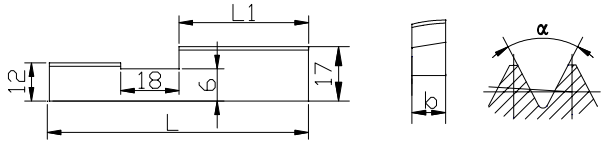
单位（unit）：mm

规格 Thread Size		α		L	b	H	牙数 T.P.I		Order Number
PT1/8	NPT1/8	55°	60°	40	4	13.9	28	27	
PT3/8	NPT3/8	55°	60°	55	6	12.1	19	18	
PT1/2-3/4	NPT1/2-3/4	55°	60°	70	6.5	15.2	14	14	
PT1	NPT1	55°	60°	70	8	15.2	11	11.5	
PT1¼-2	NPT1¼-2	55°	60°	80	8	15.2	11	11.5	
PT2½-4	NPT2½-4	55°	60°	100	8	15.2	11	8	

R、NPT 圆锥管螺纹刀把梳刀片

R (NPT) Die Chaser (Hilt Type)





性能特点:Features:

R 系列、NPT 系列产品适用于螺纹密封的外螺纹的加工，与公司生产的 R、NPT 圆锥管螺纹刀把梳刀体配套使用。加工出的螺纹分别符合GB/T7306.2-2000 eqv ISO7-1:1994 ASME BI.20.1-1983 和GB/T12716-2002 (NPT) 标准的要求。

Designed for external thread, to equipped with our die chaser body. The thread standard conforms to GB/T7306.2-2000 eqv ISO7-1:1994 ; ASME BI.20.1-1983 and GB/T12716-2002(NPT).

LWSDP..

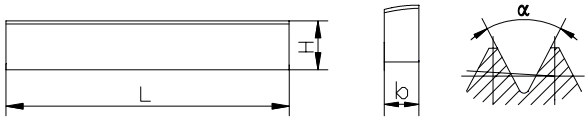
单位（unit）：mm

规格 Thread Size		L	b	L1	α	
R14牙D		85	6	40	55°	
R19牙D	R19牙D	80	6	30	55°	60°
R28牙D	R28牙D	80	6	30	55°	60°

R、NPT 圆锥管螺纹梳刀片

R (NPT) Die Chaser





性能特点:Features:

R系列、NPT系列产品适用于螺纹密封的外螺纹的加工，与公司生产的 R、NPT圆锥管螺纹梳刀体配套使用。加工出的螺纹分别符合GB/T7306.2-2000 eqv ISO7-1:1994 ASME BI.20.1-1983和GB/T12716-2002 (NPT) 标准的要求。

Designed for external thread, to equipped with our die chaser body. The thread standard conforms to GB/T7306.2-2000 eqv ISO7-1:1994 ; ASME BI.20.1-1983 and GB/T12716-2002 (NPT).

LWSDP..

单位（unit）：mm

规格 Thread Size		L	b	H	α		适用范围 Scope
R14牙	NPT14牙	85	6	12	55°	60°	1/2"-3/4"
R11牙	NPT11½牙	95	8	15	55°	60°	1"-2"
R11牙	NPT8牙	110	9.5	16	55°	60°	2¼"-4"

螺纹攻牙下孔径(钻头)参考(1) 公制 the metric system

Hole diameter under thread tapping (bit) reference (1)



丝锥规格 Tap Size	钻头 Drill Size	D1(mm) Min	D1(mm) Max
M1.0× 0.25	0.75	0.729	0.799
0.2	0.8	0.783	0.843
M1.1× 0.25	0.85	0.829	0.899
0.2	0.9	0.883	0.943
M1.2× 0.25	0.95	0.929	0.999
0.2	1.0	0.983	1.043
M1.4× 0.3	1.1	1.075	1.16
0.2	1.2	1.183	1.243
M1.6× 0.35	1.25	1.221	1.321
0.2	1.4	1.383	1.443
M1.7× 0.35	1.35	1.321	1.421
0.2	1.5	1.483	1.543
M1.8× 0.35	1.45	1.421	1.521
0.2	1.6	1.583	1.643
M2.0× 0.4	1.6	1.567	1.679
0.25	1.75	1.729	1.799
M2.2× 0.45	1.75	1.713	1.838
0.25	1.95	1.929	1.999
M2.3× 0.4	1.9	1.867	1.979
0.25	2.05	2.029	2.099
M2.5× 0.45	2.05	2.013	2.138
0.35	2.15	2.121	2.221
M2.6× 0.45	2.15	2.113	2.238
0.35	2.25	2.221	2.321
M3.0× 0.5	2.5	2.459	2.599
0.35	2.65	2.621	2.721
M3.5× 0.6	2.9	2.85	3.010
0.35	3.15	3.121	3.221
M4.0× 0.7	3.3	3.242	3.422
0.5	3.5	3.459	3.599
M4.5× 0.75	3.8	3.688	3.878
M5.0× 0.5	4.0	3.959	4.099
0.8	4.2	4.134	4.334
M5.5× 0.5	4.5	4.459	4.599
M6.0× 0.5	5.0	4.959	5.099
1.0	5.0	4.917	5.153
0.75	5.3	5.188	5.378
M7.0× 0.5	5.5	5.459	5.599
1.0	6.0	5.917	6.153
M8.0× 0.75	6.3	6.188	6.378
0.5	6.4	6.459	6.599
1.25	6.8	6.647	6.912
1.0	7.0	6.917	7.153
M9.0× 0.75	7.3	7.188	7.378
0.5	7.5	7.459	7.599
M10× 1.25	7.8	7.647	7.912
1.0	8.0	7.917	8.153
0.75	8.3	8.188	8.378
1.5	8.5	8.376	8.676
1.25	8.8	8.647	8.912
M11× 1.0	9.0	8.917	9.153
0.75	9.3	9.188	9.378
0.5	9.5	9.459	9.599
1.5	9.6	9.376	9.676
1.0	10.0	9.917	10.153
0.75	10.2	10.188	10.378

丝锥规格 Tap Size	钻头 Drill Size	D1(mm) Min	D1(mm) Max
M12× 1.75	10.2	10.106	10.441
1.5	10.5	10.376	10.676
1.25	108	10.647	10.912
1.0	11.0	10.917	11.153
0.75	11.3	11.188	11.378
0.5	11.5	11.459	11.599
M13× 1.75	11.2	11.106	11.441
M14× 2.0	12.0	11.835	12.210
1.5	12.5	12.376	12.676
1.25	12.8	12.647	12.912
1.0	13.0	12.917	13.153
M15× 2.0	13.0	12.835	13.21
1.5	13.5	13.376	13.676
1.0	14.0	13.917	14.153
M16× 2.0	14.0	13.835	14.21
1.5	14.5	14.376	14.676
1.0	15.0	14.917	15.153
M17× 1.5	15.5	15.376	15.676
1.0	16.0	15.917	16.153
M18× 2.5	15.5	15.294	15.744
2.0	16.0	15.835	16.21
1.5	16.5	16.376	16.676
1.0	17.0	16.917	17.153
M19× 2.5	16.5	16.294	16.744
1.5	17.5	17.376	17.676
1.0	18.0	17.917	18.153
M20× 2.5	17.5	17.294	17.744
2.0	18.0	17.835	18.21
1.5	18.5	18.376	18.676
1.0	19.0	18.917	19.153
M22× 2.5	19.5	19.294	19.744
2.0	20.0	19.835	20.21
1.5	20.5	20.376	20.676
1.0	21.0	20.917	21.153
M23× 2.5	20.5	20.294	20.744
2.0	21.0	20.835	21.21
M24× 3.0	21.0	20.752	21.252
2.0	22.0	21.835	22.21
1.5	22.5	22.376	22.676
1.0	23.0	22.917	23.153
M25× 3.0	22.0	21.752	22.252
2.0	23.0	22.835	23.21
1.5	23.5	23.376	23.676
1.0	24.0	23.917	24.153
M26× 3.0	23.0	22.752	23.252
1.5	24.5	24.376	24.676
M27× 3.0	24.0	23.752	24.252
2.0	25.0	24.835	25.21
1.5	25.5	25.376	25.676
1.0	26.0	25.917	26.153
M28× 3.0	25.0	24.752	25.252
2.0	26.0	25.835	26.21
1.5	26.5	26.376	26.676
1.0	27.0	26.917	27.153

丝锥规格 Tap Size	钻头 Drill Size	D1(mm) Min	D1(mm) Max
M30×3.5	26.5	26.211	26.771
3.0	27.0	26.752	27.252
2.0	28.0	27.835	28.21
1.5	28.5	28.376	28.676
1.0	29.0	28.917	29.153
M32×2.0	30.0	29.835	30.21
1.5	30.5	30.376	30.676
M33×3.5	29.5	29.211	29.771
3.0	30.0	29.752	30.252
2.0	31.0	30.835	31.21
1.5	31.5	31.376	31.676
M35×1.5	33.5	33.376	33.676
M36×4.0	32.0	31.67	32.27
3.0	33.0	32.752	33.252
2.0	34.0	33.835	34.21
1.5	34.5	34.376	34.676
M38×1.5	36.5	36.376	36.676
M39×4.0	35.0	34.67	35.27
3.0	36.0	35.752	36.252
2.0	37.0	36.835	37.21
1.5	37.5	37.376	37.676
M40×3.0	37.0	36.752	37.252
2.0	38.0	37.835	38.21
1.5	38.5	38.376	38.676
M42×4.5	37.5	37.129	37.799
4.0	38.0	37.67	38.27
3.0	39.0	38.752	39.252
2.0	40.0	39.835	40.21
1.5	40.5	40.376	40.676
M45×4.5	40.5	40.129	40.799
4.0	41.0	40.67	41.27
3.0	42.0	41.752	42.252
2.0	43.0	42.835	43.21
1.5	43.5	43.376	43.676
M48×5.0	43.0	42.587	43.297
4.0	44.0	43.67	44.27
3.0	45.0	44.752	45.252
2.0	46.0	45.835	46.21
1.5	46.5	46.376	46.676
M50×3.0	47.0	46.752	47.252
2.0	48.0	47.835	48.21
1.5	48.5	48.376	48.676
M52×5.0	47.0	46.587	47.297
4.0	48.0	47.67	48.27
3.0	49.0	48.752	49.252
2.0	50.0	49.835	50.21
1.5	50.5	50.376	50.676
M55×4.0	51.0	50.67	51.27
3.0	52.0	51.752	52.252
2.0	53.0	52.835	53.21
1.5	53.5	53.376	53.676
M56×5.5	50.5	50.046	50.796
4.0	52.0	51.67	52.27
3.0	53.0	52.752	53.252
2.0	54.0	53.835	54.21
1.5	54.5	54.376	54.676
M60×5.5	54.5	54.046	54.796
M64×6.0	58.0	57.505	58.305
M68×6.0	62.0	61.505	62.305

● D1为内螺纹加工完成后内径允许尺寸之上限/下限值。
D1 is the upper(Max) / lower(Min) limit of the allowable inner diameter after the internal thread is machined.

挤压-螺纹攻牙下孔径(5)

Extrusion - Thread Tapping Lower Bore (5)

咬合率 (%) Occlusion rate (%) = $\frac{\text{外径 - 钻孔直径 Outer diameter - drilling diameter}}{\text{2×牙高 two × Dental height}}$ ×100

标准牙高: Standard tooth height:
公制牙/美制牙 :0.5413P
英制牙 :0.5665P
管牙 :0.6403P
Metric/American Teeth bsw Canal tooth
P:牙距 P: Interdental distance



丝锥规格 Tap Size		精度 Limits	孔径 D1(mm) Min	孔径 D1(mm) Max	咬合率 (%)
0	-80UNF	5	1.39	1.45	65~100
1	-64UNC	5	1.68	1.76	65~100
	-72UNF	5	1.70	1.77	65~100
2	-56UNC	4	1.96	2.04	65~100
	-64UNF	4	1.98	2.06	65~100
3	-48UNC	4	2.25	2.35	65~100
	-56UNF	4	2.29	2.37	65~100
4	-40UNC	5	2.54	2.64	70~100
	-48UNF	5	2.59	2.68	70~100
5	-40UNC	5	2.87	2.97	70~100
	-44UNF	5	2.90	2.99	70~100
6	-32UNC	5	3.11	3.22	75~100
	-40UNF	5	3.19	3.29	70~100
8	-32UNC	6	3.78	3.89	75~100
	-36UNF	5	3.81	3.91	75~100
10	-24UNC	6	4.30	4.44	75~100
	-32UNF	6	4.44	4.53	80~100
12	-24UNC	6	4.96	5.07	80~100
	-28UNF	6	5.03	5.13	80~100
1/4	-20UNC	7	5.73	5.86	80~100
	-28UNF	7	5.91	6.00	80~100
5/16	-18UNC	7	7.23	7.38	80~100
	-24UNF	7	7.42	7.53	80~100
3/8	-16UNC	7	8.72	8.89	80~100
	-24UNF	7	8.99	9.10	80~100
7/16	-14UNC	8	10.20	10.40	80~100
	-20UNF	8	10.48	10.62	80~100
1/2	-13UNC	8	11.70	11.92	80~100
	-20UNF	8	12.06	12.20	80~100

丝锥规格 Tap Size		精度 Limits	孔径 D1(mm) Min	孔径 D1(mm) Max	咬合率 (%)
M1.0×	0.25	4	0.89	0.92	80~100
M1.1×	0.25	4	0.99	1.02	80~100
M1.2×	0.25	4	1.09	1.12	80~100
M1.4×	0.3	4	1.26	1.30	75~100
M1.6×	0.35	4	1.42	1.47	75~100
M1.7×	0.35	4	1.52	1.57	75~100
M1.8×	0.35	4	1.62	1.67	75~100
M2.0×	0.4	4	1.79	1.84	75~100
	0.25	4	1.89	1.92	80~100
M2.2×	0.45	5	1.97	2.04	75~100
M2.3×	0.4	4	2.09	2.14	75~100
M2.5×	0.45	5	2.27	2.34	75~100
	0.35	5	2.34	2.38	75~100
M2.6×	0.45	5	2.37	2.44	75~100
M3.0×	0.5	5	2.75	2.82	75~100
	0.35	5	2.84	2.88	75~100
M3.5×	0.6	5	3.19	3.27	75~100
	0.35	5	3.34	3.38	75~100
M4.0×	0.7	5	3.65	3.72	80~100
	0.5	6	3.76	3.83	75~100
M5.0×	0.8	6	4.59	4.67	80~100
	0.5	6	4.76	4.83	75~100
M6.0×	1.0	7	5.49	5.59	80~100
	0.75	6	5.61	5.69	80~100
M7.0×	1.0	7	6.49	6.59	80~100
	0.75	7	6.62	6.70	80~100
M8.0×	1.25	7	7.36	7.49	80~100
	1.0	7	7.49	7.59	80~100
	0.75	7	7.62	7.70	80~100
M10×	1.5	7	9.22	9.34	85~100
	1.25	7	9.35	9.49	80~100
	1.0	7	9.49	9.59	80~100
M12×	1.75	8	11.09	11.23	85~100
	1.5	8	11.22	11.34	85~100
	1.25	9	11.36	11.50	80~100
	1.0	7	11.49	11.59	80~100
M14×	2. 0	10	12.98	13.14	85~100
	1.5	9	13.22	13.35	85~100
	1.0	8	13.50	13.60	80~100

螺纹攻牙下孔径(钻头)参考(3)

Hole diameter under thread tapping (bit) reference (3)





美制螺纹 (UNC/UNF)

丝锥规格 Tap Size	钻头 Drill Size	D1(mm) Min	D1(mm) Max
0 -80UNF	1.25	1.182	1.305
1 -64UNC	1.55	1.425	1.582
-72UNF	1.55	1.474	1.612
2 -56UNC	1.8	1.695	1.871
-64UNF	1.85	1.756	1.912
3 -48UNC	2.1	1.941	2.146
-56UNF	2.1	2.025	2.197
4 -40UNC	2.3	2.157	2.385
-48UNF	2.4	2.271	2.458
5 -40UNC	2.6	2.487	2.697
-44UNF	2.7	2.551	2.74
6 -32UNC	2.8	2.642	2.895
-40UNF	2.9	2.82	3.022
8 -32UNC	3.4	3.302	3.53
-36UNF	3.5	3.404	3.606
10 -24UNC	3.9	3.683	3.962
-32UNF	4.1	3.963	4.165
12 -24UNC	4.5	4.344	4.597
-28UNF	4.6	4.496	4.724
1/4 -20UNC	5.1	4.979	5.257
-28UNF	5.5	5.36	5.588
5/16 -18UNC	6.6	6.401	6.731
-24UNF	6.9	6.782	7.035
3/8 -16UNC	8	7.798	8.153
-24UNF	8.5	8.382	8.636
7/16 -14UNC	9.4	9.144	9.550
-20UNF	9.9	9.729	10.033
1/2 -13UNC	10.9	10.592	11.023
-20UNF	11.5	11.329	11.607
9/16 -12UNC	12.2	11.989	12.446
-18UNF	12.9	12.751	13.081
5/8 -11UNC	13.6	13.386	13.868
-18UNF	14.5	14.351	14.681
3/4 -10UNC	16.6	16.307	16.840
-16UNF	17.5	17.323	17.678
7/8 -9UNC	19.6	19.177	19.761
-14UNF	20.5	20.27	20.675
1 -8UNC	22.3	21.971	22.606
-12UNF	23.3	23.114	23.571
1-1/8 -7UNC	25	24.638	25.349
-12UNF	26.5	26.289	26.746
1-1/4 -7UNC	28.2	27.813	28.524
-12UNF	29.6	29.464	29.921
1-3/8 -6UNC	30.8	30.353	31.115
-12UNF	32.8	32.639	33.096
1-1/2 -6UNC	34	33.528	34.29
-12UNF	36	35.814	36.271
1-3/4 -5UNC	39.5	38.964	39.827
2 -4-1/2UNC	45.2	44.679	45.593

英制螺纹 (W)

丝锥规格 Tap Size	钻头 Drill Size	D1(mm) Min	D1(mm) Max
W1/8 -40	2.55	2.362	2.591
W3/16 -24	3.7	3.406	3.744
W1/4 -20	5.1	4.914	5.204
W5/16 -18	6.6	6.34	6.67
W3/8 -16	8	7.733	8.113
W7/16 -14	9.4	9.048	9.508
W1/2 -12	10.7	10.31	10.83
W9/16 -12	12.3	11.898	12.418
W5/8 -11	13.7	13.257	13.817
W3/4 -10	16.6	16.178	16.778
W7/8 -9	19.5	19.031	19.691
W1 -8	22.3	21.814	22.514

● D1为内螺纹加工完成后内径允许尺寸之上限/下限值。D1 is the upper(Max) / lower(Min) limit of the allowable inner diameter after the internal thread is machined.

螺纹攻牙下孔径(钻头)参考(4)

Hole diameter under thread tapping (bit) reference (4)





英制平行管用螺纹 PS (Rp)

丝锥规格 Tap Size	钻头 Drill Size	D1(mm) Min	D1(mm) Max
PS1/16 -28	6.5	6.490	6.632
PS1/8 -28	8.5	8.495	8.637
PS1/4 -19	11.4	11.341	11.549
PS3/8 -19	14.9	14.846	15.054
PS1/2 -14	18.6	18.489	18.773
PS3/4 -14	24.0	23.975	24.259
PS1 -11	30.2	30.110	30.472
PS1-1/4 -11	38.8	38.771	39.133
PS1-1/2 -11	44.7	44.664	45.026
PS2 -11	56.5	56.475	56.837

英制锥度管用螺纹 PT (Rc)

丝锥规格 Tap Size	钻孔 Drill Size 铰孔	钻孔 Drill Size 不铰孔	有效螺纹长度(内径)	标准螺纹长度(内径)
PT1/16 -28	6.1	6.2	6.244	6.384
PT1/8 -28	8.1	8.2	8.249	8.388
PT1/4 -19	10.7	11.0	10.962	11.174
PT3/8 -19	14.2	14.5	14.448	14.658
PT1/2 -14	17.6	18.0	17.979	18.263
PT3/4 -14	23.0	23.5	23.378	23.663
PT1 -11	29.0	29.5	29.459	29.822
PT1-1/4 -11	37.5	38.0	37.976	38.339
PT1-1/2 -11	43.4	44.0	43.869	44.232
PT2 -11	54.9	55.5	55.412	55.844

英制平行管用螺纹 PF (G)

丝锥规格 Tap Size	钻头 Drill Size	D1(mm) Min	D1(mm) Max
PF1/16 -28	6.7	6.561	6.843
PF1/8 -28	8.7	8.566	8.848
PF1/4 -19	11.7	11.445	11.890
PF3/8 -19	15.2	14.950	15.395
PF1/2 -14	19.0	18.631	19.172
PF5/8 -14	21.0	20.587	21.128
PF3/4 -14	24.5	24.117	24.658
PF7/8 -14	28.2	27.877	28.418
PF1 -11	30.6	30.291	30.931
PF1-1/8 -11	35.2	34.939	35.579
PF1-1/4 -11	39.2	38.952	39.592
PF1-1/2 -11	45.0	44.845	45.485
PF1-3/4 -11	51.0	50.788	51.428
PF2 -11	57.0	56.656	57.296

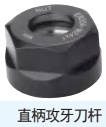
美制管用螺纹 NPT (锥度) / NPS (平行)

丝锥规格 Tap Size	平行 NPS	锥管 NPT (mm) 铰孔	锥管 NPT (mm) 不铰孔
1/16 -27	6.35 (0.250)	5.94 (0.234)	6.15 (0.242)
1/8 -27	8.74 (0.344)	8.33 (0.328)	8.43 (0.332)
1/4 -18	11.13 (0.438)	10.72 (0.422)	11.13 (0.438)
3/8 -18	14.68 (0.578)	14.27 (0.562)	14.27 (0.562)
1/2 -14	18.26 (0.719)	17.48 (0.688)	17.86 (0.703)
3/4 -14	23.42 (0.922)	22.63 (0.891)	23.01 (0.906)
1 -11-1/2	29.36 (1.156)	28.58 (1.125)	28.98 (1.141)
1-1/4 -11-1/2	38.10 (1.500)	37.31 (1.469)	37.69 (1.484)
1-1/2 -11-1/2	44.45 (1.750)	43.26 (1.703)	43.66 (1.719)
2 -11-1/2	56.36 (2.219)	55.17 (2.172)	55.58 (2.188)
2-1/2 -8	67.46 (2.656)	65.48 (2.578)	66.27 (2.609)

美制干密封管用螺纹 NPTF锥度/ NPSF平行

丝锥规格 Tap Size	平行 NPS	锥管 NPT (mm) 铰孔	锥管 NPT (mm) 不铰孔
1/16 -27	6.35 (0.246)	5.94 (0.234)	6.15 (0.242)
1/8 -27	8.61 (0.339)	8.33 (0.328)	8.43 (0.332)
1/4 -18	11.13 (0.438)	10.72 (0.422)	11.13 (0.438)
3/8 -18	14.68 (0.578)	14.27 (0.562)	14.27 (0.562)
1/2 -14	17.86 (0.703)	17.48 (0.688)	17.86 (0.703)
3/4 -14	23.42 (0.922)	22.63 (0.891)	23.01 (0.906)
1 -11-1/2	29.36 (1.156)	28.58 (1.125)	28.98 (1.141)
1-1/4 -11-1/2		37.31 (1.469)	37.69 (1.484)
1-1/2 -11-1/2		43.26 (1.703)	43.66 (1.719)
2 -11-1/2		55.17 (2.172)	55.58 (2.188)
2-1/2 -8		65.48 (2.578)	66.27 (2.609)

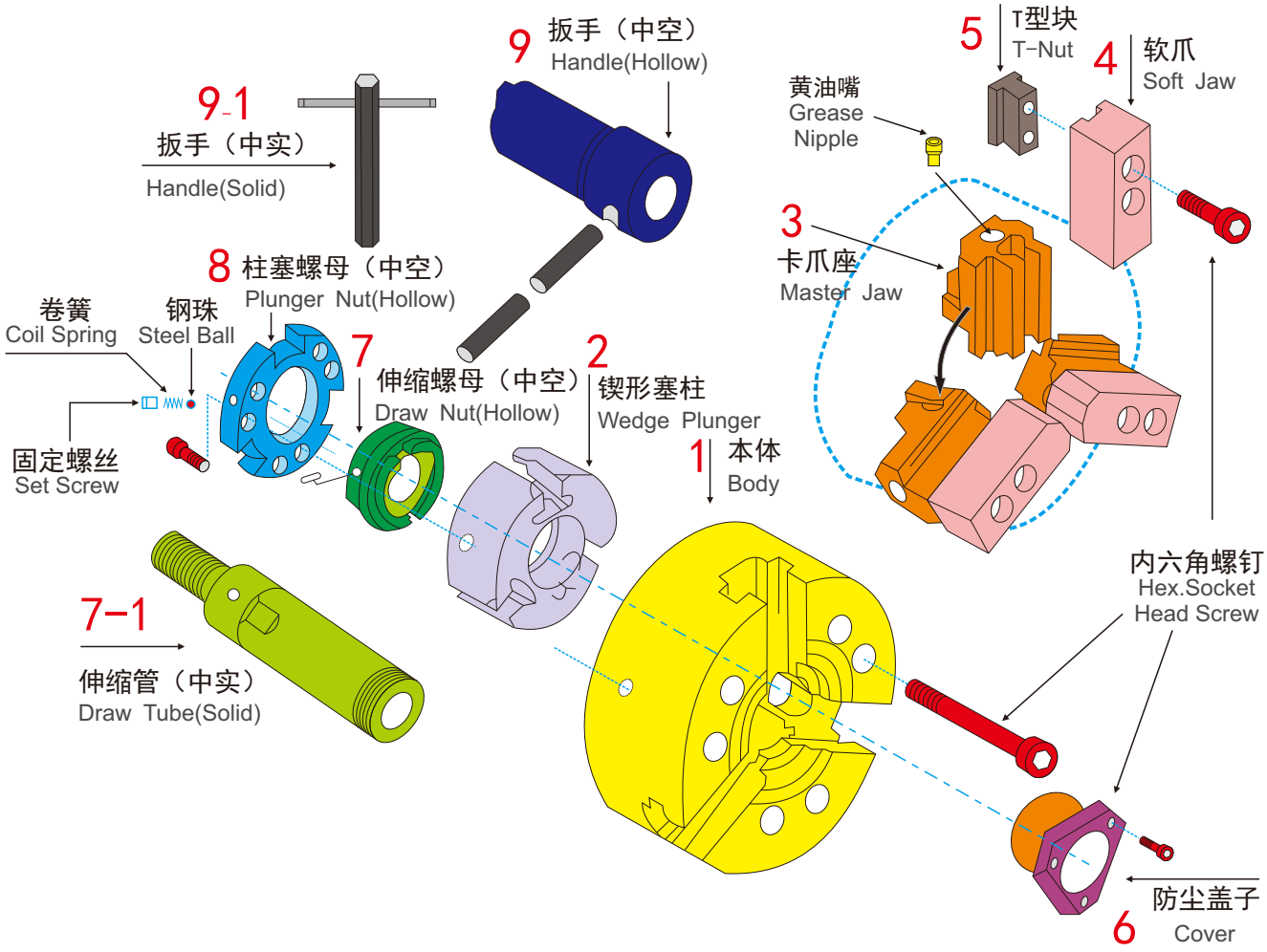
● D1为内螺纹加工完成后内径允许尺寸之上限/下限值。
D1 is the upper(Max) / lower(Min) limit of the allowable inner diameter after the internal thread is machined.

SBL..	SB..	SBS..	SH..	1L..	3GB..	JNL..	JN..
M05	M06	M07	M08	M09	M09	M10	M11
							
液压卡盘 二爪 中空 车床配件	液压卡盘 三爪 中空 车床配件	液压卡盘 四爪 中空 车床配件	液压卡盘 中空高速回转缸 车床配件	液压卡盘 单爪 中实 车床配件	液压卡盘 三爪 杠杆补偿式 车床配件	液压卡盘 二爪 中实 车床配件	液压卡盘 三爪 中实 车床配件
J-Y..	**SBL..KQL**	**SB..KQL**	**SBS..KQL**	**JYS..**	**SB..KQ**	**TS..**	**XZQ..**
M12	M13	M13	M13	M14	M15	M15	M16
							
液压卡盘 中实 高速回转缸 车床配件	气动卡盘 二爪 气动 立式 车床配件	气动卡盘 三爪 气动 立式 车床配件	气动卡盘 四爪 气动 立式 车床配件	液压卡盘 三爪 液压 立式 车床配件	气动卡盘 三爪 气动 车床配件	气动卡盘 高速回转气缸 车床配件	卡盘配件 卡盘修整器 车床配件
T形块	**法兰盘**	**法兰盘**	**扇形软爪**	**软爪**	**刀套**	**SHB..**	**侧固式延长杆**
M17	M17	M17	M17	M18	M19	M20	M20
							
卡盘配件 卡盘T型连接块 车床配件	卡盘配件 卡盘连接盘 车床配件	卡盘配件 硬爪 车床配件	卡盘配件 扇形软爪 车床配件	卡盘配件 标准/加高软爪 车床配件	车床刀套 高精度套筒 车床配件	车床刀套 小径刀套 车床配件	侧固延长杆 小径刀套 车床配件
SBHA..	**CCYS..**	**车刀压紧块**	**排刀刀座**	**双工位刀座**	**中心钻刀杆**	**方变圆刀套**	**L型排刀座-圆**
M20	M20	M21	M21	M21	M21	M21	M22
							
车床刀座 方柄变圆柄 车床配件	车床刀座 刀座延伸 车床配件	车床刀座 车刀压紧块 车床配件	车床刀座 排刀刀座 车床配件	车床刀座 双工位车床刀座 车床配件	车床刀座 中心钻刀杆 车床配件	车床刀座 方变圆防振刀套 车床配件	车床刀座 L型排刀座-圆孔输出 车床配件
L型排刀座-方	**车床刀塔刀座**	**车床刀塔刀座**	**车床刀塔刀座**	**车床延长杆**	**刀塔出水铜咀**	**刀塔出水铜咀**	**拉料器-方柄**
M22	M22	M22	M22	M23	M23	M23	M24
							
车床刀座 L型排刀座-方型输出 车床配件	车床刀座 数控车床刀塔刀座 车床配件	车床刀座 数控车床刀塔刀座 车床配件	车床刀座 数控车床刀塔刀座 车床配件	车床夹头 精密车床延长杆 车床配件	车床刀座 车床刀塔出水铜咀 车床配件	车床刀座 车床刀塔出水铜咀 车床配件	车床拉料器 方柄 车床配件
拉料器-圆柄	**后拉式夹头**	**后拉式夹头座**	**前推式夹头**	**前推式夹头座**	**前推内撑夹头**	**后拉内撑夹头**	**重型内撑夹头**
M24	M25	M25	M25	M26	M25	M26	M26
							
车床拉料器 圆柄 车床配件	车床夹头 标准后拉式夹头 车床配件	车床夹头 标准后拉式夹头座 车床配件	车床夹头 标准前推式夹头 车床配件	车床夹头 标准前推式夹头座 车床配件	车床夹头 前推式内撑夹头 车床配件	车床夹头 后拉式内撑夹头 车床配件	车床夹头 重型内撑夹头 车床配件
橡胶夹头	**橡胶夹头座**	**走心机夹头**	**背面钻孔座**	**背面钻孔座**	**背面钻孔座**	**直柄攻牙刀杆**	**直柄攻牙刀杆**
M26	M26	M27	M28	M29	M29	M30	M30
							
车床夹头 精密橡胶夹头 车床配件	车床夹头 精密橡胶夹头座 车床配件	走心机夹头、导套、备夹 精密车床夹头	背面钻孔座 精密车床夹头	背面钻孔座 中心出水 精密车床夹头	背面钻孔座 精密车床夹头	直柄攻牙刀杆 直柄攻牙刀杆STB型 精密车床夹头	直柄攻牙刀杆 直柄攻牙刀杆ER型 精密车床夹头
直柄攻牙刀杆	**ER20-1端**	**ER20-2侧**	**ER20-2端**	**ER20-3侧**	**ER20-3端**	**ER20-4端4侧**	**回转式气压夹头**
M30	M31	M31	M31	M31	M31	M32	M33
							
直柄攻牙刀杆 直柄攻牙刀杆ER螺帽 精密车床夹头	ER轴动力装置 ER20-1端 车床配件	ER轴动力装置 ER20-2侧 车床配件	ER轴动力装置 ER20-2端 车床配件	ER轴动力装置 ER20-3侧 车床配件	ER轴动力装置 ER20-3端 车床配件	ER轴动力装置 ER20-4端4侧 车床配件	气动卡盘 回转式气压夹头 车床配件

强力超薄夹头	方型超薄夹头	三爪手动卡盘	四爪手动卡盘	六爪手动卡盘	八爪手动卡盘	强力三爪	直装三爪
M34 	M34 	M35 	M35 	M35 	M35 	M36 	M36 
手动卡盘	手动卡盘	手动卡盘	手动卡盘	手动卡盘	手动卡盘	手动卡盘	手动卡盘
强力超薄夹头	方型超薄夹头	三爪 手动	三爪 手动	三爪 手动	三爪 手动	三爪 强力 手动	三爪 直装 手动
车床配件	车床配件	车床配件	车床配件	车床配件	车床配件	车床配件	车床配件
强力联动四爪	齿式 二爪	齿式 三爪	三爪钢壳可调	四爪钢壳可调	可调强力二爪	可调强力三爪	可调强力四爪
M36 	M37 	M37 	M37 	M37 	M38 	M38 	M38 
手动卡盘	手动卡盘	手动卡盘	手动卡盘	手动卡盘	手动卡盘	手动卡盘	手动卡盘
四爪 联动 强力	二爪 齿式	三爪 齿式	三爪 可调式 钢壳	四爪 可调式 钢壳	可调式二爪强力钢壳	可调式三爪强力钢壳	可调式四爪强力钢壳
车床配件	车床配件	车床配件	车床配件	车床配件	车床配件	车床配件	车床配件
汽车轮毂夹头	汽车轮毂夹头	汽车轮毂夹头	轮毂夹头油缸	回转顶针	重型回转顶针	伞形回转顶针	固定式顶针
M39 	M39 	M40 	M40 	M41 	M42 	M43 	M43 
液压卡盘	液压卡盘	液压卡盘	液压卡盘	高速回转顶针	高速回转顶针	高速回转顶针	回转顶针
汽车轮毂夹头	汽车轮毂夹头	汽车轮毂夹头	汽车轮毂夹头油缸	回转顶针	重型回转顶针	伞形回转顶针	固定式顶针
车床配件	车床配件	车床配件	车床配件	车床配件	车床配件	车床配件	车床配件

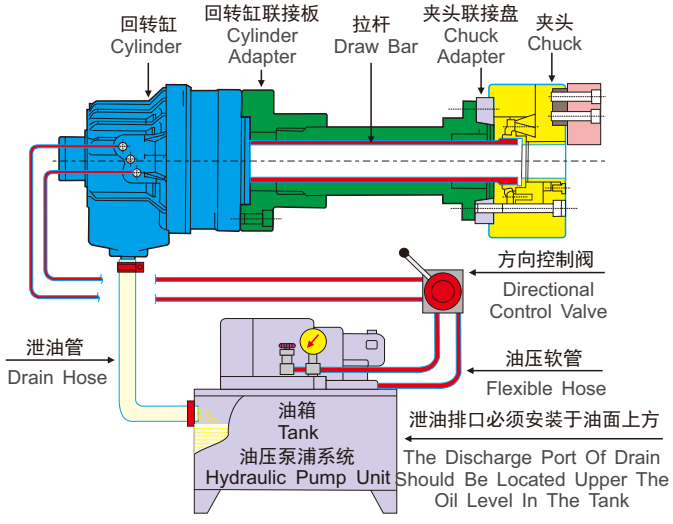
液压卡盘装配图

Hydraulic Chuck Assembly Diagram



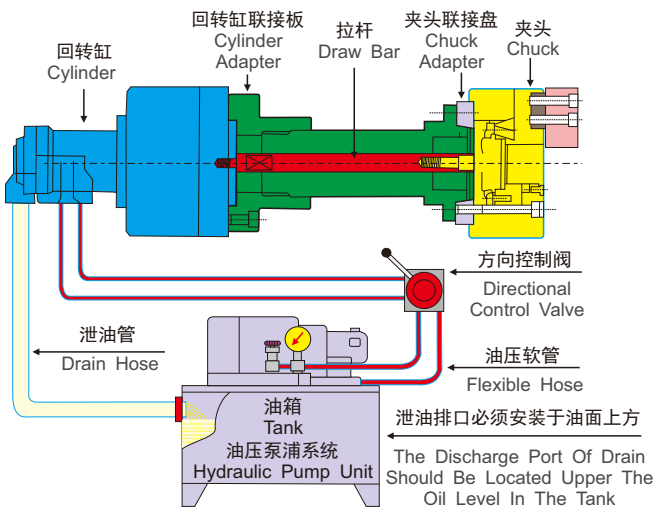
中空卡盘连接示意

Through Hole Type



中实卡盘连接示意

Non-Through Hole Type



1. 注意事项 For Safe Operation

警 告 WARNING　危 险 DANGER

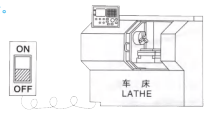
请详细阅读本说明书，并依照指示说明操作。若未依照指示，错误的使用夹头而引起的损伤或意外事故，本公司概不负责。

Please operation the product according to the instructions carefully and read it carefully. We cannot assume responsibility for damage or accidents caused by misuse of the chuck, through noncompliance with the safety instruction.

1. 1. 在安装、检查或润滑夹头时，务必关掉所有电源，确保操作者安全。

1.1.SWITCH OFF power before setting,inspecting,lubricating or changing the chuck,to ensure operator's safety.

易发生身体或衣物卷入等意外事故。
Failing to do so could cause catching the operator or clothing in a machine.



1. 2. 当主轴回转时　切勿操作切换阀和电磁阀。

1.2.Never operate the selector valve and the solenoid valve during the spindle rotation.

主爪关
JAW CLOSED
DANGER
主爪开
JAW OPEN

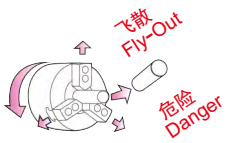


1. 3. 夹头的回转速度　切勿超过容许的最高限度。

1.3.Don't exceed the recommended speed of the chuck.

回转数增加时　离心力相对增加　而降低夹持力
易导致工件飞散产生危险　固需依切削条件选择适当的转速。

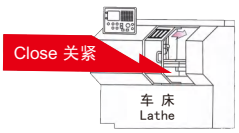
Rotary speed and centrifugal force increase at the same time. You may cause the work piece fly out by decreasing the gripping force.
So you should choose the suitable speed according to the cutting conditions.



1. 4. 未关好安全门之前，切勿启动主轴开关。

1.4.Don't start the spindle before closing the machine door.

避免工件或夹爪因关门而飞出。
Work piece or jaw may fly out while the door opening.

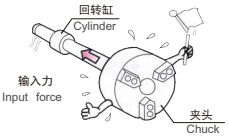


1. 5. 不可超过拉杆容许之允许值。

1.5.Don't exceed the max allowable of plunger input force.

如拉杆输入力超过容许允许值，
将致使夹头变形或破裂之危险。

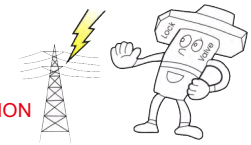
If input force of plunger is exceeded, chuck may be deformed or broken.

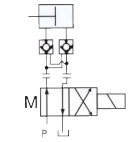


1. 6. 某些型号的回转缸内建有“逆止阀”机构，当电源意外中断时，能防止回转缸内部压力骤降，保持稳固的夹持。

1.6.In case of power failure,some cylinders are fitted with check valves and pressure relief valves.When power is restored,the solenoid valve resumes its normal function.

停电时丧失夹持力，致使工件飞散产生危险。
If power interruption may cause fly-out of the work piece.

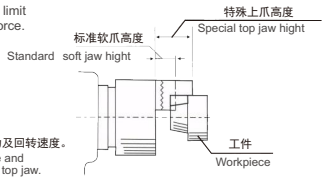




设定工件在正确的夹持位置
Set the work piece to the correct gripping position.

1. 7. 软爪的高度，必须在允许夹持力的限制范围。

1.7.Soft jaw's high must in the limit range of the max gripping force.



使用加高软爪是，需降低油压压力及回转速度。
You should reduce the input force and rotating speed while using higher top jaw.

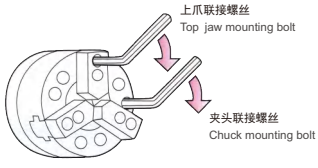


需降压
DOWN

1. 8. 联接螺丝请依照附表所指定之力矩锁紧。

1.8.Secure tightening bolts with specified torque.

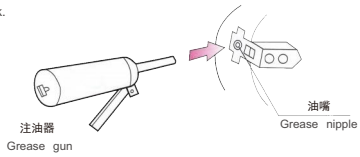
螺丝规格 Bolt Size	锁紧力矩 Tightening Torque
M6	12.7Nm.(1.3kgf.m)
M8	38.2Nm.(3.9kgf.m)
M10	72.6Nm.(7.4kgf.m)
M12	106.8Nm.(10.9kgf.m)
M14	170.6Nm.(17.4kgf.m)
M16	250.0Nm.(25.5kgf.m)
M20	402.1Nm.(41.0kgf.m)
M22	539.4Nm.(55.0kgf.m)



1. 9. 应确保给油。

1.9.Don't miss to lubricate chuck.

给油不足，会降低夹持力
Lowering gripping force caused by the shortage of oil.

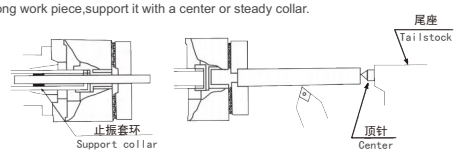


1. 10. 车削长工件物时，必须以尾座顶心或止振套环支撑。

1.10.When machining a long work piece,support it with a center or steady collar.

太长而没有辅助支撑之工件，会有飞散之危险。

Danger by fly-out of work piece,if it is too long and do not be supported.

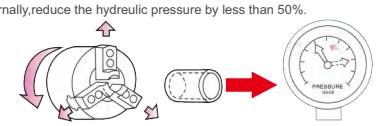


1. 11. 工件加工以内径夹持时，需将油压力降低至正常的50%以下。

1.11.When chucking components internally,reduce the hydreulic pressure by less than 50%.

如未降低油压力，可能会因夹持力与离心力的变重作用而使工件或夹头受损。

If have no down the hydraulic pressure,may cause the jaw or the work piece broken.



需降压
DOWN

1. 12. 不可随意改造夹头。

1.12.Don't attempt to modify the chuck.

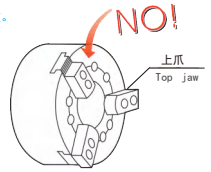
不当改造会损坏夹头机能而发生危险。
Danger by function damaged of chuck.



1. 13. 安装上爪时，三爪之锁紧位置必须相同，三爪之重量则尽量一致。

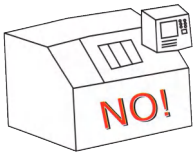
1.13.When mounting the top jaw on the chuck,the position shoud be the same,and mass of each jaw is as much as possible.

动力平衡差异过大，易造成机台震动，影响加工精度。
Unbalanced mass will cause larger vibration of the machine,thus in poor accuracy.



1. 14. 操作机器前，请勿喝酒或服用麻醉性药物。

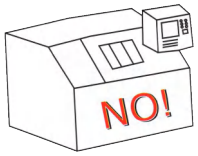
1.14.Never attempt to operate machine while under take alcohol or drugs.





1. 15. 操作机器时，请勿穿戴手套或领带。

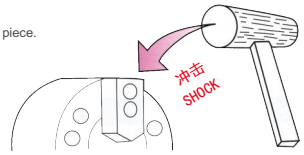
1.15.Never attempt to operate machine with gloves and necktie worn.





1. 16. 不可敲击夹头，夹爪或夹持之工件。

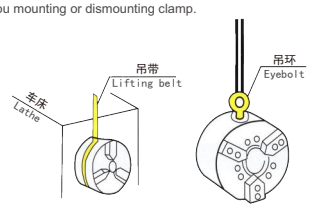
1.16.Never hammer chuck, jaws or clamped work piece.



1. 17. 拆装夹头时，务必使用吊带或吊环。

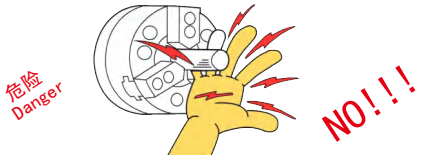
1.17.Have to using eyebolt or lifting belt, when you mounting or dismounting clamp.

不使用吊带将产生危险
Without lifting belt will cause danger



1. 18. 夹持工件时，请注意不要被夹到手。

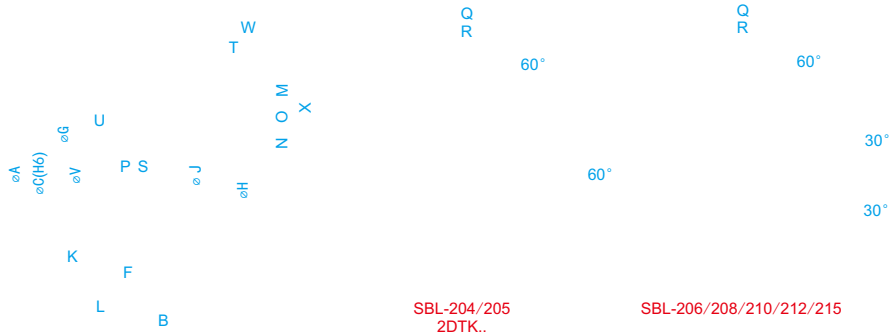
1.18.When clamping work piece, make sure your hand not to be hurt.



SBL. . 二爪中空液压卡盘

2-Jaw High Speed Hollow Power Chucks





>> Dimensions（mm）

编码 Order
701100
701102
701104
701106
701108
701110
701112

Dimensions 规格 尺寸 / Type	通孔直径 Thru-Hole Dia	柱塞行程 Plunger Stroke	爪行程-直径 Jaw Stroke Dia	容许转速 Max. Speed r. p. m（min^{-1}）	容许拉力 Max Pull Force kgf（KN）	静夹持力 Max Gripping Force kgf（KN）	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	Max	许用压力 Max Pressure kgf/cm^2(Mpa)	重量 Weight（kg）	单价 Price（RMB）
												9000
												8300
												9300
												10300
												14000
												19300
												30000

2DTK. . 二爪中空大通孔液压卡盘 2-Jaw Large Thru-Hole Power Chucks

>> Dimensions（mm）

Dimensions 规格 尺寸 / Type	A	B	C h6	F	G	H	J	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	编码 Order
2DTK-206	168	81	140	5	116	104.8	45	6-M10×1.5P	16	20	32.0	29.25	24	7	11	-1	31	12	19	2	M60×2.0P	20	37	73	701500
2DTK-208	210	91	170	5	150	133.4	52	6-M12×1.75P	18	25	38.7	35.0	30	10	14.5	-1.6	36	14	20	2	M75×2.0P	30	39	95	701502
2DTK-210	254	100	220	5	190	171.4	75	6-M16×2P	19	30	51.0	46.6	34	12	8.5	-10.5	40	16	25	2	M95×2.0P	40	43	110	701504

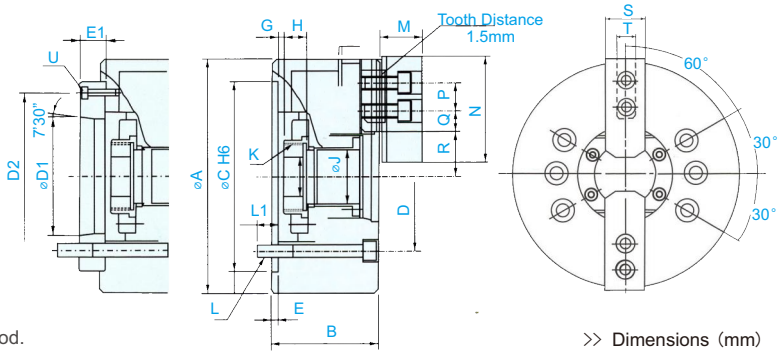
Dimensions 规格 尺寸 / Type	通孔直径 Thru-Hole Dia	柱塞行程 Plunger Stroke	爪行程-直径 Jaw Stroke Dia	容许转速 Max. Speed r. p. m（min^{-1}）	容许拉力 Max Pull Force kgf（KN）	静夹持力 Max Gripping Force kgf（KN）	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	Max	许用压力 Max Pressure kgf/cm^2(Mpa)	重量 Weight（kg）	单价 Price（RMB）
2DTK-206	52.0	12	5.5	6000	1400（14）	3750（37）	SH1246	14	168	18.5（1.8）	13.0	13800
2DTK-208	66.0	16	7.4	4800	2200（22）	5700（56）	SH1552	16	210	17.0（1.7）	22.5	15900
2DTK-210	85.0	19	8.8	4200	2800（27）	7420（73）	SH1875	31	254	18.0（1.8）	35.5	17900

2JDB. . 二爪中空大行程液压卡盘

2-Jaw Large Stroke Power Chucks

1. 曲柄型二爪超大贯穿通孔径，超长爪行程。
2. 滑动面均经硬化及精密研磨，并直接润滑。
3. 高刚性结构及高夹持精度。
4. 安装联接方式与中空夹头一样，且可与之相容交换，不必更改拉杆。

1.crank type 2 jaw super large through hole,super long claw stroke.
2.sliding surfaces are hardened and precision lapping and lubricated directly.
3.high rigidity structure and high clamping accuracy.
4.the way of installation and connection is the same as the hollow chuck, and it can be exchanged with it without changing the pull rod.



>> Dimensions（mm）

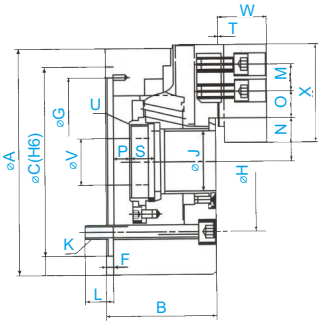
Dimensions 规格 尺寸 / Type	A	B	C h6	D	D1	D2	E	E1	F	G max	G min	H	J	K max	L	L1	M	N	P	Q max	Q min	编码 Order
2JDB-206	168	84	140	104.78	82.563	116	5	18	45	6.5	-8.5	19	45	M55×2.0P	6-M10	15	37	73	20	25.75	13.75	701550
2JDB-208	210	96	170	133.35	106.375	150	5	23	52	7	-13	20	52	M60×2.0P	6-M12	18	38	95	25	28.25	16.25	701552
2JDB-210	254	110	220	171.45	139.719	190	5	18	75	8	-17	25	75	M85×2.0P	6-M16	22	43	110	30	35.25	17.25	701554

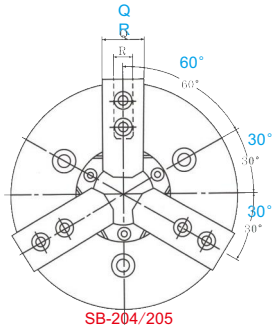
Dimensions 规格 尺寸 / Type	R max	R min	S	T	U	锲心行程 Block Stroke	爪行程 Jaw Stroke Dia	容许推力 Max Thrust Force(kgf)	夹持力 Max Gripping Force(kgf)	许用压力 Max Pressure kgf/cm^2	容许转速 Max. Speed r. p. m（min^{-1}）	惯性矩 Inertia kg/m^2	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	Max	重量 Weight（kg）	单价 Price（RMB）
2JDB-206	39	27	31	12	3-M6	13	26	1600	1760	18	3600	0.061	SH1246	10	168	14.4	13900
2JDB-208	49.25	33.25	35	14	3-M6	16	28	2330	2750	17	3000	0.167	SH1552	10	210	23.1	16000
2JDB-210	64.25	45.25	40	16	3-M8	22	32	3240	3800	18	2400	0.338	SH1875	18	254	42.5	18000

SB.. 三爪中空液压卡盘

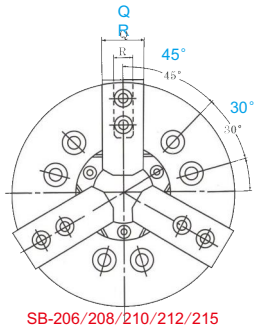
3-Jaw High Speed Hollow Power Chucks







SB-204/205
3DTK..



SB-206/208/210/212/215

1.是一种中心通孔油压驱动卡盘，适用于加工长条棒类等广泛的零件，能更换硬爪，使用法兰盘联接；
2.在自动化应用中，机械臂可以快捷的装卸工件。

1.It is a center through-hole hydraulic drive chuck, suitable for processing a wide range of parts, such as bar, can replace the hard claw, using flange connection;
2.in automation applications, the manipulator can quickly load and unload workpieces.

>> Dimensions (mm)

Dimensions 规格 Type / 尺寸	A	B	C h6	F	G	H	J	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	编码 Order
SB-204	110	59	85	4	–	70.6	26	3-M10×1.5P	–	14	23.1	20.1	11.5	6.7	3.5	−6.5	23	10	17.5	2	M32×1.5P	12	24	49.5	701200
SB-205	135	60	110	4	96	82.6	33	6-M10×1.5P	15	14	26.5	23.8	19	6	1	−9	25	10	19	2	M40×1.5P	12	31.5	62	701202
SB-206	168	81	140	5	116	104.8	45	6-M10×1.5P	16	20	32.0	29.25	24	7	11	−1	31	12	19	2	M55×2.0P	20	37	73	701204
SB-208	210	91	170	5	150	133.4	52	6-M12×1.75P	18	25	38.7	35.0	30	10	14.5	−1.5	35	14	20	2	M60×2.0P	30	39	95	701206
SB-210	254	100	220	5	190	171.4	75	6-M16×2P	19	30	51.0	46.6	34	12	8.5	−10.5	40	16	25	2	M85×2.0P	40	43	110	701208
SB-212	304	110	220	6	190	171.4	91	6-M16×2P	25	30	61.3	56.0	46	12	8	−15	50	21	28	2	M100×2P	50	51	129	701210
SB-215	381	133	300	6	260	235.0	117.5	6-M20×2.5P	28	43	82.7	77.4	46	13	8	−15	62	22	42.5	5	M130×2P	60	66	165	701212

Dimensions 规格 Type / 尺寸	通孔直径 Thru-Hole Dia	柱塞行程 Plunger Stroke	爪行程-直径 Jaw Stroke Dia	容许转速 Max. Speed r.p.m (min⁻¹)	容许拉力 Max Pull Force kgf (KN)	静夹持力 Max Gripping Force kgf (KN)	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	许用压力 Max Pressure kgf/cm²(Mpa)	重量 Weight (kg)	单价 Price (RMB)
SB-204	26.0	10	5.4	8000	1428 (14)	2850 (28)	SH1036	7	110	24 (2.3)	3.8	9000
SB-205	33.0	10	5.4	7000	1730 (17)	3550 (35)	SH1036	10	135	29 (2.8)	6.0	8000
SB-206	45.0	12	5.5	6000	2140 (21)	5700 (56)	SH1246	13	168	28 (2.7)	12.5	9000
SB-208	52.0	16	7.4	4800	3350 (33)	8350 (82)	SH1552	16	210	26 (2.5)	22.0	10000
SB-210	75.0	19	8.8	4200	4280 (42)	11000 (108)	SH1875	25	254	27 (2.6)	33.6	14000
SB-212	91.0	23	10.6	3300	5500 (55)	14300 (140)	SH2091	23	304	27 (2.6)	55.3	19300
SB-215	117.5	23	10.6	2500	7200 (71)	18200 (178)	SH2511	42	381	25 (2.4)	106.8	30000

3DTK.. 三爪中空大通孔液压卡盘 3-Jaw Large Thru-Hole Power Chucks

>> Dimensions (mm)

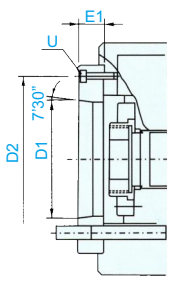
Dimensions 规格 Type / 尺寸	A	B	C h6	F	G	H	J	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	编码 Order
3DTK-206	168	140	140	5	116	104.8	45	6-M10×1.5P	15	20	32.0	29.25	24	7	11	−1	31	12	19	2	M60×2.0P	20	37	73	701510
3DTK-208	210	170	170	5	150	133.4	52	6-M12×1.75P	16	25	38.7	35.0	30	10	14.5	−1.6	35	14	20	2	M75×2.0P	30	39	95	701512
3DTK-210	254	220	220	5	190	171.4	75	6-M16×2P	16	30	51.0	46.6	34	12	8.5	−10.5	40	16	25	2	M95×2.0P	40	43	110	701514

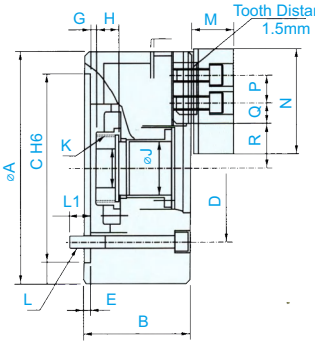
Dimensions 规格 Type / 尺寸	通孔直径 Thru-Hole Dia	柱塞行程 Plunger Stroke	爪行程-直径 Jaw Stroke Dia	容许转速 Max. Speed r.p.m (min⁻¹)	容许拉力 Max Pull Force kgf (KN)	静夹持力 Max Gripping Force kgf (KN)	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	许用压力 Max Pressure kgf/cm²(Mpa)	重量 Weight (kg)	单价 Price (RMB)
3DTK-206	52.0	12	5.5	6000	2140 (21)	5700 (56)	SH1246	13	168	28 (2.7)	12.5	13800
3DTK-208	66.0	16	7.4	4800	3350 (33)	8350 (82)	SH1552	16	210	26 (2.5)	22.0	15900
3DTK-210	85.0	19	8.8	4200	4280 (42)	11000 (108)	SH1875	25	254	27 (2.6)	33.6	17900

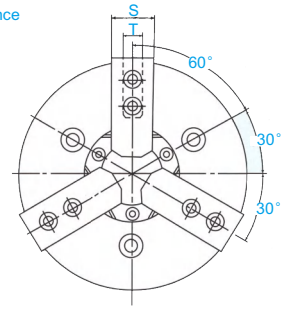
3JDB.. 三爪中空大行程液压卡盘

3-Jaw Large Stroke Power Chucks

1.曲柄型二爪超大贯穿通孔径，超长爪行程。
2. 滑动面均经硬化及精密研磨，并直接润滑。
3. 高刚性结构及高夹持精度。
4. 安装联接方式与中空夹头一样，且可与之相容交换，不必更改拉杆。







1.crank type 3 jaw super large through hole,super long claw stroke.
2.sliding surfaces are hardened and precision lapping and lubricated directly.
3.high rigidity structure and high clamping accuracy.
4.the way of installation and connection is the same as the hollow chuck, and it can be exchanged with it without changing the pull rod.

>> Dimensions (mm)

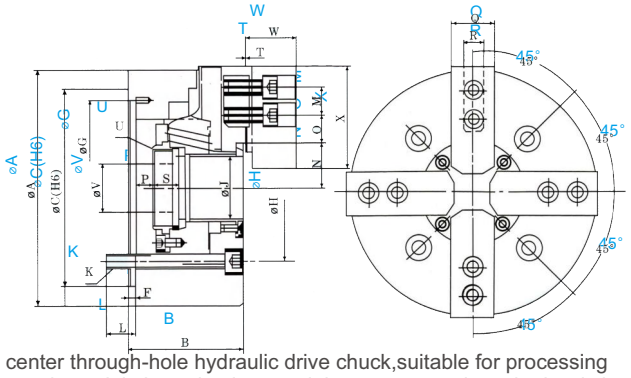
Dimensions 规格 Type / 尺寸	A	B	C h6	D	D1	D2	E	E1	F	G max	G min	H	J	K max	L	L1	M	N	P	Q max	Q min	编码 Order
3JDB-206	168	97	140	104.78	82.563	116	5	18	45	6.5	-8.5	19	45	M55×2.0P	6-M10	15	37	73	20	25.75	13.75	701560
3JDB-208	210	114	170	133.35	106.375	150	5	23	52	7	-13	20	52	M60×2.0P	6-M12	18	38	95	25	28.25	16.25	701562
3JDB-210	254	123	220	171.45	139.719	190	5	18	75	8	-17	25	75	M85×2.0P	6-M16	22	43	110	30	35.25	17.25	701564

Dimensions 规格 Type / 尺寸	R max	R min	S	T	U	锲心行程 Block Stroke	爪行程 Jaw Stroke Dia	容许推力 Max Thrust Force(kgf)	夹持力 Max Gripping Force(kgf)	许用压力 Max Pressure kgf/cm²	容许转速 Max. Speed r.p.m (min⁻¹)	惯性矩 Inertia kg/m²	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	重量 Weight (kg)	单价 Price (RMB)
3JDB-206	39	27	31	12	3-M6	13	26	2400	2650	27	3600	0.063	SH1246	10	168	15.5	13900
3JDB-208	49.25	33.25	35	14	3-M6	16	28	3500	4150	26	3000	0.175	SH1552	10	210	25.5	16000
3JDB-210	64.25	45.25	40	16	3-M8	22	32	4870	5700	27	2400	0.347	SH1875	18	254	43.9	18000

SBS. . 四爪中空液压卡盘

4-Jaw High Speed Hollow Power Chucks





1. 是一种中心通孔油压驱动的卡盘，适用于加工方型和异型长条材料的零件，能更换硬爪；
2. 在自动化应用中，机械臂可以快捷的装卸工件。

1.It is a center through-hole hydraulic drive chuck,suitable for processing square and special-shaped strip material parts, can replace the hard claw.
2.in automation applications, the manipulator can quickly load and unload workpieces.

>> Dimensions（mm）

Dimensions 规格 Type 尺寸	A	B	C h6	F	G	H	J	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	编码 Order
SBS-205	135	60	110	4	96	82.6	33	4-M10×1.5P	15	14	28.5	23.8	19	6	1	-9	25	10	19	2	M40×1.5P	12	31.5	62	701298
SBS-206	168	81	140	5	116	104.8	45	6-M10×1.5P	16	20	32.0	29.3	24	7	11	-1	31	12	19	2	M55×2.0P	20	37	73	701300
SBS-208	210	91	170	5	150	133.4	52	6-M12×1.75P	18	25	38.7	35.0	30	10	14.5	-1.5	35	14	20	2	M60×2.0P	30	39	95	701302
SBS-210	254	100	220	5	190	171.4	75	6-M16×2P	19	30	51.0	46.6	34	12	8.5	-10.5	40	16	25	2	M85×2.0P	40	43	110	701304
SBS-212	304	110	220	6	190	171.4	91	6-M16×2P	25	30	61.3	56.0	46	12	8	-15	50	21	28	2	M100×2P	50	51	129	701306
SBS-215	381	133	300	6	260	235.0	117.5	6-M20×2.5P	28	43	82.7	77.5	46	13	8	-15	62	22	42.5	5	M130×2P	60	66	165	701308

Dimensions 规格 Type 尺寸	通孔直径 Thru-Hole Dia	柱塞行程 Plunger Stroke	爪行程-直径 Jaw Stroke Dia	容许转速 Max. Speed r. p. m（min⁻¹）	容许拉力 Max Pull Force kgf（KN）	静夹持力 Max Gripping Force kgf（KN）	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	许用压力 Max Pressure kgf/cm²(Mpa)	重量 Weight（kg）	单价 Price（RMB）
SBS-205	33.0	10	5.4	7000	1730（17）	3550（35）	SH1036	10	135	29(2.8)	6.0	9000
SBS-206	45.0	12	5.5	6000	1630（16）	4180（41）	SH1246	22	168	21(2.1)	14.2	10600
SBS-208	52.0	16	7.4	4800	2440（24）	6000（59）	SH1552	25	210	19(1.9)	24.5	12000
SBS-210	75.0	19	8.8	4200	3160（31）	8000（78）	SH1875	26	254	20(2.0)	38.0	16000
SBS-212	91.0	23	10.6	3300	4080（40）	10400（102）	SH2091	35	304	20(2.0)	60.5	21600
SBS-215	117.5	23	10.6	2500	5400（53）	13600（133）	SH2511	63	381	19(1.9)	111.5	30000

4DTK. . 四爪中空大通孔液压卡盘

4-Jaw Large Thru-Hole Power Chucks

>> Dimensions（mm）

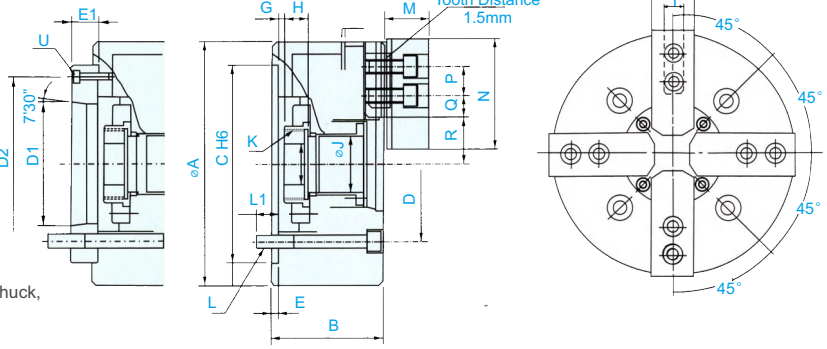
Dimensions 规格 Type 尺寸	A	B	C h6	F	G	H	J	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	编码 Order
4DTK-206	168	81	140	5	116	104.8	45	6-M10×1.5P	16	20	32.0	29.3	24	7	11	-1	31	12	19	2	M55×2.0P	20	37	73	701520
4DTK-208	210	91	170	5	150	133.4	52	6-M12×1.75P	18	25	38.7	35.0	30	10	14.5	-1.5	35	14	20	2	M60×2.0P	30	39	95	701522
4DTK-210	254	100	220	5	190	171.4	75	6-M16×2P	19	30	51.0	46.6	34	12	8.5	-10.5	40	16	25	2	M85×2.0P	40	43	110	701524

Dimensions 规格 Type 尺寸	通孔直径 Thru-Hole Dia	柱塞行程 Plunger Stroke	爪行程-直径 Jaw Stroke Dia	容许转速 Max. Speed r. p. m（min⁻¹）	容许拉力 Max Pull Force kgf（KN）	静夹持力 Max Gripping Force kgf（KN）	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	许用压力 Max Pressure kgf/cm²(Mpa)	重量 Weight（kg）	单价 Price（RMB）
4DTK-206	52.0	12	5.5	6000	1630（16）	4180（41）	SH1246	22	168	21(2.1)	14.2	15500
4DTK-208	66.0	16	7.4	4800	2440（24）	6000（59）	SH1552	25	210	19(1.9)	24.5	17900
4DTK-210	85.0	19	8.8	4200	3160（31）	8000（78）	SH1875	26	254	20(2.0)	38.0	20000

4JDB. . 四爪中空大行程液压卡盘

4-Jaw Large Stroke Power Chucks

1. 曲柄型二爪超大贯穿通孔径，超长爪行程。
2. 滑动面均经硬化及精密研磨，并直接润滑。
3. 高刚性结构及高夹持精度。
4. 安装联接方式与中空夹头一样，且可与之相容交换，不必更改拉杆。



1.crank type 4 jaw super large through hole,super long claw stroke.
2.sliding surfaces are hardened and precision lapping and lubricated directly.
3.high rigidity structure and high clamping accuracy.
4.the way of installation and connection is the same as the hollow chuck, and it can be exchanged with it without changing the pull rod.

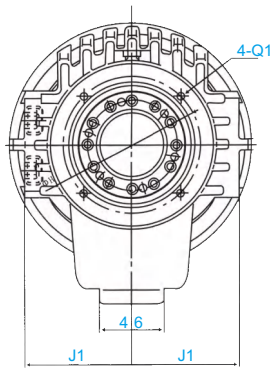
Dimensions 规格 Type 尺寸	A	B	C h6	D	D1	D2	E	E1	F	G max	G min	H	J	K max	L	L1	M	N	P	Q max	Q min	编码 Order
4JDB-206	168	84	140	104.78	82.563	116	5	18	45	6.5	-8.5	19	45	M55×2.0P	6-M10	15	37	73	20	25.75	13.75	701570
4JDB-208	210	96	170	133.35	106.375	150	5	23	52	7	-13	20	52	M60×2.0P	6-M12	18	38	95	25	28.25	16.25	701572
4JDB-210	254	110	220	171.45	139.719	190	5	18	75	8	-17	25	75	M85×2.0P	6-M16	22	43	110	30	35.25	17.25	701574

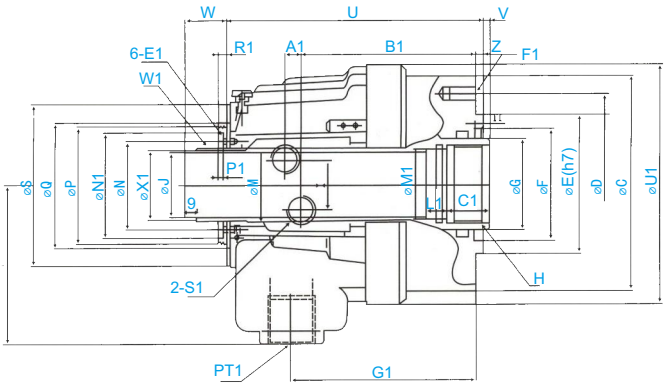
Dimensions 规格 Type 尺寸	R max	R min	S	T	U	锲心行程 Block Stroke	爪行程 Jaw Stroke Dia	容许推力 Max Thrust Force(kgf)	夹持力 Max Gripping Force(kgf)	许用压力 Max Pressure kgf/cm²	容许转速 Max. Speed r. p. m（min⁻¹）	惯性矩 Inertia kg/m²	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	重量 Weight（kg）	单价 Price（RMB）
4JDB-206	39	27	31	12	3-M6	13	26	2500	2700	27	3600	0.063	SH1246	10	168	15.2	15500
4JDB-208	49.25	33.25	35	14	3-M6	16	28	3600	4200	26	3000	0.175	SH1552	10	210	25.1	18000
4JDB-210	64.25	45.25	40	16	3-M8	22	32	5000	5800	27	2400	0.347	SH1875	18	254	43.9	20000

SH.. 中空高速油压回转缸

Super High Speed Hollow Rotary Hydraulic Cylinder







这是一种高速通孔回转缸，配置了高速诊断阀，以防止停电时压力突然下降，重量轻，能高速回转，通孔大，能使用更广泛棒材，能选择安装各种回转组件在汽缸背后，冷却联接环，传感器，回转组件等。

This is a high-speed through-hole rotary cylinder equipped with a diagnostic diagnostic valve to prevent sudden power failure.Low weight; light weight; high speed slewing; large through-hole, wider bar; optional installation.The rotary assembly is behind the cylinder (cooling link ring, sensor, rotary assembly, etc.).

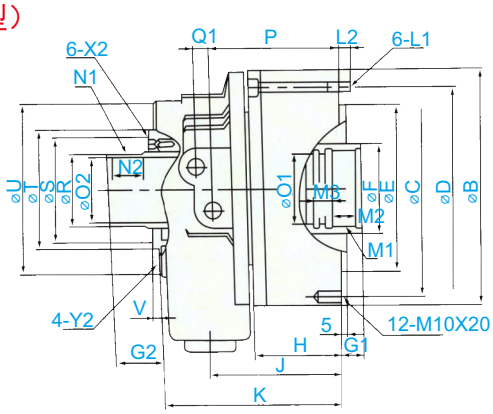
>> Dimensions（mm）

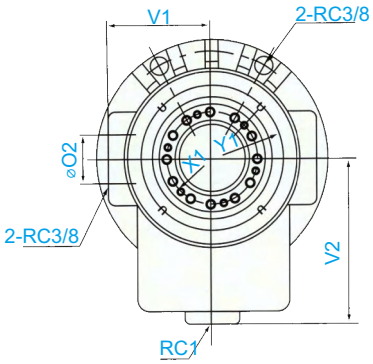
Dimensions 规格 尺寸 Type	A1	B1	C1	E1	F1	G1	H1	J1	L1	M1	N1	P1	O1	R1	S1	T1	U1	W1	X1	C	D	E	F	G	H	J	K	M	编码 Order
SH1036	11.0	120.0	25	M4	12-M10	127	88	68	15	38	64	4	M5	5	PT3/8	6	154	M44×1.5P	42	136	115	100	365	48	M42×1.5P	36	30	44.6	701402
SH1246	11.5	126.5	30	M6	12-M10	134	98	76	15	50	76	4	M5	6	PT1/2	6	170	M52×1.5P	50	155	130	100	80	65	M55×2.0P	46	36	52.9	701404
SH1552	12.0	136.5	30	M6	12-M10	145	110	87	15	55	85	4	M6	7	PT1/2	6	210	M58×1.5P	56	190	170	130	85	70	M60×2.0P	52	36	59.6	701406
SH1875	17.5	154.5	35	M6	12-M10	162	155	101	15	80	108	4	M6	7	PT1/2	4	235	M84×2.0P	81	215	190	160	125	95	M85×2.0P	75	36	84.6	701408
SH2091	21.0	168.0	35	M6	12-M12	183	165	110	15	95	120	4	M6	7	PT1/2	6	160	M99×2.0P	96	240	215	180	140	100	M100×2.0P	91	36	99.6	701410
SH2511	27.0	191.0	45	M6	12-M16	218	206	135	15	125	160	5	M6	7	PT1/2	7	302	M134×2.0P	130	310	275	230	166	140	M130×2.0P	117	40	134.6	701412

Dimensions Type 尺寸 规格	N	P	Q	S	T	U	V Min	V Max	W Min	W Max	Z	柱塞行程 Piston Stroke	活塞直径 Piston DIA	转速 MAX Speed (min⁻¹)	惯性 Inertia GD² (kg. m²)	流量 Oil Leakage Rate (L/min)	活塞面积 Piston Area(cm²) 推 Push Side	活塞面积 Piston Area(cm²) 拉 Pull Side	容许推/拉力 MAX. Pull Force KN(kgf) 推 Push Side	容许推/拉力 MAX. Pull Force KN(kgf) 拉 Pull Side	许用压力 Max Pressure kgf/cm²(Mpa)	重量 Weight (kg)	单价 Price (RMB)
SH1036	53.5	73	78	104	115	176.5	-5	10	24	39	5	15	105	8000	0.012	3.0	71	68	24.5(2500)	23.5(2400)	40 (3. 9)	10.0	5600
SH1246	64	85	90	116	115	184	-5	10	25	40	5	15	125	7000	0.019	3.0	100	89	36.2(3700)	31.5(3200)	40 (3. 9)	13.0	6300
SH1552	73	96	102	135	130	196	-5	17	25	47	5	22	155	6200	0.053	3.9	160	150	57.0(5800)	54(5500)	40 (3. 9)	18.5	7300
SH1875	98	121	131	164	160	230	-5	20	25	50	5	25	180	4700	0.096	4.2	198	183	71.0(7200)	66(6700)	40 (3. 9)	26.0	8500
SH2091	108	138	147	180	185	253	-5	25	25	55	5	30	205	3800	0.160	4.5	252	234	91.0(9200)	85(8600)	40 (3. 9)	37.0	12000
SH2511	148	178	184	230	210	304	-5	24	25	55	6	30	250	2800	0.500	7.0	348	336	123(12400)	119(12000)	40 (3. 9)	63.0	16000

SHS.. 中空高速油压回转缸（短寸型）

Super High Speed Hollow Short Rotary Hydraulic Cylinder





>> Dimensions（mm）

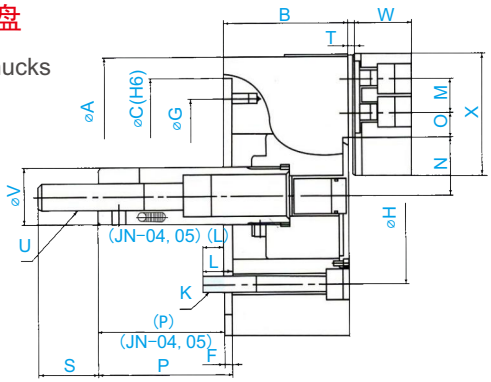
Dimensions 规格 尺寸 Type	A Piston DIA	B	C	D	E h7	F	G1 max	G1 min	G2 max	G2 min	H	J	K	L1	L2	M1	M2	M3	N1	N2	O1 H8	O2 H8	P	Q1	Q2	R g7	S H7	T	U	编码 Order
SHS428	90	120	96	106	80	44	13	4	33	24	57	89	124	M6×65	14	M33×1.5P	25	15	M34×1.5P	28	30	28	90	12	24	32	54	64	90	701420
SHS428B	90	120	100	106	80	44	13	4	33	24	57	89	124	M6×65	14	M38×1.5P	25	15	M34×1.5P	28	30	28	90	12	24	32	54	64	90	701422
SHS1036	105	140	115	124	100	48	14	-1	39	24	65	98	136	M8×70	14	M42×1.5P	25	15	M44×1.5P	25	42	36	100	12	30	42	65	74	105	701424
SHS1246	125	165	130	144	100	65	14	-1	40	25	70	103	141	M8×75	14	M50×2.0P	30	15	M52×1.5P	29	50	46	105	12	36	50	76	85	116	701426
SHS1246B	125	165	130	144	100	65	14	-1	40	25	70	103	141	M8×75	14	M55×2.0P	30	15	M52×1.5P	29	50	46	105	12	36	50	76	85	116	701428
SHS1552	150	185	170	165	130	70	21	-1	42	20	75	111	151	M8×80	14	M60×2.0P	30	15	M58×1.5P	29	55	52	110	14	36	56	85	96	135	701430

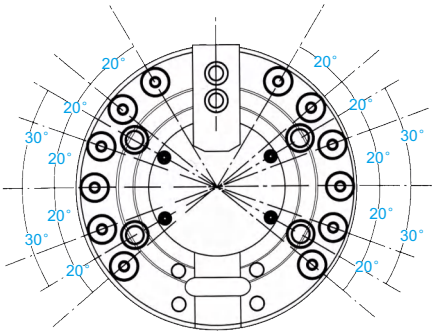
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SHS428	2.5	60	85	44	M5×6	78	M5×6	9	8500	0.028	50.6	48.3	1.8	45 (4. 5)	1.8	6000
SHS428B	2.5	60	85	44	M5×6	78	M5×6	9	8500	0.028	50.6	48.3	1.8	45 (4. 5)	1.8	6000
SHS1036	2.5	70	102	54	M5×6	90	M5×6	15	8500	0.047	67.5	60.5	2.5	45 (4. 5)	2.5	5600
SHS1246	2.5	76	120	64	M5×6	100	M5×6	15	8000	0.071	99.1	88.0	3.0	45 (4. 5)	3.0	6300
SHS1246B	2.5	76	120	64	M5×6	100	M5×6	15	8000	0.071	99.1	88.0	3.0	45 (4. 5)	3.0	7300
SHS1552	2.5	85	130	73	M6×7	110	M6×6	22	6500	0.129	135.3	125.0	3.9	45 (4. 5)	3.9	8500

1L. . 单爪中实长行程液压卡盘

1-JAW Long Stroke Solid Power Chucks







1.是一种实心油压驱动的卡盘，适用于加工异型的零件，能更换硬爪；
2.在自动化应用中，机械臂可以快捷的装卸工件。

1.It is a solid oil driven chuck, suitable for machining.Special shaped parts can replace hard jaws.
2.in automation applications, the manipulator can quickly load and unload workpieces.

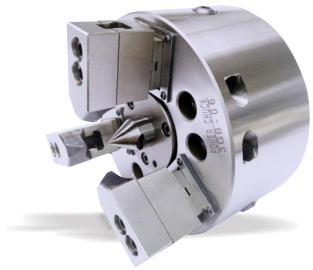
>> Dimensions（mm）

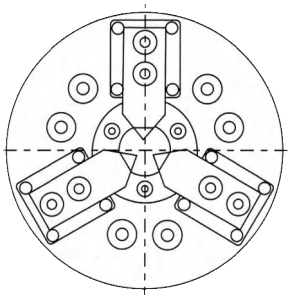
Dimensions 规格 Type / 尺寸	A	B	C h6	F	G	H	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	编码 Order
1L-06	165	74	140	5	116	104.8	6-M10×1.5P	14	20	37.8	33.55	18	7.5	101.5	81.5	31	12	36	4	M16×2.0P	34	39	73	702250
1L-08	210	85	170	5	150	133.4	6-M12×1.75P	18	25	46.3	41.90	22.5	9	127	106	35	14	36	5	M20×2.5P	38	42	95	702252
1L-10	254	89	220	5	190	171.4	6-M16×2P	20	30	51.4	47.00	37.5	10.5	158	133	40	16	36	5	M20×2.5P	45	46	110	702254

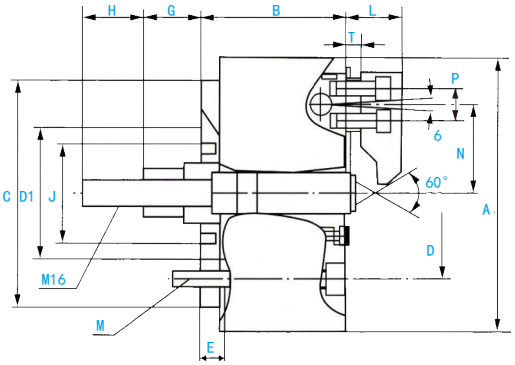
Dimensions 规格 Type / 尺寸	柱塞行程 Plunger Stroke	爪行程-直径 Jaw Stroke Dia	容许转速 Max. Speed r. p. m（min^{-1}）	容许拉力 Max Pull Force kgf（KN）	容许静夹持力 Max Gripping Force kgf（KN）	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	许用压力 Max Pressure kgf/cm^2(Mpa)	重量 Weight（kg）	单价 Price（RMB）
1L-06	20	6.5	5000	1220	3460	J-Y1020	22	165	19（1.9）	13.0	10000
1L-08	21	8.1	4000	1630	4990	J-Y1225	24	210	16（1.6）	25.0	11400
1L-10	25	9.0	3500	1930	7140	J-Y1530	27	254	19（1.9）	37.0	14100

3GB..杠杆式补偿型液压卡盘

Compensating Power Chucks

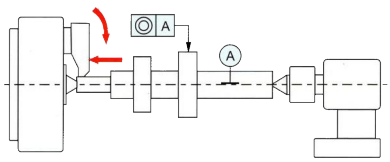


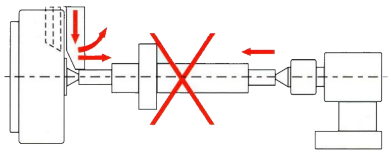




1. 轴类零件加工专用夹具，卡爪对工件具有后拉和补偿式夹紧的功能，（该卡盘夹持力提供加工时的扭矩和后拉力）：对中心 的补偿量为5毫米。
2. 以轴心为基准（顶针定位）、要求与轴有同轴度要求时可使用此类卡盘。
3. 使用法兰联接，通用卡爪（自行修整），安装方便。

1.Special fixture for machining shaft parts.Jaws have the function of pulling back and compensating clamping to the workpiece (the clamping force of the chuck provides the torque and pulling force during machining): the compensation to the center is 5mm.
2.Use this kind of chuck on the axis as the datum (thimble location) and require the axis to have a coaxality requirement.
3.Use flange connection, universal jaws (self trimming), easy to install.





尾座只需支撑工件的力，卡盘把工件拉向中心顶针，工件不发生弯曲，加工出来的轴同轴度好；当轴的外径与中心孔不同轴时，以中心孔为基准，卡爪的补偿作用就凸显出来了。

The tailstock only needs to support the force of the workpiece, the chuck pulls the workpiece to the center ejector, the workpiece does not bend, and the axle coaxiality is good; when the outer diameter of the shaft is different from the axis of the center hole, the center hole is taken as the reference, the compensation effect of the Jaw is highlighted.

无后拉和补偿的卡盘夹紧工件时，卡爪翘起，把轴推离中心定位，如尾座的力不能克服这个翘起的力，则会导致工件弯曲。

When the workpiece is clamped by a chuck without back pull and compensation, the Jaw is raised and the shaft is pushed away from the center. If the force of the tailstock can not overcome this force, the workpiece will bend.

>> Dimensions（mm）

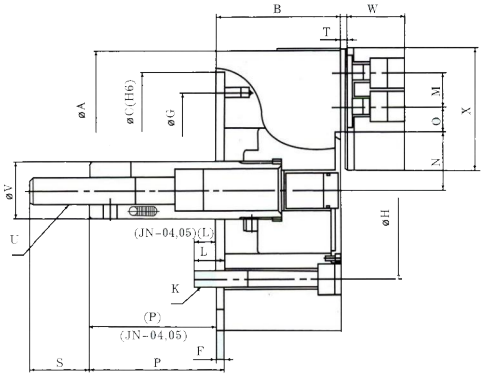
Dimensions 规格 Type / 尺寸	A	B	C h6	D	D1	E	G	H	J	L	M	N	P	T	编码 Order
3GB-06	168	91	140	104.8	A5	15	27-42	36	60	35	M10×95	55	20	10	702232
3GB-08	210	105	170	133.4	A6	17	30-50	36	70	44	M12×110	75	25	12	702236

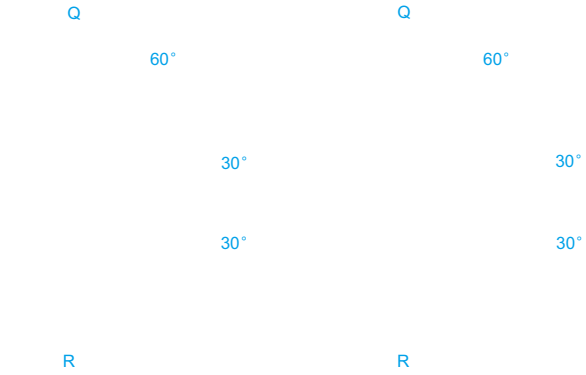
Dimensions 规格 Type / 尺寸	卡爪角行程 Jaw Angle Stroke	卡爪行程 Jaw Stroke 直径 Dia	斜楔行程 Oblique Stroke	圆周补偿量 Compensation Distance DIA	容许转速 Max. Speed r. p. m（min^{-1}）	容许推力 Maximum Thrust kgf	夹持力 Max Gripping Force kgf	搭配油缸 Matching Cylinder	惯量 Inertia kgf/m^2	重量 Weight（kg）	单价 Price（RMB）
3GB-06	6	4	5	5	3500	1500	3800	J-Y1020	0.2	13.0	12100
3GB-08	6	4.5	6	6	3000	2000	5400	J-Y1225	0.5	25.0	14100

1. 是一种实心油压驱动的卡盘，适用于加工方型和异型的零件，能更换硬爪；
2. 在自动化应用中，机械臂可以快捷的装卸工件。

1.It is a solid oil driven chuck, suitable for machining square andSpecial shaped parts can replace hard claws.
2.In automation applications, the manipulator can quickly load and unload workpieces.







06/08/10/12　　JNL-05

>> Dimensions（mm）

编码 Order
702099
702100
702102
702104
702106

7650
8300
9000
12000
17300

2L. . 二爪中实长行程液压卡盘　2-JAW Long Stroke Solid Power Chucks

>> Dimensions（mm）

Dimensions 规格 Type / 尺寸	A	B	C h6	F	G	H	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	编码 Order
2L-06	165	74	140	5	116	104.8	6-M10×1. 5P	14	20	37.8	33.55	18	7.5	101.5	81.5	31	12	36	4	M16×2.0P	34	39	73	702260
2L-08	210	85	170	5	150	133.4	6-M12×1. 75P	18	25	46.3	41.90	22.5	9	127	106	35	14	36	5	M20×2. 5P	38	42	95	702262
2L-10	254	89	220	5	190	171.4	6-M16×2P	20	30	51.4	47.00	37.5	10.5	158	133	40	16	36	5	M20×2. 5P	45	46	110	702264

Dimensions 规格 Type / 尺寸	柱塞行程 Plunger Stroke	爪行程-直径 Jaw Stroke Dia	容许转速 Max.Speed r.p.m (min⁻¹)	容许拉力 Max Pull Force kgf (KN)	容许静夹持力 Max Gripping Force kgf (KN)	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	许用压力 Max Pressure kgf/cm²(Mpa)	重量 Weight (kg)	单价 Price (RMB)
2L-06	20	13	5000	1220	3460	J-Y1020	22	165	19 (1.9)	12.5	10000
2L-08	21	16.2	4000	1630	4990	J-Y1225	24	210	16 (1.6)	24.0	11400
2L-10	25	18.1	3500	1930	7140	J-Y1225	27	254	19 (1.9)	35.5	14100

2JLS. . 二爪中实超大行程液压卡盘　2-JAW Long Stroke Solid Power Chucks

>> Dimensions（mm）

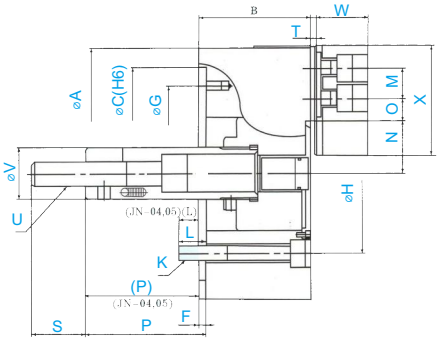
Dimensions 规格 Type / 尺寸	A	B	C h6	F	G	H	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	编码 Order
2JLS-06	165	80	140	5	116	104.8	6-M10×1. 5P	14	20	37.8	33.55	18	7.5	101.5	81.5	31	12	36	4	M16×2.0P	34	39	73	702282
2JLS-08	210	92	170	5	150	133.4	6-M12×1. 75P	18	25	46.3	41.90	22.5	9	127	106	35	14	36	5	M20×2. 5P	38	42	95	702284
2JLS-10	254	115	220	5	190	171.4	6-M16×2P	20	30	51.4	47.00	37.5	10.5	158	133	40	16	36	5	M20×2. 5P	45	46	110	702286

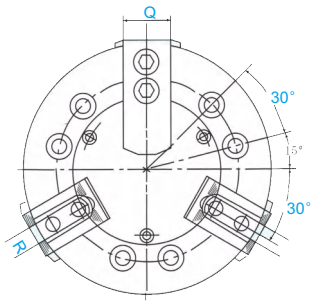
Dimensions 规格 Type / 尺寸	柱塞行程 Plunger Stroke	爪行程-直径 Jaw Stroke Dia	容许转速 Max.Speed r.p.m (min⁻¹)	容许拉力 Max Pull Force kgf (KN)	容许静夹持力 Max Gripping Force kgf (KN)	搭配油缸 Matching Cylinder	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	许用压力 Max Pressure kgf/cm²(Mpa)	重量 Weight (kg)	单价 Price (RMB)
2JLS-06	20	28	5000	1220	3460	J-Y1020	19	165	27（2.6）	12.5	16000
2JLS-08	25	40	4600	1630	4990	J-Y1225	23	210	25（2.5）	24.0	17300
2JLS-10	30	50	4000	1930	7140	J-Y1530	24	254	29（2.8）	35.5	20000

JN. . 三爪中实液压卡盘

3-JAW Solid Power Chucks







1. 是一种实心油压驱动卡盘，适用于加工长条棒类等广泛的零件，
能更换硬爪，使用法兰盘联接；
2. 在自动化应用中，机械臂可以快捷的装卸工件。

1.It is a solid hydraulic drive chuck, which is suitable for processing wide bar parts.It can replace hard claw and use flange connection.
2.In automation applications, the manipulator can quickly load and unload workpieces.

>> Dimensions (mm)

Dimensions 规格 Type / 尺寸	A	B	C h6	F	G	H	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	编码 Order
JN-04	110	52	60	6	-	80	3-M8×1. 25P	12	14	23.3	20.1	11.25	8.25	18	3.0	23	10	25	3	M10×1. 5P	26	27	53	
JN-05	135	55	80	7	-	100	3-M8×1. 25P	14	14	30.4	27.2	11.25	6.75	9	-6.0	25	10	35	3	M12×1. 75P	28	31	62	
JN-06	165	74	140	5	116	104.8	6-M10×1. 5P	14	20	37.8	33.55	18	7.5	101.5	81.5	31	12	36	4	M16×2.0P	34	39	73	
JN-08	210	85	170	5	150	133.4	6-M12×1. 75P	18	25	46.3	41.9	22.5	9	127	106	35	14	36	5	M20×2. 5P	38	42	95	
JN-10	254	89	220	5	190	171.4	6-M16×2P	20	30	51.4	47.0	37.5	10.5	158	133	40	16	36	5	M20×2. 5P	45	46	110	
JN-12	304	106	220	6	190	171.4	6-M16×2P	20	30	60.7	55.45	47	11	163	133	50	18	36	5	M20×2. 5P	50	54	130	
JN-15	381	114	300	6	260	235	6-M20×2.5P	30	43	77.5	69.5	48.75	23.25	104	69	62	25.5	55	2	M30×3. 5P	60	62	165	
JN-18	450	114	300	6	260	235	6-M20×2.5P	30	43	108	100	48.75	23.25	92	57	62	25.5	55	2	M30×3. 5P	60	62	165	
JN-21	530	125	380	6	330.2	330.2	6-M20×2.5P	31	60	86	78	93.5	27.5	97	62	65	25	55	3	M30×3. 5P	60	70	180	
JN-24	610	125	380	6	330.2	330.2	6-M20×2.5P	31	60	125	117	93.5	27.5	97	62	65	25	55	3	M30×3. 5P	60	70	180	

JN-04	15	6.4	5800	775(7.6)	2325(22.8)	J-Y0815	8	110	22（2. 2）	4.1
JN-05	15	6.4	5500	800(7.8)	2450(24)	J-Y0815	16	135	22（2.2）	6.2
JN-06	20	8.5	5000	1730(17)	5200(51)	J-Y1020	19	165	27（2. 6）	13.0
JN-08	21	8.8	4600	2440(22)	7440(73)	J-Y1225	23	210	25（2. 5）	25.0
JN-10	25	8.8	4000	2850(28)	10810(106)	J-Y1225	24	254	29（2. 8）	37.0
JN-12	30	10.5	3200	4080(40)	15500(152)	J-Y1530	26	304	29（2. 8）	57.3
JN-15	35	16	2800	8260(81)	25290(248)	J-Y2035	72	381	32. 5（3. 2）	96.5
JN-18	35	16	2700	8260(81)	25290(248)	J-Y2035	135	450	32. 5（3. 2）	124.5
JN-21	35	16	1900	8260(81)	25290(248)	J-Y2035	70	530	32. 5（3. 2）	180
JN-24	35	16	1750	8260(81)	25290(248)	J-Y2035	152	610	32. 5（3. 2）	223

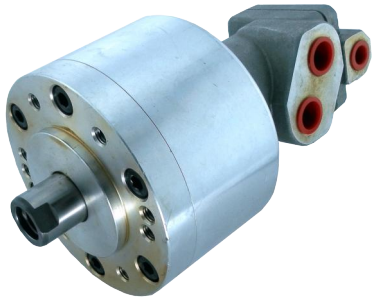
3L. . 三爪中实长行程液压卡盘 3-JAW Long Stroke Solid Power Chucks

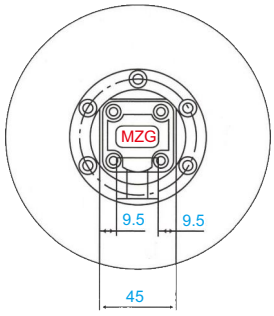
3L-06	165	74	140	5	116	104.8	6-M10×1. 5P	14	20	37.8	33.55	18	7.5	101.5	81.5	31	12	36	4	M16×2.0P	34	39	73	
3L-08	210	85	170	5	150	133.4	6-M12×1. 75P	18	25	46.3	41.9	22.5	9	127	106	35	14	36	5	M20×2. 5P	38	42	95	
3L-10	254	89	220	5	190	171.4	6-M16×2P	20	30	51.4	47.0	37.5	10.5	158	133	40	16	36	5	M20×2. 5P	45	46	110	

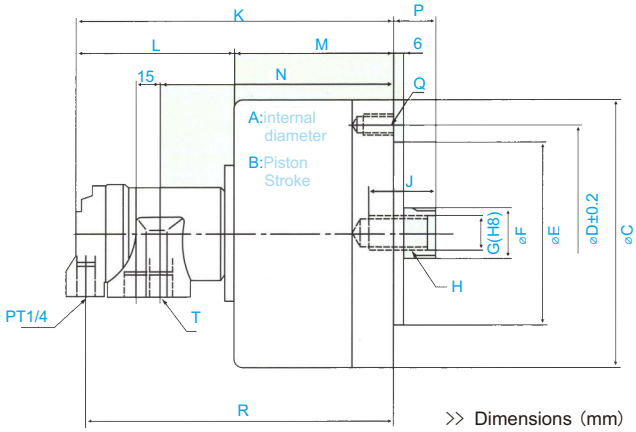
3L-06	20	13	5000	1730(17)	5200(51)	J-Y1020	19	165	27（2. 6）	13.0
3L-08	21	16. 2	4600	2440(22)	7440(73)	J-Y1225	23	210	25（2. 5）	25.0
3L-10	25	18. 1	4000	2850(28)	10810(106)	J-Y1225	24	254	29（2. 8）	37.0

J-Y.. 中实高速油压回转缸

Super High Speed Solid Rotary Hydraulic Cylinder







>> Dimensions（mm）

铝合金外形构造，重量比传统回转缸轻，体积小；在高速回转时，可保持性能的稳定及减轻机械负载。

Aluminum alloy configuration, weight lighter than the traditional rotary cylinder, small size; in high-speed rotation, can maintain the stability of performance and reduce mechanical load.

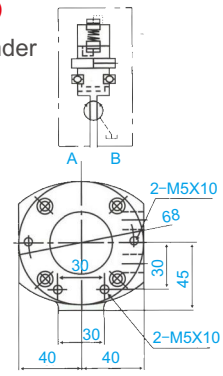
Dimensions 规格 Type 尺寸	A	B	C	D	E h7	F	G H8	H	J	K	L	M	N	P Max	P Min	Q	R	T	编码 Order
J-Y0815	80	15	112	90	65	25	16.5	M16×2.0P	30	175	102	74	119	45	30	6-M8×1.25	164	2-PT3/8	702300
J-Y1020	100	20	135	100	80	30	20.5	M20×2.5P	35	191	102	89	134	45	25	6-M10×1.5	179	2-PT3/8	702302
J-Y1225	125	25	160	130	110	35	25.0	M24×3.0P	44	198	102	96	141	50	25	12-M12×1.75	186	2-PT3/8	702304
J-Y1530	150	30	190	130	110	45	31.0	M30×3.5P	45	207	102	105	150	55	25	12-M12×1.75	195	2-PT3/8	702306
J-Y2035	200	35	245	145	120	55	37.0	M36×4.0P	60	232	102	130	175	70	35	12-M16×2.0	220	2-PT1/2	702308

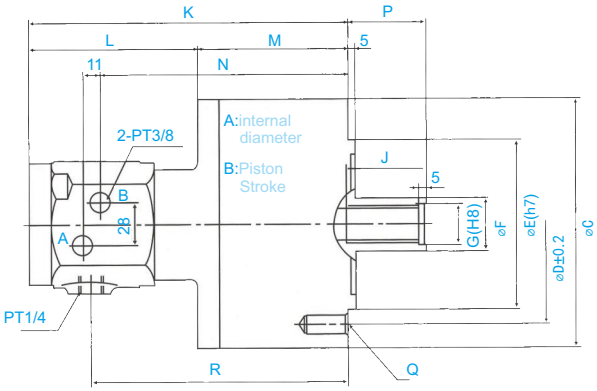
Dimensions 规格 Type 尺寸	柱塞行程 Piston Stroke	容许转速 MAX Speed(min^{-1})	惯性 Inertia Gd^2 (kg. m^2)	流量 Oil Leakage Rate L/min	活塞面积 Piston Area(cm^2) Extend	活塞面积 Piston Area(cm^2) Retract	许用压力 Max Pressure kgf/cm^2(Mpa)	重量 Weight (kg)	单价 Price（RMB）
J-Y0815	15	6000	0.010	0.8	48	43	35(3.4)	3.5	1850
J-Y1020	20	5500	0.040	0.8	75	68	40(3.9)	5.0	2150
J-Y1225	25	5500	0.080	0.8	119	110	40(3.9)	6.8	2500
J-Y1530	30	4000	0.180	0.8	173	157	40(3.9)	10.0	2500
J-Y2035	35	4000	0.380	0.8	310	286	40(3.9)	19.5	3300

J-YS. . 中实高速油压回转缸（带止逆阀）

Super High Speed Solid Rotary Hydraulic Cylinder







铝合金外形构造，重量比传统回转缸轻，体积小；在高速回转时，可保持性能的稳定及减轻机械负载。

配置了高速诊断阀，防止断电时压力突然下降发生安全事故，在水平和垂直方向都可以安装许多装置。

Aluminum alloy configuration, weight lighter than the traditional rotary cylinder, small size; in high-speed rotation, can maintain the stability of performance and reduce mechanical load.

It is equipped with a high-speed diagnostic valve to prevent sudden drop of pressure during power failure, and many devices can be installed in both horizontal and vertical directions.

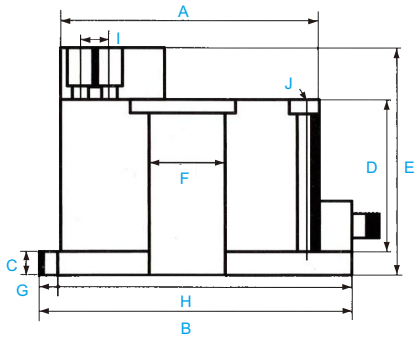
>> Dimensions（mm）

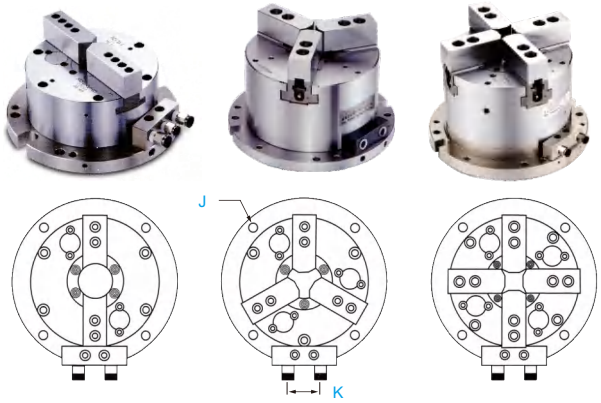
Dimensions Type 尺寸 规格	A	B	C	D	E h7	F	G H8	H	J	K	L	M	N	P Max	P Min	Q	R	编码 Order
J-YS0715	75	15	104	90	65	30	21	M20×2.5P	32	172	106	66	127	46	31	6-M8×20	133	702399
J-YS1020	105	20	135	100	80	30	21	M20×2.5P	35	197	108	89	152	45	25	6-M10×20	158	702400
J-YS1225	125	25	160	130	110	35	25	M24×3.0P	44	205	108	97	160	51	26	6-M12×24	166	702402
J-YS1530	150	30	190	130	110	45	31	M30×3.5P	45	214	108	106	169	56	26	12-M12×24	175	702404
J-YS2035	200	35	245	145	120	55	37	M36×4.0P	60	228	106	122	183	69	34	12-M16×30	189	702406

Dimensions Type 尺寸 规格	柱塞行程 Piston Stroke	容许转速 MAX Speed(min^{-1})	惯性 Inertia Gd^2 (kg. m^2)	流量 Oil Leakage Rate L/min	活塞面积 Piston Area(cm^2) 推 Extend	活塞面积 Piston Area(cm^2) 拉 Retract	容许推/拉力 Max Pull Force KN(kgf) 推 Push Side	容许推/拉力 Max Pull Force KN(kgf) 拉 Pull Side	许用压力 Max Pressure kgf/cm^2(Mpa)	重量 Weight (kg)	单价 Price（RMB）
J-YS0715	15	6000	0.003	0.8	44	37	16.6(1693)	13.9(1417)	40.8(4.0)	4.0	2000
J-YS1020	20	6000	0.013	0.8	86	79	32(3263)	29(2957)	40.8(4.0)	7.1	2500
J-YS1225	25	6000	0.023	0.8	122	113	46(4691)	41(4183)	40.8(4.0)	10.0	3000
J-YS1530	30	5500	0.048	0.8	176	160	66(6730)	60(6118)	40.8(4.0)	13.5	3500
J-YS2035	35	5500	0.098	0.8	314	314	117(11930)	108(11013)	40.8(4.0)	22.0	5000

SB..KQL 立式中空气动卡盘

Vertical Through-Hole Pneumatic Chucks





SBL..KQL　SB..KQL　SBS..KQL

该系列卡盘为内置式气缸式结构，采用高级合金钢材质，所有配合面经表面硬化处理，以提高精度和耐用度。不含联接法兰，D型联接。

This series of chucks is built-in cylinder structure with advanced alloy steel. All mating surfaces are hardened to improve accuracy and durability.No connecting flange, D type connection.

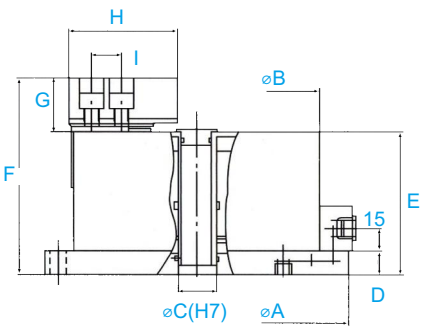
>> Dimensions（mm）

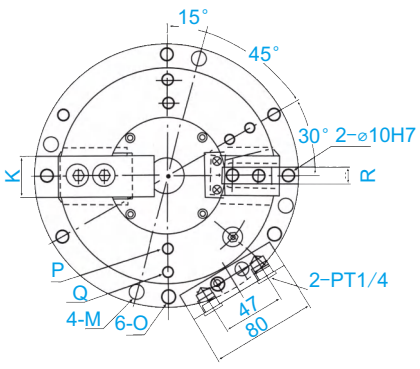
Type 规格 / Dimensions 尺寸	A	B	C	D	E	F	G	H	I	J	K	爪行程（直径）Jaw Stroke Dia	允许压力 Max Pressure (Mpa)	Gripping 夹持 Min	Gripping 夹持 Max	重量 Weight（kg）	编码 Order Number	单价 Price（RMB）
SBL-206KQL	168	203	15	97	137	30	11	188	20	M8	47	7.8	0.4-0.8	20	165		703202	10700
SBL-208KQL	215	255	17	107	148	45	13	238	25	M10	47	9.0	0.4-0.8	25	210		703204	12100
SBL-210KQL	258	297	20	114	160	60	13	278	30	M12	47	10.4	0.4-0.8	27	250		703206	14100
SB-205KQL	135	170	15	97	128	26	9	152	14	M6	22	5.4	0.4-0.8	16	135		703210	10000
SB-206KQL	168	203	15	97	137	30	11	188	20	M8	47	7.8	0.4-0.8	20	165		703212	10700
SB-208KQL	215	255	17	107	148	45	13	238	25	M10	47	9.0	0.4-0.8	25	210		703214	12100
SB-210KQL	258	297	20	114	160	60	13	278	30	M12	47	10.4	0.4-0.8	27	250		703216	14100
SBS-206KQL	168	203	15	97	137	30	11	188	20	M8	47	7.8	0.4-0.8	20	165		703222	12100
SBS-208KQL	215	255	17	107	148	45	13	238	25	M10	47	9.0	0.4-0.8	25	210		703224	13500
SBS-210KQL	258	297	20	114	160	60	13	278	30	M12	47	10.4	0.4-0.8	27	250		703226	15500

JNS..立式内藏式气动卡盘

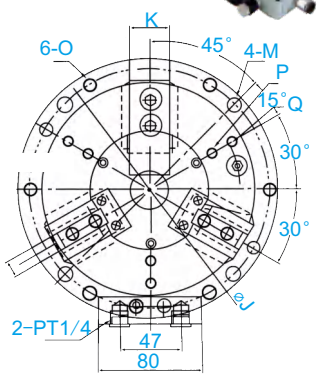
Vertical Built-in Type Pneumatic Chucks







JNSL..



JNS..

应用于钻床、铣床和加工中心的工件快速夹持，气压驱动，使用方便，设计小型化，轻量化的同时内藏气缸，安装简单。

Used in drilling machine, milling machine and machining center workpiece fast clamping, pneumatic drive, easy to use, design miniaturization, lightweight and at the same time, the cylinder is built-in, easy to install.

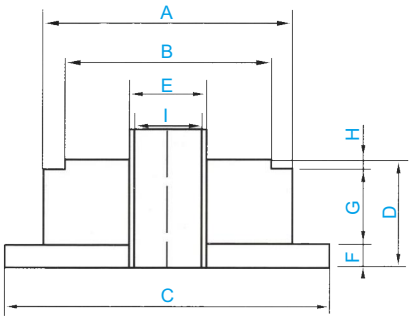
>> Dimensions（mm）

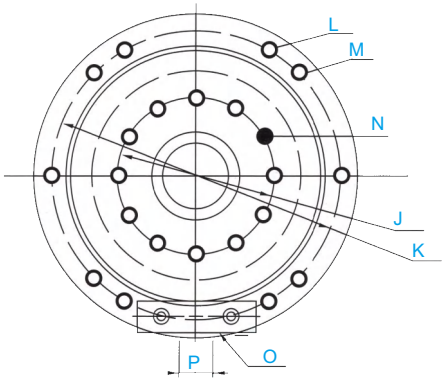
Type 规格 / Dimensions 尺寸	A	B	C H7	D	E	F	G	H	I	J	O	P	G	R	爪行程 Jaw Stroke Dia	夹持力 Max.Gripping Force kgf(KN)	夹持范围 Gripping Range Min	夹持范围 Gripping Range Max	允许压力 Max Pressure kgf/cm²(Mpa)	重量 Weight（kg）	编码 Order Number	单价 Price (RMB)
JNSL-04	148	110	20	15	90	117	27	53	14	130±0.2	M8×1.25	-	-	10	5.2	765(7.5)	15	110	6(0.6)	7.0	703232	11000
JNSL-06	203	165	25	15	95	131	36	72	20	185±0.2	M10×1.5	2-M8×1.25	3-M8×1.25	12	5.2	2150(21)	23	165	6(0.6)	15.0	703234	12000
JNSL-08	248	210	36	15	106	148	42	95	25	230±0.2	M10×1.5	2-M8×1.25	3-M8×1.25	14	6.3	3365(33)	30	210	6(0.6)	26.7	703236	14000
JNSL-10	300	254	50	16	110	156	46	110	30	280±0.2	M12×1.75	2-M10×1.5	3-M10×1.5	16	6.3	2390(24)	50	254	6(0.6)	40.8	703238	16000
JNS-04	148	110	20	15	90	117	27	53	14	130±0.2	M8×1.25	-	-	10	5.2	765(7.5)	15	110	7(0.7)	7.5	703242	11000
JNS-06	203	165	25	15	95	131	36	72	20	185±0.2	M10×1.5	3-M8×1.25	3-M8×1.25	12	5.2	2150(21)	23	165	7(0.7)	16.0	703244	11500
JNS-08	248	210	36	15	106	148	42	95	25	230±0.2	M10×1.5	3-M8×1.25	3-M8×1.25	14	6.3	3365(33)	30	210	7(0.7)	27.8	703246	13500
JNS-10	300	254	50	16	110	156	46	110	30	280±0.2	M12×1.75	3-M10×1.5	3-M10×1.5	16	6.3	2390(24)	50	254	7(0.7)	42.5	703248	15600

JYS.. 立式中空液压卡盘

Vertical Hollow Hydraulic Chuck

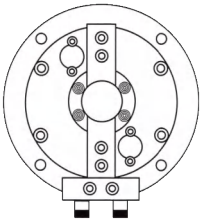


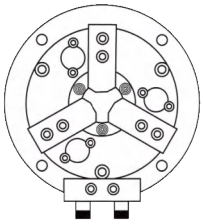


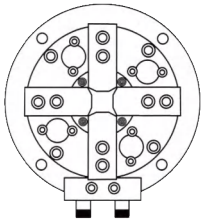


应用于钻床、铣床和加工中心的工件快速夹持，油压驱动；
单个安装：用T型螺丝直接固定即可；
群组安装：将数个夹盘安装与固定板上。

It is applied to drilling, milling machine and machining center for fast clamping of workpiece and hydraulic drive.Single installation:
It can be fixed directly with T-screw;
Group installation: several chucks are installed on the fixed plate.


JYL..


JYS..


JY..

>> Dimensions（mm）

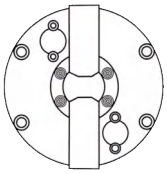
Dimensions 尺寸 / Type 规格	A	B	C H7	D	E	F	G	H	I	J	K	L	M	N	O	R	编码 Order
JYL-06	168	140	218	72	M55×2.0	15	52	6	45	104.8	195	6-M10×1.5	11	12-M10×1.5	PT1/4	22	703252
JYL-08	210	170	258	81	M60×2.0	18	58	6	45	133.4	234	6-M12×1.75	13	12-M12×1.75	PT1/4	22	703254
JYL-10	254	220	306	91	M85×2.0	20	72	6	70	171.4	280	6-M12×1.75	17	12-M16×2.0	PT1/4	22	703256
JYS-06	168	140	218	72	M55×2.0	15	52	6	45	104.8	195	6-M10×1.5	11	12-M10×1.5	PT1/4	22	703262
JYS-08	210	170	258	81	M60×2.0	18	58	6	45	133.4	234	6-M12×1.75	13	12-M12×1.75	PT1/4	22	703264
JYS-10	254	220	306	91	M85×2.0	20	72	6	70	171.4	280	6-M12×1.75	17	12-M16×2.0	PT1/4	22	703266
JY-06	168	140	218	72	M55×2.0	15	52	6	45	104.8	195	6-M10×1.5	11	12-M10×1.5	PT1/4	22	703272
JY-08	210	170	258	81	M60×2.0	18	58	6	45	133.4	234	6-M12×1.75	13	12-M12×1.75	PT1/4	22	703274
JY-10	254	220	306	91	M85×2.0	20	72	6	70	171.4	280	6-M12×1.75	17	12-M16×2.0	PT1/4	22	703276

Dimensions 尺寸 / Type 规格	柱塞行程 Piston Stroke	爪行程 Dia Jaw Stroke	允许推(拉)力 Max.Push(Pull) Force kgf(KN)		活塞面积 Piston Area cm^2		允许油压压力 Max Pressure kgf/cm^2(Mpa)	夹持范围 Gripping Range		重量 Weight（kg）	单价 Price（RMB）
			推力侧Push Side	拉力侧Pull Side	推力侧Push Side	拉力侧Pull Side		Min	Max		
JYL-06	12	5.5	2500 (24.5)	2400 (23.5)	71	68	40 (3.9)	23	165	24.5	12600
JYL-08	16	7.4	3700 (36)	3200 (31.5)	100	89	40 (3.9)	30	210	43	14300
JYL-10	20	8.8	5800 (57)	5500 (54)	160	150	40 (3.9)	50	254	69.1	19000
JYS-06	12	5.5	2500 (24.5)	2400 (23.5)	71	68	40 (3.9)	23	165	24.5	12300
JYS-08	16	7.4	3700 (36)	3200 (31.5)	100	89	40 (3.9)	30	210	43	14000
JYS-10	20	8.8	5800 (57)	5500 (54)	160	150	40 (3.9)	50	254	69.1	19000
JY-06	12	5.5	2500 (24.5)	2400 (23.5)	71	68	40 (3.9)	23	165	24.5	14000
JY-08	16	7.4	3700 (36)	3200 (31.5)	100	89	40 (3.9)	30	210	43	16000
JY-10	20	8.8	5800 (57)	5500 (54)	160	150	40 (3.9)	50	254	69.1	21000

SB..KQ 气动卡盘-半通孔

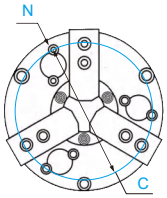
Half-Through-Hole Pneumatic Chucks



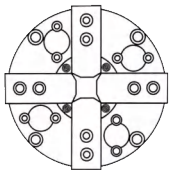


SBL..KQ

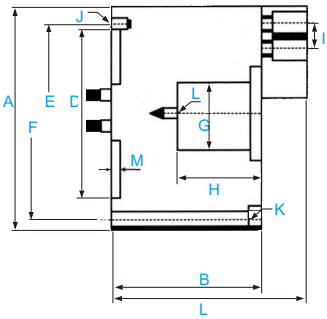




SB..KQ



SBS..KQ



该系列卡盘为内置式气缸式结构，采用高级合金钢材质，所有配合面经表面硬化处理，以提高精度和耐用度。不含联接法兰，D型联接。

This series of chucks is built-in cylinder structure with advanced alloy steel. All mating surfaces are hardened to improve accuracy and durability.No connecting flange, D type connection.

>> Dimensions（mm）

Dimensions 尺寸 / Type 规格	A	B	C h6	D	E	F	G	H	I	J	K	L	M	N	编码 Order
SBL-206KQ	168	100	140	130	142	154	30	67	20	M8×1.25	M8×1.25	M6×1.0	4	M8×1.25	703602
SBL-208KQ	215	110	185	165	180	196	45	74	25	M10×1.5	M10×1.5	M8×1.25	5	M10×1.5	703604
SBL-210KQ	258	117	220	206	226	238	60	76	30	M10×1.5	M12×1.75	M8×1.25	5	M10×1.5	703606
SB-205KQ	135	100	-	95	108	-	26	67	14	M8×1.25	-	M6×1.0	4	M6×1.0	703610
SB-206KQ	168	100	140	130	142	154	30	67	20	M8×1.25	M8×1.25	M6×1.0	4	M8×1.25	703612
SB-208KQ	215	110	180	165	180	196	45	74	25	M10×1.5	M10×1.5	M8×1.25	5	M10×1.5	703614
SB-210KQ	258	117	220	206	226	238	60	76	30	M10×1.5	M12×1.75	M8×1.25	5	M10×1.5	703616
SBS-206KQ	168	100	140	130	142	154	30	67	20	M8×1.25	M8×1.25	M6×1.0	4	M8×1.25	703622
SBS-208KQ	215	110	180	165	180	196	45	74	25	M10×1.5	M10×1.5	M8×1.25	5	M10×1.5	703624
SBS-210KQ	258	117	220	206	226	238	60	76	30	M10×1.5	M12×1.75	M8×1.25	5	M10×1.5	703626

Dimensions 尺寸 / Type 规格	爪行程 Jaw Stroke Dia	许用压力 Max Pressure (Mpa)	极限转速 Max. Speed r. p. m（min^{-1}）	搭配气缸 Matching Cylinder	夹紧范围 Gripping Range		撑紧范围 Extend Range		重量 Weight（kg）	单价 Price（RMB）
					Min	Max	Min	Max		
SBL-206KQ	7.8	0.4-0.8	3600	JS1315	2	170	20	180	13.0	11000
SBL-208KQ	9.0	0.4-0.8	3200	JS1720	5	210	20	240	25.0	12500
SBL-210KQ	10.4	0.4-0.8	2800	JS2225	10	260	30	280	37.0	14500
SB-205KQ	5.4	0.4-0.8	4000	JS1315	2	130	20	150	6.2	10000
SB-206KQ	7.8	0.4-0.8	3600	JS1315	2	170	20	180	13.0	11000
SB-208KQ	9.0	0.4-0.8	3200	JS1720	5	210	20	240	25.0	12500
SB-210KQ	10.4	0.4-0.8	2800	JS2225	10	260	30	280	37.0	14500
SBS-206KQ	7.8	0.4-0.8	3600	JS1315	2	170	20	180	13.0	12500
SBS-208KQ	9.0	0.4-0.8	3200	JS1720	5	210	20	240	25.0	13800
SBS-210KQ	10.4	0.4-0.8	2800	JS2225	10	260	30	280	37.0	15900

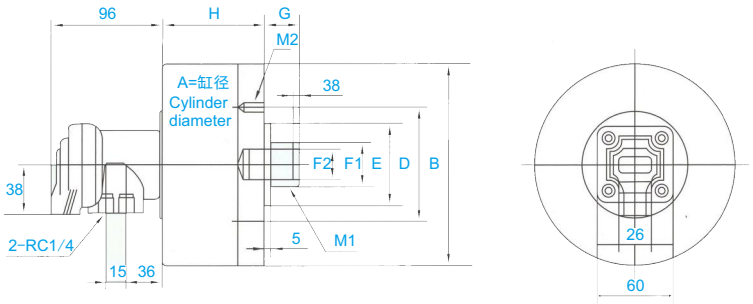
TS.. 高速气动回转缸

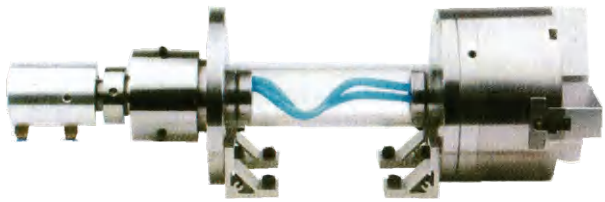
High Speed Solid Rotary Air Cylinder



铝合金外形构造，重量比传统回转缸轻，体积小；在高速回转时，可保持性能的稳定及减轻机械负载。

Aluminum alloy configuration, weight lighter than the traditional rotary cylinder, small size; in high-speed rotation, can maintain the stability of performance and reduce mechanical load.





气动卡盘安装示例

Installation example of pneumatic chuck

Dimensions 尺寸 / Type 规格	A	B	D	E h7	F1	F2 H8	G Max	G Min	H	M1	M2	编码 Order
TS1315	130	160	90	65	25	17	45	30	70	M16×25	6-M6×18	703652
TS1720	170	200	100	80	25	17	40	20	77	M16×30	6-M10×18	703654
TS2225	220	225	130	110	30	21	50	25	77	M20×30	6-M12×18	703656

Dimensions 尺寸 / Type 规格	活塞行程 Piston Stroke	容许速度 MAX Speed(min^{-1})	惯性 Inertia Gd^2 (kg. m^2)	活塞面积 Piston Area(cm^2)		容许推/拉力 Max Pull Force KN(kgf)		许用气压 Max Pressure kgf/cm^2(Mpa)	重量 Weight (kg)	单价 Price（RMB）
				推力侧 Push Side	拉力侧 Pull Side	推力侧 Push Side	拉力侧 Pull Side			
TS1315	15	5000	0.05	131.12	127.76	545(9.25)	920(9)	8.0(0.8)	5.3	3800
TS1720	20	5000	0.13	225.3	219.8	1622(15.9)	1582(15.5)	8.0(0.8)	8.5	6900
TS2225	25	4000	0.17	378.6	369.3	2254(22.1)	2193(21.5)	8.0(0.8)	11.6	10000

XZQ. .修爪器（油压生爪修整成形固定圈）

Gripper(Chucks Jaw Trimming And Forming Fixing Ring)



修爪器特点：

1. 使用后握持力增强，提高了真圆度，圆心度等精度，不会产生喇叭状离心振动，影响精度。
2. 外部夹持及内孔撑紧均可使用，可任意调整所需尺寸，操作迅速简便，节省修整时间，永久使用。
3. 旧的夹头使用成型圈后，可以提高精度和握持力，使恢复同新品一样品质。

The characteristics of the claw device are:

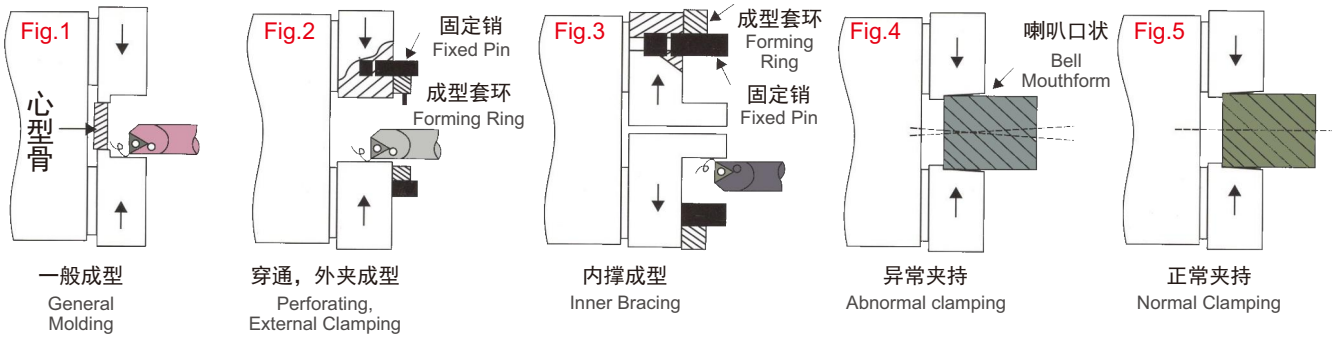
1. The grip force is enhanced after use, the accuracy of roundness and centricity is improved, and the trumpet centrifugal vibration is not produced, which affects the accuracy.
2. External clamping and inner hole bracing can be used,and the required size can be adjusted arbitrarily. The operation is quick and simple, saving the dressing time and permanent use.
3. After the old chuck uses the molding ring, it can improve the precision and grip force, and restore the same quality as the new one.

使用说明：

1. 使用成型圈，不但能做到外夹，内张与穿通成型三种方式的成型，尚可夹住工作物件时在同样的状态成形，所以芯振摆少，把握力也就提升。（Fig.1,Fig.2,Fig.3）
2. 使用硬爪夹持时，接触面不良会产生喇叭口状，把握力不良会产生离心振动，影响精度，危险性高（Fig.4）
3. 使用成形圈，与夹头一起成型时，无芯振摆现象，把握力可靠，可提高精度。（Fig.5）

Instructions:

1. By using the forming ring, not only can the outer clamping, the inner stretching and the through forming be realized, but also the working object can be formed in the same state when clamped.Therefore, the core vibration is less, and the grip power is also improved. (Fig. 1/2/3)
2. When gripping with hard claws, bad contact surface will produce horn-shaped, poor grasp force will produce centrifugal vibration, affecting accuracy, high risk.(Fig.4)
3. When the forming ring is used and the clamp is formed together, there is no core oscillating pendulum phenomenon. The holding force is reliable and the precision can be improved. (Fig.5)



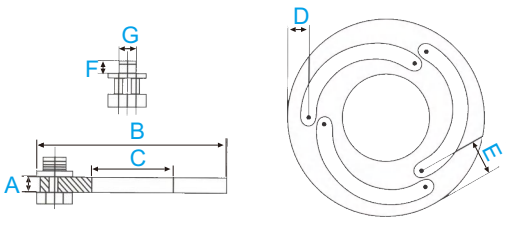
一般成型 General Molding

穿通，外夹成型 Perforating, External Clamping

内撑成型 Inner Bracing

异常夹持 Abnormal clamping

正常夹持 Normal Clamping



>> Dimensions（mm）

规格 Type / Dimensions 尺寸	编码 Order Number	A	B	C	D	E	F	G	重量 Weight (kg)	单价 Price (RMB)
XZQ-04	707460	12	114	34	12	28	9	13	0.9	2000
XZQ-05	707462	12	140	60	12	28	9	13	1.2	2000
XZQ-06	707464	12	168	60	12	32	9	16.5	1.5	2100
XZQ-08	707466	12	218	115	15	36	9	18.5	2.4	2400
XZQ-10	707468	12	258	150	17	40	9	18.5	3.1	3000
XZQ-12	707470	15	316	188	21	50	9	22.5	5.4	4000
XZQ-15	707472	20	380	230	23	52	16	31	10.1	5000

T型块
T-Nuts



又名T型螺母，可将其他连接件简单安全地固定至槽内。
装配过程中，它能自动定位，自动锁紧，主要用于T型槽。

Also known as T nut, other connectors can be simply and safely fixed to the tank.
During the assembly process, it can automatically locate and automatically lock,and is mainly used for T groove.

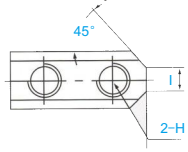


Fig.1

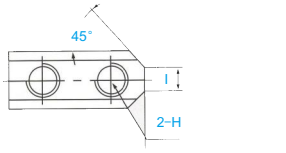


Fig.2

>> Dimensions（mm）

规格 Type / Dimensions 尺寸	编码 Order Number	A	B	C	D	E	F	G	H	I	Fig	应用 Application	重量 Weight (kg)	单价 Price (RMB)
JNT04	707430	28	15	18	10	14	7	12.5	M8	10	Fig.1	JN-04, JNS-04		200
SBT05	707432	26	15	15	10	14	6	9.5	M8	10	Fig.1	SBL-205, SB-205, SBS-205		200
JNT05	707434	26	15	16.5	10	14	6	11	M8	10	Fig.1	JN-05		200
SBT06	707436	36.5	17.5	18.5	12	20	8.2	11	M10	11	Fig.1	SBL-206, SB-206, SBS-206		225
JNT06	707438	36.5	17.5	22.5	12	20	7.5	15	M10	11	Fig.1	SB-06, JN-06, JNL-06, JNSL-06		225
SBT08	707440	46.5	20	20.5	14	25	10.5	12	M12	14	Fig.1	SBL-208, SB-208, SBS-208		275
JNT08	707442	50	21	26	14	25	12.5	16.5	M12	14	Fig.1	JNL-08, JN-08, JNS-08, JNSL-08		275
SBT10	707444	51	22.5	21.5	16	30	11	13	M12	14	Fig.1	SBL-210, SB-210, SBS-210		325
JNT10	707446	55	22.5	25.5	16	30	11	16	M12	14	Fig.1	JNL-10, JN-10, JNS-10, JNSL-10		325
SBT12	707448	55.5	29.5	27.8	21	30	11.5	16.3	M16	-	Fig.1	SBL-212, SB-212, SBS-212		375
JNT12	707450	55.5	26.5	33.5	18	30	12	20	M14	-	Fig.2	JNL-12, JN-12		375
SBT15	707452	80	33.5	38	24	43	17	21.5	M20	-	Fig.2	SBL-215, SB-215, SBS-215		500
JNT15	707454	80	33.5	38	22	43	17	21.5	M20	-	Fig.2	JN-15, JN-18, JNL-15, JNL-18		500
JNT24	707456	100	37.5	45	25	60	20	26	M20	-	Fig.2	JN-21, JN-24, JNL-21, JNL-24		600

JSA..卡盘联接盘
Adaptor Plates

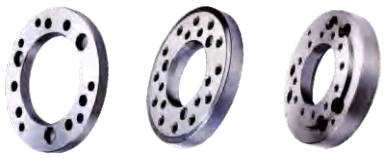


图1用于直接安装：当主轴的尺寸与卡盘的直接为标配的时候；
图2和图3于间接安装（减小和增大）：
当主轴的尺寸与卡盘的直径不是标配的时候。

Fig.1 is used for direct installation: when the size of the spindle is directly matched with the chuck,
Fig.2 and Fig.3 are for indirect mounting (reduction and increase): when the spindle size does not match the chuck diameter.

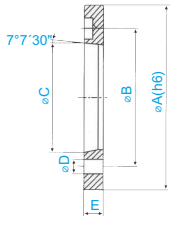


Fig.1

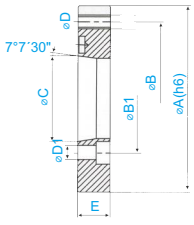


Fig.2

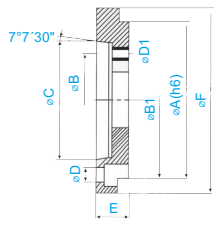


Fig.3

>> Dimensions（mm）

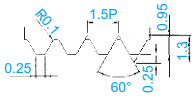
规格 Type / Dimensions 尺寸	编码 Order Number	连接盘 Connection Number	A h6	B	B1	C	D	D1	E	F	Fig	重量 Weight (kg)	单价 Price (RMB)
JSA00504	707500	A4	80	82.6	-	63.51	9	-	20	-	Fig.1	0.55	600
JSA00604	707502	A4	140	104.8	82.6	63.51	11	M10	20	-	Fig.2	1.60	600
JSA00605	707504	A5	140	104.8	-	82.56	11	-	15	-	Fig.1	1.00	400
JSA00606	707506	A6	140	104.8	133.4	106.38	13	M10	30	165	Fig.3	3.50	600
JSA00805	707508	A5	170	133.4	104.8	82.56	11	M12	24	-	Fig.2	2.70	400
JSA00806	707510	A6	170	133.4	-	106.38	13	-	17	-	Fig.1	1.50	400
JSA00808	707512	A8	170	133.4	171.4	139.72	17	M12	40	210	Fig.3	6.20	600
JSA01006	707514	A6	220	171.4	133.4	106.38	13	M16	28	-	Fig.2	3.00	750
JSA01008	707516	A8	220	171.4	-	139.72	17	-	18	-	Fig.1	2.70	750
JSA01508	707518	A8	300	235	171.4	139.72	17	M20	22	-	Fig.2	8.50	900
JSA01511	707520	A11	300	235	-	196.87	21	-	22	-	Fig.1	6.50	900
JSA01515	707522	A15	300	235	330.2	285.78	25	M20	50	380	Fig.3	22.00	1100
JSA02108	707524	A8	380	330.2	171.4	139.72	17	M22	27	-	Fig.2	21.00	1350
JSA02111	707526	A11	380	330.2	235	196.87	21	M22	27	-	Fig.2	18.00	1200
JSA02115	707528	A15	380	330.2	-	285.78	23	-	27	-	Fig.1	10.00	1200
JSA02120	707530	A20	380	330.2	463.6	412.78	27	M22	58	520	Fig.3	55.00	1800

YZ..油压硬爪
Standard Hardened Jaw For Hydraulic Chucks



经过淬火硬化处理，硬度较高。一般车床用硬爪。
可夹持棒料，圆柱形毛坯等，夹紧牢靠，夹持力大。

After hardening treatment, the hardness is higher. Ordinary lathe with hard claw.It can hold bar material, cylindrical blank and so on. It has strong clamping force and large clamping force.



Pitch=1.5mm

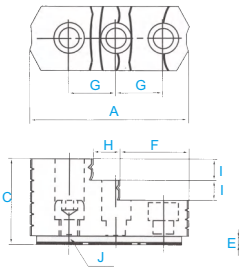
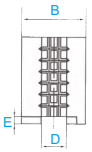


Fig.1



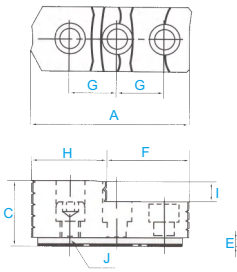
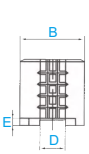


Fig.2



>> Dimensions（mm）

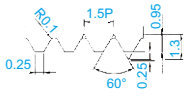
规格 Type / Dimensions 尺寸	编码 Order Number	A	B	C	D	E	F	G	H	I	J	Fig	重量 Weight (kg)	单价 Price (RMB)
YZ5C	707402	53	23	28	10	4	29	14	24	10	M8×1.25	Fig.2	0.4	1900
YZ6C	707404	67	31	36	12	5	39	20	28	12	M10×1.5	Fig.2	0.95	2100
YZ8C	707406	87	35	51	14	5	30	25	18	12	M12×1.75	Fig.1	1.9	2400
YZ10C	707408	101	40	54	16	5	46	30	18	13	M12×1.75	Fig.1	2.8	3000
YZ12C-21	707410	108	50	67	21	4	49	30	20	16	M16×2.0	Fig.1	3.5	3700
YZ12C-18	707411	108	50	67	18	5	49	30	20	16	M16×2.0	Fig.1	3.7	3700
YZ15C-22	707412	143	62	86	22	8	55	43	38	20	M20×2.5	Fig.1	9.6	6800
YZ15C-25.5	707413	143	62	86	25.5	5	55	43	38	20	M20×2.5	Fig.1	9.5	6800

SZSX.. 扇形油压软爪
Fan-shaped Hydraulic Soft Jaw

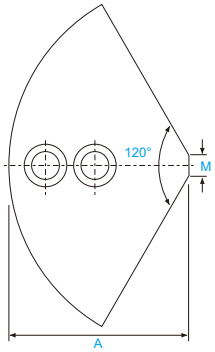


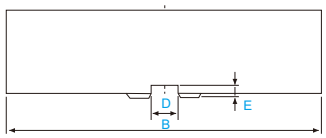
用于夹持质地软的，容易变形的工件。车好的软爪，
夹零件可以减少碰伤，提高同轴度，可车带定位软爪。

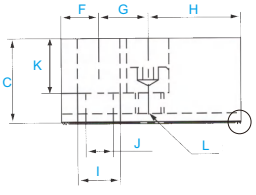
It is used for clamping soft, easily deformed workpieces. The soft jaw and clamping parts can reduce bruise and improve coaxiality.



Pitch=1.5mm







>> Dimensions（mm）

规格 Type / Dimensions 尺寸	编码 Order Number	A	B	C	D	E	F	G	H	I	J	K	L	M	重量 Weight (kg)	单价 Price (RMB)
SZSX4C120	707360	49.5	86	23	10	5	9	14	26.5	13.5	9	14	M8	3	1.5	2000
SZSX5C120	707362	54	108	30	10	5	9	14	31	13.5	9	21	M8	5	3.0	2100
SZSX6C120	707364	73	129	36	12	5	15	20	31	17	11	23	M10	14	5.5	2250
SZSX8C120	707366	95	173	37	14	5	25	25	46	19	13	22	M12	16	10.5	3600
SZSX10C120	707368	110	216	42	16	5	30	30	50	19	13	27	M12	18	16.0	5000

标准/加高油压软爪

Heighten And Standard Soft Jaw For Hydraulic Chucks

用于夹持质地软的，容易变形的工件。车好的软爪，
夹零件可以减少碰伤，提高同轴度，可车带定位软爪。

It is used for clamping soft, easily deformed workpieces.
The soft jaw and clamping parts can reduce bruise and
improve coaxiality.

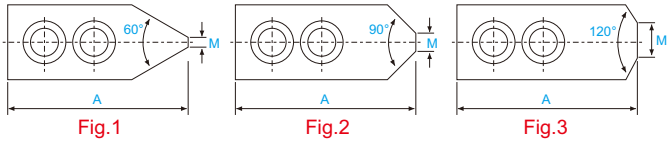
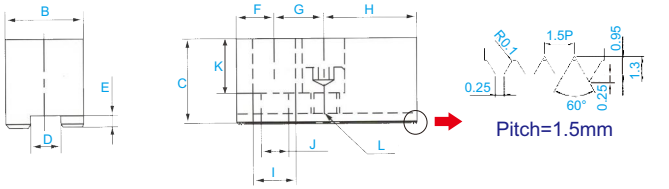
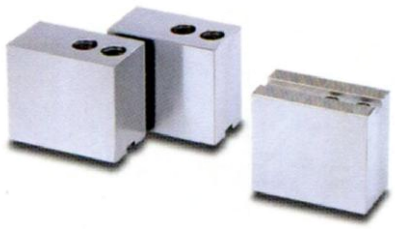


Fig.1 Fig.2 Fig.3





SZ5C..5寸标准/加高油压软爪

5 Inch Heighten And Standard Soft Jaw For Hydraulic Chucks

>> Dimensions (mm)

Dimensions 尺寸 / 规格 Type	编码 Order Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Fig	重量 Weight (kg)	单价 Price (RMB)
SZ5C60	707200	54	25	30	10	5	9	14	31	13.5	9	21	M8	5	Fig.1	0.70	185
SZ5C90	707202	54	25	30	10	5	9	14	31	13.5	9	21	M8	5	Fig.2	0.70	175
SZ5C120	707204	54	25	30	10	5	9	14	31	13.5	9	21	M8	5	Fig.3	0.70	165
SZ5C120H40	707206	54	25	40	10	5	9	14	31	13.5	9	21	M8	5	Fig.3	0.89	300
SZ5C120H50	707208	54	25	50	10	5	9	14	31	13.5	9	21	M8	5	Fig.3	1.11	350
SZ5C120H60	707210	54	25	60	10	5	9	14	31	13.5	9	21	M8	5	Fig.3	1.33	400
SZ5C120H70	707212	54	25	70	10	5	9	14	31	13.5	9	21	M8	5	Fig.3	1.55	450
SZ5C120H80	707214	54	25	80	10	5	9	14	31	13.5	9	21	M8	5	Fig.3	1.77	650
SZ5C120H90	707216	54	25	90	10	5	9	14	31	13.5	9	21	M8	5	Fig.3	1.99	750
SZ5C120H100	707218	54	25	100	10	5	9	14	31	13.5	9	21	M8	5	Fig.3	2.22	850
SZ5C120H120	707219	54	25	120	10	5	9	14	31	13.5	9	21	M8	5	Fig.3	2.66	1000

SZ6C..6寸标准/加高油压软爪

6 Inch Heighten And Standard Soft Jaw For Hydraulic Chucks

Dimensions 尺寸 / 规格 Type	编码 Order Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Fig	重量 Weight (kg)	单价 Price (RMB)
SZ6C60	707220	73	31	36	12	5	15	20	31	17	11	23	M10	5	Fig.1	1.50	220
SZ6C90	707222	73	31	36	12	5	15	20	31	17	11	23	M10	9	Fig.2	1.50	210
SZ6C120	707224	73	31	36	12	5	15	20	31	17	11	23	M10	14	Fig.3	1.50	200
SZ6C120H50	707226	73	31	50	12	5	15	20	31	17	11	23	M10	14	Fig.3	2.00	350
SZ6C120H60	707228	73	31	60	12	5	15	20	31	17	11	23	M10	14	Fig.3	2.40	400
SZ6C120H70	707230	73	31	70	12	5	15	20	31	17	11	23	M10	14	Fig.3	2.80	450
SZ6C120H80	707232	73	31	80	12	5	15	20	31	17	11	23	M10	14	Fig.3	3.20	500
SZ6C120H90	707234	73	31	90	12	5	15	20	31	17	11	23	M10	14	Fig.3	3.60	550
SZ6C120H100	707236	73	31	100	12	5	15	20	31	17	11	23	M10	14	Fig.3	4.00	600
SZ6C120H120	707238	73	31	120	12	5	15	20	31	17	11	23	M10	14	Fig.3	4.80	800
SZ6C120H130	707240	73	31	130	12	5	15	20	31	17	11	23	M10	14	Fig.3	5.20	900
SZ6C120H150	707242	73	31	150	12	5	15	20	31	17	11	23	M10	14	Fig.3	6.00	1000

SZ8C..8寸标准/加高油压软爪

8 Inch Heighten And Standard Soft Jaw For Hydraulic Chucks

Dimensions 尺寸 / 规格 Type	编码 Order Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Fig	重量 Weight (kg)	单价 Price (RMB)
SZ8C60	707244	95	35	37	14	5	25	25	46	19	13	22	M12	5	Fig.1	2.40	270
SZ8C90	707246	95	35	37	14	5	25	25	46	19	13	22	M12	10	Fig.2	2.40	260
SZ8C120	707248	95	35	37	14	5	25	25	46	19	13	22	M12	16	Fig.3	2.40	250
SZ8C120H40	707250	95	35	40	14	5	25	25	46	19	13	22	M12	16	Fig.3	2.50	350
SZ8C120H50	707252	95	35	50	14	5	25	25	46	19	13	22	M12	16	Fig.3	2.80	400
SZ8C120H60	707254	95	35	60	14	5	25	25	46	19	13	22	M12	16	Fig.3	3.36	450
SZ8C120H70	707256	95	35	70	14	5	25	25	46	19	13	22	M12	16	Fig.3	3.92	500
SZ8C120H80	707258	95	35	80	14	5	25	25	46	19	13	22	M12	16	Fig.3	4.50	550
SZ8C120H90	707260	95	35	90	14	5	25	25	46	19	13	22	M12	16	Fig.3	5.05	600
SZ8C120H100	707262	95	35	100	14	5	25	25	46	19	13	22	M12	16	Fig.3	5.60	700
SZ8C120H120	707264	95	35	120	14	5	25	25	46	19	13	22	M12	16	Fig.3	6.72	750
SZ8C120H130	707266	95	35	130	14	5	25	25	46	19	13	22	M12	16	Fig.3	7.28	800
SZ8C120H140	707268	95	35	140	14	5	25	25	46	19	13	22	M12	16	Fig.3	7.80	900
SZ8C120H150	707270	95	35	150	14	5	25	25	46	19	13	22	M12	16	Fig.3	8.40	1000
SZ8C120H180	707272	95	35	180	14	5	25	25	46	19	13	22	M12	16	Fig.3	10.10	1400
SZ8C120H200	707274	95	35	200	14	5	25	25	46	19	13	22	M12	16	Fig.3	11.20	1650

SZ10C..10寸标准/加高油压软爪

10 Inch Heighten And Standard Soft Jaw For Hydraulic Chucks

Dimensions 尺寸 / 规格 Type	编码 Order Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Fig	重量 Weight (kg)	单价 Price (RMB)
SZ10C60	707276	110	40	42	16	5	30	30	50	19	13	27	M12	8	Fig.1	3.70	340
SZ10C90	707278	110	40	42	16	5	30	30	50	19	13	27	M12	13	Fig.2	3.70	320
SZ10C120	707280	110	40	42	16	5	30	30	50	19	13	27	M12	18	Fig.3	3.70	300
SZ10C120H50	707282	110	40	50	16	5	30	30	50	19	13	27	M12	18	Fig.3	4.25	400
SZ10C120H60	707284	110	40	60	16	5	30	30	50	19	13	27	M12	18	Fig.3	5.10	450
SZ10C120H70	707286	110	40	70	16	5	30	30	50	19	13	27	M12	18	Fig.3	5.95	550
SZ10C120H80	707288	110	40	80	16	5	30	30	50	19	13	27	M12	18	Fig.3	6.80	600
SZ10C120H90	707290	110	40	90	16	5	30	30	50	19	13	27	M12	18	Fig.3	7.65	700
SZ10C120H100	707292	110	40	100	16	5	30	30	50	19	13	27	M12	18	Fig.3	8.50	800
SZ10C120H110	707293	110	40	110	16	5	30	30	50	19	13	27	M12	18	Fig.3	9.35	850
SZ10C120H120	707294	110	40	120	16	5	30	30	50	19	13	27	M12	18	Fig.3	10.20	900
SZ10C120H130	707297	110	40	130	16	5	30	30	50	19	13	27	M12	18	Fig.3	11.05	1000
SZ10C120H140	707296	110	40	140	16	5	30	30	50	19	13	27	M12	18	Fig.3	11.90	1100
SZ10C120H150	707298	110	40	150	16	5	30	30	50	19	13	27	M12	18	Fig.3	12.75	1150
SZ10C120H180	707300	110	40	180	16	5	30	30	50	19	13	27	M12	18	Fig.3	15.30	1600
SZ10C120H200	707302	110	40	200	16	5	30	30	50	19	13	27	M12	18	Fig.3	17.00	1800

SZ12C..12寸标准/加高油压软爪

12 Inch Heighten And Standard Soft Jaw For Hydraulic Chucks

Dimensions 尺寸 / 规格 Type	编码 Order Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Fig	重量 Weight (kg)	单价 Price (RMB)
ZKSZ12C60-21	707304	130	50	50	21	5	39	30	61	25	17	30	M14	10	Fig.1	6.2	490
ZKSZ12C90-21	707306	130	50	50	21	5	39	30	61	25	17	30	M14	15	Fig.2	6.2	465
ZKSZ12C120-21	707308	130	50	50	21	5	39	30	61	25	17	30	M14	23	Fig.3	6.2	450
ZKSZ12C120H60	707310	130	50	60	21	5	39	30	61	25	17	30	M14	23	Fig.3	7.5	600
ZKSZ12C120H70	707312	130	50	70	21	5	39	30	61	25	17	30	M14	23	Fig.3	8.75	700
ZKSZ12C120H80	707314	130	50	80	21	5	39	30	61	25	17	30	M14	23	Fig.3	10.0	750
ZKSZ12C120H90	707316	130	50	90	21	5	39	30	61	25	17	30	M14	23	Fig.3	11.25	950
ZKSZ12C120H100	707318	130	50	100	21	5	39	30	61	25	17	30	M14	23	Fig.3	12.5	1100
ZKSZ12C120H120	707320	130	50	120	21	5	39	30	61	25	17	30	M14	23	Fig.3	15.0	1200
ZKSZ12C120H150	707322	130	50	150	21	5	39	30	61	25	17	30	M14	23	Fig.3	18.75	1400

▲ 适用于中空液压卡盘。 ▲ Used For Hollow Hydraulic Chucks

Dimensions 尺寸 / 规格 Type	编码 Order Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Fig	重量 Weight (kg)	单价 Price (RMB)
ZSSZ12C60-18	707350	130	50	50	18	5	39	30	61	23	15	30	M16	10	Fig.1	6.2	490
ZSSZ12C90-18	707352	130	50	50	18	5	39	30	61	23	15	30	M16	15	Fig.2	6.2	465
ZSSZ12C120-18	707354	130	50	50	18	5	39	30	61	23	15	30	M16	23	Fig.3	6.2	450
ZSSZ12C120H60	707356	130	50	60	18	5	39	30	61	23	15	30	M16	23	Fig.3	7.5	600
ZSSZ12C120H70	707358	130	50	70	18	5	39	30	61	23	15	30	M16	23	Fig.3	8.75	700
ZSSZ12C120H80	707360	130	50	80	18	5	39	30	61	23	15	30	M16	23	Fig.3	10.0	750
ZSSZ12C120H90	707362	130	50	90	18	5	39	30	61	23	15	30	M16	23	Fig.3	11.25	950
ZSSZ12C120H100	707364	130	50	100	18	5	39	30	61	23	15	30	M16	23	Fig.3	12.5	1100
ZSSZ12C120H120	707366	130	50	120	18	5	39	30	61	23	15	30	M16	23	Fig.3	15.0	1200
ZSSZ12C120H150	707368	130	50	150	18	5	39	30	61	23	15	30	M16	23	Fig.3	18.75	1400

▲ 适用于中实液压卡盘。 ▲ Used For Solid Hydraulic Chucks

15寸油压软爪

15 Inch Heighten And Standard Soft Jaw For Hydraulic Chucks

Dimensions 尺寸 / 规格 Type	编码 Order Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Fig	重量 Weight (kg)	单价 Price (RMB)
ZKSZ15C120-22	707112	165	62	62	22	8	37	43	85	32	21	38	M20	–	Fig.3	12.8	1300
ZSSZ15C120-25.5	707113	165	62	62	25.5	5	37	43	85	32	21	38	M20	–	Fig.3	12.8	1300

24寸油压软爪

Pitch=3.0mm

24 Inch Heighten And Standard Soft Jaw For Hydraulic Chucks

Dimensions 尺寸 / 规格 Type	编码 Order Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Fig	重量 Weight (kg)	单价 Price (RMB)
SZ24C120	707118	180	65	70	25	9	40	60	80	32	21	45	M20	–	Fig.2	16.0	2500

数控车床刀套
Lathe sleeve

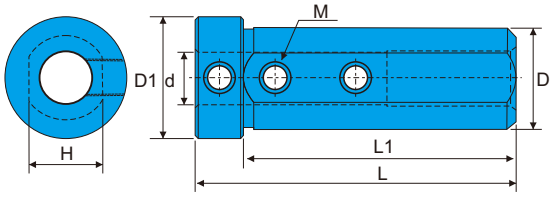


FIG-1

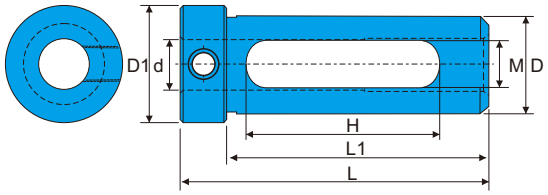


FIG-2



D16-T..车床刀套 Lathe sleeve

订购编码 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) d	D	L	L1	D1	H	M	Fig
708300	D16-T03	●	3	16	62	55	19	14.5	M4	1
708302	D16-T04	●	4						M4	
708304	D16-T05	●	5						M5	
708306	D16-T06	●	6						M5	
708308	D16-T07	●	7						M6	
708310	D16-T08	●	8						M6	
708312	D16-T10	●	10				24.5		M4	
708314	D16-T12	●	12				19	50	9	2

D20-T..车床刀套 Lathe sleeve

订购编码 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) d	D	L	L1	D1	H	M	Fig
708316	D20-T02	●	2	20	67	60	27	17.5	M6	1
708318	D20-T03	●	3							
708320	D20-T04	●	4							
708322	D20-T05	●	5							
708324	D20-T06	●	6							
708326	D20-T07	●	7							
708328	D20-T08	●	8							
708330	D20-T09	●	9							
708332	D20-T10	●	10							
708334	D20-T12	●	12							
708336	D20-T13	●	13							
708338	D20-T14	●	14					40	13	2
708340	D20-T16	●	16							
708342	D20-MTA1	●	MTA1					-	-	
708344	D20-MTA2	●	MTA2							

D25-T..车床刀套 Lathe sleeve

订购编码 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) d	D	L	L1	D1	H	M	Fig
708346	D25-T04	●	4	25	64	58	35	23.5	M6	1
708348	D25-T05	●	5							
708350	D25-T06	●	6							
708352	D25-T07	●	7							
708354	D25-T08	●	8							
708356	D25-T09	●	9							
708358	D25-T10	●	10							
708360	D25-T12	●	12							
708362	D25-T13	●	13							
708364	D25-T14	●	14							
708366	D25-T16	●	16					51	12	2
708368	D25-T18	●	18							
708370	D25-T20	●	20							
708372	D25-T22	●	22							
708374	D25-MTA1	●	MTA1					-	-	
708376	D25-MTA2	●	MTA2							

D32-T..车床刀套 Lathe sleeve

订购编码 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) d	D	L	L1	D1	H	M	Fig
708400	D32-T04	●	4	32	85	70		29.5	M6	1
708402	D32-T05	●	5							
708404	D32-T06	●	6							
708406	D32-T07	●	7							
708408	D32-T08	●	8							
708410	D32-T09	●	9		85	55	38		M8	
708412	D32-T10	●	10							
708414	D32-T12	●	12							
708416	D32-T13	●	13							
708418	D32-T14	●	14							
708420	D32-T16	●	16							
708422	D32-T18	●	18							
708424	D32-T20	●	20					77	14	2
708426	D32-T22	●	22							
708428	D32-T25	●	25							
708430	D32-MTA1	●	MTA1					-	-	
708432	D32-MTA2	●	MTA2							
708434	D32-MTA3	●	MTA3							

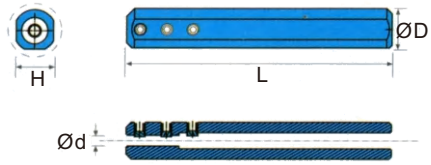
D40-T..车床刀套 Lathe sleeve

订购编码 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) d	D	L	L1	D1	H	M	Fig
708436	D40-T04	●	4	40	100	85	46	38	M8	1
708438	D40-T05	●	5							
708440	D40-T06	●	6							
708442	D40-T07	●	7							
708444	D40-T08	●	8							
708446	D40-T09	●	9							
708448	D40-T10	●	10							
708450	D40-T12	●	12							
708452	D40-T13	●	13							
708454	D40-T14	●	14							
708456	D40-T16	●	16							
708458	D40-T18	●	18							
708460	D40-T20	●	20					77	14	2
708462	D40-T22	●	22							
708464	D40-T25	●	25							
708466	D40-T30	●	30							
708468	D40-T32	●	32							
708470	D40-MTA1	●	MTA1					-	-	
708472	D40-MTA2	●	MTA2							
708474	D40-MTA3	●	MTA3							
708476	D40-MTA4	●	MTA4							

D50-T..车床刀套 Lathe sleeve

订购编码 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) d	D	L	L1	D1	H	M	Fig
708478	D50-T08	●	8	50	100	85	58	48	M8	1
708480	D50-T10	●	10							
708482	D50-T12	●	12							
708484	D50-T16	●	16							
708486	D50-T20	●	20							
708488	D50-T25	●	25							
708490	D50-T32	●	32					77	14	2
708492	D50-T40	●	40							
708494	D50-MTA3	●	MTA3					-	-	
708496	D50-MTA4	●	MTA4							
708498	D50-MTA5	●	MTA5							

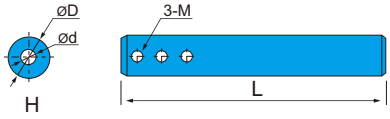
SHB小径套筒
Sleeve





Shank	订购编码 Model No.	库存 Stock	尺寸 Dimension (mm) ØD	Ød	L	H	适用柄型 Assembly Holder	零件 Parts 螺丝Screw	扳手Wrench	订购编码 Order Number
Steel	SHB-1202	●	12	2	100	11	2mm	JM40	L2	708141
	SHB-1203	●	12	3	100	11	3mm			708142
	SHB-1204	●	12	4	100	11	4mm			708143
	SHB-1205	●	12	5	100	11	5mm			708144
	SHB-1206	●	12	6	100	11	6mm			708145
	SHB-1602	●	16	2	100	15	2mm	JM40	L2	708100
	SHB-1603	●	16	3	100	15	3mm			708102
	SHB-1604	●	16	4	100	15	4mm			708104
	SHB-1605	●	16	5	100	15	5mm			708106
	SHB-1606	●	16	6	100	15	6mm			708108
	SHB-1607	●	16	7	100	15	7mm	JM60	L3	708110
	SHB-1608	●	16	8	100	15	8mm			708112
	SHB-1610	●	16	10	100	15	10mm			708114
	SHB-2004	●	20	4	100	18	4mm			708116
	SHB-2005	●	20	5	100	18	5mm			708118
	SHB-2006	●	20	6	100	18	6mm			708120
	SHB-2008	●	20	8	100	18	8mm	JM60	L3	708122
	SHB-2010	●	20	10	100	18	10mm			708124
	SHB-2012	●	20	12	100	18	12mm			708126
	SHB-2204	●	22	4	100	20	4mm	JM40	L2	708128
	SHB-2205	●	22	5	100	20	5mm			708130
	SHB-2206	●	22	6	100	20	6mm			708132
	SHB-2208	●	22	8	100	20	8mm	JM60	L2	708134
	SHB-2210	●	22	10	100	20	10mm			708136
	SHB-2212	●	22	12	100	20	12mm			708138
	SHB-2216	●	22	16	100	20	16mm			708140

小径侧固式延长连接杆
Small diameter side fixed extended connecting rod



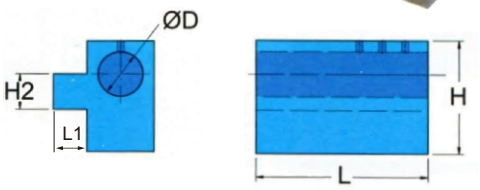


Shank	订购编码 Model No.	库存 Stock	尺寸 Dimension (mm) ØD	Ød	L	M	适用柄型 Assembly Holder	零件 Parts 扳手Wrench	订购编码 Order Number
Steel	C08-SLN03-110L	●	8	3	110	M3	3mm	L1.5	708150
	C08-SLN04-110L	●	8	4	110	M3	4mm		708151
	C10-SLN03-150L	●	10	3	150	M3	3mm		708152
	C10-SLN04-150L	●	10	4	150	M4	4mm	L2	708153
	C10-SLN06-150L	●	10	6	150	M4	6mm		708154
	C12-SLN03-150L	●	12	3	150	M4	3mm		708155
	C12-SLN04-150L	●	12	4	150	M4	4mm		708156
	C12-SLN06-150L	●	12	6	150	M4	6mm		708157
	C16-SLN04-150L	●	16	4	150	M4	4mm		708158
	C16-SLN04-200L	●	16	4	200	M4	4mm		708159
	C16-SLN06-150L	●	16	6	150	M4	6mm		708160
	C16-SLN06-200L	●	16	6	200	M4	6mm		708161
	C16-SLN08-150L	●	16	8	150	M6	8mm	L3	708162
	C16-SLN08-200L	●	16	8	200	M6	8mm		708163
	C20-SLN06-150L	●	20	6	150	M4	6mm	L2	708164
	C20-SLN06-200L	●	20	6	200	M4	6mm		708165
	C20-SLN08-150L	●	20	8	150	M6	8mm	L3	708166
	C20-SLN08-200L	●	20	8	200	M6	8mm		708167
	C20-SLN10-150L	●	20	10	150	M6	10mm		708168
	C20-SLN10-200L	●	20	10	200	M6	10mm		708169
	C20-SLN12-150L	●	20	12	150	M6	12mm		708170
	C20-SLN12-200L	●	20	12	200	M6	12mm		708171
	C32-SLN06-150L	●	32	6	150	M6	6mm		708172
	C32-SLN08-150L	●	32	8	150	M6	8mm		708173
	C32-SLN10-150L	●	32	10	150	M6	10mm		708174
	C32-SLN12-150L	●	32	12	150	M6	12mm		708175

SBHA内孔刀具定位座
SBHA Lathe Quick Center Block

方柄 快速 转换 圆柄

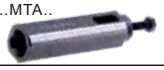




订购编码 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) D	L	L1	H	H2
708200	SBHA 1616	●	16	65	20	37	16
708201	SBHA 2016	●	16	65	20	37	20
708202	SBHA 2020	●	20	65	20	47	20
708203	SBHA 2025	●	25	65	25	47	20
708204	SBHA 2032	●	32	80	32	55	20
708205	SBHA 2040	●	40	90	40	65	20
708206	SBHA 2516	●	16	70	16	42	25
708207	SBHA 2520	●	20	70	16	42	25
708208	SBHA 2525	●	25	70	25	53	25
708209	SBHA 2532	●	32	80	32	60	25
708210	SBHA 2540	●	40	90	40	65	25
708211	SBHA 3225	●	25	80	32	66	32
708212	SBHA 3232	●	32	90	32	66	32
708213	SBHA 3240	●	40	100	40	83	32
708214	SBHA 3250	●	50	120	50	83	32

车床转换刀座/变径套筒
Lathe Conversion Tool Holder / Reducing Sleeve



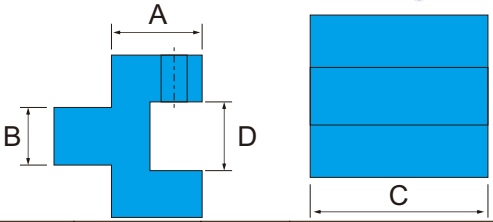
		规格尺寸 Dimensions	单价 RMB
SHB..ER.. 	四面有平面	SHB16-ER16-80 SHB20-ER20-80 SHB20-ER25-80	80 80 90
SHB..MTA.. 	四面有平面	SHB20-25-MTA2 SHB20-30-MTA3	80 80

车床延伸刀座
Lathe extension tool holder

方柄 快速 转换 方柄

主要用于车床排刀座和内径刀杆的长度补偿使用。
It is mainly used for lathe cutter bed and The length compensation of inner diameter cutter bar is used.





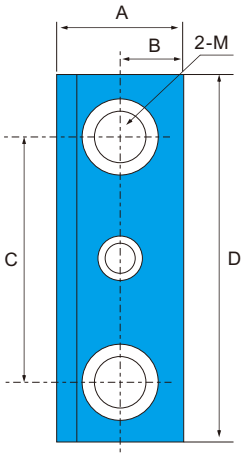
订购编码 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) A	B	C	D	
708228	CCYS 2020	●	35	20	90	25	
708229	CCYS 2525	●	40	25	90	30	

数控车床车刀压紧块

NC lathe tool pressing block

YJK..





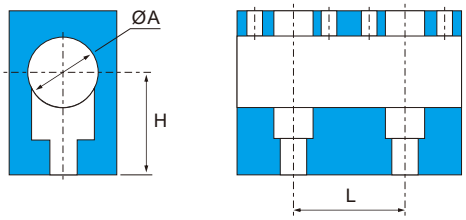
两个压紧块利用锲块压紧原理，可以牢固的压紧车刀。

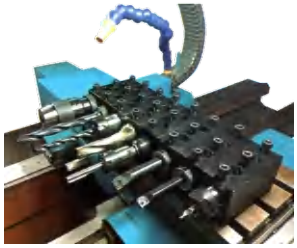
The two pressing blocks can firmly press the turning tool by using the wedge block pressing principle.

编码 Order	规格型号 Model No.	尺寸 Dimension (mm)			
		C	A	B	M
708260	3020-10-M8	30	20x20	10	M8
708261	3025-10-M8	30	25x25	10	M8
708262	3520-09-M8	35	20x20	9	M8
708263	3520-10-M8	35	20x20	10	M8
708264	3525-10-M8	35	25x25	10	M8
708265	3525-12-M8	35	25x25	12	M8
708266	3525-08-M8	35	25x25	8	M8
708267	3625-10-M8	36	25x25	10	M8
708268	3820-09-M6	38	20x20	9	M6
708269	3820-10-M8	38	20x20	10	M8
708270	4020-08-M6	40	20x20	8	M6
708271	4020-09-M6	40	20x20	9	M6
708272	4020-10-M8	40	20x20	10	M8
708273	4520-10-M8	45	20x20	10	M8
708274	4525-10-M8	45	25x25	10	M8
708275	4825-10-M8	48	25x25	10	M8
708276	4825-13-M8	48	25x25	13	M8
708277	5025-09-M8	50	25x25	9	M8
708278	5025-09-M10	50	25x25	9	M10
708279	5025-10-M8	50	25x25	10	M8
708280	5525-10-M8	55	25x25	10	M8
708281	5525-10-M10	55	25x25	10	M10
708282	6025-10-M8	60	25x25	10	M8
708283	6025-10-M10	60	25x25	10	M10
708284	6032-13-M10	60	32x32	13	M10
708285	6032-14-M12	60	32x32	14	M12
708286	6032-15-M8	60	32x32	15	M8
708287	6532-10-M10	65	32x32	10	M10
708288	7032-10-M8	70	32x32	10	M8
708289	8032-10-M8	80	32x32	10	M8

数控车床排刀刀座

Tool holder of CNC lathe





节省换刀时间，适合钻孔、攻丝等内孔工序加工。

It can save tool changing time and is suitable for drilling and tapping.

编码 Order	规格型号 Model No.	尺寸 Dimension (mm)		
		H	L	A
708230	PDDZ3540-25	35	40	25
708231	PDDZ3250-20	32	50	20
708232	PDDZ3250-25	32	50	25
708233	PDDZ3550-20	35	50	20
708234	PDDZ3550-25	35	50	25
708235	PDDZ4050-20	40	50	20
708236	PDDZ4050-25	40	50	25
708237	PDDZ4050-32	40	50	32
708238	PDDZ4550-20	45	50	20
708239	PDDZ4550-25	45	50	25
708240	PDDZ4550-32	45	50	32
708241	PDDZ5050-20	50	50	20
708242	PDDZ5050-25	50	50	25
708243	PDDZ5050-32	50	50	32
708244	PDDZ5550-20	55	50	20
708245	PDDZ5550-25	55	50	25
708246	PDDZ5550-32	55	50	32
708247	PDDZ6050-20	60	50	20
708248	PDDZ6050-25	60	50	25
708249	PDDZ6050-32	60	50	32
708250	PDDZ7050-20	70	50	20
708251	PDDZ7050-25	70	50	25
708252	PDDZ7050-32	70	50	32

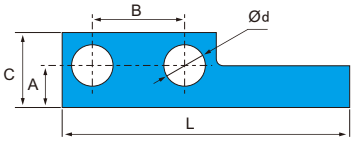
双刀位车床刀座

Tool holder of double tool position lathe

用于车床刀架刀位安装两把刀具使用，解决了车床缺少刀位的情况，减少了换刀时间，提高了工作效率。

It is used to install two cutting tools in the tool position of lathe tool holder, which solves the problem of latheThe lack of tool position reduces the tool change time and improves the work efficiency.

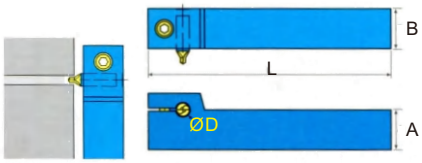


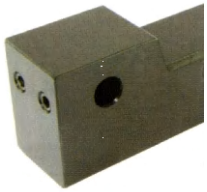


编码 Order	规格型号 Model No.	尺寸 Dimension (mm)				
		A	d	B	C	L
708290	CCSGW20-20	20	20	50	40	150
708291	CCSGW20-25	20	25	55	45	170
708292	CCSGW25-20	25	20	55	45	170
708293	CCSGW25-25	25	25	55	45	170

MCH中心钻刀杆

Centre-drill Holder

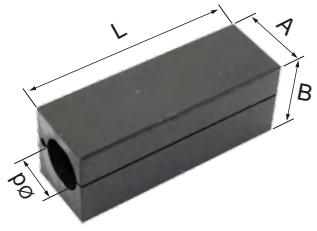




订购编码 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm)					零件 Parts 螺丝 Screw	扳手 Wrench
			ØD	A	B	L	H1		
708220	MCH2020K-05	●	5	20	20	125	20	FS40	L2
708221	MCH2020K-06	●	6	20	20	125	20	FS50	L2.5
708222	MCH2020K-08	●	8	20	20	125	20	FS60	L3
708223	MCH2020K-10	●	10	20	20	125	20	FS80	L4
708224	MCH2525M-05	●	5	25	25	150	25	FS40	L2
708225	MCH2525M-06	●	6	25	25	150	25	FS50	L2.5
708226	MCH2525M-08	●	8	25	25	150	25	FS60	L3
708227	MCH2525M-10	●	10	25	25	150	25	FS80	L4

车床方变圆防振刀套

Tool holder of double tool position lathe



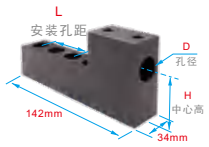
用于车床方型刀架转换为内孔刀架。

It is used for the conversion of lathe square turret to inner hole turret.

编码 Order	规格 Model	Ød	A	B	L
708620	WTD1616-4	4	16	16	
708621	WTD1616-5	5	16	16	
708622	WTD1616-6	6	16	16	
708623	WTD1616-7	7	16	16	
708624	WTD1616-8	8	16	16	
708625	WTD1616-10	10	16	16	
708626	WTD1616-12	12	16	16	
708627	WTD2016-4	4	20	16	
708628	WTD2016-5	5	20	16	
708629	WTD2016-6	6	20	16	
708630	WTD2016-7	7	20	16	
708631	WTD2016-8	8	20	16	
708632	WTD2016-10	10	20	16	
708633	WTD2020-4	4	20	20	

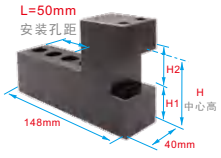
编码 Order	规格 Model	Ød	A	B	L
708634	WTD2020-5	5	20	20	40
708635	WTD2020-6	6	20	20	45
708636	WTD2020-7	7	20	20	45
708637	WTD2020-8	8	20	20	45
708638	WTD2020-10	10	20	20	
708639	WTD2020-12	12	20	20	
708640	WTD2020-14	14	20	20	
708641	WTD2525-6	6	25	25	
708642	WTD2525-8	8	25	25	
708643	WTD2525-10	10	25	25	
708644	WTD2525-12	12	25	25	
708645	WTD2525-14	14	25	25	
708646	WTD2525-16	16	25	25	
708647	WTD2525-20	20	25	25	

钻孔刀架
Lathe Drilling Tool Post



规格	Dimensions			单价
	D	H	L	RMB
ZKDJ20-4050	20	40	50	108
ZKDJ20-4550	20	45	50	108
ZKDJ20-5040	20	50	40	108
ZKDJ20-5050	20	50	50	108
ZKDJ20-5550	20	55	50	117
ZKDJ20-5565	20	55	65	117
ZKDJ20-5650	20	56	50	117
ZKDJ20-6050	20	60	50	117
ZKDJ20-6350	20	63	50	125
ZKDJ20-7050	20	70	50	125
ZKDJ25-4050	25	45	50	117
ZKDJ25-5050	25	50	50	117
ZKDJ25-5565	25	55	65	117
ZKDJ25-6050	25	60	50	125
ZKDJ25-7050	25	70	50	125

正反刀架
Lathe Drilling Tool Post



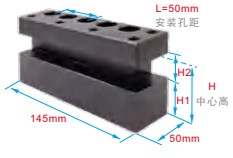
规格	Dimensions			单价
	H1	H2	H	RMB
ZFDJ1616-4050	24	35	40	125
ZFDJ1616-4550	29	35	45	125
ZFDJ1616-5050	34	35	50	125
ZFDJ1616-5550	39	35	55	141
ZFDJ1616-6050	44	35	60	141
ZFDJ1616-6550	49	35	65	158
ZFDJ1616-7050	54	35	70	158
ZFDJ2020-4050	20	42	40	125
ZFDJ2020-4550	25	42	45	125
ZFDJ2020-5050	30	42	50	125
ZFDJ2020-5550	35	42	55	141
ZFDJ2020-6050	40	42	60	141
ZFDJ2020-6550	45	42	65	158
ZFDJ2020-7050	50	42	70	158

单刀架
Lathe Drilling Tool Post



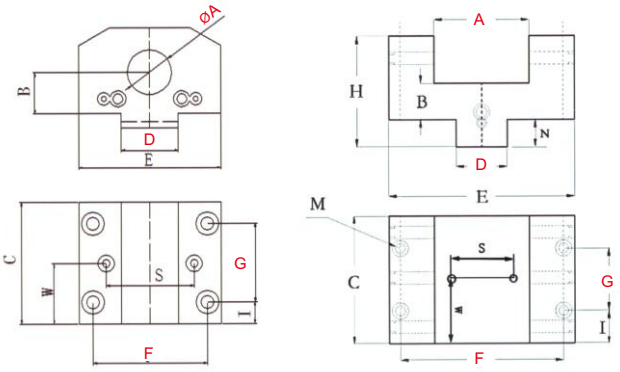
规格	Dimensions			单价
	H1	H2	H	RMB
DDJ1616-4050	24	22	40	125
DDJ1616-4550	29	22	45	125
DDJ1616-5050	34	22	50	125
DDJ1616-5550	39	22	55	141
DDJ1616-6050	44	22	60	141
DDJ1616-6550	49	22	65	158
DDJ1616-7050	54	22	70	158
DDJ2020-4050	20	24	40	125
DDJ2020-4550	25	24	45	125
DDJ2020-5050	30	24	50	125
DDJ2020-5550	35	24	55	141
DDJ2020-6050	40	24	60	141
DDJ2020-6550	45	24	65	158
DDJ2020-7050	50	24	70	158

双刀架
Lathe Drilling Tool Post



规格	Dimensions			单价
	H1	H2	H	RMB
SDJ1616-4050	24	22	40	135
SDJ1616-4550	29	22	45	135
SDJ1616-5050	34	22	50	135
SDJ1616-5550	39	22	55	160
SDJ1616-6050	44	22	60	160
SDJ1616-6550	49	22	65	185
SDJ1616-7050	54	22	70	185
SDJ2020-4050	20	24	40	135
SDJ2020-4550	25	24	45	135
SDJ2020-5050	30	24	50	135
SDJ2020-5550	35	24	55	160
SDJ2020-6050	40	24	60	160
SDJ2020-6550	45	24	65	185
SDJ2020-7050	50	24	70	185

数控车床刀塔刀座
Tool holder of CNC lathe turret

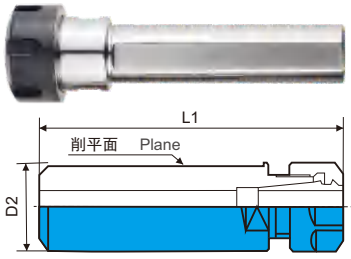


F58-G20-D10-A25	F72-G45-D16-A32	F68-G42-D30-A32
		
F88-G56-D40-A40	F71-G43-D25-A40	F70-G50-凹20-A40
		

F71-G43-D25-开口	F62-G31-D20-A32	F72-G46-D20-A40	F75-G48-D20-A32	F75-G56-D20-A40	F76-G43-D20-A40	F76-G35-25凹槽+开口
						
F76-G35-D25凹台-A40	F76-G35-凹25-A40	F79-G37-D20-A25	F80-G55-D20-A50	F80-G60-D20-A32	F80-G40-D20-A32	F80-G40-D20-A40
						
F80-G40-D20+开口	F80-G45挂台-A32	F80-G60-凹20-A40	F88-G52-D20-A40	F56-G39-D18-A25	F66-G36-D25-A32	F72-G56-D20-A40
						
F58-G20-D10+开口	F72-G45-D16-A40	F68-G42-D30开口40/50	F70-G45-D20开口50	F58-G32-D16-A25	F70-G45-D20-A50	F70-G35-凹20-A32
						
F79-G56-D40-A40	F70-G45-D20-A32	哈斯T10F70-G45-A32	F85-G66-D20-A50	津上F72-G67-D20-A32	F70-G52-D16-A40	
						

数控车床延长杆-单面削平面

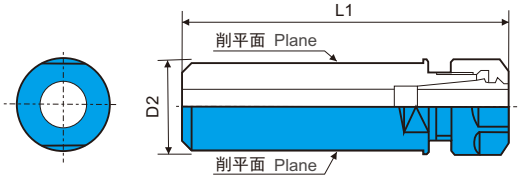
CNC lathe extension rod
- single side plane cutting



订购 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) L1	D			筒夹 Collet	扳手 Wrench	单价 Price
708540	SL12-ER11A-100-DM	●	100	12			LMER11A	BSER11A	300
708541	SL16-ER16A-100-DM	●	100	16			LMER16A	BSER16A	300
708542	SL16-ER20A-100-DM	●	100	16			LMER20A	BSER20A	300
708543	SL20-ER16A-100-DM	●	100	20			LMER16A	BSER16A	300
708544	SL20-ER20A-100-DM	●	100	20			LMER20A	BSER20A	300
708545	SL20-ER25-100-DM	●	100	20			LMER25	BSER25	300
708546	SL25-ER16A-100-DM	●	100	25			LMER16A	BSER16A	300
708547	SL25-ER20A-100-DM	●	100	25			LMER20A	BSER20A	300
708548	SL25-ER25-100-DM	●	100	25			LMER25	BSER25	300
708549	SL32-ER20A-100-DM	●	100	32			LMER20A	BSER20A	400
708550	SL32-ER25-100-DM	●	100	32			LMER25	BSER25	400
708551	SL32-ER32-100-DM	●	100	32			LMER32	BSER32	400
708552	SL32-ER40-100-DM	●	100	32			LMER40	BSER40	500

数控车床延长杆-双面削平面

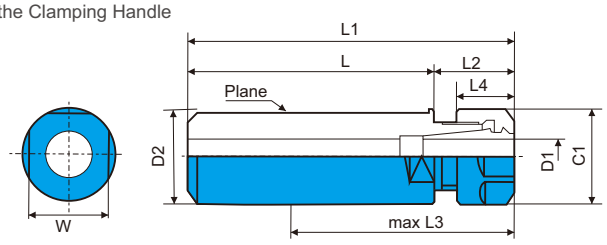
CNC lathe extension rod - double side plane cutting



订购 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) L1	D			筒夹 Collet	扳手 Wrench	单价 Price
708560	SL12-ER11A-100-SM	●	100	12			LMER11A	BSER11A	300
708561	SL16-ER16A-100-SM	●	100	16			LMER16A	BSER16A	300
708562	SL16-ER20A-100-SM	●	100	16			LMER20A	BSER20A	300
708563	SL20-ER16A-100-SM	●	100	20			LMER16A	BSER16A	300
708564	SL20-ER20A-100-SM	●	100	20			LMER20A	BSER20A	300
708565	SL20-ER25-100-SM	●	100	20			LMER25	BSER25	300
708566	SL25-ER16A-100-SM	●	100	25			LMER16A	BSER16A	300
708567	SL25-ER20A-100-SM	●	100	25			LMER20A	BSER20A	300
708568	SL25-ER25-100-SM	●	100	25			LMER25	BSER25	300
708569	SL32-ER20A-100-SM	●	100	32			LMER20A	BSER20A	400
708570	SL32-ER25-100-SM	●	100	32			LMER25	BSER25	400
708571	SL32-ER32-100-SM	●	100	32			LMER32	BSER32	400
708572	SL32-ER40-100-SM	●	100	32			LMER40	BSER40	500

高精度数控车床延长杆

Lathe Clamping Handle

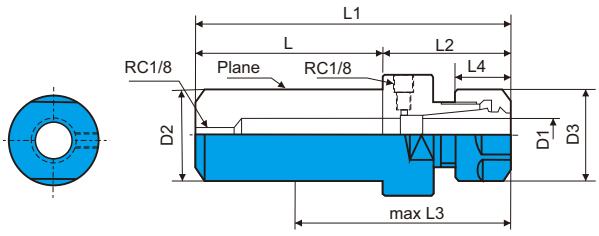


订购 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) L	L1	L2	max L3	L4	C1	D1	D2	筒夹 Collet	扳手 Wrench
708500	SSH16-ECH7-32	●	32	48	16	35				16		
708502	SSH16-ECH7-70	●	70	94	24	55	11.5	23	0. 5–7		ER11	BSER11A
708504	SSH20-ECH7-45	●	45	61	16	45				20		
708506	SSH20-ECH7-70	●	70	94	24	55						
708508	SSH20-ECH7-105	●	105	129	24	70						
708510	SSH20-ECH10-40	●	40	63	23	45	17	32	0. 5–10		ER16	BSER16A
708512	SSH20-ECH10-70	●	70	105	35	70						
708514	SSH20-ECH10-105	●	105	140	35	80						
708516	SSH20-ECH13-70	●	70	106	36	75	19	36	1-13		ER20	BSER20A
708518	SSH25-ECH7-62	●	62	86	24	55	11.5	23	0. 5–7		ER11	BSER11A
708520	SSH25-ECH10-70		70	105	35	70	17	32	0. 5–10	25	ER16	BSER16A
708522	SSH25-ECH10-105		105	140	35	80						
708524	SSH25-ECH13-70		70	106	36	75	19	36	1-13		ER20	BSER20A
708526	SSH25-ECH16-70		70	110	40	80	20	43	1-16		ER25	BSER25
708528	SSH32-ECH13-80		80	116	36	75	19	36	1-13		ER20	BSER20A
708530	SSH32-ECH16-80		80	120	40	80	20	43	1-16	32	ER25	BSER25
708532	SSH32-ECH20-80		80	128	48	100						
708534	SSH40-ECH20-80		80	128	48	100	23	51	2-20	40	ER32	BSER32
708536	SSH40-ECH20-110		110	158	48	100						

高精度数控车床延长杆（侧面+端面冷却）

Collet Holder For Coolant(Side Supply)

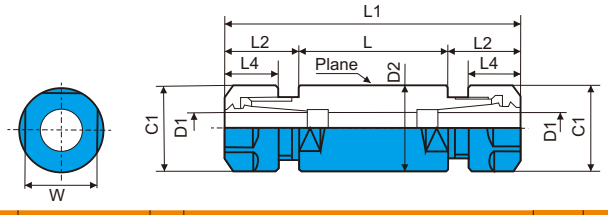
It is used together with a coolant collet.
A piping screw is in the back or the side of a holder.



订购 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) L	L1	L2	max L3	L4	D3	D1	D2	筒夹 Collet	扳手 Wrench
708700	SSH20-ECH7OH-40	●	70	106	36	83	11.5	23	0. 5–7	20	ER11	BSER11A
708702	SSH20-ECH10OH-40	●	40	85	45	55	17	32	0. 5–10		ER16	BSER16A
708704	SSH20-ECH10OH-70	●	70	115	45	85						
708706	SSH20-ECH13OH-70	●	70	117. 5	47. 5	85	19	36	1–13		ER20	BSER20A
708708	SSH25-ECH10OH-70	●	70	115	45	85	17	32	0. 5–10	25	ER16	BSER16A
708710	SSH25-ECH10OH-105	●	105	150	45	95						
708712	SSH25-ECH13OH-70	●	70	117. 5	47. 5	85	19	36	1–13		ER20	BSER20A
708714	SSH25-ECH16OH-70	●	70	121	51	85	20	43	1–16		ER25	BSER25
708716	SSH32-ECH13OH-75	●	75	122. 5	47. 5	85	19	36	1–13	32	ER20	BSER20A
708718	SSH32-ECH16OH-75	●	75	126	51	85	20	43	1–16		ER25	BSER25
708720	SSH32-ECH20OH-75	●	75	134	59	90	23	51	2–20		ER32	BSER32
708722	SSH3/4-ECH10OH-105	●	105	150	45	94	17	32	0. 5–10	19. 05	ER16	BSER16A
708724	SSH1-ECH10OH-105	●	105	150	45	94				25. 4		

双头高精度数控车床延长杆

Double Head Clamping Handle Of Lathe

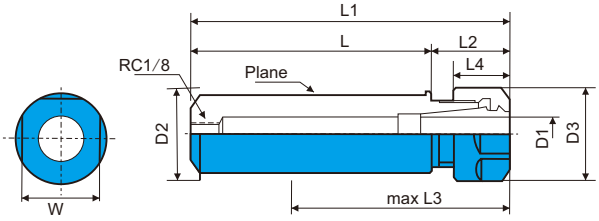


订购 Order Number	规格型号 Model No.	库存 Stock	尺寸 Dimension (mm) L	L1	L2	C1	L4	D1	D2	筒夹 Collet	扳手 Wrench
708600	SSH20-ECH7WS-33	●	33	65					20		
708602	SSH20-ECH7WS-53	●	53	85	16	19	11.5	0. 5–7		ER11	BSER11A
708604	SSH3/4-ECH7WS-33	●	33	65					19.05		
708606	SSH3/4-ECH7WS-53	●	53	85							
708608	SSH22-ECH10WM-70	●	70	122							
708610	SSH22-ECH10WM-85	●	85	137	26	22	18	0. 5–10	22	ER16	BSER16M
708612	SSH22-ECH7WMS-100	●	100	142.5	16.5	19	11.5	0.5-7		ER11	BSER11A
708614	SSH22-ECH10WMS-100	●	100	142.5	26	22	18	0.5-10		ER16	BSER16M
708616	SSH32-ECH13WM-55	●	55	109	27	28	19	1–13	32	ER20	BSER20M
708618	SSH32-ECH13WM-85	●	85	138	27	28	19			ER20	BSER20M

高精度数控车床延长杆（端面冷却）

Collet Holder For Coolant

It is used together with a coolant collet.
A piping screw is in the back or the side of a holder.



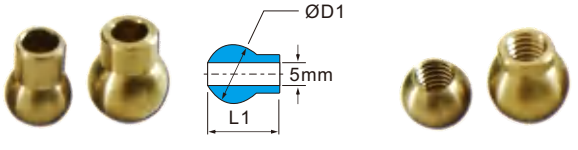
订购 Order Number	规格型号 Model No	库存 Stock	尺寸 Dimension (mm) L	L1	L2	max L3	L4	D3	D1	D2	D2	筒夹 Collet	扳手 Wrench
708800	SSH20-ECH7SOH-40	●	40	56	16	33	11.5	19	0. 5–7			ER11	BSER11A
708802	SSH20-ECH10SOH-40	●	40	62	22	36				20	17		
708804	SSH20-ECH10SOH-70	●	70	90	22	66	17	28	0. 5–10			ER16	BSER16A
708806	SSH25-ECH10SOH-40	●	40	63	23	37				25	22		
708808	SSH25-ECH10SOH-50	●	50	73	23	47							
708810	SSH25-SOH13SOH-50	●	50	73. 5	23. 5	46	19	34	1–13			ER20	BSER20A
708812	SSH32-ECH20SOH-80	●	80	115	35	75	23	50	2–20	32	36	ER32	BSER32

刀塔出水铜帽

Water outlet copper cap of lathe turret

安装在车床刀座上，调节出水方向使用。

It is installed on the lathe tool holder and used to adjust the water outlet direction.



编码 Order	规格型号 Model No.	尺寸 Dimension (mm) D1	L1	D2	L2
708580	CC-CSLM-1	12	15	-	-
708581	CC-CSLM-2	10	14	-	-
708582	CC-CSLM-3	-	-	12	12
708583	CC-CSLM-4	-	-	10	9

方柄车床拉料器

Bar Puller For CNC Lathe(Square Handle)

特点： 拉料器适合安装在数控转台上车床或其他自动专用机床替代自动送条机。
为了重复拉长是非常精确的，使用拉杆是一种非常方便有效的自动替代方案机器。

Feature: Bar Puller is great for installing on the turret of CNC Lathes or other Automatic special purpose machines to substitute for automatic bar feeder. For the repetitive pulling length is very accurate; the use of Bar Puller is a very convenient and effective alternative for automatic machines.



提示：选购产品时请注意，选择钳口是否需要合金。

Note:
When You Choose, Please Choose Insert Alloy Or No Alloy Jaw.

应用：
1、拉杆开合直径应小于工件直径3～5 mm。
2、夹持工件长度从爪面算起必须大于16mm。
3、夹持范围：12～48 mm。

Application:
1. The opening of bar puller shall be 3~5 mm less than the diameter of work piece.
2. The gripping length has to be more than 16mm from chuck surface.
3. Gripping range:12~48mm.

>> Dimensions (mm)

Dimensions 尺寸 / 型号Type	订购编码 Order Number	A	B	有无镶合金 Alloy or No alloy Jaw.	夹持范围 Gripping Range	Weight (kg)	Price (RMB)
LLQ1616	707650	16	16	镶合金 Alloy Jaw	12mm-48mm	0.3	400
LLQ1616N	707652	16	16	无合金 No Alloy Jaw	12mm-48mm	0.3	350
LLQ2020	707654	20	20	镶合金 Alloy Jaw	12mm-48mm	0.4	400
LLQ2020N	707656	20	20	无合金 No Alloy Jaw	12mm-48mm	0.4	350
LLQ2525	707658	25	25	镶合金 Alloy Jaw	12mm-48mm	0.6	400
LLQ2525N	707660	25	25	无合金 No Alloy Jaw	12mm-48mm	0.6	350
LLQ3232	707662	32	32	镶合金 Alloy Jaw	12mm-48mm	0.9	700
LLQ3232N	707664	32	32	无合金 No Alloy Jaw	12mm-48mm	0.9	650

圆柄车床拉料器

Bar Puller For CNC Lathe(Round Handle)

特点： 拉料器适合安装在数控转台上车床或其他自动专用机床替代自动送条机。
为了重复拉长是非常精确的，使用拉杆是一种非常方便有效的自动替代方案机器。

Feature: Bar Puller is great for installing on the turret of CNC Lathes or other Automatic special purpose machines to substitute for automatic bar feeder. For the repetitive pulling length is very accurate; the use of Bar Puller is a very convenient and effective alternative for automatic machines.



提示：选购产品时请注意，选择钳口是否需要合金。

Note:
When you choose, please choose insert alloy or no alloy.

应用：
1、拉杆开合直径应小于工件直径3～5 mm。
2、夹持工件长度从爪面算起必须大于16mm。
3、夹持范围：12～48 mm。

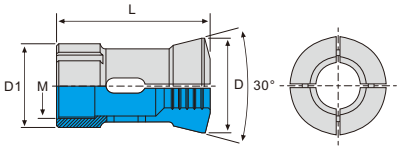
Application:
1. The opening of bar puller shall be 3~5 mm less than the diameter of work piece.
2. The gripping length has to be more than 16mm from chuck surface.
3. Gripping range:12~48mm.

>> Dimensions (mm)

Dimensions 尺寸 / 型号Type	订购编码 Order Number	A	有无镶合金 Alloy or No alloy Jaw.	夹持范围 Gripping Range	Weight (kg)	Price (RMB)
LLQ16	707670	Ø 16	镶合金 Alloy Jaw	12mm-48mm	0.3	400
LLQ16N	707672	Ø 16	无合金 No Alloy Jaw	12mm-48mm	0.3	350
LLQ20	707674	Ø 20	镶合金 Alloy Jaw	12mm-48mm	0.4	400
LLQ20N	707676	Ø 20	无合金 No Alloy Jaw	12mm-48mm	0.4	350
LLQ25	707678	Ø 25	镶合金 Alloy Jaw	12mm-48mm	0.6	400
LLQ25N	707680	Ø 25	无合金 No Alloy Jaw	12mm-48mm	0.6	350
LLQ32	707682	Ø 32	镶合金 Alloy Jaw	12mm-48mm	0.9	700
LLQ32N	707684	Ø 32	无合金 No Alloy Jaw	12mm-48mm	0.9	650

标准拉式夹头
Standard pull chuck



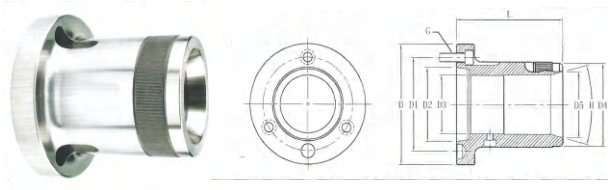


- 拉式夹头主要针对国内外各种数控加工中心、数控车床上使用的圆、四方、六方等专用夹头。
- 拉式夹头型号规格完整有28型、35/35型、45/46型、52型等型号夹头可以选用搭配适用于各类数控车床，磨床和各式专用机械，拉式夹头系列产品尺寸依照标准规格设计，搭配拉式轴头能与机床原有的油压卡盘替换安装，无需尺寸修改。

- Pull type chucks are mainly designed for circular, square, hexagonal and other specialized chucks used in various CNC machining centers and CNC lathes both domestically and internationally.
- The models and specifications of pull type chucks are complete, including 28 types, 35/35 types, 45/46 types, and 52 types. The chucks can be selected and matched, suitable for various CNC lathes, grinders, and various specialized machinery. The size of the pull type chuck series products is designed according to standard specifications, and can be replaced and installed with the original hydraulic chuck of the machine tool with the pull type spindle, without the need for size modification。

型号 Model	D	L	D1	M	Max Dia ○	Max Dia ⬡	Max Dia □
CCJT28	Ø49	103	Ø40	M34x2.0	Ø28	H24	S18
CCJT36	Ø60	100	Ø49	M44x2.0	Ø36	H30	S30
CCJT36-B	Ø65	103	Ø56	M44x2.0	Ø36	H30	S30
CCJT42	Ø65	103	Ø56	M50x2.0	Ø42	H31	S30
CCJT46-S	Ø74	103	Ø63	M55x2.0	Ø46	H40	S32
CCJT46	Ø75	103	Ø65	M55x2.0	Ø46	H40	S32
CCJT52	Ø80	103	Ø70	M60x2.0	Ø52	H45	S37
CCJT56	Ø87	103	Ø75	M65x2.0	Ø56	H48	S39
CCJT65	Ø100	120	Ø85	M75x2.0	Ø68	H58	S48
CCJT630	Ø55	80	Ø43	M37x1.5	Ø30	H25	S21
CCJT640	Ø70	98	Ø56	M48x1.5	Ø44	H38	S31

标准拉式轴头
Standard pull shaft head



- 拉式轴头其精密度在0.005mm
- 数控拉式夹头型号规格完整有A2-3型、A2-4型、A2-6型等型号可以选用搭配
- 适用于各类数控车床，磨床和各式专用机械，拉式轴头系列产品尺寸能与机床上原有的油压卡盘替换安装，无需尺寸修改

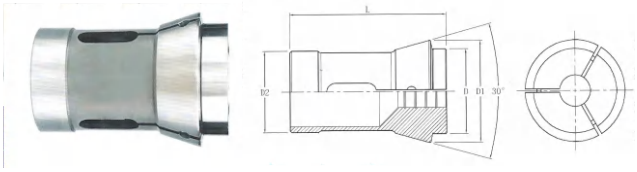
- Pull shaft head with precision of 0.005mm
- Models of CNC pull type chucks are available in A2-3 type, A2-4 type, A2-6 type, etc.
- Applicable to all kinds of CNC lathes, grinding machines and all kinds of special machinery, pull shaft head series products size and machineThe original hydraulic chuck on the bed is replaced and installed without dimensional modification.

编号 Order	型号 Model	D	D1	D2	D3	L	D4	H	D5	G	RMB
708625	CCJT-CK28(A2-3)	Ø94	Ø70.6	Ø53.975	Ø38	Ø38	102	24°	Ø44.5	3-M10X25	
708626	CCJT-CK36(A2-4)	Ø110	Ø82.6	Ø63.51	Ø56	Ø56	115	30°	Ø63.5	3-M10X25	
708627	CCJT-CK46(A2-5)	Ø135	Ø82.56	Ø82.56	Ø65	Ø65	124	30°	Ø73.5	3-M10X25	
708628	CCJT-CK52(A2-6)	Ø158	Ø133.4	Ø106.38	Ø70	Ø70	128	30°	Ø78.5	6-M12X28	

编号 Order	型号 Model	D	D1	D2	D3	L	D4	H	D5	G	RMB
708630	CCJT-YS28(A2-3)	Ø110	Ø82.6	Ø63.51	Ø49	115	Ø75	30°	Ø58.5	3-M10X25	
708631	CCJT-CK36(A2-4)	Ø128	Ø104.8	Ø82.56	Ø56	115	Ø82	30°	Ø63.5	3-M10X25	
708632	CCJT-YS46(A2-5)	Ø128	Ø104.8	Ø82.56	Ø49	115	Ø76	30°	Ø58.5	3-M10X25	
708633	CCJT-CK52(A2-6)	Ø158	Ø133.4	Ø106.38	Ø65	126	Ø95	30°	Ø73.5	6-M12X28	

如有非标可按尺寸订做

标准前推式夹头
Standard pull chuck



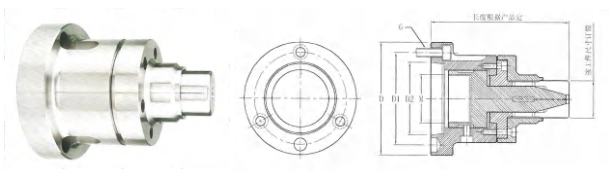
- 前推式夹头采用前推式操作，夹持工件时无轴向移动
- 前推式夹头型号规格完整有163型、173型、185型、193型等型号夹头可以选用搭配
- 适用于各类数控车床，磨床和各式专用机械，前推式夹头系列产品尺寸依照标准
- 规格设计，搭配前推式夹头套能与机床上原有的油压卡盘替换安装，无需尺寸修改。

- The push-on chuck uses a push-up operation that does not move axially when clamping the workpiece
- The model of the front push type chuck is complete with 163 type, 173 type, 185 type, 193 type and other types of chucks.
- Applicable to all kinds of CNC lathes, grinding machines and all kinds of special machinery,
- the size of the front push type chuck series according to the standard The specification design, combined with the front push clamp, can be replaced with the original hydraulic chuck on the machine without dimension modification.

编号 Order	型号 Model	D	D1	L	D2	Max Dia ○	Max Dia ⬡	Max Dia □	RMB
708635	CCJT-163E	Ø39	Ø49	80	Ø35	Ø30	H27	S22	
708636	CCJT-173E	Ø50	Ø60	94	Ø48	Ø42	H36	S28	
708637	CCJT-185E	Ø73	Ø84	110	Ø66	Ø60	H50	S40	
708638	CCJT-193E	Ø92	Ø107	130	Ø90	Ø80	H66	S50	

以上产品均为标准夹头，如有非标可按尺寸订做

前推式内撑夹具
Push-up inner support



- 前推式内撑夹具型号规格完整有A2-3型、A2-4型、A2-6型等型号可以选用搭配
- 适用于各类数控车床，磨床和各式专用机械，前推式内撑夹具系列产品尺寸依照标准
- 规格设计，搭配前推式夹头能与机床上原有的油压卡盘替换安装，无需尺寸修改。

- The model specifications of the front push type inner support clamp are complete with A2-3 type, A2-4 type, A2-6 type and so on.
- Applicable to all kinds of CNC lathes, grinders and all kinds of special machinery, the size of the front push type internal clamps is designed according to the standard specifications, and the front push type chuck can be replaced with the original hydraulic chuck on the machine tool without dimension.modify.

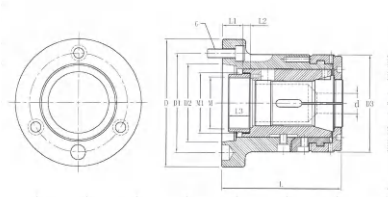
编号 Order	型号 Model	D	D1	D2	M	G	RMB
708640	CCJT-A2-3-28	Ø94	Ø70.6	Ø53.975	M32X1.5	3-M10X25	
708641	CCJT-A2-4-36	Ø110	Ø82.6	Ø63.51	M44X2.0	3-M10X25	
708642	CCJT-A2-5-46	Ø128	Ø104.8	Ø82.56	M55X2.0	3-M10X25	
708643	CCJT-A2-6-52	Ø158	Ø133.4	Ø106.38	M60X2.0	6-M12X30	

如有非标可按尺寸订做

标准前推式夹头套

Standard front push clamp





- 前推式夹头套其精密度0. 005m
- 前推式夹头套型号规格完整有A2-3型、A2-4型、A2-6型等型号可以选用搭配
- 适用于各类数控车床，磨床和各式专用机械，前推式夹头套系列产品尺寸依照标准规格设计，搭配前推式夹头能与机床上原有的油压卡盘替换安装，无需尺寸修改。

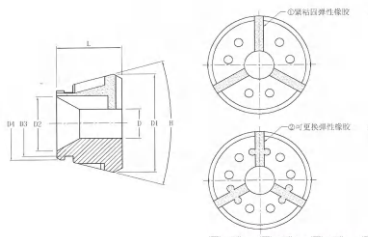
- Front push type ferrule with precision of 0.005m
- The model specifications of the front push type ferrule are complete with A2-3 type, A2-4 type, A2-6 type and so on.
- Applicable to all kinds of CNC lathes, grinding machines and all kinds of special machinery, the size of the front push type ferrule series products according to the standard The quasi-standard design, with the front push chuck can be replaced with the original hydraulic chuck on the machine, no need to modify the size.

编号 Order	型号 Model	D	D1	D2	M	M1	L	D3	d	L1	L2	L3	G	RMB
708645	CCJT-YS28(A2-4)	Ø110	Ø82.6	Ø63.51	M40X1.5	M50X1.5	110	Ø83	Ø30	20	8	23	3-M10X30	
708646	CCJT-CK36(A2-5)	Ø128	Ø104.8	Ø82.56	M55X2	M64X1.5	128	Ø103	Ø42	22	8	23	4-M10X30	
708647	CCJT-YS46(A2-6)	Ø165	Ø133.4	Ø106.38	M60X2	M80X1.5	148	Ø130	Ø52	26	8	31	4-M12X30	
708648	CCJT-CK52(A2-8)	Ø220	Ø171.4	Ø139.7	M85X2	M112X2	174	Ø158	Ø80	32	11	34	6-M16X35	
如有非标可按尺寸订做														

橡胶弹性夹头

Rubber elastic chuck





- 采用后拉式工作尺寸优化, 无多余重量
- 允许转速高, 转速增加不影响夹持力
- 通过专用反扳手, 快速更换套筒夹头
- 高耐磨性, 使用寿命长
- 橡胶密封防止铁屑、铝屑进入本体
- 精钢材质，超长寿命
- 高回转精度，跳动精度≤0. 005mm

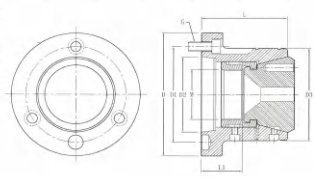
- Optimized with back pull working size, no excess weight
- Allow high speed, increase in speed does not affect clamping force
- Quickly change the collet chuck with a special counter wrench
- High wear resistance and long service life
- Rubber seal prevents iron filings and aluminum filings from entering the body
- Stainless steel material, long life
- High rotation accuracy, runout accuracy ≤0.005mm

编号 Order	型号 Model	D	D1	D2	D3	D4	L	H	RMB
708650	CCJT-XJ25	Ø4-Ø25	Ø54	Ø27	Ø34	Ø39	40	30°	
708651	CCJT-XJ35	Ø4-Ø35	Ø66	Ø37	Ø44	Ø49	42	30°	
708652	CCJT-XJ45	Ø4-Ø45	Ø83	Ø46	Ø55	Ø66	53	30°	
708653	CCJT-XJ52	Ø4-Ø52	Ø93	Ø54	Ø62.5	Ø68	56	30°	

橡胶弹性夹头套筒

Rubber elastic collet sleeve





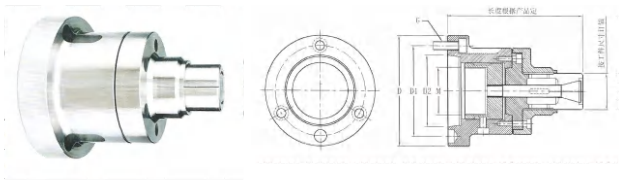
- 采用后拉式工作尺寸优化, 无多余重量
- 允许转速高, 转速增加不影响夹持力
- 通过专用反扳手, 快速更换套筒夹头
- 高耐磨性, 使用寿命长
- 橡胶密封防止铁屑、铝屑进入本体
- 精钢材质，超长寿命
- 高回转精度，跳动精度≤0. 005mm

- Optimized with back pull working size, no excess weight
- Allow high speed, increase in speed does not affect clamping force
- Quickly change the collet chuck with a special counter wrench
- High wear resistance and long service life
- Rubber seal prevents iron filings and aluminum filings from entering the body
- Stainless steel material, long life
- High rotation accuracy, runout accuracy ≤0.005mm

编号 Order	型号 Model	D	D1	D2	M	L	D3	L1	G	RMB
708655	CCJT-XJ25(A2-3)	Ø95	Ø70.6	Ø53.975	M32X1.5	76	Ø68	40	3-M10X25	
708656	CCJT-XJ35(A2-4)	Ø110	Ø82.6	Ø63.51	M44X2.0	83	Ø82	44	3-M10X25	
708657	CCJT-XJ45(A2-5)	Ø128	Ø104.5	Ø82.56	M55X2.0	90	Ø101	43	3-M10X25	
708658	CCJT-XJ52(A2-6)	Ø165	Ø133.4	Ø106.38	M60X2.0	100	Ø114	49	6-M12X30	

后拉式内撑夹具

Rear pull inner clamp

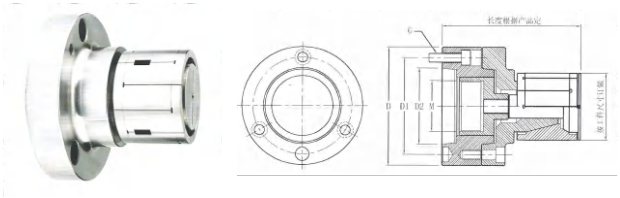


- 后拉式内撑夹具型号规格完整有A2-3型、A2-4型、A2-6型等型号可以选用搭配
- 适用于各类数控车床, 磨床和各式专用机械 前推式内撑夹具系列产品尺寸依照标准规格设计, 与机床原有的油压卡盘替换安装, 无需修改尺寸。
- The rear pull type inner support clamp model specifications are complete with A2-3 type, A2-4 type, A2-6 type and other models.
- Applicable to all kinds of CNC lathes, grinding machines and all kinds of special machinery. The size of the front push type internal clamp series is designed according to the standard specifications, and it is replaced with the original hydraulic chuck of the machine tool, no need to modify the size.

编号 Order	型号 Model	D	D1	D2	M	G	RMB
708660	CCJT-A2-3-28	Ø94	Ø70.6	Ø53.975	M32X1.5	3-M10X25	
708661	CCJT-A2-4-36	Ø110	Ø82.6	Ø63.51	M44X2.0	3-M10X25	
708662	CCJT-A2-5-46	Ø128	Ø104.8	Ø82.56	M55X2.0	3-M10X25	
708663	CCJT-A2-6-52	Ø158	Ø133.4	Ø106.38	M60X2.0	6-M12X30	
如有非标可按尺寸定做							

重型后拉式内撑夹具

Heavy-duty rear pull-type inner support fixture



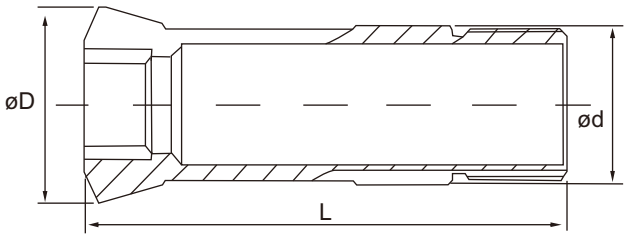
- 重型后拉式内撑夹具型号规格完整有A2-3型、A2-4型、A2-6型等型号可以选用搭配
- 适用于各类数控车床, 磨床和各式专用机械 前推式内撑夹具系列产品尺寸依照标准规格设计, 与机床原有的油压卡盘替换安装, 无需修改尺寸。
- Heavy-duty rear pull type inner clamp type specifications are available in A2-3 type, A2-4 type, A2-6 type, etc.
- Applicable to all kinds of CNC lathes, grinding machines and all kinds of special machinery. The size of the front push type internal clamp series is designed according to the standard specifications, and it is replaced with the original hydraulic chuck of the machine tool, no need to modify the size.

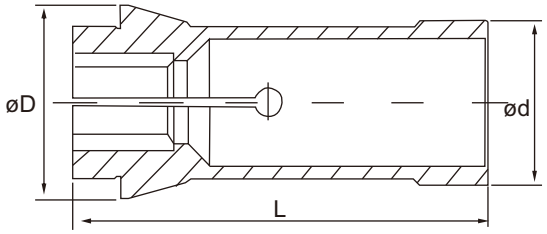
编号 Order	型号 Model	D	D1	D2	M	G	RMB
708665	CCJT-A2-3-28	Ø94	Ø70.6	Ø53.975	M32X1.5	3-M10X25	
708666	CCJT-A2-4-36	Ø110	Ø82.6	Ø63.51	M44X2.0	3-M10X25	
708667	CCJT-A2-5-46	Ø128	Ø104.8	Ø82.56	M55X2.0	3-M10X25	
708668	CCJT-A2-6-52	Ø158	Ø133.4	Ø106.38	M60X2.0	6-M12X30	
如有非标可按尺寸定做							

走心机夹头
Walking Chuck

DT 导套　**ZJ** 主夹　**BJ** 背夹







各种夹头品牌及规格
Various clamp brands and specifications

Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Eugeo(江黑)	d	D	L	d	D	L	d	D	L	
江黑JT-JH6#	19.05	26	77							
江黑JT-JH8#	24	33.2	103							
江黑JT-JH10#	32	42	118							
江黑JT-JH15#	19	26	76							
江黑JT-JH25#	25	32.5	102							

Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Kitamura	d	D	L	d	D	L	d	D	L	
JT-KL16	22	30	82							
JT-KL20	26	34	92							
JT-KL25	32	42	118							
JT-KI30	37	47	119							

Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Nomura(野村)	d	D	L	d	D	L	d	D	L	
JT-P10/NS-1053	16	22	53	16	20	63				
JT-P16/NS-1653	20	26.2	67	22	26	70.5				
JT-P20	23	36	67	30	35.2	67.5				

Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
RTornos(瑞士特纳斯)	d	D	L	d	D	L	d	D	L	
JT-DECO200-7(D7)	10	15.5	48	11	14.5	53.3				
JT-DECO200-10(D10)	13	19.5	64	16	20.5	59				
JT-DECO200-13(D13)	20	26	54	24	29.5	61	20	26	54	
JT-DECO200-20(D20)	25	35	77	28	38	81	25	35	77	
JT-DT26	30	38	65	34	41	87.5				

Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Star(星牌)	d	D	L	d	D	L	d	D	L	
JT-S13/SNC15/VNC12/SH12	18	25	67	21	24	58				
JT-SW7/JNC10/RNC10/SNC10	15	21	64	16	20	59				
JT-SA16/SH16/SR16/SR16R/RNC16	20	28	67	22	29	68				
JT-VNC20/SR20/20R/KNC20/SV20/JNC20	26	36	67	30	35	59				
JT-VNC32	37	47	92	42	49	82				
JT-STAR23#	28	35	77	30	35	59	28	35	77	
JT-STAR25#	30	42	78	34	41	87.5	28	35	77	

Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Riken(理研)	d	D	L	d	D	L	d	D	L	
JT-SAD25	30	43	66							
JT-SAD40	48	66	84							
JT-SAD50	56	68	94							
JT-SAD65	75	93	100							

Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Hanwha(韩华)	d	D	L	d	D	L	d	D	L	
JT-SL12/SL12S/SL12H	16	21	64	18	22	60				
JT-SL16/XP16	22	30	55	22	29	68				
JT-SL20/XD20	25	35	77	28	33.8	82				
JT-SL32/XD32	37	47	92	42	49	82				
JT-SL35/XD35	40	50	92	45	52	82				

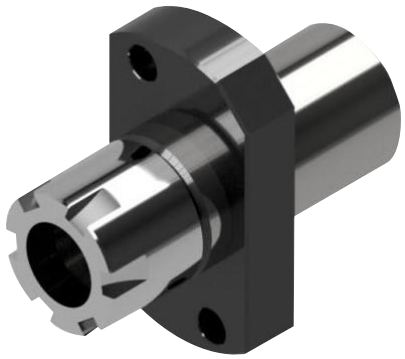
Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Hydromat	d	D	L	d	D	L	d	D	L	
JT-W20	20	26	73							
JT-W25	25	33.7	97.5							

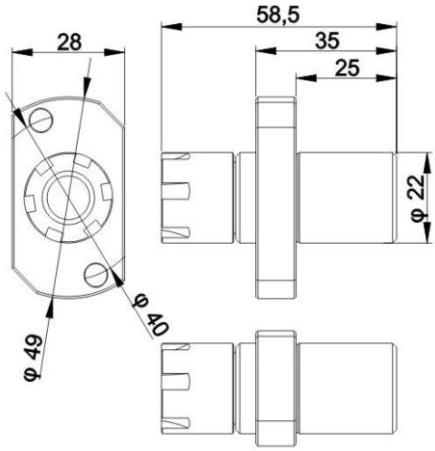
Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Citizen（西铁城）	d	D	L	d	D	L	d	D	L	
JT-R04	8	11.2	36	9	12.5	38.5				
JT-L10/R07	15	20	45.5	16	20	50				
JT-A12/B12/C12/M12	16	21	62	18	22	60				
JT-A16/C16/M16-111	20	28	67	22	29	68	20	28	67	
JT-L16/L20/M20/E16/E20/F16/F20	26	36	67	30	35	59	26	36	67	
JT-L25/F25/E25	30	42	78	34	41	87.5	30	42	78	
JT-C32/L32/M32/E32	37	47	92	42	48	82	37	47	92	
JT-BL12	19.05	26	77				16	21	62	
JT-BL20	33	41	100				26	36	67	
JT-BL25	33	41	100				30	42	78	
JT-L38	48	60	94	48	54	82				

Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Tsugami(津上)	d	D	L	d	D	L	d	D	L	
JT-T7/B007	10	16	47	11	14.5	52	10	10	47	
JT-L10/NT11	14	20	47	15	19	54				
JT-8026/BU26	33	40	80	34	41	87.5				
JT-BA26	33	40	80	33	38	70	33	40	80	
JT-NP16/NP17/NT17/8012/BS12	23.8	28	62	23	28	72	23.8	28	62	
JT-8S20/S20	28	35	77	30	36	70	25	35	77	
JT-BM16	30	38	75				16	21	64	
							23.8	28	62	
JT-8032	37	44	91.2	41	46	82				
JT-80385	43	53	92	48	48	81	48	54	100	
JT-B0385L	58	70	105				48	54	100	
JT-B0385C	48	54	100				48	54	100	

Models	主轴 Coller			导套 GuideBush			副轴 SubCollet			RMB
Miyano（宫野）	d	D	L	d	D	L	d	D	L	
JT-BNC20	27	38	73							
JT-BNC34	44.4	54	108							
JT-BNF16(148E)	28	38	70				22	30.5	55	
JT-BM35	53	70.3	105							
JT-171E	42	55	94							
JT-173E	48	60	94							
JT-176E	56	68	94							
JT-177E	58	70	94							

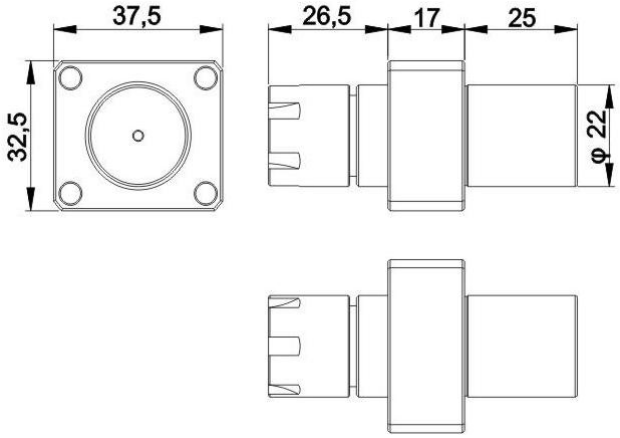
背面钻孔座
Back Drilling Seat





ORDER ON	编号 STAR	转速比 Maximum Speed	最高转速 Maximum Speed	柄径 Handle Diameter	孔径 Aperture	使用筒夹 USE A Collet	RMB
	BZDZ-C22-ER16M-L	/	/	22	10.0	ER16	



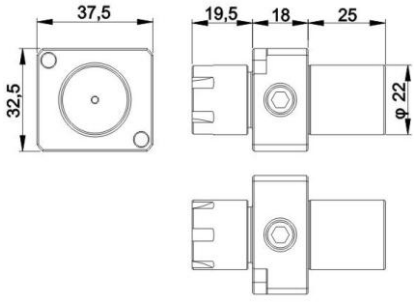


ORDER ON	编号 STAR	转速比 Maximum Speed	最高转速 Maximum Speed	柄径 Handle Diameter	孔径 Aperture	使用筒夹 USE A Collet	RMB
	BZDZ-C22-ER16M-F	/	/	22	10.0	ER16	

背面钻孔座（中心出水）

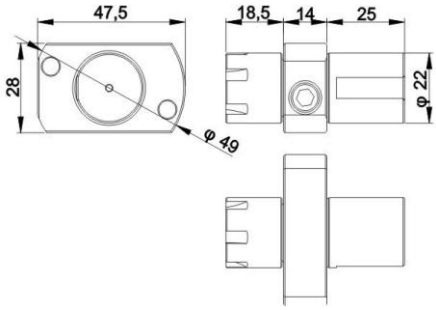
Back Drilling Seat(center Outlet)





ORDER ON	编号 STAR	转速比 Maximum Speed	最高转速 Maximum Speed	柄径 Handle Diameter	孔径 Aperture	使用筒夹 USE A Collet	RMB
	BZDZ-C22-ER16M-FOH	/	/	22	10.0	ER16	



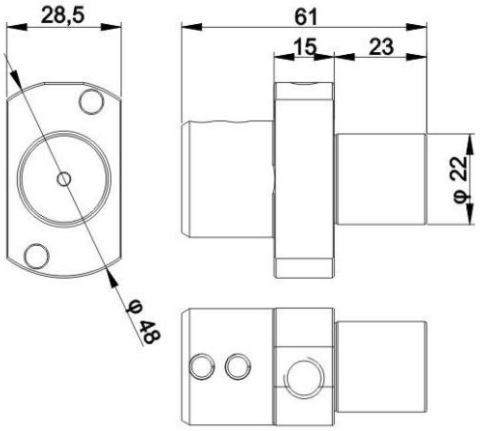


ORDER ON	编号 STAR	转速比 Maximum Speed	最高转速 Maximum Speed	柄径 Handle Diameter	孔径 Aperture	使用筒夹 USE A Collet	RMB
	BZDZ-C22-ER16M-LOH	/	/	22	10.0	ER16	

背面钻孔座

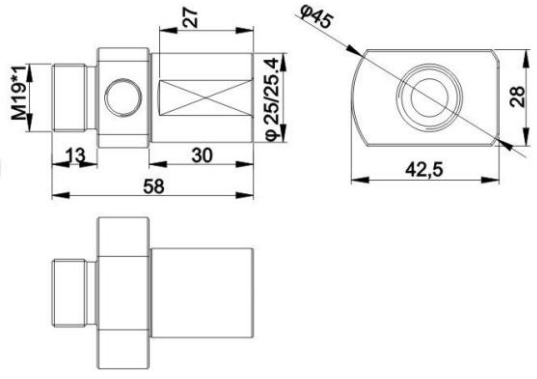
Back Drilling Seat





ORDER ON	编号 STAR	转速比 Maximum Speed	最高转速 Maximum Speed	柄径 Handle Diameter	孔径 Aperture	使用筒夹 USE A Collet	RMB
	BZDZ-C22-SLN..-LOH	/	/	22	6/8/10/12/16	/	



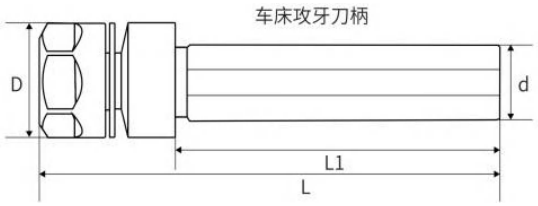


ORDER ON	编号 STAR	转速比 Maximum Speed	最高转速 Maximum Speed	柄径 Handle Diameter	孔径 Aperture	使用筒夹 USE A Collet	RMB
西铁城	BZDZ-C25-ER16M-LOH	/	/	25	10	ER16	
	BZDZ-C25.4-ER16M-LOH	/	/	25.4	10	ER16	

直柄攻牙刀杆
Tapping Tool With Straight Handle

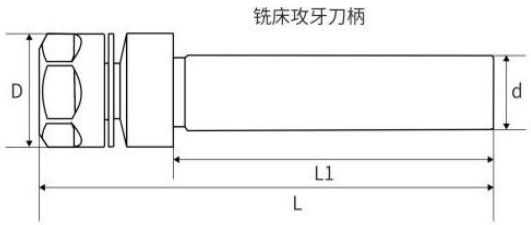
STB型 STBTYPE





STC型 STBTYPE

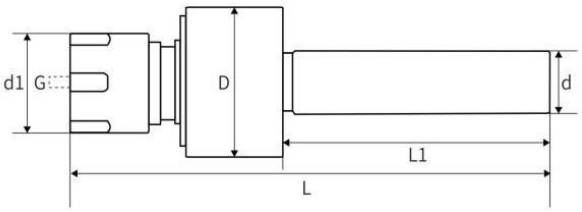




ORDER ON	MOEL SERIES	D	d	L	L1	夹持范围 Clampingrange	RMB
642001	STC20-TER16-70L	28	20	113	70	M2~M12	
642002	STC25-TER16-70L	28	25	113	70	M2~M12	
642003	STB20-TER16-70L	28	20	113	70	M2~M12	
642004	STB25-TER16-70L	28	25	113	70	M2~M12	

ER型 ERTYPE





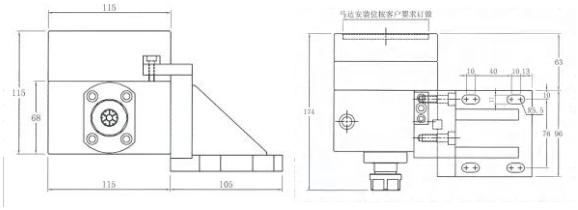
ORDER ON	MOEL SERIES	D	d	d1	L1	L	G单边浮动量 G Unilateralfloating Quantity	RMB
643001-10	D10-ER11	25	10	16	16	44	0.5	
643001 -16	D16-ER11		16					
643001-20	D20-ER11		20					
643001-20	D20-ER20		20	28	28			
643001-25	D25-ER20		25					
643001-32	D32-ER20		32					

ER螺帽 ER NUT



※以上产品均为准螺帽, 如有非标可按尺寸定做
※The above products are standard nuts, if there are non-standard canbe customized according to size

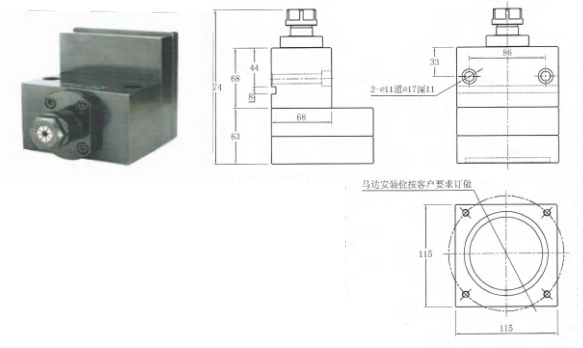
ER轴动力装置
ER axis power unit
CCJT-ER20-1侧



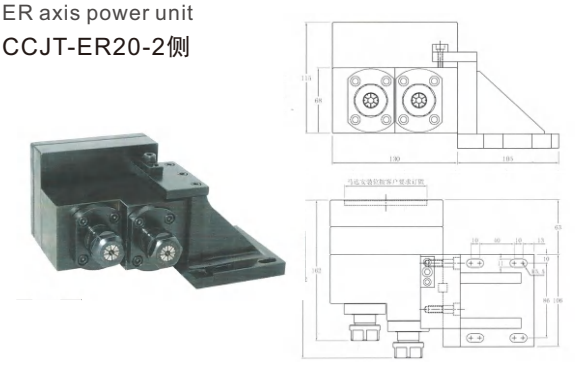
ER轴动力装置就是在数控车床的刀塔上安装以动力装置，装置上可以安装钻头，铣刀，丝攻等各种加工刀具，让机床实现多样化加工生产，扩大机床的加工范围适用于国内外各种品牌型号机床。
The ER-axis power unit is equipped with a power unit on the turret of the CNC lathe, and the unit can be equipped with a drill bit.Milling knives, wire tapping and other processing tools, enabling machine tools to achieve diverse processing and production, expanding the processing range of machine tools Applicable to all kinds of brand models at home and abroad.

ER轴动力装置
ER AXIS POWER UNIT
CCJT-ER20-1端

ER轴动力装置就是在数控车床的刀塔上安装以动力装置，装置上可以安装钻头，铣刀，丝攻等各种加工刀具，让机床实现多样化加工生产，扩大机床的加工范围适用于国内外各种品牌型号机床。
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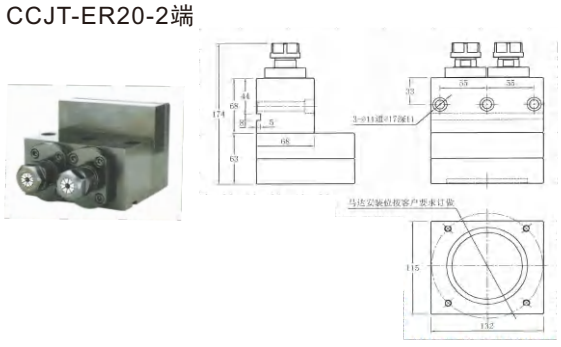


ER轴动力装置
ER axis power unit
CCJT-ER20-2侧

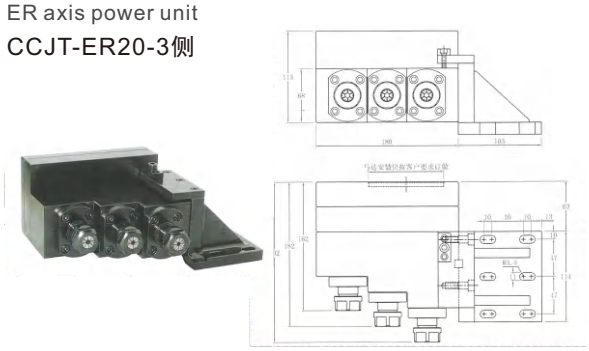


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ER轴动力装置
ER axis power unit
CCJT-ER20-2端

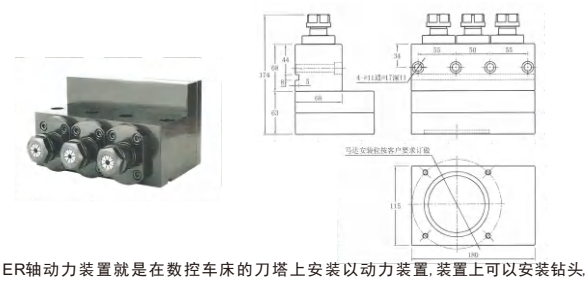


ER轴动力装置
ER axis power unit
CCJT-ER20-3侧



ER轴动力装置就是在数控车床的刀塔上安装以动力装置，装置上可以安装钻头，铣刀，丝攻等各种加工刀具，让机床实现多样化加工生产，扩大机床的加工范围适用于国内外各种品牌型号机床。
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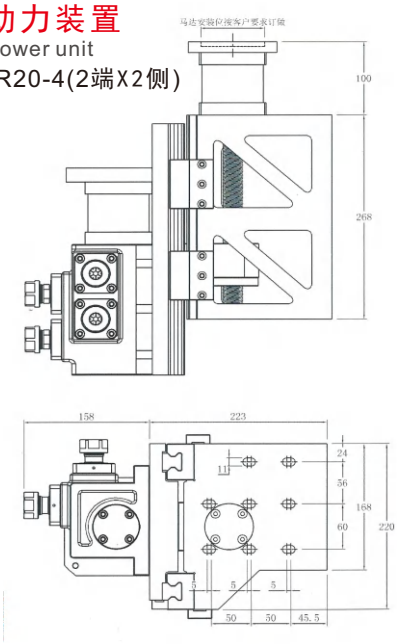
ER轴动力装置
ER axis power unit
CCJT-ER20-3端



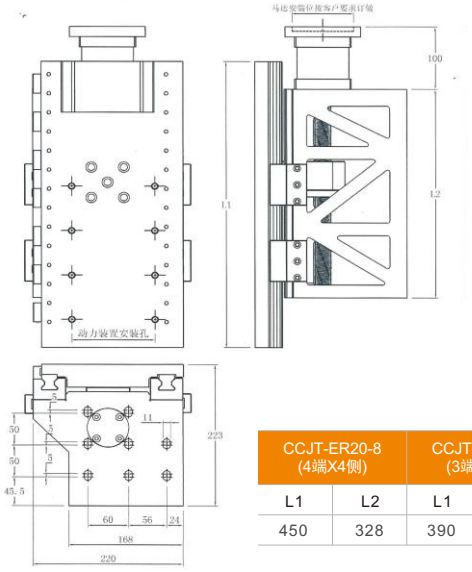
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ER轴动力装置
ER axis power unit

CCJT-ER20-4(2端X2侧)



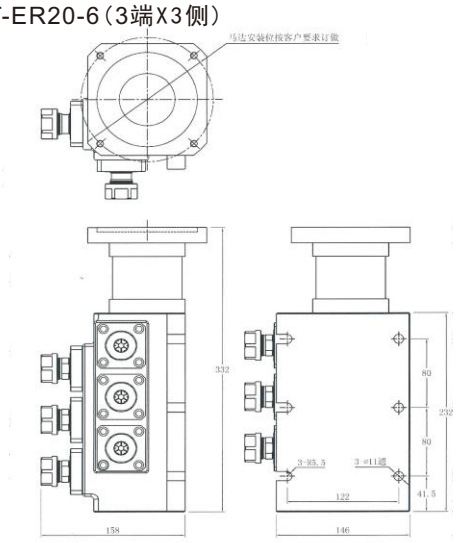
ER轴动力装置支架
ER shaft power unit bracket



CCJT-ER20-8 (4端X4侧)		CCJT-ER20-6 (3端X3侧)		CCJT-ER20-6 (2端X2侧)	
L1	L2	L1	L2	L1	L2
450	328	390	268	330	268

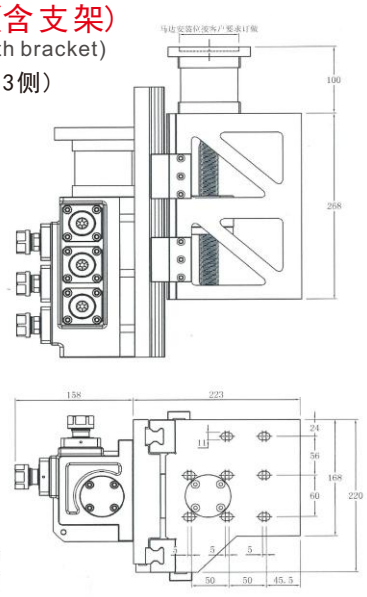
ER轴动力装置
ER axis power unit

CCJT-ER20-6(3端X3侧)



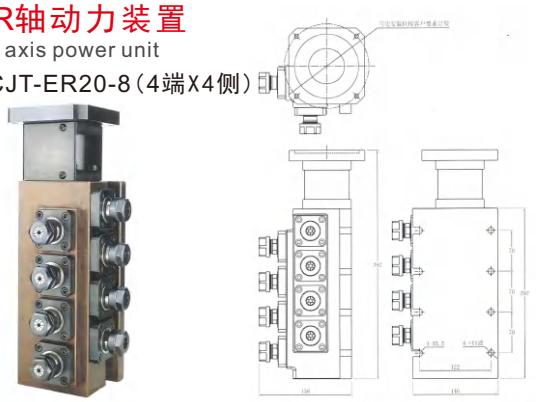
ER轴动力装置(含支架)
ER axis power unit (with bracket)

CCJT-ER20-6(3端X3侧)



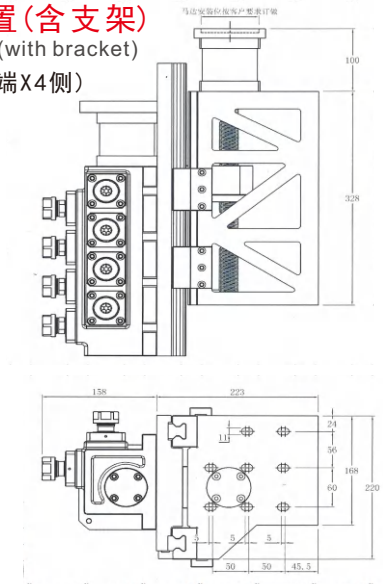
ER轴动力装置
ER axis power unit

CCJT-ER20-8(4端X4侧)



ER轴动力装置(含支架)
ER axis power unit (with bracket)

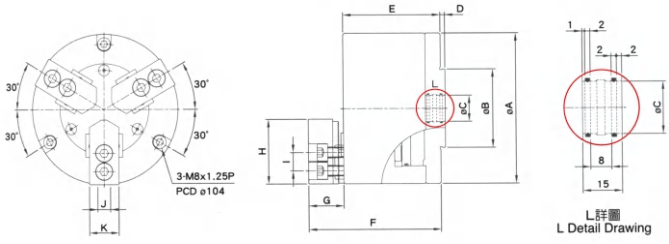
CCJT-ER20-8(4端X4侧)



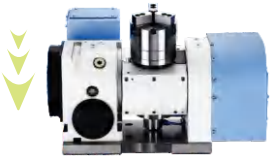
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三爪气压夹盘
3-JAW AIR CHUCK FIXTURES



分度盘适用范例
Operation Example for rotary table



CNC
Operation Example for CNC Lathe





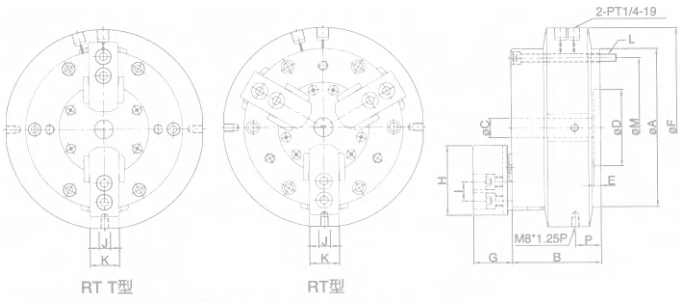
订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	I	J	K	活塞面积 Piston Area (cm^2)	柱塞行程 Plunger Stroke (mm)	爪行程（直径） Jaw Stoke [Diameter] (mm)	空压夹持力 Gripping Force At Air 7kgf/cm^2 Pressre (0.7Mpa) kgf (KN)	最高回转速 Max.Speed r.p.m(min-1)	夹持范围 Gripping Range	净重 Weight (kg)	单价 Price
703800	JMR-04	117	60	20	3.5	74	100.7	26.7	49.5	14	10	23	57	9	3.8	1100 (10.8)	3000	Ø10~Ø117	5.7	

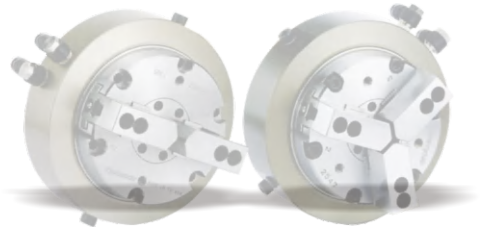
双气缸三爪气压夹盘 3-JAW AIR CHUCK FIXTUES BULIT-IN 2 CYLINGERS

订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	I	J	K	活塞面积 Piston Area (cm^2)	柱塞行程 Plunger Stroke (mm)	爪行程（直径） Jaw Stoke [Diameter] (mm)	空压夹持力 Gripping Force At Air 7kgf/cm^2 Pressre (0.7Mpa) kgf (KN)	最高回转速 Max.Speed r.p.m(min-1)	夹持范围 Gripping Range	净重 Weight (kg)	单价 Price
703850	JMR-04S	117	60	20	3.5	99.7	126.4	26.7	49.5	14	10	23	114	9	3.8	2200 (21.6)	4500	Ø10~Ø117	7.2	

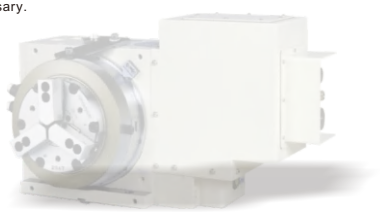
回转式气压夹盘
Rotary Air Check Fixtures

经切削加工适用Suitable for light cutting
回转式气压夹盘适用于分度盘，具可随分度盘主轴旋转功能，动力夹持加工物作角度分割或旋转切削。
1. 气压防锈处理：在潮湿及工作环境较差的情况，气缸内部经防锈处理，不会生锈或卡死。
2. 防尘装置：工作中的铁屑及切削液不易进入夹盘内部的缸室，确保夹盘的使用寿命及精度保持。
3. 前置式的气缸：气缸与夹盘直接设计，确保夹盘的稳定性，更方便于组装及操作。





It's Ideal for diving or cutting work pieces bymounting the chuck on indexing table or rotarytable.
The distinctive feaure is that the chuck rotates with the spindle of indexing table orrotary table.
1.Rustproof treated cylinder:
The cylinder won't get rusty and seized even in wet or high moisture working environment.
2.Dust and water proof cover:
prevent metal chips or coolant from entering inside of chuck cylinder to maintain its accuracy and lead to longer service life.
3.Integral pneumatic cylinder.
Connect chuck and built-in cylinder to each other direchly ;thus enables operation stability. Moreover,it is more convenient for installation and operation since the use If draw tube and draw bar are no longer necessary.



应用实例 >> Operation Example

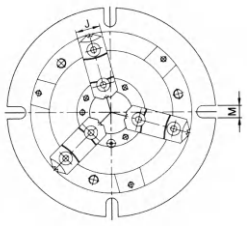
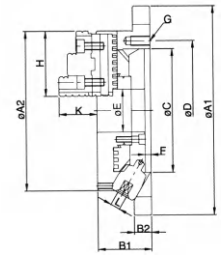
订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	P	通孔直径(mm) Thru-Hole(Diameter)	活塞面积(cm2) Piston Area
703900	JRT-05	140	85	16	60	6	180	33	62	14	10	25	6-M8x1.25P	Ø118	27	16	74
703902	JRT-06	170	96	20	80	7	210	40	73	20	12	31	6-M8x1.25P	Ø147	27	20	120
703904	JRT-08	215	112	30	110	8	250	42	95	25	14	35	6-M10x1.5P	Ø185	28	30	190
703906	JRT-10	255	120	43	140	8	290	46	110	30	16	40	6-M10x1.5P	Ø220	30.5	43	280
703908	JRT-05T	140	85	16	60	6	180	33	62	14	10	25	6-M8x1.25P	Ø118	27	16	74
703910	JRT-06T	170	93	20	80	7	210	40	73	20	12	31	6-M8x1.25P	Ø147	27	20	120

型号 MODEL	柱塞行程(mm) Plunger Stroke	爪行程（直径mm） Jaw Stroke(Diameter)	最高转速 Max.Speed r.p.m(min-1)	最大设定压力 Max.Rressure kgf/cm2 (Mpa)	气压夹持力Gripping Force At Air Pressure 7kgf/cm2(0.7Mpa) kgf (KN)	夹持范围 GrippingRange	净重(kg) Weight	单价 Price
JRT-05	10	4.6	51	7 (0.7)	1340 (13.1)	Ø4-Ø136	9.3	
JRT-06	13	5.5	41	7 (0.7)	2330 (22.8)	Ø25-Ø166	15.5	
JRT-08	16	6.8	33	7 (0.7)	3730 (36.5)	Ø33-Ø215	28.5	
JRT-10	19	8.0	26	7 (0.7)	5480 (53.7)	Ø43-Ø255	42.3	
JRT-05T	10	4.6	51	7 (0.7)	1340 (13.1)	Ø4-Ø136	9.0	
JRT-06T	13	5.5	41	7 (0.7)	2330 (22.8)	Ø25-Ø166	15.0	

强力型超薄型夹头 SUPER THIN CHUCK

强力超薄夹盘之特色：
1. 把手和盘面成30°角，旋转操作更便利。
2. 薄型设计，可增加横械加工之容许长度。
3. 外径成凸缘设计，装卸容易。
4. 强力型设计可共用生爪。

SUPER THIN CHUCKS
1.The handle with an angle of 30 degrees in much convenient for operations
2.The"super thin thickness"design of chuck increase the "allowable distance"of machining operation.
3.Chuck flange makes loading and unloading operations simpler and mors convenlent.
4.Hard jaws and Soft jaws can be used altematively.

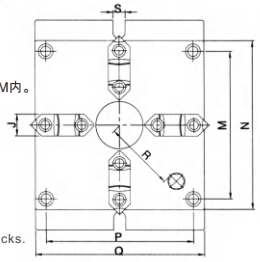
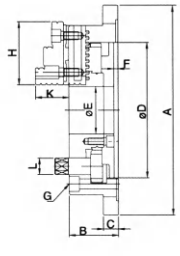

Unit:mm

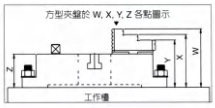
Order NO.	Model	A1	A2	B1	B2	C	D	E	F	G	H	J	K	L	M	净重 (kg)	外径把握 O.D.C lamping (mm)	内径把握 I.D.C lamping (mm)	单价 Price
704100	NBK06	220	170	58	18	130	147	45	6	3-M10×1.5P	68	26	40	10	13	10.6	Ø8～Ø160	Ø48～Ø150	
704102	NBK08	270	210	65	20	155	172	60	6	3-M10×1.5P	82	28	43	11	13	18.1	Ø11～Ø200	Ø62～Ø190	
704104	NBK10	315	255	73	20	190	210	80	6	3-M12×1.75P	93	32	52	12	16	27.9	Ø12～Ø250	Ø72～Ø240	
704106	NBK12	370	305	80	22	250	285	105	5	3-M12×1.75P	118	40	59	14	18	42.9	Ø15～Ø300	Ø86～Ø290	

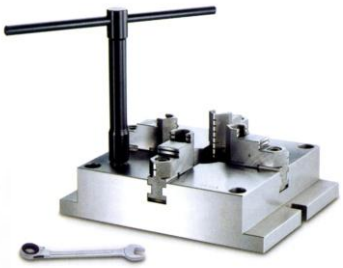
方型超薄夹头 SUPER THIN SQUARE CHUCK

MC附硬爪
1.MC均为定寸研磨方式；任何相同规格之方型夹盘W,X,Y,Z各点之高度公差为0.05MM内。
2.MC规格均可替换生爪,作不规则形状之加工,以替代中心机大量模治具,更经济、方便。
3.硬爪重复夹持之精度公差为0.02MM内。
4.侧边平行校正后，硬爪夹持之平行公差为0.05MM内。

MC SQUARE CHUCKS
1.MC chucks are precisely ground,the tolerances of W,X,Y,Z among chuncks are within 0.05mm.
2.Soft jaws can be used altematively for machining special shaped work pieces,to substitute for designing and making a lot of jigs for this purpose.
3.The repetitive gripping acccuracy with the hard jaws are within 0.02mm.
4.parallel gripping accuracy with hard jaws can be controled within 0.05mm after aligning sides of chucks.





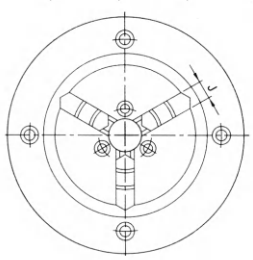
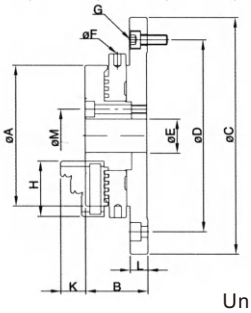
Unit:mm

Order NO.	Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	净重 (kg)	外径把握 O.D.C lamping (mm)	内径把握 I.D.C lamping (mm)	单价 Price
704200	MC06	215	57	18	130	40	5.5	4-M10×1.5P	68	26	39	14	144	165	144	165	66	18	11.4	Ø4～Ø128	Ø55～Ø128	
704202	MC08	250	65	20	160	55	6	4-M12×1.75P	82	28	43	17	174	200	174	200	83	18	18.6	Ø5～Ø162	Ø62～Ø162	
704204	MC10	310	72	22	200	70	6	4-M14×2P	93	32	50	21	218	250	218	250	104	18	31.6	Ø6～Ø200	Ø72～Ø200	
704206	MC12	380	85	25	260	100	7	4-M16×2P	117	40	56	23	274	310	274	310	135	22	56.6	Ø10～Ø265	Ø90～Ø265	

超薄夹头 THIN CHUCK

强力超薄型夹盘之特色：
1．轻、薄、短小的设计，适用于工件量测夹持。
2．直接转动旋盘，免于使用板手旋转干涉。
3．钢制本体，耐用性甚佳。
4．夹爪正反夹持雨用设计，操作方便。
5．2"最小工件夹持0.8mm.

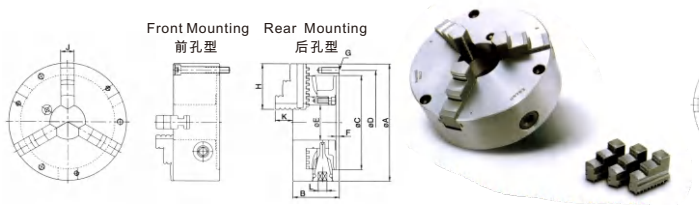
Features of super thin chuck:
1. Light, thin and short design, suitable for workpiece measurement and clamping.
2. Rotate the rotating disc directly to avoid the interference of spanner rotation.
3. Steel body, good durability.
4. The clamping claw is designed to clamp the rain forward and backward, so it is easy to operate.
5.2 " minimum workpiece clamping 0.8mm

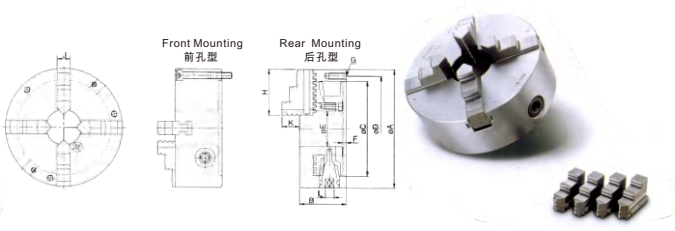
Unit:mm

Order NO.	Model	A	B	C	D	E	F	G	H	J	K	L	M	净重 (kg)	把握范围Max.Gripping Diameter		单价 Price
															外径把握 O.D.Clamping	内径把握 I.D.Clamping	
704300	SE02	63	28	118	100	16	4	4-M5×0.8P	27	8	13	8	26	1.2	Ø0.8～Ø63	Ø23～Ø58	
704302	SE03	85	37	143	116	20	4	4-M6×1P	35	11	15	10.5	32	2.9	Ø1～Ø81	Ø31～Ø70	
704304	SE04	110	39	168	140	26	5	4-M6×1P	42	14	19	10	40	4.3	Ø1～Ø100	Ø36～Ø90	
704306	SE05	130	45	202	168	32	6	4-M8×1.25P	50	16	21	11.5	49	6.2	Ø1.5～Ø116	Ø43～Ø106	
704308	SE06	160	52	248	208	50	8	4-M10×1.5P	65	19	26	15	70	11.1	Ø1.5～Ø160	Ø52～Ø148	

普通三爪夹头
3-JAWS REGULAR TYPE CHUCK



普通四爪夹头
4-JAWS REGULAR TYPE CHUCK



Unit:mm

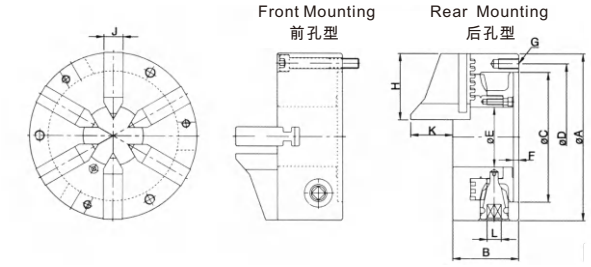
Order NO.	Model	A	B	C	D	E	F	G	H	J	K	L	净重 (kg)	最高回转速 Max.Speed (r.p.m)	把握范围 Max.Gripping Diameter 外径把握 O.D.Clamping	把握范围 Max.Gripping Diameter 内径把握 I.D.Clamping	单价 Price
705100	SC03	85	45	60	73	16	3.5	3-M6×1P	35	11	15	7	1.5	2500	Ø2-70	Ø24-64	
705102	SC04	112	58	80	95	24	4.5	3-M8×1.25P	42	14	17	8	3.3	2500	Ø3-90	Ø32-84	
705104	SC05	132	60	100	115	32	4.5	3-M8×1.25P	50	16	20	8	4.6	2500	Ø3-110	Ø35-110	
705106	SC06	167	66	130	147	45	5	3-M10×1.5P	65	19	23	10	7.9	2000	Ø4-160	Ø48-150	
705108	SC07	193	76	155	172	58	5	3-M10×1.5P	75	22	28	11	12.0	2000	Ø4-180	Ø56-170	
705110	SC08	103	76	160	176	58	5	3-M10×1.5P	75	22	28	11	13.3	2000	Ø4-180	Ø56-170	
705112	SC09	133	84	190	210	70	5.5	3-M12×1.75P	85	24	34.5	12	19.3	2000	Ø5-220	Ø62-210	
705114	SC10	273	86	230	250	89	5.5	3-M12×1.75P	98	28	39	12	26.2	1800	Ø6-260	Ø70-250	
705116	SC12	310	96	260	285	105	7	3-M12×1.75P	110	30	44	14	37.6	1800	Ø10-300	Ø86-290	
705118	SC16	405	122	345	375	160	8	3-M14×2P	146	40	56	15	80.7	1500	Ø14-400	Ø100-380	

普通四爪夹头 4-JAWS REGULAR TYPE CHUCK

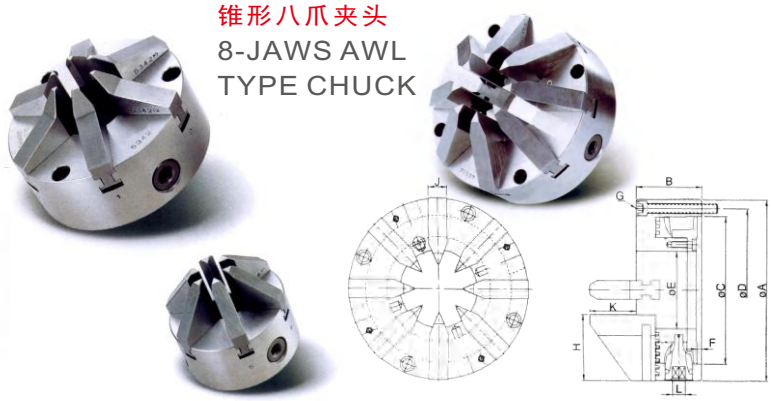
Unit:mm

Order NO.	Model	A	B	C	D	E	F	G	H	J	K	L	净重 (kg)	最高回转速 Max.Speed (r.p.m)	把握范围 Max.Gripping Diameter 外径把握 O.D.Clamping	把握范围 Max.Gripping Diameter 内径把握 I.D.Clamping	单价 Price
705200	PS07	193	76	155	172	58	5	3-M10×1.5P	75	22	28	11	12.1	2000	Ø4-180	Ø56-170	
705202	PS09	233	84	190	210	70	5.5	3-M12×1.75P	85	24	34.5	12	19.4	2000	Ø5-220	Ø62-210	
705204	PS12	310	96	260	285	105	7	3-M12×1.75P	110	30	45	14	38.1	1800	Ø10-300	Ø86-290	
705206	PS16	405	122	345	375	160	8	3-M14×2P	146	40	56	15	82.4	1500	Ø14-400	Ø100-280	

锥形六爪夹头
6-JAWS AWL TYPE CHUCK



锥形八爪夹头
8-JAWS AWL TYPE CHUCK



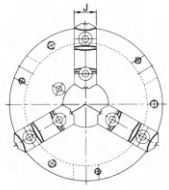
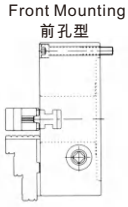
Order NO.	Model	A	B	C	D	E	F	G	H	J	K	L	净重 (kg)	最高回转速 Max.Speed (r.p.m)	把握范围 Max.Gripping Diameter 外径把握 O.D.Clamping	单价 Price
705300	AS04	112	58	80	95	32	4.5	3-M8×1.25P	45	14	46	8	3.8	1200	Ø2-32	
705302	AS06	167	65	130	147	60	5	3-M10×1.5P	66	19	43	10	8.4	1200	Ø4-60	

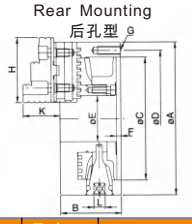
锥形八爪夹头 8-JAWS AWL TYPE CHUCK

Unit:mm

Order NO.	Model	A	B	C	D	E	F	G	H	J	K	L	净重 (kg)	最高回转速 Max.Speed (r.p.m)	把握范围 Max.Gripping Diameter 外径把握 O.D.Clamping	单价 Price
705400	AE09	233	84	190	210	100	5.5	4-M12×1.75P	85	24	60	12	21	1000	Ø7-100	

强力型三爪夹头
3-JAWS POWERFUL TYPE

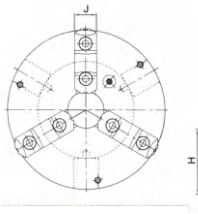
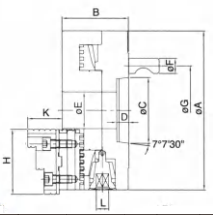




Unit:mm

Order NO.	Model	A	B	C	D	E	F	G	H	J	K	L	净重 (kg)	最高回转速 Max. Speed (r.p.m)	把握范围 Max.Gripping Diameter 外径把握O.D.Clamping (mm)	把握范围 Max.Gripping Diameter 内径把握I.D.Clamping (mm)	单价 Price
705500	SK06	167	66	130	147	45	5	3-M10×1.5P	68	26	39	10	8.6	2000	Ø8-160	Ø55-150	
705502	SK07	193	76	155	172	58	5	3-M10×1.5P	82	28	43	11	12.8	2000	Ø8-1800	Ø62-170	
705504	SK08	203	76	160	176	58	5	3-M10×1.5P	82	28	43	11	14.1	2000	Ø8-180	Ø62-170	
705506	SK09	233	84	190	210	70	5.5	3-M12×1.75P	93	32	50	12	20.4	2000	Ø11-220	Ø70-210	
705508	SK10	273	86	230	250	89	5.5	3-M12×1.75P	93	32	50	12	26.7	1800	Ø12-260	Ø80-250	
705510	SK12	310	96	260	285	105	7	3-M12×1.75P	118	40	56	14	39.3	1800	Ø15-300	Ø90-290	
705512	SK16	405	122	345	375	160	8.5	6-M14×2P	150	45	75.5	15	82.3	1500	Ø30-400	Ø110-380	

直装型三爪夹头
3-JAWS A1 TYPE CHUCK

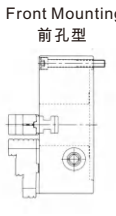


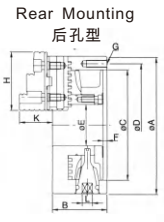
Unit:mm

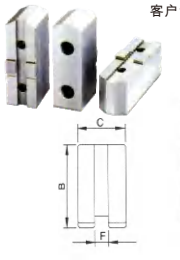
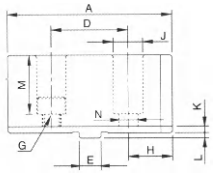
Order NO.	Model	A	B	C	D	E	F	G	H	I	J	K	L	P	M	N	净重 (kg)	最高回转速 Max. Speed (r.p.m)	把握范围 Max.Gripping Diameter 外径把握 O.D.Clamping	把握范围 Max.Gripping Diameter 内径把握 I.D.Clamping	单价 Price
705600	A,5-08"	200	83	33.5	61.9	40	Ø104.8	3-M10×1.5P	82	82.563	28	43	11	14.29	Ø16.3	6.8	17.4	2000	Ø8-180	Ø62-170	
705602	A,6-08"	200	83	33.5	82.6	56	Ø133.4	3-M12×1.75P	82	106.375	28	43	11	15.88	Ø19.3	6.8	30	2000	Ø11-220	Ø70-210	
705604	A,6-10"	255	91.5	36.5	82.6	56	Ø133.4	3-M12×1.75P	93	106.375	32	50	12	15.88	Ø19.3	6.8	30.6	1800	Ø15-300	Ø90-290	

客户订购时请注明"前孔型"或"后孔型"

强力连动型四爪夹头
POWERFUL 4-JAWS SCROLL TYPE



Order NO.	Model	A	B	C	D	E	F	G	H	J	K	L	净重 (kg)	最高回转速 Max. Speed (r.p.m)	把握范围 Max.Gripping Diameter 外径把握O.D.Clamping (mm)	把握范围 Max.Gripping Diameter 内径把握I.D.Clamping (mm)	单价 Price
705700	PSK07	193	76	155	172	58	5	3-M10×1.5P	82	28	43	11	12.7	2000	Ø8-180	Ø62-170	
705702	PSK09	233	84	190	210	70	5	3-M12×1.75P	94	32	50	12	20.8	2000	Ø11-220	Ø70-210	
705704	PSK12	310	96	260	285	105	7	3-M12×1.75P	118	40	56	14	49	1800	Ø15-300	Ø90-290	
705706	PSK16	405	122	345	375	160	8.5	6-M14×2P	150	45	75.5	15	86.7	1500	Ø30-400	Ø110-380	

客户订购时请注明"前孔型"或"后孔型"

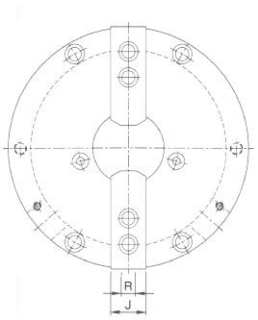
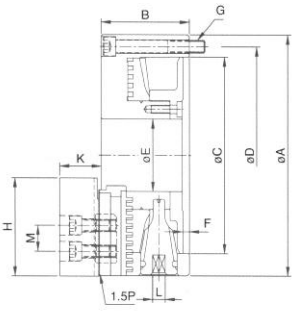
强力生爪 POWER SOFT JAWS

Order NO.	型号 MODEL	A	B	C	D	E	F	G	H	J	K	L	M	M	净重 Weight(kg)	单价 Price
705800	SO06Jaw	73	37	26	38.1	12.68	7.94	M8×1.25P	17.45	14	3.5	3	25	9	1.3	
705802	SO07 Jaw	95	48	31	44.4	12.68	7.94	M10×1.5P	25.3	17	3.8	3	34	11	2.6	
705804	SO09 Jaw	110	48	37	54	19.03	12.7	M12×1.75P	28	19	4.2	3	34	13	3.6	
705806	SO12 Jaw	125	54	42	63.5	19.03	12.7	M12×1.75P	30.75	19	4.2	3	38	13	5.5	
705808	SO16 Jaw	160	70	50	76.2	19.03	12.7	M16×2P	41.9	25	5.5	3	48	17	10.4	

齿式二爪钢壳夹头
2-JAW STEEL BODY CHUCKS

1.可替代修整油压生爪成型盘。
2.爪仔可前后任意调整，加大夹持工件范围。
3.生爪及硬爪与CNC车床油压爪公用。
4.钢壳结构于高速回转时安全性高，耐磨性强，使用寿命长。
5.转动扳手扭力较小操作顺畅。



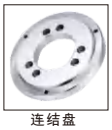
1.Can be used as a "Forming plate" for mach soft jaws.
2.Hard jaws and soft jaws can be adjusted just like on a power Chuck to increase the gripping
3.Hard jaws as well as Soft jaws are interchangeable with those of power chuck
4.Chuck Body is made of steel to enhance sa operations for high speed machining
5.The Chuck Handle can be operated easily smoothly


可替代修整油压
生爪成型盘
The chunk can be used as a "Forming pate " for machining sot jaws.


爪仔可前后任意调整
加大夹持工件范围
Top jaws can be adjusted back and forth easily, thus increasing gripping range


硬爪与油压夹盘
硬爪共用
Hard jaws are interchangeable with those of power chucks.


生爪与油压夹盘
生爪共用
Soft jaws are interchangeable with those of power chucks.

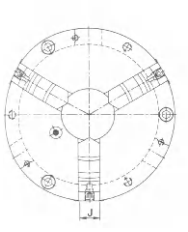
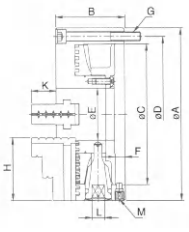
特别附件

连结盘
Optional accessory: Mounting plate.

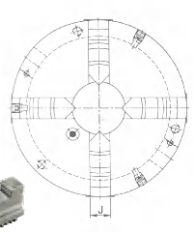
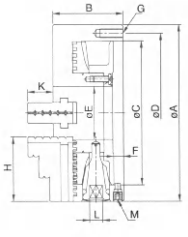
订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	J	K	L	M	R	最高转速 Max.Speed r.p.m(min⁻¹)	把握范围 Max. Gripping Diameter 外径把握 O.D.Clamping(mm)	把握范围 Max. Gripping Diameter 内径把握 I.D.Clamping(mm)	净重 Weight(kg)	单价 Price
706100	TNT-07	193	78	155	172	58	5	3-M10×1.5P	73	31	38	11	20	12	3200	Ø8~Ø235	Ø66~Ø235	14.4	
706102	TNT-09	233	85	190	210	70	5.5	3-M12×1.75P	95	35	40	12	25	14	2800	Ø11~Ø280	Ø85~Ø280	22.3	

齿式三爪钢壳夹头 3-JAW STEEL BODY CHUCKS

订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	J	K	L	M	R	最高转速 Max.Speed r.p.m(min⁻¹)	把握范围 Max. Gripping Diameter 外径把握 O.D.Clamping(mm)	把握范围 Max. Gripping Diameter 内径把握 I.D.Clamping(mm)	净重 Weight(kg)	单价 Price
706200	NT-07	193	78	155	172	58	5	3-M10×1.5P	78	28	48	11	20	12	3200	Ø8~Ø235	Ø66~Ø235	13.1	
706202	NT-09	233	85	190	210	70	5.5	3-M12×1.75P	92	32	52	12	25	14	2800	Ø11~Ø280	Ø85~Ø280	21.2	
706204	NT-10	273	91	230	250	89	5.5	3-M12×1.75P	101.5	37	56	12	30	16	2400	Ø12~Ø330	Ø92~Ø330	30.5	
706206	NT-12	310	104	260	285	105	7	3-M12×1.75P	116	47	67	14	30	21	2100	Ø15~Ø370	Ø104~Ø370	46.1	

可调式普通型三爪钢壳夹头 3-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS

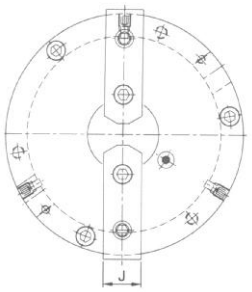
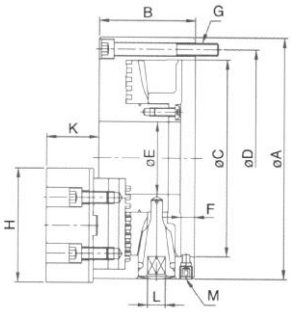


订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	J	K	L	M	最高回转速 Max.Speed r.p.m(min⁻¹)	把握范围 Max. Gripping Diameter 外径把握 O.D.Clamping(mm)	把握范围 Max. Gripping Diameter 内径把握 I.D.Clamping(mm)	净重 Weight (kg)	单价 Price
706400	CT-06	167	75.5	130	147	45	12	3-M10×1.5P	65	22	28	10	3-M12×1.75P	4000	Ø4~Ø160	Ø48~Ø150	10.4	
706402	CT-07	193	85	155	172	58	12	3-M10×1.5P	75	24	28.5	11	3-M12×1.75P	3500	Ø4~Ø180	Ø56~Ø170	12.9	
706404	CT-09	233	92	190	210	70	12.5	3-M12×1.75P	85	28	33	12	3-M12×1.75P	2900	Ø5~Ø220	Ø62~Ø210	20.4	
706406	CT-10	275	98	230	250	89	12.5	3-M12×1.75P	98	30	38	12	3-M12×1.75P	2500	Ø6~Ø260	Ø70~Ø250	29.3	
706408	CT-12	310	111	260	285	105	14	3-M12×1.75P	110	32	45	14	3-M12×1.75P	2200	Ø10~Ø300	Ø86~Ø290	43.7	

可调式普通型四爪钢壳夹头4-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS

订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	J	K	L	M	最高回转速 Max.Speed r.p.m(min⁻¹)	把握范围 Max. Gripping Diameter 外径把握 O.D.Clamping(mm)	把握范围 Max. Gripping Diameter 内径把握 I.D.Clamping(mm)	净重 Weight (kg)	单价 Price
706500	FCT-07	193	85	155	172	58	12	3-M10×1.5P	75	24	28.5	11	3-M12×1.75P	3500	Ø4~Ø180	Ø56~Ø170	13.2	
706502	FCT-09	233	92	190	210	70	12.5	3-M12×1.75P	85	28	33	12	3-M12×1.75P	2900	Ø5~Ø220	Ø62~Ø210	20.7	
706504	FCT-10	275	98	230	250	89	12.5	3-M12×1.75P	98	30	38	12	3-M12×1.75P	2500	Ø6~Ø260	Ø70~Ø250	29.8	
706506	FCT-12	310	111	260	285	105	14	3-M12×1.75P	110	32	45	14	3-M12×1.75P	2200	Ø10~Ø300	Ø86~Ø290	44.4	

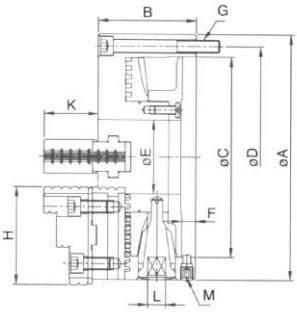
可调式强力型二爪钢壳夹头
2-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	J	K	L	M	最高回转速 Max.Speed r.p.m(min⁻¹)	把握范围 Max. Gripping Diameter 外径把握 O.D.Clamping(mm)	把握范围 内径把握 I.D.Clamping(mm)	净重 Weight (kg)	单价 Price
706600	TKT-06	167	75.5	130	147	45	12	3-M10×1.5P	73	26	40.5	10	3-M12×1.75P	4000	Ø4~Ø160	Ø48~Ø150	10.4	
706602	TKT-07	193	85	155	172	58	12	3-M10×1.5P	95	31	49.5	11	3-M12×1.75P	3500	Ø4~Ø180	Ø56~Ø170	14.46	
706604	TKT-09	233	92	190	210	70	12.5	3-M12×1.75P	110	37	50	12	3-M12×1.75P	2900	Ø5~Ø220	Ø62~Ø210	22.4	

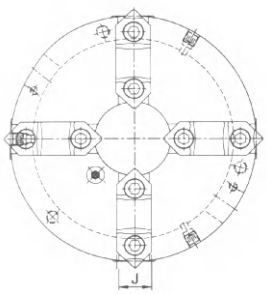
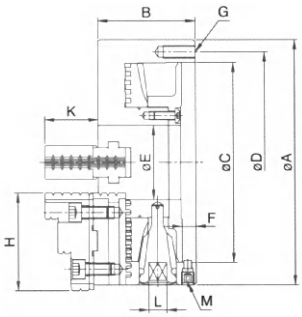
可调式强力型三爪钢壳夹头
3-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	J	K	L	M	最高回转速 Max.Speed r.p.m(min⁻¹)	把握范围 Max. Gripping Diameter 外径把握 O.D.Clamping(mm)	把握范围 内径把握 I.D.Clamping(mm)	净重 Weight (kg)	单价 Price
701670	KT-06	167	75.5	130	147	45	12	3-M10×1.5P	68	26	40	10	3-M12×1.75P	4000	Ø8~Ø160	Ø55~Ø150	9.7	
706702	KT-07	193	85	155	172	58	12	3-M10×1.5P	82	28	43	11	3-M12×1.75P	3500	Ø8~Ø180	Ø62~Ø170	13.6	
706704	KT-09	233	92	190	210	70	12.5	3-M12×1.75P	93	32	51	12	3-M12×1.75P	2900	Ø11~Ø220	Ø70~Ø210	21.5	
706706	KT-10	275	98	230	250	89	12.5	3-M12×1.75P	102	35	54	12	3-M12×1.75P	2500	Ø12~Ø260	Ø80~Ø250	30.4	
706708	KT-12	310	111	260	285	105	14	3-M12×1.75P	118	40	58	14	3-M12×1.75P	2200	Ø15~Ø300	Ø90~Ø290	45.4	

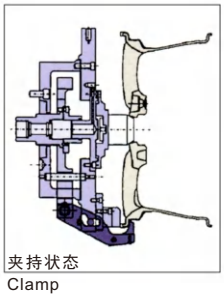
可调式强力型四爪钢壳夹头
4-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS

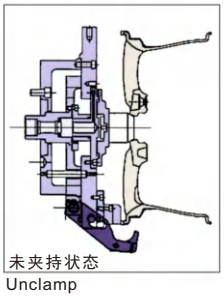



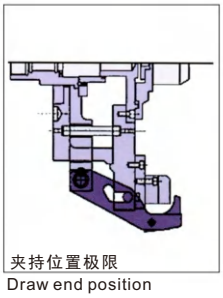


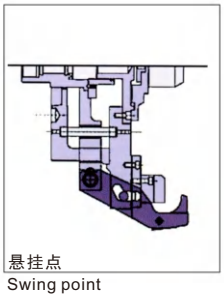
订购编码 Order Number	型号 MODEL	A	B	C	D	E	F	G	H	J	K	L	M	最高回转速 Max.Speed r.p.m(min⁻¹)	把握范围 Max. Gripping Diameter 外径把握 O.D.Clamping(mm)	把握范围 内径把握 I.D.Clamping(mm)	净重 Weight (kg)	单价 Price
706800	FKT-07	193	85	155	172	58	12	3-M10×1.5P	82	28	43	11	3-M12×1.75P	3500	Ø8~Ø180	Ø62~Ø170	14.1	
706802	FKT-09	233	92	190	210	70	12.5	3-M12×1.75P	93	32	51	12	3-M12×1.75P	2900	Ø11~Ø220	Ø70~Ø210	22	
706804	FKT-10	275	98	230	250	89	12.5	3-M12×1.75P	102	35	54	12	3-M12×1.75P	2500	Ø12~Ø260	Ø80~Ø250	33.5	
706806	FKT-12	310	111	260	285	105	14	3-M12×1.75P	118	40	58	14	3-M12×1.75P	2200	Ø15~Ø300	Ø90~Ø290	46.1	

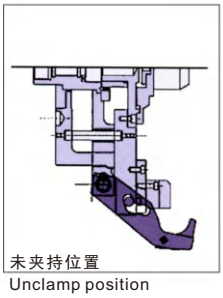
轮毂夹头

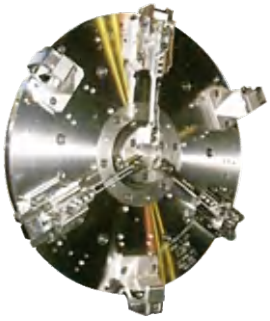

夹持状态
Clamp


未夹持状态
Unclamp


夹持位置极限
Draw end position


悬挂点
Swing point


未夹持位置
Unclamp position



夹盘直径 Chuck Diameter

轮圈直径 Wheel Diameter	Small	Large
Large 25"		
24"		WTi-322 小型卡车、卡车、巴士 (Light Truck. Truck. Bus) 2200rpm Min.15" Max.24.5"
23"		
22"		
21"		
20"	WTi-310 客车、小型卡车 (Passenger Car. Light Truck) 2800rpm Min.14" Max.20.5	US-1420 客车、小型卡车 (Passenger Car. Light Truck) 2800rpm Min.14" Max.20.5"
19"		
18"		
17"		
16"		LPS 客车、小型卡车 (Passenger Car. Light Truck) 2800rpm Min.15" Max.20.5"
15"		
14"		
13"		
12"		
Small 11"		
10"		



标准和轻型系列

本系列共有四种型号满足各类轮圈制造需求，WTi 适用于制造汽车和小型卡车的轮圈，外径范围149到209mm。卡车和公车轮圈最大范围可到24.59寸。
请联络本公司取得最理想的夹持方案。
轻型化的US系列夹头可延长主轮寿命，同时加速加工周期时间。
选配的零件侦测系统由三个空气活化活塞组成，其作用为感应工件是否安装正确，作为自动化机器手臂加工应用的基本元件。

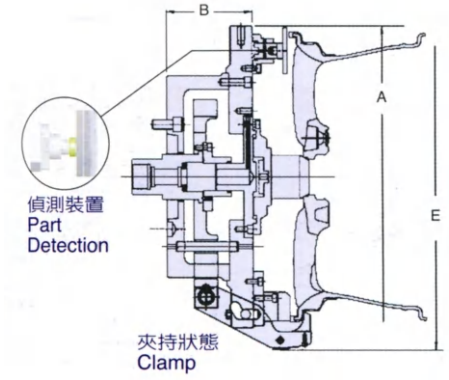
Standard and Lightweight Series

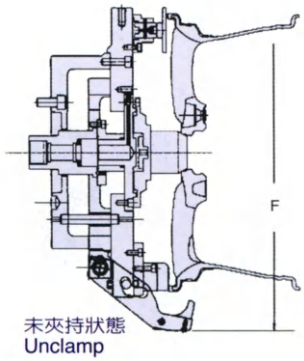
This chuck, available in four models. Does it all. The WTi fits automobile and light truck wheels 149 to 209. truck and bus wheels up to 24.59
Contact LMC Workholding for the optimum clamping solution. US Series chucks are lightweight for increased spindle life and faster cycle times.

Optional part detection system. consisting of three air-activated plungers, senses whether or not the workpiece is properly seated, an essential component for any automatic/robot loaded application.

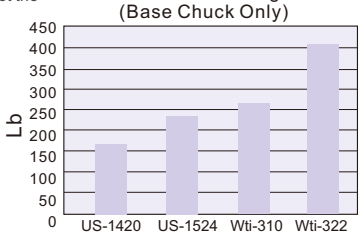
新一代凸轮手臂设计
Next-generation cam arm design



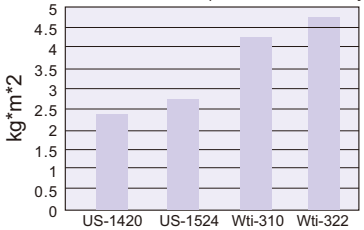




夹头重量 Weight
(Base Chuck Only)



转动惯性（仅夹头）
RotationalInertia (Base Chuck Only)



型号 Model Number	轮圈外径范围 Capacity Wheel Diameter	最高转速 RPMs (max)	拉杆拉力 Drawbar Pull (lbs)	拉杆行程 Drawbar Stroke (in/mm)	主轴鼻端 Spindle Mount	夹盘重量 Chuck Weight (lbs)	A尺寸 A Dia (in/mm)	B尺寸 B Dia (in/mm)
WTi-310/US-1420	14 to 20	2800	7700	1.38/35	A2-8	264/160	21.50/546.2	5.90/149.7
WTi-322/US-1524	15 to 24.5	2200	7700	1.38/35	A2-11	410/240	26.00/660.0	7.85/199.5

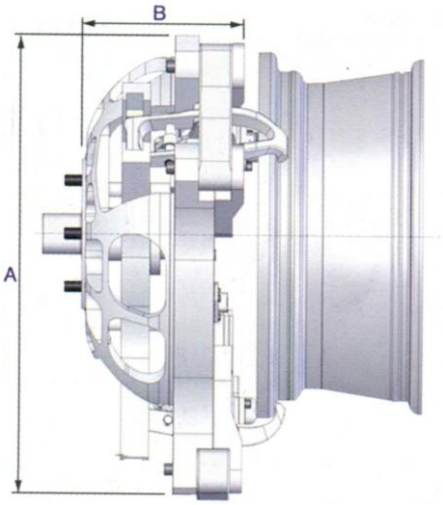
型号 Model Number	SS-3/4EX		S-3/4EX		L-3/4EX		XL-3/4EX		Z-3/4EX*	
	E	F	E	F	E	F	E	F	E	F
WTi-310/US-1420	21.5/547	22.4/570	21.5/547	23.0/584	22.0/559	24.1/611	23.1/587	25.0/634	24.3/618	26.2/665
WTi-322/US-1524	26.0/660	26.5/673	26.0/660	27.5/698	26.6/675	28.5/724	27.6/702	29.5/749	28.6/727	30.5/774



应用实例 >> Operation Example





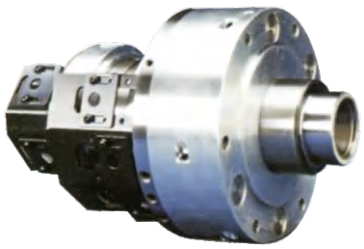


规格表 >> Specifications

型号 Model Number	轮圈外径范围 CapacityWheelDiameter	最高转速 RPM's(max)	拉杆拉力 DrawbarPull(lbs)	拉杆行程 DrawbarStroke(in/mm)
LPS-1520	15" to 20"	2800	7700	1.38/35

型号 Model Number	主轴鼻端 SpindleMount	夹盘净重 ChuckWeight(lbs)	A尺寸 A Dia(in/mm)	B尺寸 B Dia(in/mm)
LPS-1520	A2-8	300	29.45/748.0	7.32/186.0

轮毂夹头专用油缸



夹头制动器 / 油压缸

LMC Workholding提供两种为轮壳夹头特别设计的夹头制动器，这两种油压缸具有理想的油压系统压力装置，让夹头以最快得速度夹持和放松，而较短，较轻的设计有利於车床加速和减速，改善机器性能。
2R 120 为单动油压缸，适用于配合中宝车床心轴或弹簧片，以求轮圈中心
RNW 为双气缸油压缸，适合启动套筒夹头或小尺寸三爪夹头，可求轮圈中心。

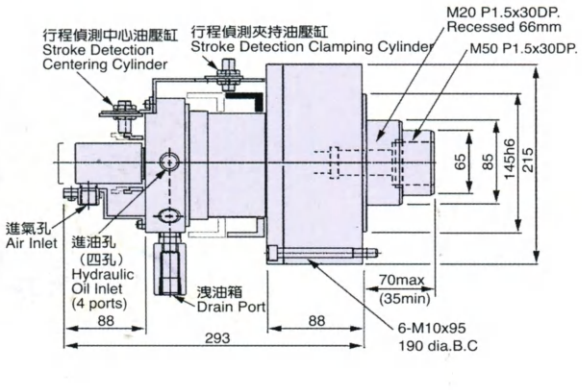
Chuck Actuators

LMC Workholding offers two chuck actuators specifi cally designed for wheel chuck applications like yours. These hydraulic cylinders offer optimum hydraulic system pressure settings for the fastest clamping/ unclamping action available.
And their shorter lengths and lighter weights enhance lathe acceleration and deceleration while improving machine dynmics.

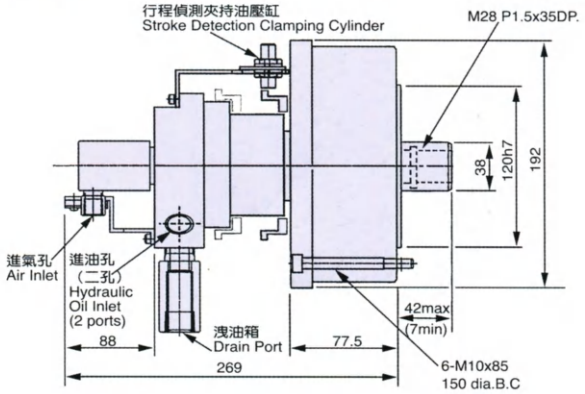
Model 2R 120 is a single-motion cylinder ideal for applications that use solid mandrels or spring rings for wheel centering. RNW is a dual-function cylinder that is ideal for applications that actuate a collet or a small three-jaw chuck for wheel centering.

尺寸图>> Dimensions

RNW 40



2R 120



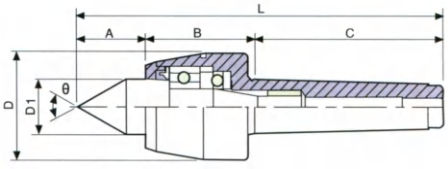
规格表>> Specifications

型号 Model Number	长度 Length （mm）	行程时间 Stroke Time(sec)	夹持油压缸 Clamping Cylinder 口径×行程 Bore×Stroke(mm)	活塞面积 Piston Area(in²/cm²)
2R-120	269	1.6	120×35	15.8/102
RNW 40	293	2.3(0.4)	146×35	17.2/111

型号 Model Number	中心油压缸 Centering Cylinder 口径×行程 Bore×Stroke(mm)	活塞面积 Piston Area(in²/cm²)	最大推力 Max. oper. Pressure (b/in²-kgf/cm²)	最高转速 RPMs (Max)	油压缸净重 Cylinder Weight (lbs)
2R-120	n/a	n/a	568/40	5000	33
RNW 40	50×12	1.2/8	568/40	4000	50

标准型回转顶尖 STANDARD LIVE CENTER

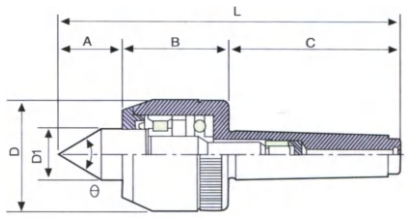




编码 Order	规格型号 Model	A	B	C	D	D1	d	L	Co精度 Accuracy	θ	G. W. 重量 Weight kgs		单价 Price
709100	BZ-MT.3H	39	55	86	53	30	-	180	0.005	60°	1.28kgs	合金尖	
709102	BZ-MT.4H	42	62	108	63	32	-	208	0.005	60°	2.20kgs		
709104	BZ-MT.5H	49	71	136	83	40	-	256	0.005	60°	4.33kgs		
709106	BZ-MT.5H	80	110	189	128	70	-	379	0.008	60°	14.2kgs		
709108	BZ-MT.1B	17	43	70	35	15	-	120	0.005	60°	0.75kgs	标准尖	
709110	BZ-MT.2B	24	41	80	45	20	-	145	0.005	60°	0.95kgs		
709112	BZ-MT.3B	39	55	86	53	30	-	180	0.005	60°	1.28kgs		
709114	BZ-MT.4B	42	62	108	63	32	-	208	0.005	60°	2.20kgs		
709116	BZ-MT.5B	49	71	136	83	40	-	256	0.005	60°	4.33kgs		
709118	BZ-MT.6B	80	110	189	128	70	-	379	0.008	60°	14.2kgs		
709120	BZ-MT.3X	45	55	86	53	30	10	186	0.005	60°	1.28kgs	细长尖	
709122	BZ-MT.4X	52	62	108	63	32	12	218	0.005	60°	2.20kgs		
709124	BZ-MT.5X	59	71	136	83	40	14	266	0.005	60°	4.42kgs		

标准重型回转顶尖 STANDARD HEAVY-DUTY LIVE CENTER

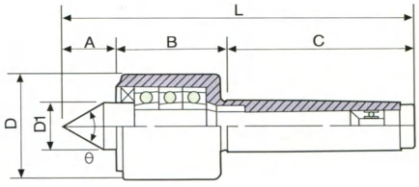




编码 Order	规格型号 Model	A	B	C	D	D1	d	L	Co精度 Accuracy	θ	G. W. 重量 Weight kgs		单价 Price
709200	ZXB-MT.3H	35	65	86	64	25	-	186	0.005	60°	1.9kgs	合金尖	
709202	ZXB-MT.4H	41	74	108	73	32	-	223	0.005	60°	2.85kgs		
709204	ZXB-MT.5H	49	78	136	94	40	-	263	0.005	60°	5.6kgs		
709206	ZXB-MT.3B	35	65	86	64	25	-	186	0.005	60°	1.9kgs	标准尖	
709208	ZXB-MT.4B	41	74	108	73	32	-	223	0.005	60°	2.85kgs		
709210	ZXB-MT.5B	49	78	136	94	40	-	263	0.005	60°	5.6kgs		

精密高速回转顶尖 HIGH-SPEED PRECISION LIVE CENTER

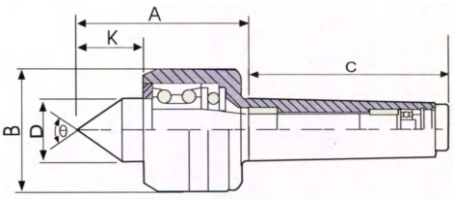




编码 Order	规格型号 Model	A	B	C	D	D1	d	L	Co精度 Accuracy	θ	G. W. 重量 Weight kgs		单价 Price
709300	GS-MT.3H	38	58	86	48	30	-	182	0.005	60°	1.25kgs	合金尖	
709302	GS-MT.4H	45	65	108	62	32	-	215	0.005	60°	2.22kgs		
709304	GS-MT.5H	50	70	136	72	40	-	256	0.005	60°	3.60kgs		
709306	GS-MT.3B	38	58	86	48	30	-	182	0.005	60°	1.25kgs	标准尖	
709308	GS-MT.4B	45	65	108	62	32	-	215	0.005	60°	2.22kgs		
709310	GS-MT.5B	50	70	136	72	40	-	256	0.005	60°	3.60kgs		
709312	GS-MT.3C	48	58	86	48	30	10	192	0.005	60°	1.28kgs	细长尖	
709314	GS-MT.4C	52	65	108	62	32	12	225	0.005	60°	2.26kgs		
709316	GS-MT.5C	60	70	136	72	40	14	266	0.005	60°	3.66kgs		

大型重载顶尖 LARGE-DUTY LIVE CENTER

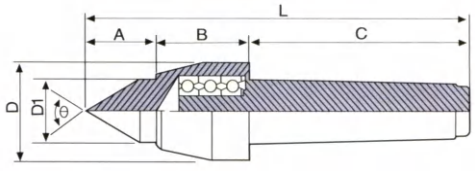




编码 Order	规格型号 Model	MT6-6T	MT6-8T	MT6-10T	M80-8T	M80-10T	M80-12T	单价 Price
709400	允许承载工件重量(kg)	6000	8000	10000	8000	10000	12000	
709402	定心精度(mm)	0.01	0.01	0.01	0.01	0.01	0.01	
709404	A	196	215	215	196	215	257	
709406	B	140	160	180	160	180	200	
709408	D	60	70	80	70	80	85	
709410	K	62	68	77	68	77	86	
709412	θ	60°	60°	60°	60°	60°	60°	

外旋回转顶尖 SIDES LIVE CENTER

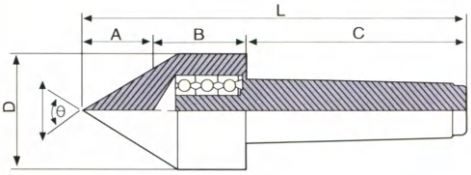




编码 Order	规格型号 Model	A	B	C	D	D1	d	L	Co精度 Accuracy	θ	G.W.重量 Weight kgs		单价 Price
709500	WX-MT.3H	39	55	86	53	45	-	180	0.005	60°	1.28kgs	合金尖	
709502	WX-MT.4H	42	62	108	63	53	-	208	0.005	60°	2.20kgs		
709504	WX-MT.5H	49	71	136	83	68	-	256	0.005	60°	4.33kgs		
709506	WX-MT.3B	39	55	86	53	45	-	180	0.005	60°	1.28kgs	标准尖	
709508	WX-MT.4B	42	62	108	63	53	-	208	0.005	60°	2.20kgs		
709510	WX-MT.5B	49	71	136	83	68	-	256	0.005	60°	4.33kgs		
709512	WX-MT.3X	45	55	86	53	45	10	186	0.005	60°	1.28kgs	细长尖	
709514	WX-MT.4X	52	62	108	63	53	12	218	0.005	60°	2.20kgs		
709516	WX-MT.5X	59	71	136	83	68	14	266	0.005	60°	4.42kgs		

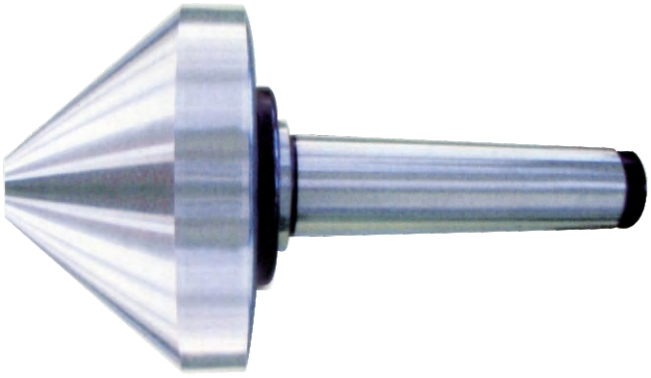
外旋回转顶尖 SIDES LIVE CENTER

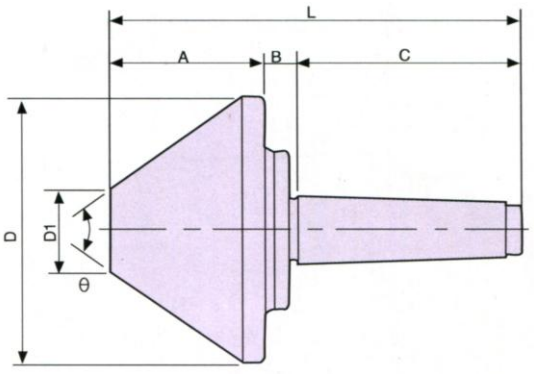




编码 Order	规格型号 Model	A	B	C	D	D1	d	L	Co精度 Accuracy	θ	G.W.重量 Weight kgs		单价 Price
709600	WX-MT.3C	28	55	86	60	-		169	0.005	60°	1.8kgs	标准尖	
709602	WX-MT.4C	30	62	108	80	-		196	0.005	60°	2.4kgs		
709604	WX-MT.5C	34	71	136	120	-		266	0.005	60°	5.0kgs		

回转顶尖系列
LIVE CENTER



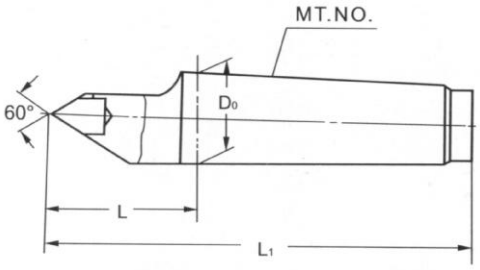


伞型顶尖 BULL NOSE CENTER

编码 Order	规格型号 Model	A	B	C	D	D1	L	Co精度 Accuracy	θ	G.W.重量 Weight kgs	单价 Price
709700	SX 63-MT.2	46	17	69	60	12	132	0.005	60°	0.9kgs	
709702	SX 63-MT.3	46	17	86	60	12	149	0.005	60°	1.0kgs	
709704	SX 78-MT.3	52	18	86	80	15	156	0.005	70°	1.3kgs	
709706	SX 106-MT.3	59	16	86	100	25	161	0.008	70°	2.7kgs	
709708	SX 63-MT.4	46	17	108	60	12	171	0.005	60°	1.0kgs	
709710	SX 78-MT.4	52	18	108	80	15	178	0.005	70°	1.45kgs	
709712	SX 106-MT.4	59	16	108	100	25	183	0.008	70°	3.0kgs	
709714	SX 128-MT.4	73	12	108	130	40	193	0.008	70°	4.8kgs	
709716	SX 156-MT.4	88	12	108	150	45	208	0.010	70°	7.6kgs	
709718	SX 206-MT.4	98	12	108	200	81	218	0.010	70°	17kgs	
709720	SX 258-MT.4	107	13	108	250	92	228	0.015	80°	27kgs	
709722	SX 128-MT.5	73	12	136	130	40	221	0.008	70°	5.8kgs	
709724	SX 156-MT.5	88	12	136	150	45	236	0.010	70°	8.5kgs	
709726	SX 206-MT.5	98	12	136	200	81	246	0.015	70°	18kgs	
709728	SX 258-MT.5	107	13	136	250	92	256	0.015	80°	28kgs	
709730	SX 306-MT.5	107	30	136	300	120	273	0.020	90°	37.5kgs	
709732	SX 206-MT.6	98	12	190	200	81	300	0.010	70°	20.6kgs	
709734	SX 258-MT.6	107	13	190	250	92	310	0.015	80°	30.6kgs	
709736	SX 306-MT.6	107	30	190	300	120	327	0.020	90°	40kgs	

固定顶尖系列
DEAD CENTER

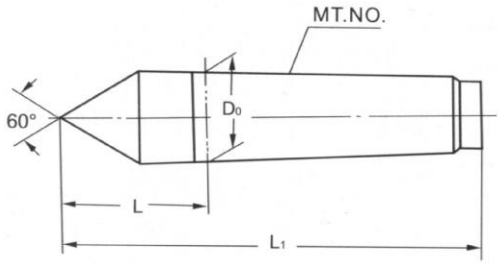
半缺顶尖(镶硬质合金) CARBIDE HALF-NOTCHED CENTER





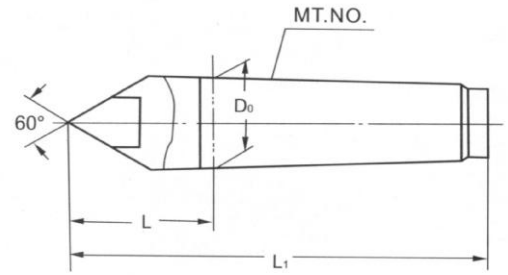
编码 Order	型号、规格 Model & Specification	锥度号 Taper	do	D1	L1	单价 Price
709800	BQDJ-D142	MT.2	17.780	36	100	100
709802	BQDJ-D143	MT.3	23.825	44	125	125
709804	BQDJ-D144	MT.4	31.267	58	160	160
709806	BQDJ-D145	MT.5	44.399	70	200	200
709808	BQDJ-D146	MT.6	63.348	98	280	280

固定顶尖 DEAD CENTER



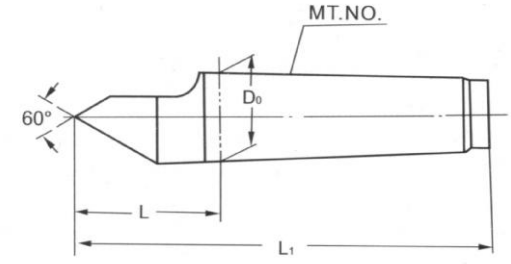
编码 Order	型号、规格 Model & Specification		锥度号 Taper	do	D1	L1	单价 Price
	普通级 Ordinary Class	精密级 Accurate Class					
709810	GDDJ-D11-4	GDDJ-D11-4G	1:20	4	10	33	33
709812	GDDJ-D11-6	GDDJ-D11-6G		6	15	47	47
709814	GDDJ-D11-80	GDDJ-D11-80G		80	119	315	315
709816	GDDJ-D11-100	GDDJ-D11-100G		100	128	360	360
709818	GDDJ-D110	GDDJ-D110G	MT.0	9.045	20	70	70
709820	GDDJ-D111	GDDJ-D111G	MT.1	12.065	26	80	80
709822	GDDJ-D112	GDDJ-D112G	MT.2	17.780	36	100	100
709824	GDDJ-D113	GDDJ-D113G	MT.3	23.825	44	125	125
709826	GDDJ-D114	GDDJ-D114G	MT.4	31.267	58	160	160
709828	GDDJ-D115	GDDJ-D115G	MT.5	44.399	70	200	200
709830	GDDJ-D116	GDDJ-D116G	MT.6	63.348	98	280	280

固定顶尖(镶硬质合金)
CARBIDE DEAD CENTER



编码 Order	型号、规格 Model & Specification	锥度号 Taper	do	D1	L1	单价 Price
709840	GDDJ-D121	MT.1	12.065	26	80	80
709842	GDDJ-D122	MT.2	17.780	36	100	100
709844	GDDJ-D123	MT.3	23.825	44	125	125
709846	GDDJ-D124	MT.4	31.267	58	160	160
709848	GDDJ-D125	MT.5	44.399	70	200	200
709850	GDDJ-D126	MT.6	63.348	98	280	280

半缺顶尖 HALF-NOTCHED CENTER



编码 Order	型号、规格 Model & Specification		锥度号 Taper	do	D1	L1	单价 Price
	普通级 Ordinary Class	精密级 Accurate Class					
709852	BQDJ-D130	DM130	MT.0	9.045	20	70	70
709854	BQDJ-D131	DM131	MT.1	12.065	26	80	80
709856	BQDJ-D132	DM132	MT.2	17.780	36	100	100
709858	BQDJ-D133	DM133	MT.3	23.825	44	125	125
709860	BQDJ-D134	DM134	MT.4	31.267	58	160	160
709862	BQDJ-D135	DM135	MT.4	44.399	70	200	200
709864	BQDJ-D136	Dm136	MT.6	63.348	98	280	280

铣床虎钳/分度盘

Milling machine vice / index plate

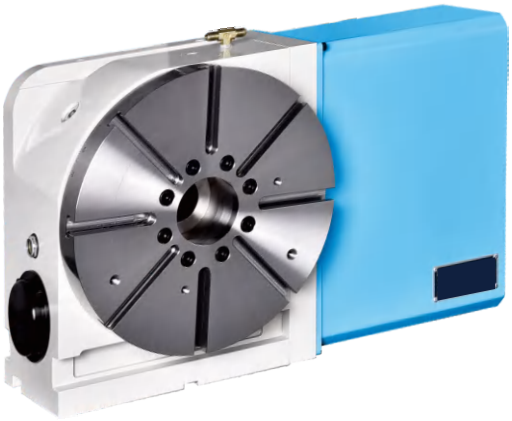
CNC数控分度盘	CNC数控分度盘	CNC数控分度盘	CNC数控分度盘	手动尾座	圆盘尾座	四轴圆盘尾座	HYU-301. PCH
N03	N05	N07	N09	N11	N11	N12	N13
							
分度盘	分度盘	分度盘	分度盘	手动尾座	手动尾座	四轴圆盘尾座	四轴圆盘尾座
高精度分度盘	高精度分度盘	大型四轴	五轴	可使用进口轴承零件	更赖重切削	FD系列尾座	铣削加工
铣床配件	铣床配件	铣床配件	铣床配件	铣床配件	铣床配件	铣床配件	铣床配件

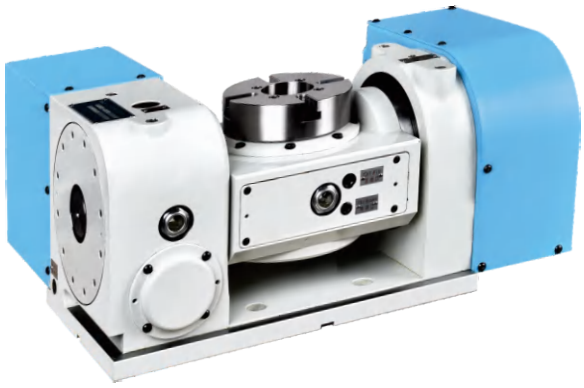
空油转换器	油压虎钳	电控磁盘	可倾斜虎钳	角固式虎钳	角固光面直角	角固光面虎钳	平面油压虎钳
N13	N15	N16	N16	N16	N16	N16	N16
							
空油转换器	液压虎钳	铣床虎钳	铣床虎钳	铣床虎钳	铣床虎钳	铣床虎钳	铣床虎钳
标准附件	油压精密虎钳	电控磁盘	可倾斜虎钳	角固式虎钳	角固式光面直角虎钳	角固光面虎钳	平面油压虎钳
铣床配件	铣床配件	铣床配件	铣床配件	铣床配件	铣床配件	铣床配件	铣床配件

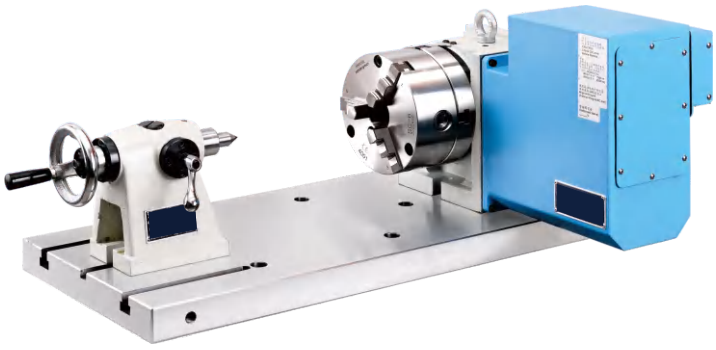
双向油压虎钳	倍力内藏油压	高级倍力外藏	向量光面直角	倍力光面直角	双向向量虎钳	超高压气动虎钳	万能分度头
N17	N17	N17	N17	N17	N17	N17	N18
							
铣床虎钳	铣床虎钳	铣床虎钳	铣床虎钳	铣床虎钳	液压虎钳	气压虎钳	分度盘
双向油压虎钳	倍力内藏增压虎钳	高级倍力外藏式增压	向量式光面直角	倍力增压光面直角	双向向量式虎钳	增压器型超高压虎钳	万能分度头
铣床配件	铣床配件	铣床配件	铣床配件	铣床配件	铣床配件	铣床配件	铣床配件

横立两用分度盘	尾座	可调倾斜角度	万能倾斜分度
N18	N18	N18	N18
			
分度盘	分度盘	分度盘	分度盘
横立两用分度盘	尾座	可调倾斜角度盘	万能倾斜分度盘
铣床配件	铣床配件	铣床配件	铣床配件









CNC数控分度盘
4th axis cnc rotary table



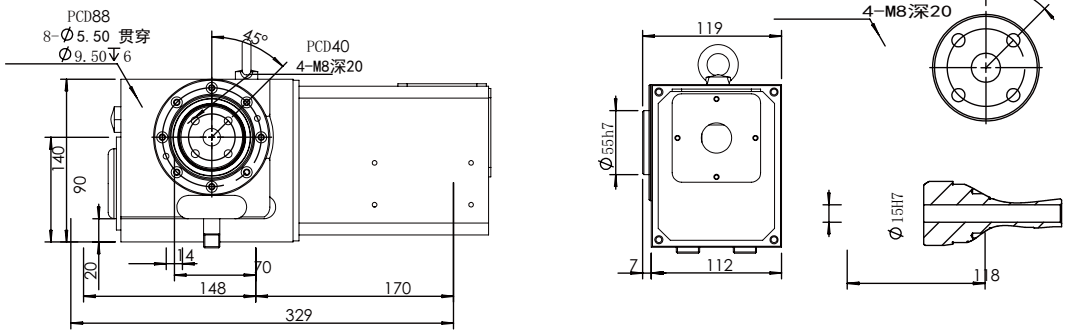
产品特点 Feature

- 采用进口双导程蜗杆、蜗轮，蜗轮采用铝青铜合金，传动定位精度高。
- 蜗轮大小接近盘面大小，不偷工减料、刚性比同类产品要强30%-50%。
- 轴承使用交叉滚柱轴承，提高分度盘旋转的精度和刚性，可保长时间加工时不必担心产生次品。
- 气压锁紧采用全面刹车之锁紧方式，加大锁紧力，确保耐重切削加工。
- 部分机型有大孔径与左手型可供选择。

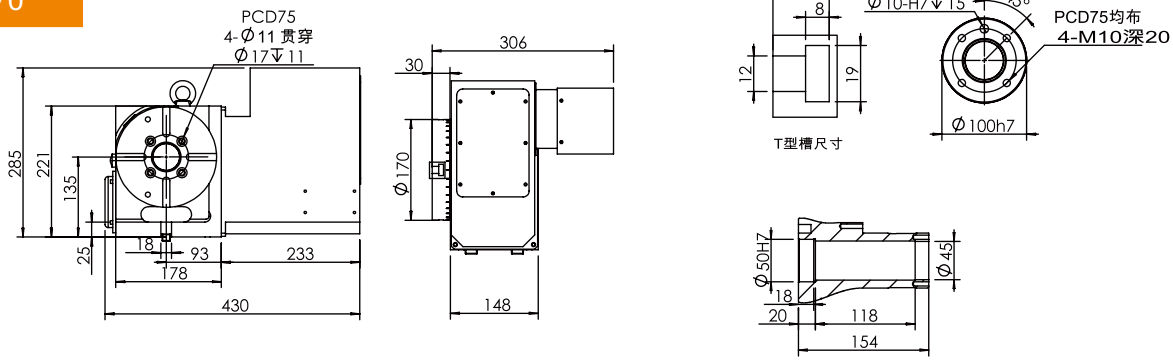
- It adopts imported dual-lead worm and worm gear, the worm adopts aluminum bronze alloy, which has high transmission positioning precision.
- The size of the worm is close to the size of the disk, and it is over 30%-50% stronger than the similar products.
- The bearings use crossed roller bearings, improved the accuracy and rigidity of the indexing disc rotation, avoid long-term processing without worrying about defective products.
- The pneumatic locking adopts the full brake locking method to increase the locking force and ensure heavy-duty cutting.
- Some models are in large hole and with left handwheel versions.

型式 type		单位 Unit	MD-100	MD-170	MD-200	MD-255
盘面直径 Worktable diameter		mm	无盘面 No disc	Φ170	Φ200	Φ250
盘面主轴中心孔 Spindle bore diameter		mm	--	$\Phi 50^{H7}$	$\Phi 50^{H7}$	$\Phi 75^{H7}$
盘面主轴中心穿透孔 Through hole diameter		mm	Φ15	Φ45	Φ45	Φ50
水平放置总高 Center height with table top horizontal		mm	140	221	261	285
垂直放置中心高 Center height with table top vertical		mm	90	135	160	160
旋转轴盘面T型槽宽 Width of T slots		mm	--	12^{H7}	12^{H7}	12^{H7}
基准导块宽 Width of alignment key in mounting base		mm	12^{h7}	14^{h7}	18^{h7}	18^{h7}
锁紧装置使用压力 Clamp operation pressure		kg/cm^2	5(气压 Pneumatic)	5(气压 Pneumatic) 25(油压 Hydraulic)	5(气压 Pneumatic) 25(油压 Hydraulic)	5(气压 Pneumatic) 25(油压 Hydraulic)
适用环境温度 Ambient temperature		℃	18°~40°			
等分割最小角度 Mini input increment		degree	0.001°	0.001°	0.001°	0.001°
总齿数比 Gear ratio			1/40	1/72	1/72	1/144
转盘最高转速 Table speed	马达转速3000 Motor speed	r.p.m	X	X	X	20.8
	马达转速4000 Motor speed	r.p.m	100	44.4	44.4	X
伺服马达（选配） Serve motor (optional)	FANUC		--	α 4i/B8i	α 4i/B8i	α 4i/B8i
	MITSUBISHI		--	HF-104S	HF-104S	HF-104S
	SIEMENS		--	1FK7060	1FK7060	1FK7063
分割精度（累积值） Indexing accuracy(Cumulative value)		sec	40″	40″	30″	15″
重现精度 Repeatability accuracy		sec	±2″	±2″	±2″	±2″
容许负荷（锁紧时） Permissible load (With table clamped)	F	N-m	6480	10800	14400	19600
	FxL	N-m	250	500	800	800
	FxL	N-m	380	780	1900	1900
容许积载荷重 **Allowable load**	0°	kg	75	150	200	250
	90°	kg	75(150)	100(200)	100(200)	125(250)
产品重量 **Weight**		kg	16	48	65	90

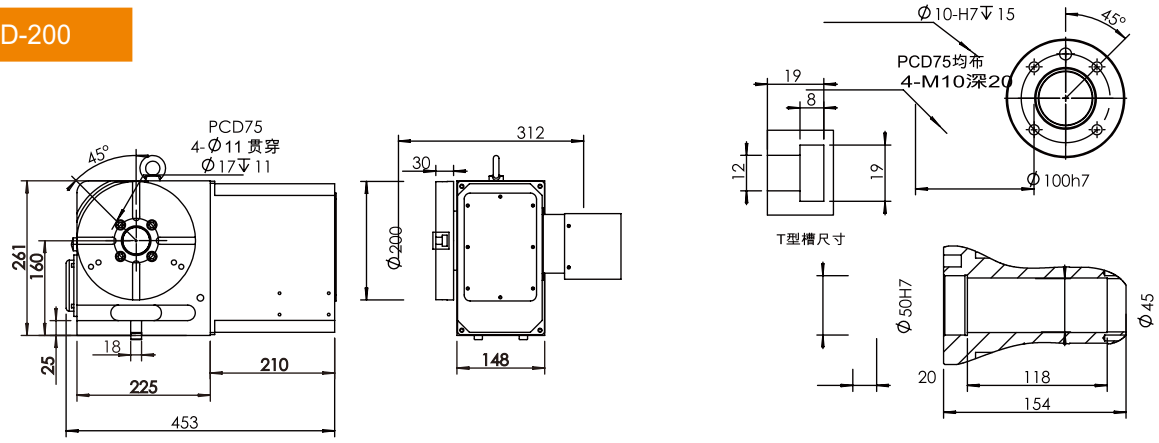
MD-100



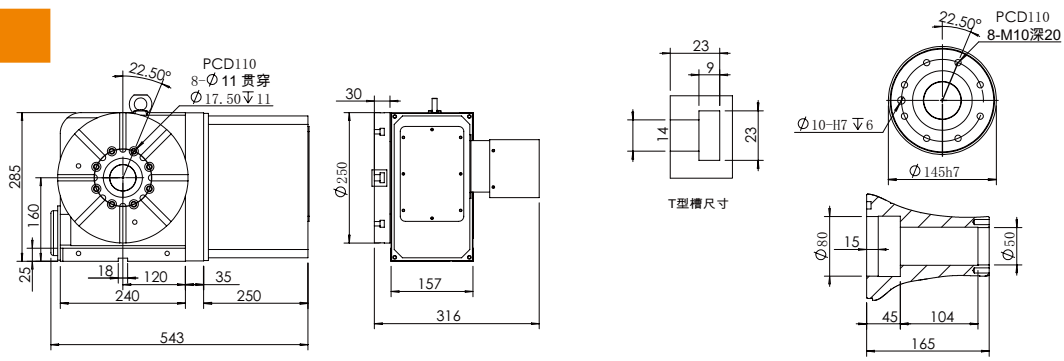
MD-170



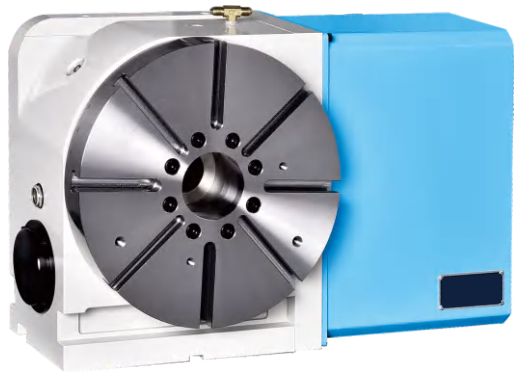
MD-200



MD-255



CNC数控分度盘
4th axis cnc rotary table



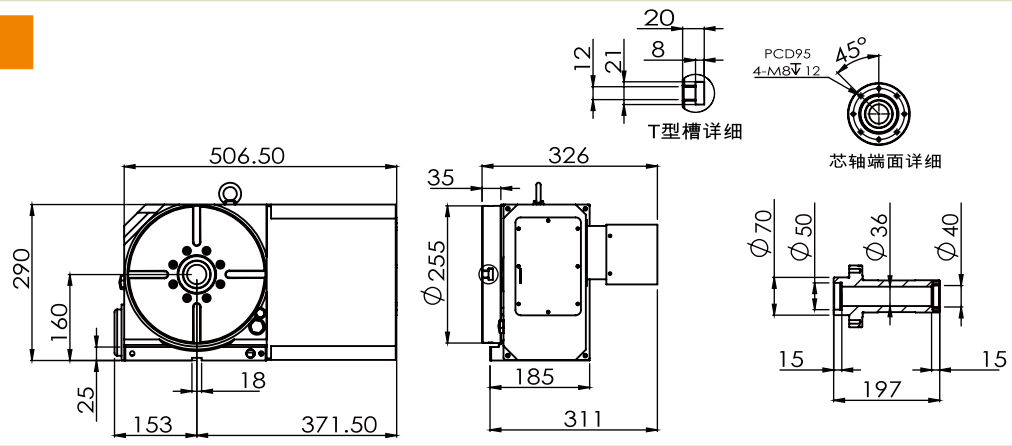
产品特点 Feature

- 采用进口双导程蜗杆、蜗轮，蜗轮采用铝青铜合金，传动定位精度高。
- 蜗轮大小接近盘面大小，不偷工减料、刚性比同类产品要强30%-50%。
- 轴承使用交叉滚柱轴承，提高分度盘旋转的精度和刚性，可保长时间加工时不必担心产生次品。
- 气压锁紧采用全面刹车之锁紧方式，加大锁紧力，确保耐重切削加工。
- 部分机型有大孔径与左手型可供选择。

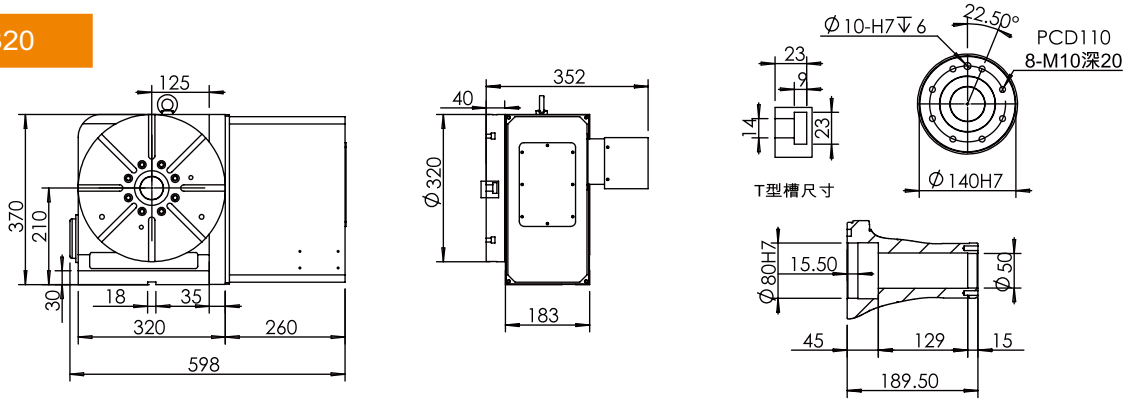
- It adopts imported dual-lead worm and worm gear, the worm adopts aluminum bronze alloy, which has high transmission positioning precision.
- The size of the worm is close to the size of the disk, and it is over 30%-50% stronger than the similar products.
- The bearings use crossed roller bearings, improved the accuracy and rigidity of the indexing disc rotation, avoid long-term processing without worrying about defective products.
- The pneumatic locking adopts the full brake locking method to increase the locking force and ensure heavy-duty cutting.
- Some models are in large hole and with left handwheel versions.

型式 type		单位 Unit	MD-255HB	MD-320	MD-400	MD-500
盘面直径 Worktable diameter		mm	Φ255	Φ320	Φ400	Φ500
盘面主轴中心孔 Spindle bore diameter		mm	$\Phi50^{H7}$	$\Phi75^{H7}$	$\Phi90^{H7}$	$\Phi200^{H7}$
盘面主轴中心穿透孔 Through hole diameter		mm	36	Φ50	Φ42	Φ170
水平放置总高 Center height with table top horizontal		mm		370	456	565
垂直放置中心高 Center height with table top vertical		mm	160	210	255	310
旋转轴盘面T型槽宽 Width of T slots		mm	12^{H7}	14^{H7}	14^{H7}	18^{H7}
基准导块宽 Width of alignment key in mounting base		mm	18^{h7}	18^{h7}	18^{h7}	18^{h7}
锁紧装置使用压力 Clamp operation pressure		kg/cm^2	35（油压 Hydraulic）	35（油压 Hydraulic）	35（油压 Hydraulic）	35（油压 Hydraulic）
适用环境温度 Ambient temperature		℃	18°～40°			
等分割最小角度 Mini input increment		degree	0.001°	0.001°	0.001°	0.001°
总齿数比 Gear ratio			1/120	1/144	1/120	1/180
转盘最高转速 Table speed	马达转速3000 Motor speed	r.p.m	33.3	20.8	25	16.6
	马达转速4000 Motor speed	r.p.m		27.7	--	--
伺服马达（选配） Serve motor (optional)	FANUC		α iF4	α4iB12i	α 12iB22i	α 12i
	MITSUBISHI			HF-154S	HF-204S	HF-204S
	SIEMENS			1FK7063	1FK7083	1FK7083
分割精度（累积值） Indexing accuracy(Cumulative value)		sec	15″	15″	15″	15″
重现精度 Repeatability accuracy			±2″	±2″	±2″	±2″
容许负荷（锁紧时） **Permissible load (With table clamped)**	F	N-m	13720	19600	29400	22540
	FxL	N-m	490	800	2450	2450
	FxL	N-m	833	1900	3626	2450
容许积载荷重 **Allowable load**	0°	kg	250	350	400	800
	90°	kg	100	150	200	350
产品重量 **Weight**		kg	110	154	280	480

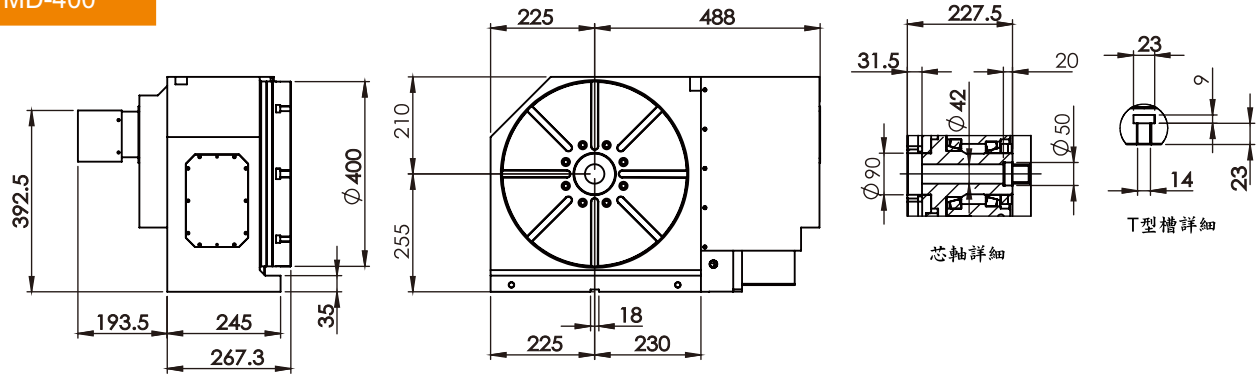
MD-255HB



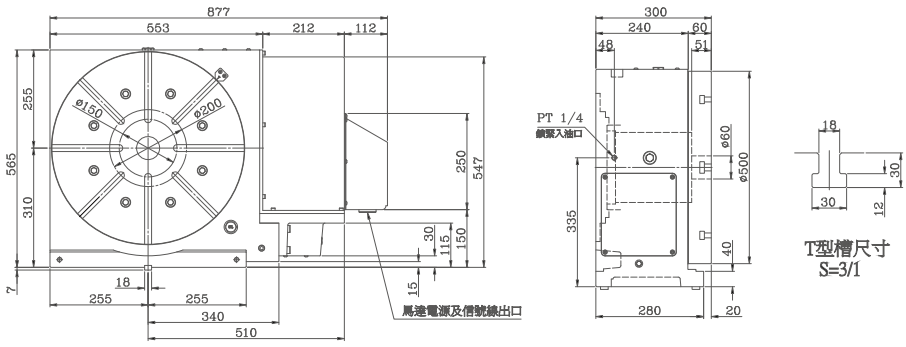
MD-320



MD-400



MD-500



CNC数控分度盘（大型四轴）

cnc rotary table (large size)



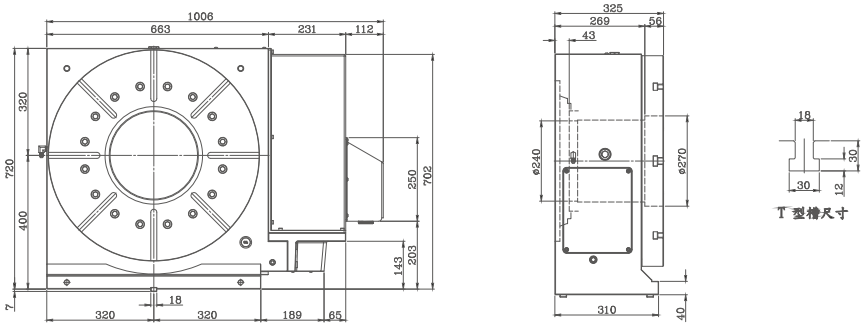
产品特点 Feature

- 采用进口双导程蜗杆、蜗轮，蜗轮采用铝青铜合金，传动定位精度高。
- 蜗轮大小接近盘面大小，不偷工减料、刚性比同类产品要强30%–50%。
- 轴承使用交叉滚柱轴承，提高分度盘旋转的精度和刚性，可保长时间加工时不必担心产生次品。
- 气压锁紧采用全面刹车之锁紧方式，加大锁紧力，确保耐重切削加工。
- 部分机型有大孔径与左手型可供选择。

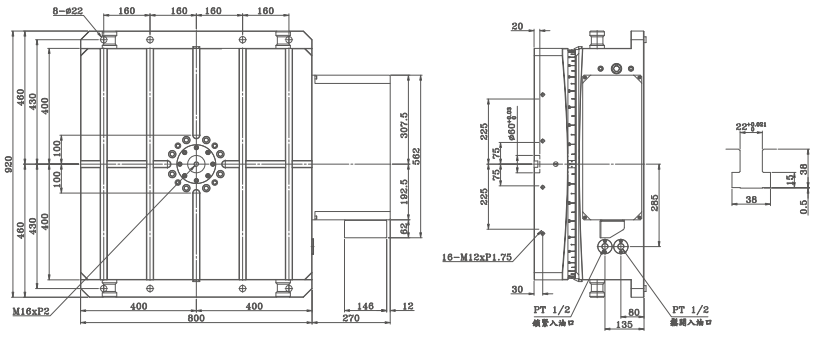
- It adopts imported dual-lead worm and worm gear, the worm adopts aluminum bronze alloy, which has high transmission positioning precision.
- The size of the worm is close to the size of the disk, and it is over 30%-50% stronger than the similar products.
- The bearings use crossed roller bearings, improved the accuracy and rigidity of the indexing disc rotation, avoid long-term processing without worrying about defective products.
- The pneumatic locking adopts the full brake locking method to increase the locking force and ensure heavy-duty cutting.
- Some models are in large hole and with left handwheel versions.

型式 type		单位 Unit	MD-630	MD-800	MD-1000	MD-1200
盘面直径 Worktable diameter		mm	Φ630	Φ800	Φ1000	Φ1200
盘面主轴中心孔 Spindle bore diameter		mm	$\Phi 270^{H7}$	$\Phi 295^{H7}$	$\Phi 305^{H7}$	$\Phi 330^{H7}$
盘面主轴中心穿透孔 Through hole diameter		mm	Φ240	Φ250	Φ260	Φ280
水平放置总高 Center height with table top horizontal		mm	325	380	430	550
垂直放置中心高 Center height with table top vertical		mm	400	480	650	750
旋转轴盘面T型槽宽 Width of T slots		mm	18^{H7}	22^{H7}	22^{H7}	22^{H7}
基准导块宽 Width of alignment key in mounting base		mm	18^{h7}	22^{h7}	22^{h7}	22^{h7}
锁紧装置使用压力 Clamp operation pressure		kg/cm^2	35（油压 Hydraulic）	35（油压 Hydraulic）	35（油压 Hydraulic）	35（油压 Hydraulic）
适用环境温度 Ambient temperature		℃	18°~40°			
等分割最小角度 Mini input increment		degree	0.001°	0.001°	0.001°	0.001°
总齿数比 Gear ratio			1/180	1/360	1/360	1/720
转盘最高转速 Table speed	马达转速3000 Motor speed	r. p. m	11.1	8.3	8.3	4.16
伺服马达（选配） Serve motor (optional)	FANUC		α 22i	α 22i	α 22i	α 30i
	MITSUBISHI		HF-354S	HF-354S	HF-354S	X
	SIEMENS		1FK7101	1FK7101	1FK7101	X
分割精度（累积值） Indexing accuracy(Cumulative value)		sec	15″	15″	15″	15″
重现精度 Repeatability accuracy		sec	±2″	±2″	±2″	±2″
容许负荷（锁紧时） **Permissible load (With table clamped)**	F	N-m	25480	27440	48020	5880
	FxL	N-m	4410	5390	6370	17640
	FxL	N-m	3920	6860	17640	2000
容许积载荷重 **Allowable load**	0°	kg	1000	1400	3000	5000
	90°	kg	400	600	1200	2000

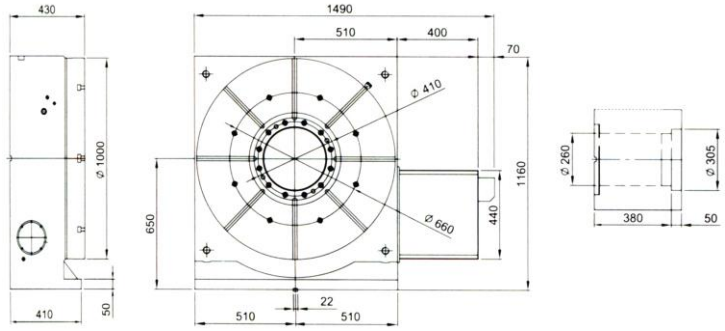
MD-630



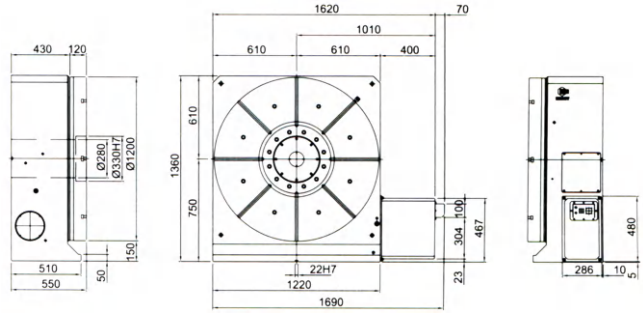
MD-800



MD-1000



MD-1200



CNC数控分度盘（五轴）
cnc rotary table (5 axis)



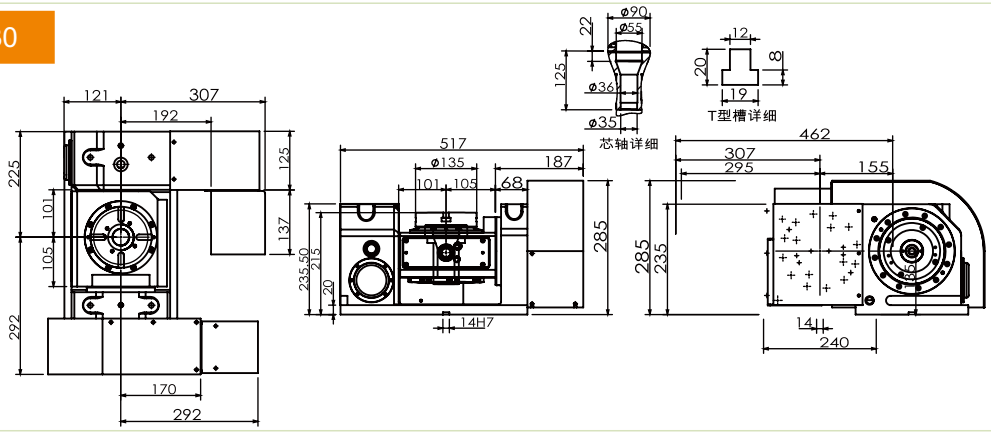
产品特点 Feature

- 采用进口双导程蜗杆、蜗轮，蜗轮采用铝青铜合金，传动定位精度高。
- 蜗轮大小接近盘面大小，不偷工减料、刚性比同类产品要强30%-50%。
- 气压锁紧采用全面刹车之锁紧方式，加大锁紧力，确保耐重切削加工。
- 小型化设计，MABD-125可装在钻攻机床，不产生干涉。

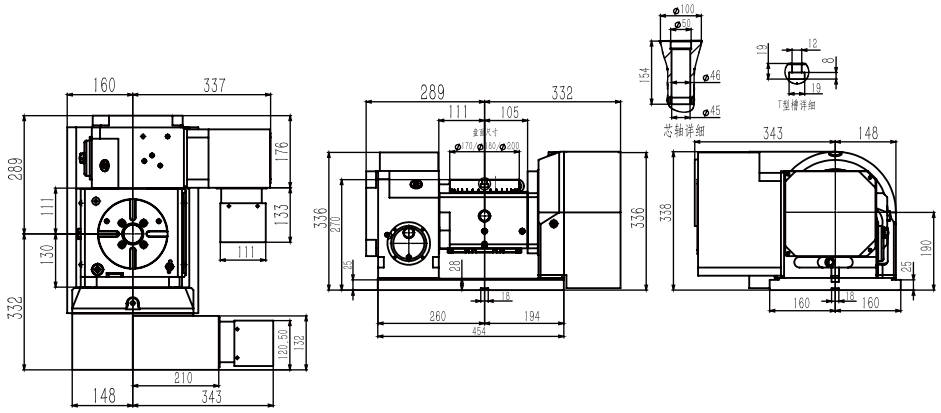
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- The size of the worm is close to the size of the disk, and it is over 30%-50% stronger than the similar products.
- The pneumatic locking adopts the full brake locking method to increase the locking force and ensure heavy-duty cutting.
- Some models are in large spindle hole and with left handwheel versions.

型式 type		单位 Unit	MABD-130		MABD-180		MABD-250		MABD-350	
旋转轴盘面直径 Worktable diameter		mm	Φ135		Φ180		Φ250		Φ350	
旋转轴主轴中心孔 Spindle holder		mm	$\Phi 40^{H7}$		$\Phi 50^{H7}$		$\Phi 75^{H7}$		$\Phi 135^{H7}$	
旋转轴主轴中心穿透孔 Through hole diameter		mm	Φ35		Φ45		Φ50		Φ110	
旋转轴盘面水平0°时高度 Table height at 0°		mm	215		270		294		350	
旋转轴盘面水平90°时总高 Table height at 90°tilted		mm	233		260		370		448	
旋转轴盘面水平90°时中心高 Table Center height at 90° tilted		mm	135		130		210		255	
旋转轴盘面T型槽宽 Width of T slots		mm	x		12^{H7}		12^{H7}		14^{H7}	
基准导块宽 Width of alignment key in mounting base		mm	14^{h7}		18^{h7}		18^{h7}		18^{h7}	
锁紧装置使用压力 Clamp operation pressure		kg/cm^2	5（空压 Pneumatic） 35（油压 Hydraulic）		35（油压 Hydraulic）		35（油压 Hydraulic）		35（油压 Hydraulic）	
适用环境温度 Ambient temperature		℃	18°~40°							
轴别 Axis			旋转轴 Rotate axis	倾斜轴 Rotate axis	旋转轴 Rotate axis	倾斜轴 Rotate axis	旋转轴 Rotate axis	倾斜轴 Rotate axis	旋转轴 Rotate axis	倾斜轴 Rotate axis
等分割最小角度 Mini input increment		degree	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
总齿数比 Gear ratio			1/60	1/120	1/90	1/120	1/90	1/120	1/144	1/240
转盘最高转速 Table speed	马达转速3000 Motor speed	r.p.m	X	X	X	X	33.3	24.9	8.3	8.3
	马达转速4000 Motor speed	r.p.m	66.6	33.3	44. 4	33. 3	44.4	33.3	X	X
伺服马达（选配） Serve motor (optional)	FANUC		α 2i	α 2i	α 2i	α 2i	α 4i	α 4i	α 8i	α 8i
	MITSUBISHI		HF-105S	HF-105S	HF-105S	HF-105S	HF-104S	HF-104S	HF-104S	HF-104S
	SIEMENS		1FK7042	1FK7042	1FK7042	1FK7042	1FK7063	1FK7063	1FK7063	1FK7063
分割精度（累积值）Indexing accuracy(Cumulative value)		sec	60″	60″	20″	60″	15″	45″	15″	45″
重现精度 Repeatability accuracy		sec	±2″	±2±4″	±2″	±4″	±2″	±2″	±2″	±2″
倾斜轴倾斜角度范围 Tilting range		水平时=0°	-20°~+110°		-110°~+110°		-110°~+110°		-110°~+110°	
容许负荷（锁紧时） **Permissible load (With table clamped)**	**F**	**N**	3430		4900		8820		17640	
	FxL	**N-m**	147		167		490		833	
	FxL	**N-m**	147		167		490		980	
容许积载荷重 **Allowable load**	**0°**	kg	40		60		100		150	
	0~90°	kg	25		40		50		100	
倾斜摆动扭力 Rotation torque	WxL	kgf-m	3		8		16		21	

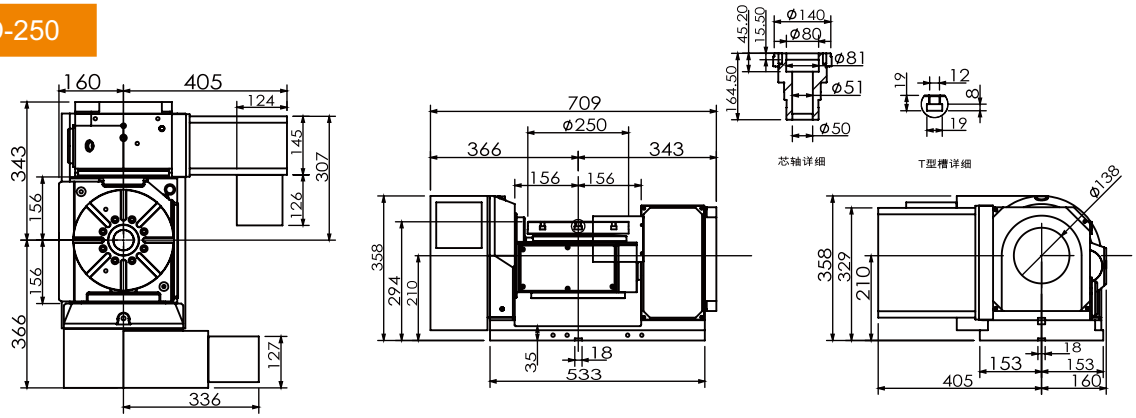
MABD-130



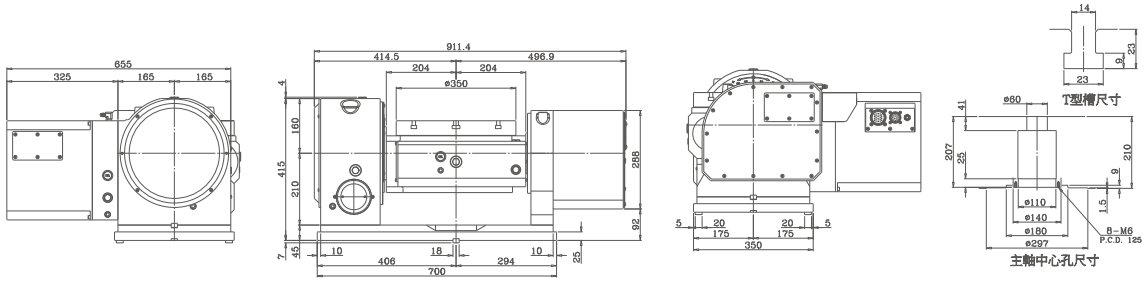
MABD-180



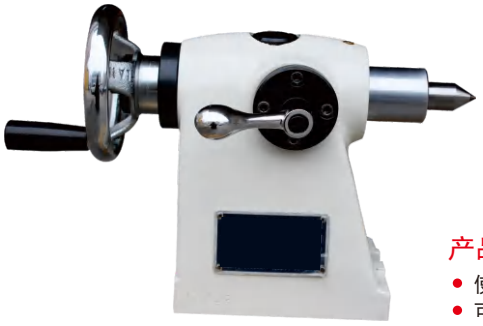
MABD-250

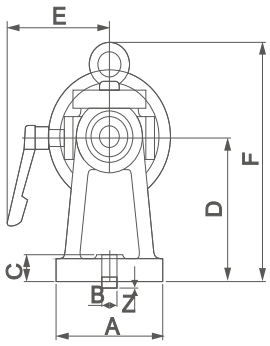


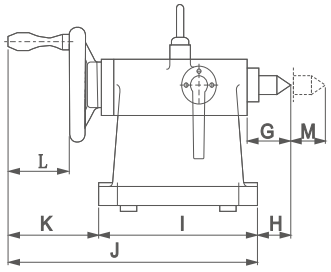
MABD-350



手动尾座
Manual tailstock







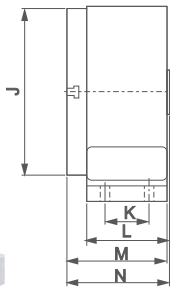
产品特点 Feature

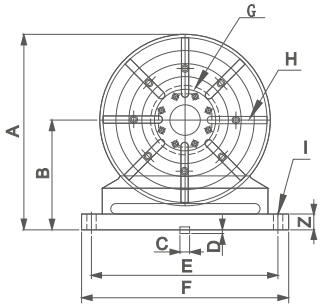
- 使用进口轴承零件、品质更稳定。
- 可选择固定式(不带"S")或替换式(带"S")两种。
- 可选择气压或油压。
- The tailstocks are designed to complement Non-lifting Ind-exing and NC Rotary tables when heavy and/or long work p-iece are machined.
- Quill travel is driven by handwheel.
- Standard center heights from 110~400mm, special sizes are available on request.
- Fixed or not can be optioned by customer ("S" means fixed).
- Pneumatic or hydraulic optional

机型/尺寸 Size	TD-110/110S	TD-135/135S	TD-160/160S	TD-210/210S	TD-255S
A	100	100	130	146	200
B	14	14	18	18	18
C	23	23	30	30	30
D	110	135	160	210	255
E	103	103	125	125	135
F	161	186	267	317	394
G	67	67	64	64	122
H	36	36	47	47	132
I	135	135	230	230	285
J	247	247	362	362	482
K	112	112	132	132	197
L	60	60	90	90	90
M	30	30	50	50	110
N	7	7	7	7	7
顶针 Pin	2#	2#	3#	3#	4#
净重 Net weight(KG)	10	12	19	26	53

圆盘尾座
Round disc tailstock







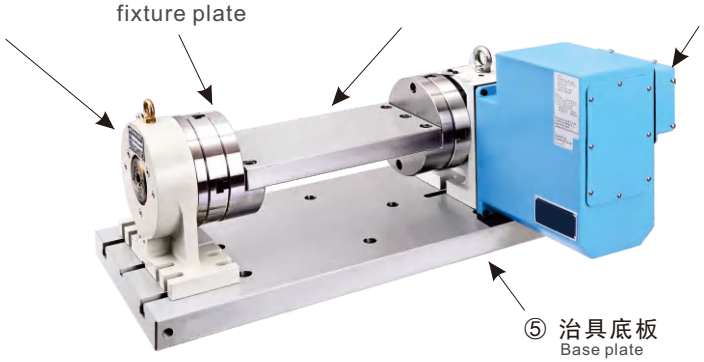
产品特点 Feature

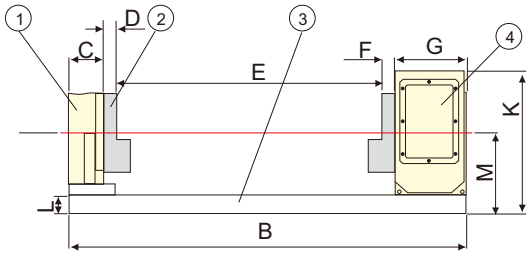
- 使用进口轴承零件品质更稳定。
- 与本体同步刹车，更耐重切削。
- 气压锁紧采用全面碟式刹车锁紧方式。
- 油压锁紧采用全圆周油压环抱锁紧方式。
- The series tailstocks are fitted with a free Pneumatic/hydraulic brake assembly for max holding power.
- Used to support long a or heavy piece parts or when fabricating a trunion style work holding fixture.
- Operating pressure = 35 bar hydraulic, 5bar pneumatic

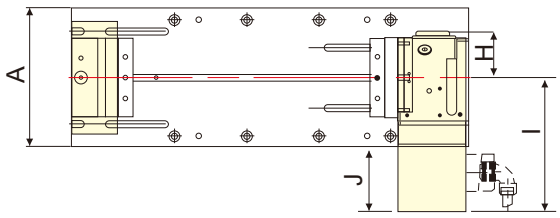
规格尺寸 Size	FD-90	FD-135P	FD-135PB	FD-160P	FD-160AP	FD-160H	FD-210	FD-255A
锁紧方式 Locking	气压5kg/cm² Pressure	气压(Pressure)5kg/cm2/油压 (Hydraulic) 35kg/cm²						油压35kg/cm² Hydraulic
盘面尺寸 Disc diameter	--	Φ170mm	Φ170mm	Φ170mm	Φ200mm	Φ250mm	Φ320mm	Φ320mm
贯穿孔径 Through hole diameter	Φ25mm	Φ20mm	Φ35mm	Φ20mm	Φ20mm	Φ45mm	Φ50mm	Φ42mm
中心高度 Center height	90mm	135mm	135mm	160mm	160mm	160mm	210mm	255mm
A	140	220	220	245	260	285	370	420
B	90	135	135	160	160	160	210	255
C	12	14	14	18	18	18	18	18
D	5	5	5	5	5	5	5	5
E	-	200	200	200	250	250	300	360
F	100	245	245	245	300	300	400	400
G	40	75	80	80	80	75	118	102
H	-	4-12	4-12	4-12	4-12	4-12	4-14	8-14
I	-	4-14	4-14	4-18	3-18	3-18	3-18	4-18
J	-	170	170	170	200	250	320	320
K	-	63	63	63	63	80	108	85
L	50	95	95	95	95	120	148	153
M	67.5	101	101	101	101	134	164.5	194
重量kg weight	4.6	20.3	22	21.4	28.8	53.6	110	

四轴圆盘尾座模组
Accessories

FD系列尾座 FD series tailstoc
200圆形标准式L块 200 round standard L fixture plate
中间桥板 Fixture Plate
CNC旋转工作台 Cnc rotary table



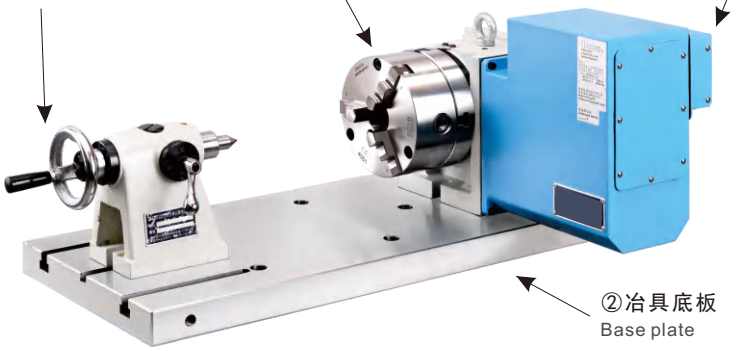


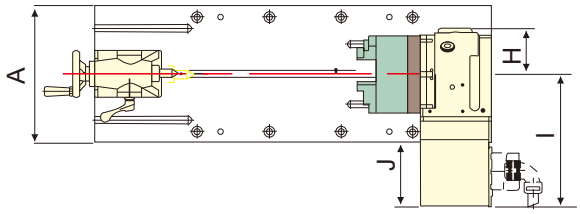


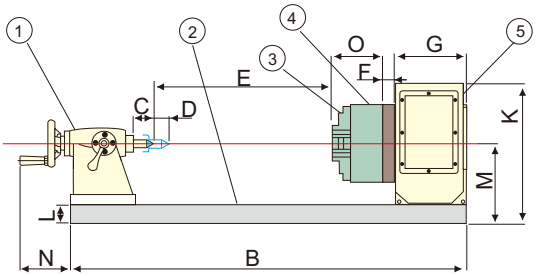
型号/尺寸 Size	A	B	C	D	E	F	G	H	I	J	K	L	M
MD-170/FD-135	300	82 5	101	25	495	25	179	85	338	188	304	40	175
MD-200/FD-160A	300	82 5	101	25	495	25	179	85	362	212	347	40	200
MD-255/FD-160	450	1250	171	25	774	25	213	160	400	175	412	50	210
MD-320/FD-210	450	1250	194	25	737	25	223	205	502	277	430	50	260

四轴顶针尾座模组
Manual tailstock

① TD 系列尾座 TD series tailstock
③ 三爪夹头 3 Jaw chuck
④NC旋转工作台 Cnc rotary





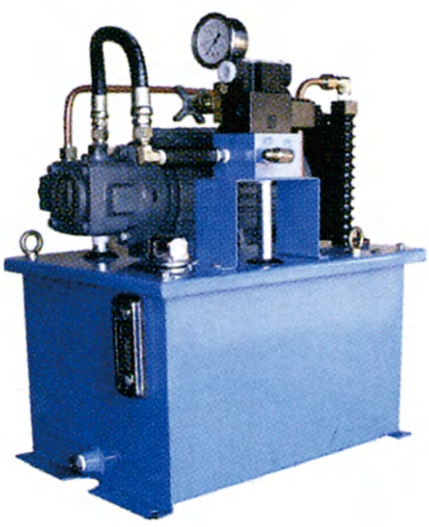


型号/尺寸 Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	搭配三爪尺寸
MD-170/TD-135	300	82 5	42	30	349	20	179	85	338	188	304	40	175	112	105	6”
MD-200/TD-160	300	82 5	47	50	230	20	179	85	362	212	347	40	200	132	119	7”
MD-255/TD-160	450	1250	47	50	619	22	213	160	400	175	412	50	210	132	119	8”
MD-320/TD-210	450	1250	47	50	590	26	223	205	502	277	430	50	260	132	134	9”

HYU-301.PCH（TD系列用）
HYU-301.PCH (TD series)

标准附件
Standard parts

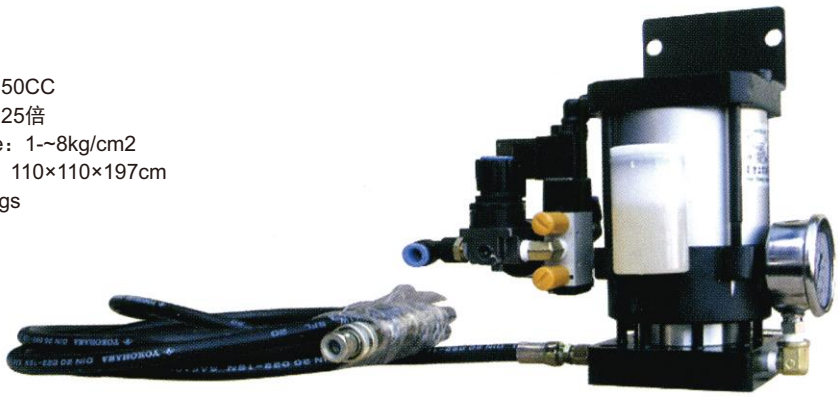
1. 油箱30L
   30LHydraulic tank
2. 马达1HP, 3ph, 50/60Hz, 220/380V (5623)
   Motor 1HP,3ph,50/60Hz,220/380V(5623)
3. 泵浦20L/min
   Pump 20L/min
4. 电磁阀02-2B2 (AC110, 220V, DC24V)
   Solenoid valve 02-2B2(AC110,220V,DC24V)
5. 油管3/8″ ×5M 1条
   Oil pipe 3/8″×5M 1条
6. 冷却器
   Cooler
7. 电源开关盒
   Power switch box
8. 油压油
   Hydraulic oil
9. 重量：50kgs
   weight：50kgs



空油转换器
Converter

●输出油量：50CC
●增加倍数：6.25倍
●空压源：1-~8kg/cm2
●外观尺寸：110×110×197cm
●重量：5kgs

●Output oil：50CC
●Multiple：6.25倍
●Air pressure：1-~8kg/cm2
●Dimension：110×110×197cm
●Weight：5kgs

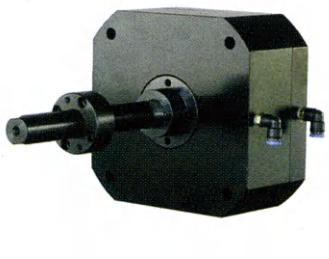


增压缸(标准附件)/Cylinder

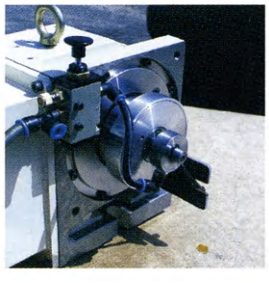
●1/4″ 五口二位单线圈电磁阀（电压可供选择使用）1组
●1/4″ 快速接头 1组
●1/4″ 油管×5M 1条
●配管用之接头零件包1组

●Five joint 2 pin single wire solenoid valve (voltage optional)
●Quick joint
●Pipe
●Relate accessories

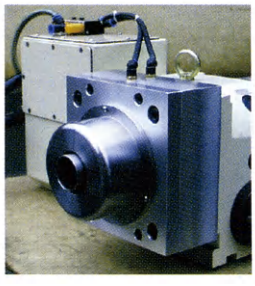
回转缸及回转接头
Rotate cylinder and rotate joint



RQ-100



RR-90



RO-160

NC分度盘需求表格

Selection form of Rotary Table / Indexing Table

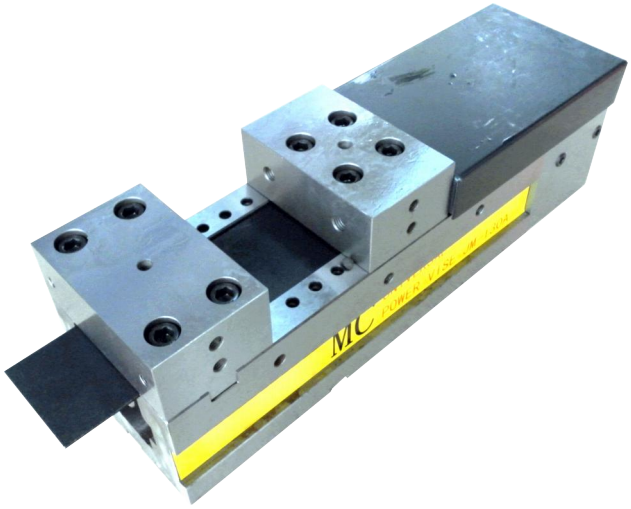
机械厂牌、规格 Machine brand & specification	机器规格 Machine specification	品牌 Brand _____ 型号 Model_____
	机床控制器 Machine system or controller	□ FANUC □ Mitsubishi □ Siemens □ HEIDENHAIN □ 其他
机床工作台 Dimension of woking table	T槽宽 Width of T-slot	□ 14mm □ 16mm □ 18mm □ 22mm □ 其他 __ mm
	T槽pitch尺寸 T-slot pitch size	□ 80mm □ 100mm □ 125mm □ 150mm □ 其他 __ mm
	工作台T槽槽数 T-slot number of worktabel	□ 3 □ 4 □ 5 □ 6 □ 其它他 other __ 提供工作台尺寸 worktable size
Nc分度盘 Rotary Table	机型代号 Machine model	
	电磁阀 Solenoid valve	□ AC110V □ AC220V □ DC24V
	接线盒位置 Wire box position	□ 侧方 side □ 后方 back □ 上方 top
伺服电机 Serve motor (optional)	FANUC	□ α4i □α8i □α12i □α__ □β__ □ 直轴 Straight axis □ 斜轴 Oblique axis
	Mitsubishi	□ HA-33 □HA-40 □HA-80 □HA-100 □HF-44T □HF-74T □ HF-75T □HF-105S □HF-53T □HF-54S □ HF-103T □HF-104S □HF-203T □HF-204S □ 直轴 Straight axis □斜轴 Oblique axis □其他 Other _____
	Siemens	□ IFK7042 □IFK7060 □IFK7083 □其他 Other _____
	其他 0ther	□ _____ (请提供马达外型尺寸图之资料) (Please supply motor drawing)
尾座圆盘尾座 Tailstock (Optional)	顶针可换式 Dear center can be instead	
	手动尾座 Manual tailstock	
其他附件 Other accessories (Optional)	夹头型式 Collet type	强力型手动夹头：□SC-4 □SC-5 □SC-6 □SC-7 □SC-8 □SK-9 Powerful manual chuck: 三爪中实油压夹头：□V-206 □V-208 □V-210 □V-212 Solid 3 Jaw Hydraulic Chuck: 三爪中空油压夹头：□N-206 □N-208 □N-210 □N-212 Hollow hydraulic 3 jaw chuck: □其他 Other_____ (请提供外型尺寸图) (Please supply the drawing)
	回转缸 Cylinder	中实回转油压缸：□MH80 □MH100 □MH125 □MH150 Solid hydraulic cylinder 中空回转油压缸：□M0928 □M1036 □M1236 □M1246 Hollow hydraulic cylinder □其他 Other _____ (请提供外型尺寸图) (Please supply the drawing)
	油压单元 Hydraulic Unit	□单回路油压单元 Single □双回路油压单元 Double □其他Other_____
	气油压转换单元 Pneumatic/hydraulic transfer unit	□ABR-35 □其他 Other _____
数量及备注 Quantity or marks	驱动器规格： Drive specification:	
	用户名： User:	联系人及手机： Contact:
	用户地址： Address	电话： Telephone:
	备注： Marks:	传真： Fax:
	其他要求： Other request:	

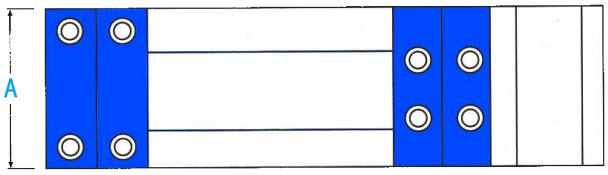
JM.. 油压虎钳

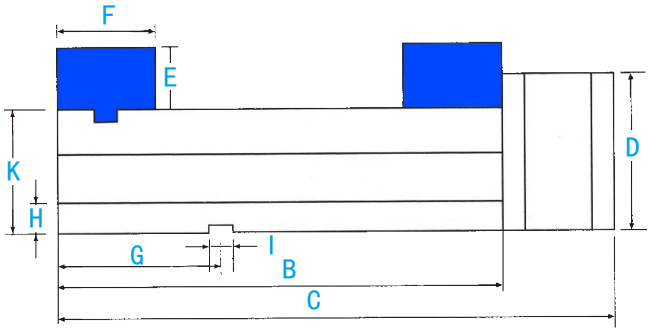
Universal Oil Vise

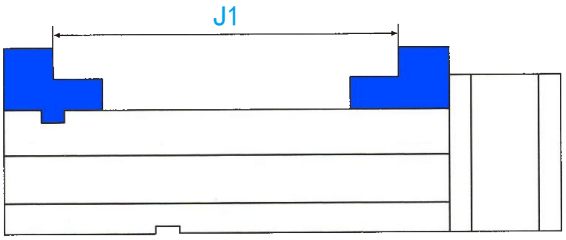
是铣床、钻床的随机附件，将其固定在机床工作台上，用来夹持工件进行切削加工。实现快速夹紧与快速松开，且能保证夹紧力大小。

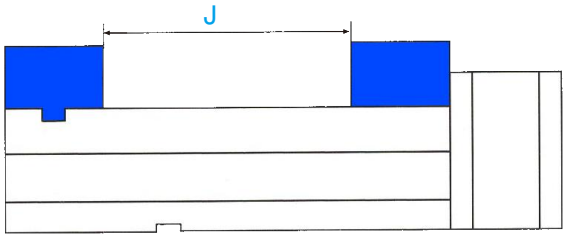
It is a random accessory of milling machine and drilling machine, which is fixed on the worktable of the machine to clamp the workpiece for cutting. Rapid clamping and quick release are achieved, and the clamping force can be ensured.









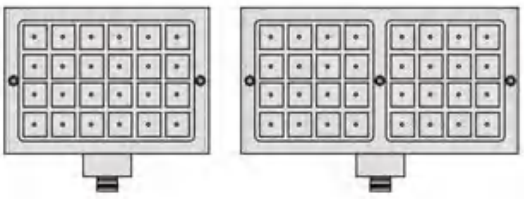


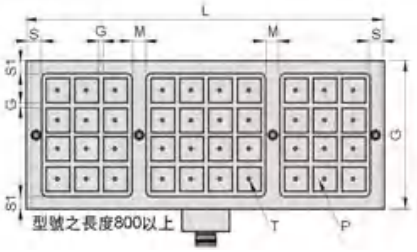
>> Dimensions（mm）

Dimensions 尺寸 / 型号 Type	订购编码 Order Number	A	B	C	D	E	F	G	H	I	J	J1	K	订购编码 Max. Pressure kgf/cm²(Mpa)	重量 Weight (kg)	单价 Price (RMB)
JM-100A	709900	102	273	365	100	45	68	112	14	14	137	205	85	35 (3.4)	-	10600
JM-130A	709902	130	365	457	128	50	80	135	18	18	205	285	100	40 (3.9)	-	12600
JM-160A	709904	160	455	550	158	55	86	145	18	18	283	369	110	40 (3.9)	-	15000

电控永磁吸盘
ELECTRICITY CONTROLS PERMANENT MAGNETIC CHUCK



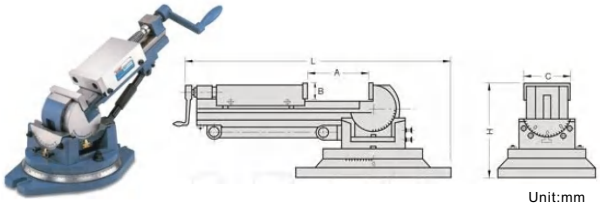




Unit:mm/kg

Order No.	Model	尺寸 W	L	S	S1	M	T	高度	磁距G	磁极P	磁极数	电压	电流AMP	磁盘净重	控制器净重	Price
5568-2540	EPM2540W	240	430			--					18		18	42		30000
5568-2560	EPM2560W	240	590			30					24		24	63		36225
5568-2580	EPM2580W	240	750			30					30		30	84		45900
5568-2590	EPM2590W	240	870			30					36		36	94		50025
5568-25100	EPM25100W	240	990			30					42		40	105		56100
5568-3030	EPM3030W	300	310			--					16		16	38		27750
5568-3040	EPM3040W	300	430			--					24		24	51	10	35250
5568-3060	EPM3060W	300	590			30					32		28	76		44925
5568-3080	EPM3080W	300	750			30					40		32	102		58200
5568-3090	EPM3090W	300	870			30					48		40	115		62250
5568-30100	EPM30100W	300	990	30	25	30	M8	70	10	50 × 50	56	AC 220V	40	127		70950
5568-4040	EPM4040W	420	430			--					36		18	68		48000
5568-4050	EPM4050W	420	480			--					42		26	84		54075
5568-4060	EPM4060W	420	590			30					48		24	102		61725
5568-4080	EPM4080W	420	750			30					60		30	135		80250
5568-4090	EPM4090W	420	870			30					72		36	152		90000
5568-40100	EPM40100W	420	990			30					84		40	168		102750
5568-5060	EPM5060W	480	590			30					56		28	126		69375
5568-5080	EPM5080W	480	750			30					70		35	168		94500
5568-5090	EPM5090W	480	870			30					84		40	189		102000
5568-50100	EPM50100W	480	990			30					98		50	210	15	116250
5568-6060	EPM6060W	600	590			30					72		36	152		89250
5568-6080	EPM6080W	600	750			30					90		40	203		116250
5568-6090	EPM6090W	600	870			30					108		45	227		127500
5568-60100	EPM60100W	600	990			30					126		50	252		150000
5568-8080	EPM8080W	750	780			30					120		45	268		145500

可倾斜虎钳 UNIVERSAL 3-WAY ANGLE VISE

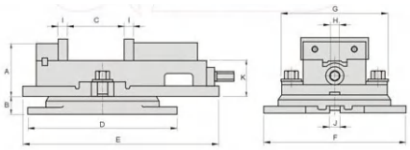


Unit:mm

Order No.	Model	A	B	C	H	L	Vertical Height	N.W. (Kg)	Price
5750-03	VW3	90	30	80	150	396	386	17	4175
5750-04	VW4	105	38	106	172	460	470	33	4885
5750-05	VW5	140	40	132	205	625	590	45	6815

角固式虎钳 PRECISION ANGLE LOCK MACHINE VISE



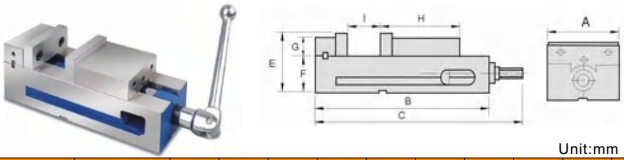


Unit:mm

Order No.	Model	N.W. (Kg)
5760-40	LV40	20
5760-50	LV50	29
5760-60	LV60	41
5760-80	LV80	800
5760-120	LV120	125

Model	A	B	C	D	E	F	G	H	I	J	K	Price
LV40	87 3 27/64	30 1 15/16	107 4	242 9 1/2	318 12 33/64	230 9 1/16	172 63/4	14 9/16	15 19/32	16 5/8	58 2 9/32	2890
LV50	98 3 55/64	32 1 1/4	110 4 1/4	280 11	355 14	256 10 1/16	210 81/4	15 19/32	15 19/32	16 5/8	66 2 19/32	3010
LV60	110 4 1/4	40 1 1/2	138 5 1/2	336 13 1/4	405 15 15/16	300 11 3/4	238 93/8	19 3/4	18 3/4	18 3/4	72 2 54/64	3795
LV80	136 5 27/64	55 2 3/16	198 7 3/4	422 16 5/8	555 21 3/4	380 15	305 12	19 3/4	24 15/16	18 3/4	84 3 5/16	5620
LV120	219 8 5/8	- -	320 12 5/8	- -	738 29 1/16	- -	408 161/16	19 3/4	24 15/16	- -	102 4	18545

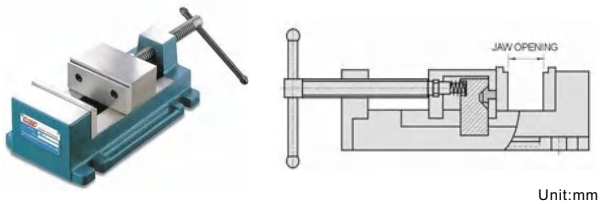
角固式光面直角虎钳
LOCK-TIGHT PRECISION MACHINE VISE



Unit:mm

Order No.	Model	A	B	C	E	F	G	H	I	N.W. (Kg)	Price
5765-40	LG40	100	220	320	133	65	38	115	110	13kg	3105
5765-50	LG50	125	240	360	146	70	38	132	130	22kg	3280
5765-60	LG60	150	290	430	161	72	48	170	150	37kg	3450
5765-80	LG80	200	370	600	193	85	58	190	210	65kg	6730

角固式虎钳PRECISION ANGLE LOCK MACHINE VISE

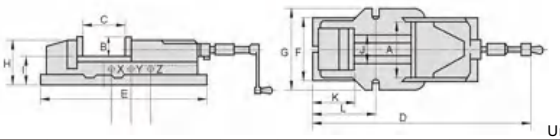


Unit:mm

Order No.	Model	JAW PLATE HEIGHT	JAW PLATE HEIGHT	JAW OPENING	N.W. (Kg)	Price
5766-100	HDV-100	43	100	90	6.6kg	1615
5766-130	HDV-130	43	130	90	8.2kg	2280

平面油压虎钳 HYDRAULIC MACHINE VISE



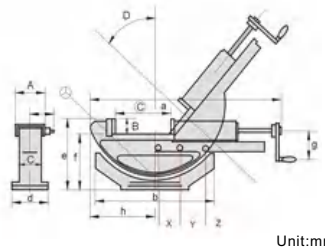


Unit:mm

Order No.	Model	A	B	C	D	E	F	G	H	I	J	K	L	Clamping Force	N.W.(Kg) Body	N.W.(Kg) Swivel Base	Price
5770-100	HVA100	100	36	170	525	430	130	160	94	60	78	100	155	2500	16	6	4600
5770-125	HVA125	125	46	220	670	540	165	185	118	72	97	117	185	3500	33	7	5960
5770-150	HVA150	150	51	300	800	620	200	240	133	82	116	125	247	4500	54	16	5160
5770-200	HVA200	200	62	300	900	700	225	280	160	100	160	150	265	8500	90	20	9810

双向油压虎钳 TILTING HYDRAULIC MACHINE VISE

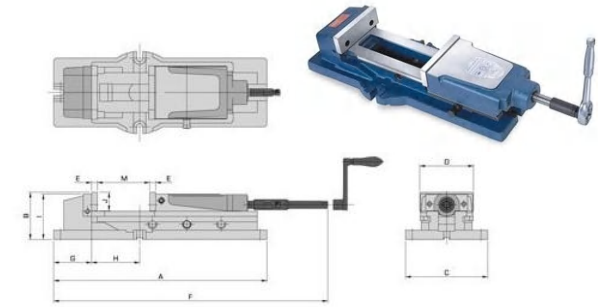




Unit:mm

Order No.	Model	A	B	C	D	a	b	c	d	e	f	g	h	N.W.(Kg) Body	N.W.(Kg) Swivel Base	Price
5775-100	HVW100	100	36	170	50°	505	325	65	160	177	141	80	170	23	4	8565
5775-150	HVW150	150	51	300	50°	775	410	95	240	237	186	100	200	60	10	10420

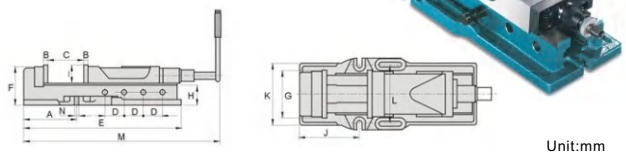
倍力内藏式增压虎钳 MECHANICAL POWER MACHINE VISE



Unit:mm

Order No.	Model	A	B	C	D	E	F	G	H	I	J	M	N.W. (Kg)	Price
5780-50	HMP50	538	118	185	130	15	670	105	82	117	46	220	38kg	8540
5780-60	HMP60	620	133	240	154	17	800	110	140	132	54	300	58kg	9015
5780-80	HMP80	700	162	280	206	21	900	135	118	160	62	300	105kg	16130

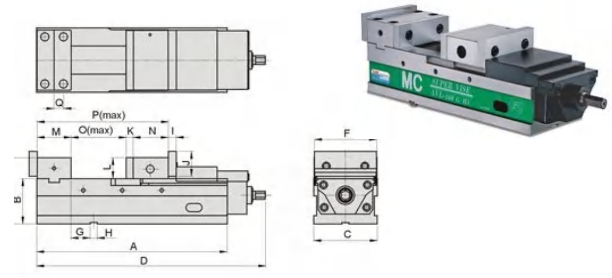
高级倍力外藏式增压虎钳
SUPER OPEN QUICK ACTION VISE



Unit:mm

Order No.	Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	N.W. (Kg)	Price
5782	HMP60A	200	18	300	77	610	139	158	82	63	200	240	190	915	18	58kg	10265

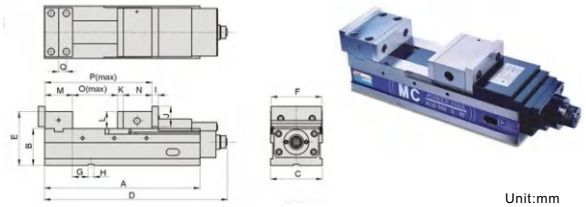
向量式精密光面直角虎钳 PRECISION SUPER VISE



HVL100、125、160 is horizontal& vertical 2 way vise. Unit:mm

Order No.	Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	N.W. (Kg)	Price
5785-40	HVL100	324	85	104	437	130	102	32	18	17	55	15	45	73	86.5	140	314.5	20	27kg	7780
5785-50	HVL125	390	100	127	480	153	124.7	57	18	20	63	15	53	78	87.5	201	381.5	22.5	43kg	9965
5785-60	HVL160	485	115	161	625	168	159.2	49	18	20	63	18	53	86	80	295	479	25	71kg	12810

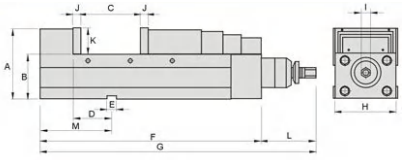
倍力增压式精密光面直角虎钳
MECHANICAL POWER MACHINE VISE



Unit:mm

Order No.	Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	N.W. (Kg)	Price
5786-40	HVQ100	324	85	104	428	130	102	32	18	17	55	15	45	73	86.5	140	314.5	20	30kg	11385
5786-50	HVQ125	390	100	127	495	153	124.7	57	18	20	63	15	53	78	87.5	201	381.5	22.5	46kg	12810
5786-60	HVQ160	485	115	161	605	168	159.2	49	18	20	63	18	53	86	80	295	479	25	71kg	15940
5786-60L	HVQ160L	515	115	161	635	168	159.2	67	18	20	63	18	53	86	80	330	514	25	76kg	20400
5786-80	HVQ200	535	120	202	655	178	199.5	66	18	20	73	18	58	101	95	320	534	31	100kg	17080
5786-80L	HVQ200L	585	120	202	713	178	200	84	18	20	73	18	58	101	95	367.5	581.5	31	108kg	20880

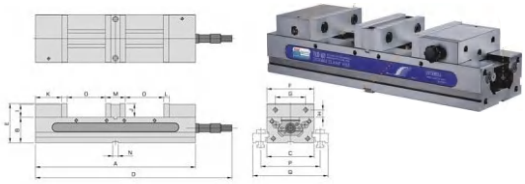
多功能CNC角固式精密光面直角虎钳
MULTI-POWER CNC PRECISION FIXED ANGLE VISE



SPECIFICATIONS(Material.FCD 60.Ductile Iron.Hardness HRC50° Unit:mm

Order No.	Model	A	B	C	C1	C2	C3	D	E	F	G	H	I	J	K	L	M	N.W. (Kg)	Price
5788-130	HPAC130	147	95±0.01	0-190	70-260	115-305	185-375	80±0.02	18	475	583	131	19	15	55	120	150	47	13715
5788-160	HPAC160	160	105±0.01	0-250	85-325	140-375	220-460	80±0.02	18	560	670	161	19	15	58	120	165	65	16390
5788-200	HPAC200	170	110±0.01	0-290	90-380	155-440	240-530	100±0.02	18	635	743	201	19	18	63	120	197	95	21565

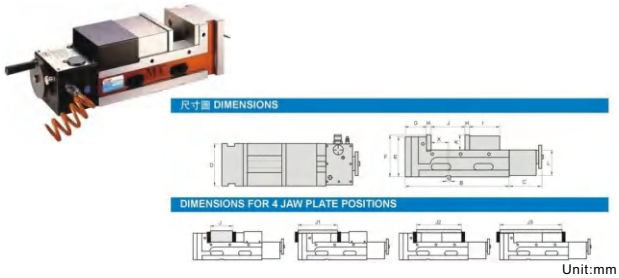
双向向量式虎钳 Two-dimensional vector vice



Unit:mm

Order No.	Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	N.W. (Kg)	Price
5792-40	TLD40	405	63.5	104	459	101.5	102	63.5	17.5	33	38	69	15	55	18	90	143	195	20kg	11385
5792-60	TLD60	520	82.55	154	536	127.05	152	98.4	23.8	41.5	44.5	86.5	15	66	18	125	193	245	52kg	13285

MC增压器型超高压快速虎钳
MC PRECISION SUPER HI-PRESSURE RAPID VISCE

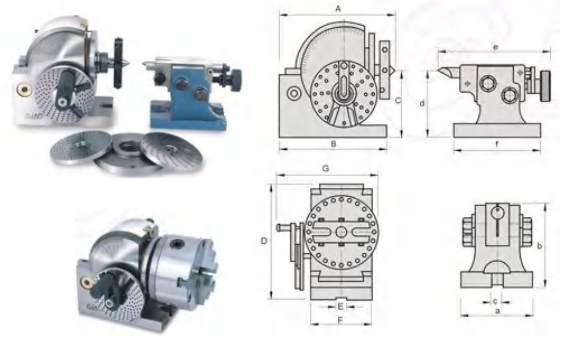


Unit:mm

Order No.	Model	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L	M	X	夹持力 Gripping	N.W. (Kg)	Price
5796-01	TPV5'150	520	380	140	130	157	160	86	15	110	0-150	95-250	110-275	200-380	55	105	18	45	6000	45	15830
5796-02	TPV6'160	540	400	140	160	160	163	86	15	120	0-160	95-280	120-295	210-400	55	105	18	45	6000	47	17680
5796-03	TPV6'250	630	490	140	160	160	163	86	15	120	0-250	95-350	120-395	210-490	55	105	18	45	6000	53	18720
5796-04	TPV7'200	600	460	140	180	170	173	90	18	130	0-200	100-300	130-350	220-460	63	110	18	72	9000	65	19750
5796-05	TPV8'200	610	470	140	200	170	173	90	18	140	0-200	100-310	140-360	230-470	63	110	18	72	9000	70	21735
5796-06	TPV8'300	710	570	140	200	170	173	90	18	140	0-300	100-410	140-460	230-570	63	110	18	72	9000	79	22900

万能分度头

SEMI-UNIVERSAL CENTER (DIVIDING HEAD)



SEMI-UNIVERSAL INDEX CENTER B & S TYPE N0.0 , NO.1(HEAD-STOCK) Unit:mm

Order No.	Model	A	B	C	D	E	F	G	N.W. (Kg)	Price
5810	BS0	189 7/16	160 6 19/54	100 3 15/16	173 6 13/16	16 5/8	91 3 37/64	140 5 33/64	22	7420
5812	BS1	293 11 11/32	210 8 17/64	128 5 3/64	220 5 3/64	16 5/8	114 4 31/64	156 6 9/64	36	9750

SEMI-UNIVERSAL INDEX CENTER B & S TYPE N0.0 , NO.1(TAIL-STOCK) Unit:mm

Model	a	b	c	d	e	f	Taper of Center	Diameter of Spindle hole
BS0	90 3 35/54	105 4 9/64	16 5/8	100 3 15/16	166 6 34/64	127 5	B&S No.7	18
BS1	108 4 1/4	134 5 9/32	16 5/8	128 5 29/32	184 7 1/4	150 5 29/32	B&S No.9	20

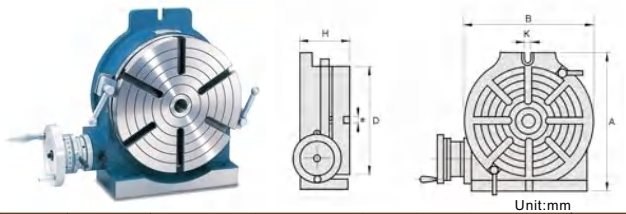
STANDARD ACCESSORIES
Dividing plate A,B,C.
Numbers of holes of dividing plate(worm gear reduction ratio 1:40)

Unit:mm

Numbers of holes	PlateA	15	16	17	18	19	20
	PlateB	21	23	27	29	31	33
	PlateC	37	39	41	43	47	49

横立两用分度盘

HORIZONTAL AND VERTICAL ROTARY TABLE

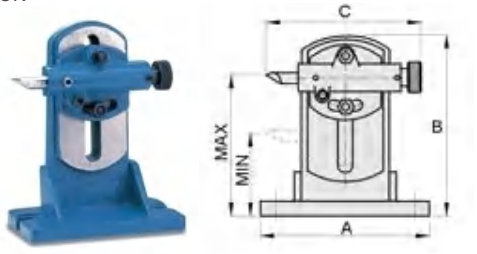


Unit:mm

Order No.	Model	Table		Base Dimension		Bolt Slots	Center sleeve	Worm Gear Ratio	N.W. (Kg)	Price
		D	H	A	B	K				
5820-15	HV150	150	92	220	160	18	MT-2	90 1	12.5	3880
5820-20	HV200	200	120	310	225	18	MT-3		31.0	5450
5820-25	HV250	250	120	320	280	18	MT-3		48.5	6790
5820-30	HV300	300	140	410	325	18	MT-4		77.0	8660
5820-35	HV350	350	140	460	380	18	MT-4		98	11095
5820-40	HV400	400	140	510	435	18	MT-5		130	16045

尾座

TAIL STOCK

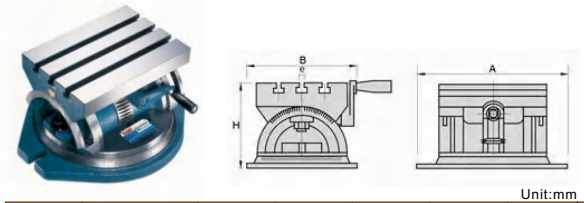


Unit:mm

Order No.	Model	Suitable for	A	B	C	Center Height		N.W. (Kg)	Price
						Max.	Min.		
5821-01	TS1	HV-200/HV-250	230	247	210	190	110	13	1440
5821-02	TS2	HV-300	230	280	210	220	140	15	1520
5821-03	TS3	HV-350/HV-400	230	330	210	264	184	17	1900

万能可调倾斜式角度盘

ANGLE PLATE+CONNECTING PLATE+SWIVELBASE

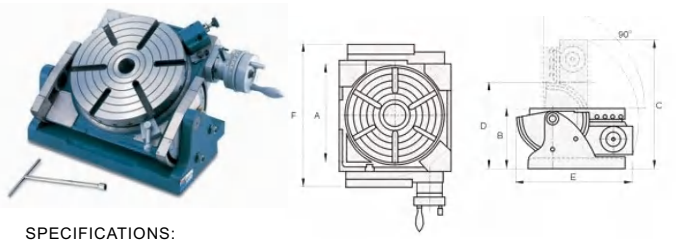


Unit:mm

Order No.	Model	A	B	H	T-SLOT e	N.W. (Kg)	Price
5865-01	HAP180S	265	220	135	12	12	5350
5865-02	HAP250S	350	305	185	12	40	8025
5865-03	HAP380S	490	436	240	16	100	12075

万能倾斜分度盘

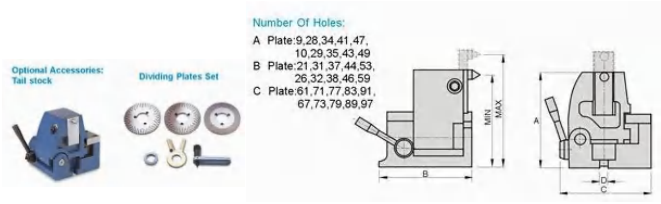
UNIVERSAL TILTING ROTARY TABLE



SPECIFICATIONS:

Unit:mm

Order No.	Model	Table Diameter A	Table Height Horizontal(B)	Table Height Vertical(C)	Center Height Vertical(D)	E	F	Gear Ratio	Center Hole	Direct Indexing	N.W. (Kg)
5855	HUT300	φ300mm	185mm	405mm	228mm	336	444	90:1	MT5	24-div	93



Unit:mm

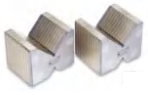
Order No.	Model	A	B	C	D	Center Height		N.W. (Kg)	Price
						Max	Min		
5855	HUT300	200	196	190	16	230	113	23	27420

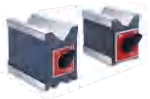
磨床磁盘/工具万力

Grinding machine disk / tool Wanli

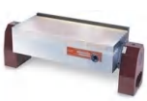
PFA	PFB	PFC	PFD	PGA	PGAS	PGAM	WD165
N21	N21	N21	N21	N21	N21	N21	N21
							
砂轮修整器	砂轮修整器	砂轮修整器	砂轮修整器	砂轮修整器	砂轮修整器	砂轮修整器	砂轮修整器
双向冲子成型器	单向冲子成型器	三爪冲子成型器	ER筒夹冲子成型器	冲子研磨器	迷你冲子研磨器	电动冲子研磨器	立式砂轮修整器
磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件

KT50	DF60	AP50	DT100	DT100M	F250	F350	SB50
N21	N22	N22	N22	N22	N22	N22	N22
							
砂轮修整器	砂轮修整器	砂轮修整器	砂轮修整器	砂轮修整器	精密夹治具	精密夹治具	精密夹治具
卧式砂轮修整器	砂轮厚度修整器	砂轮斜度修整器	钻石砂轮修整器	电动钻石砂轮修整	磨床用法兰夹头	磨床用法兰夹头	磁性正弦规
磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件

S100	AP25/30/46	B型精密V型台	附夹V型台	精密双刀口尺	虎钳平行垫块	导磁块	导磁块
N22	N22	N23	N23	N23	N23	N23	N23
							
精密夹治具	精密夹治具	精密夹治具	精密夹治具	精密夹治具	精密夹治具	精密夹治具	精密夹治具
正弦规	可调式角度正弦规	B型精密V型台	附夹V型台	精密双刀口直角尺	虎钳平行垫块	导磁块	导磁块
磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件

磁性V型台	磁性V型台	方型磁性测定台	脱磁器	脱磁器	高速钢块规	钨钢块规	高速钢针规
N23	N23	N23	N23	N24	N24	N24	N24
							
精密夹治具	精密夹治具	精密夹治具	磁性工具	磁性工具	精密夹治具	精密夹治具	精密夹治具
磁性V型台	磁性V型台	方型磁性测定台	脱磁器	脱磁器	高速钢块规	钨钢块规	高速钢针规
磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件

CSPM	SPS	CSPS	MSP	CMSP	MSP..SA	MWS	MTH
N25	N25	N25	N25	N25	N25	N25	N25
							
磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台
复合式粗目正弦磁台	简式细目正弦磁台	复合式细目正弦磁台	一体超薄正弦磁台	复合式超薄正弦磁台	微调式正弦磁台	垂直型永磁吸盘	超硬合金用永磁吸盘
磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件

MTS	AY	A	V	W	MCD	U	UW
N26	N26	N26	N26	N26	N26	N27	N27
							
磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台	磁盘磁台
超薄型永磁吸盘	粗目永磁吸盘	强力永磁吸盘	细目永磁吸盘	强力永磁细目吸盘	圆形细目永磁吸盘	回转型永磁夹盘	微距回转型永磁夹盘
磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件

VI	VL	VSU	VSB	SV	A	AS	VV
N27	N27	N27	N27	N27	N27	N27	N28
							
精密工具万力	精密工具万力	精密工具万力	精密工具万力	精密工具万力	精密工具万力	精密工具万力	精密工具万力
一寸不锈钢工具万力	不锈钢工具万力	不锈钢手转工具万力	VSB工具万力	高级工具万力	高级万力	超精密工具万力	超精密工具万力
磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件

L	SV	CHM	VB	VS	VSD
N28	N28	N28	N28	N28	N28
					
精密工具万力	精密工具万力	精密工具万力	精密工具万力	精密工具万力	精密工具万力
精密级侧向正弦万力	手转正弦万力	万向精密虎钳	VB工具万力	成型工具万力	手转工具万力
磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件

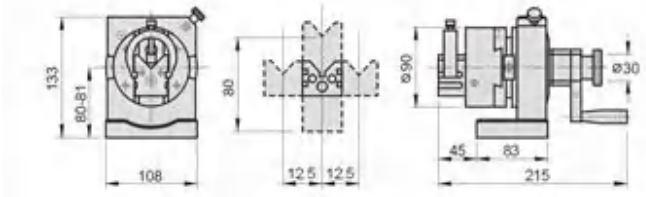
双向冲子成型器 PUNCH FORMER

PFA



¥9200

主要参数
中心高…… 80~81毫米
V型槽夹持直径…… 4~30毫米
V型块调整量…… 25毫米
滑动盘横向移动量……±12.5毫米
分度盘齿数、精度……24、15"±5"
修整砂轮允许直径……200毫米
修整砂轮圆弧允许半径
凸弧…… R48 毫米
凹弧…… R100毫米



单向冲子成型器 PUNCH FORMERPFB

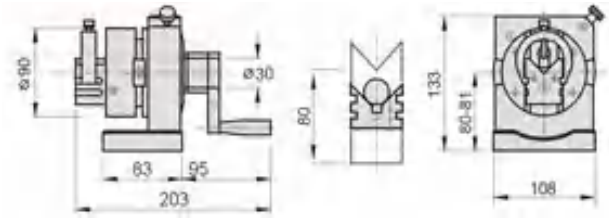
PFB

¥6900



5115-01
PFB1



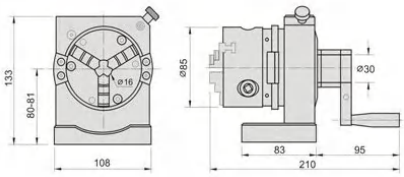


三爪冲子成型器 3-JAWS PUNCH FORMER

PFC

¥8280



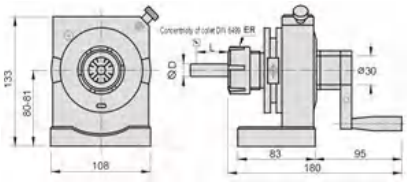


筒夹式ER冲子成型器 ER COLLET PUNCH FORMER

PFD

¥9200





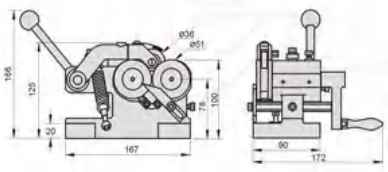
Order NO.	Model	Collet Size	Price
5125-16	PFD	1、2、3、4、6、8	7765
5125-32		4、6、8、10、12、16、20	7765
5125-40		6、8、10、12、16、20、25	8595

冲子研磨机 PUNCH GRINDER

PGA

¥2050



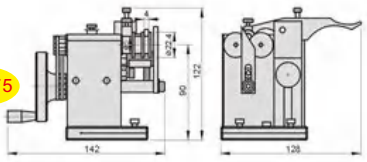


冲子研磨机 PUNCH GRINDER

PGAS

¥2875



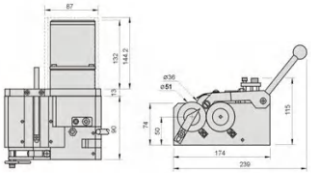


电动冲子研磨机 MOTOR PUNCH GRINDER

PGAM

¥6615





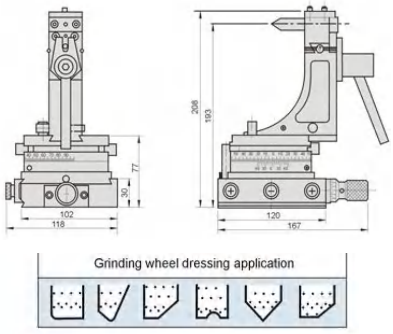
Order NO.	Model	Volts
5125-16	PFD	1、2、3、4、6、8
5125-32		4、6、8、10、12、16、20
5125-40		6、8、10、12、16、20、25

万能砂轮修整器 UNIVERSAL WHEEL DRESSER

WDI65

¥4890



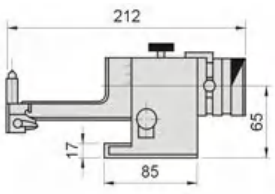


透视万能砂轮修理器 VISUAL RADIUS ANGLE DRESSER

KT50

¥5750

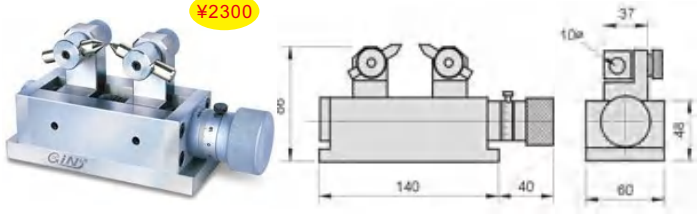




精密砂轮厚度修理器 PRECISION DUPLEX DRESSER

DF60

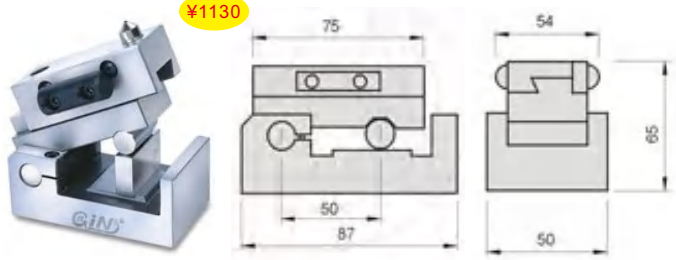
¥2300



砂轮角度成型器 ANGLE SINE DRESSER

AP50

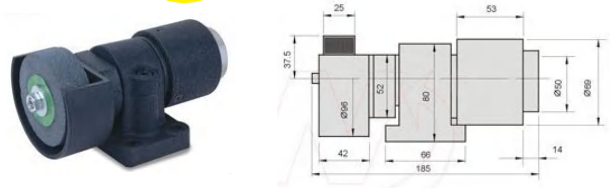
¥1130



钻石砂轮修正器 DIAMOND CBN FLAT WHEEL TRUER

DT100

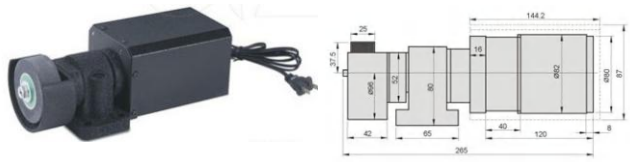
¥2300



电动钻石砂轮修正器

MOTORISED DIAMOND CBN FLAT WHEEL TRUER

DTM100

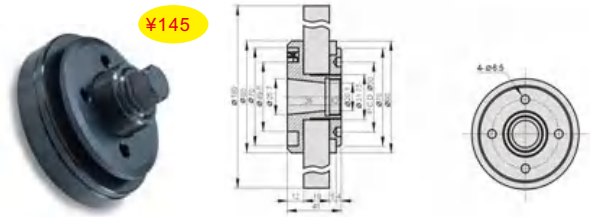


Order NO.	Model	Volts	Price
5255-110	DTM100	110V 1Phase	3740
5255-220	DTM100	220V 1Phase	3740

磨床用砂轮法兰 FLANGE

F250 F250法兰用于建德磨床主轴使用

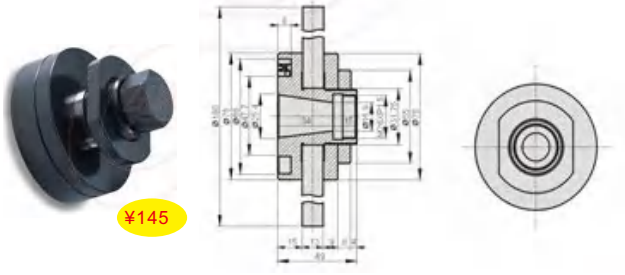
¥145



磨床用砂轮法兰 FLANGE

F350 F350法兰用于大同磨床系列机床主轴使用

¥145

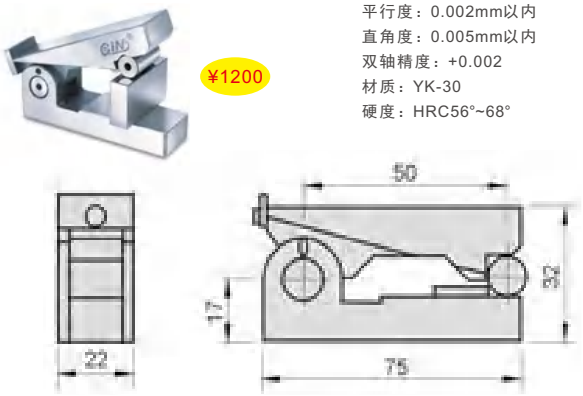


磁性正弦规 MAGNETIC SINE BAR

SB50

¥1200

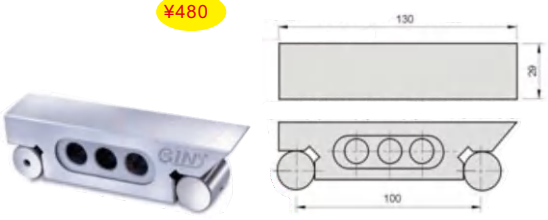
精度 材质
平行度：0.002mm以内
直角度：0.005mm以内
双轴精度：+0.002
材质：YK-30
硬度：HRC56°~68°



正弦规 SINE BAR

S100

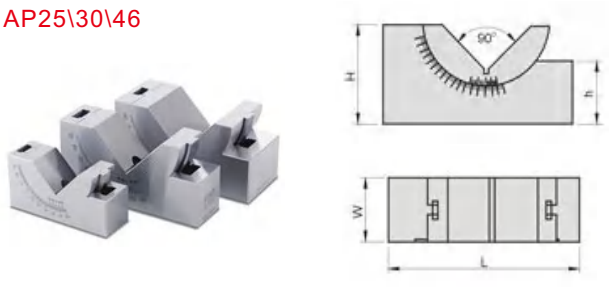
¥480



可调式角度垫规磁性正弦规

ADJUSTABLE ANGLE PLATES

AP25\30\46



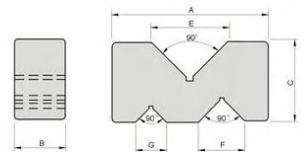
Unit:mm

Order No.	Model	L	W	H	h	N.W.(Kg)	Price
5420-25	AP25	75	25	36	25	0.5	780
5420-30	AP30	102	30	49	30	1.0	900
5420-46	AP46	102	46	49	30	1.5	1020

B型精密V型台 VEE BLOCKS

A2-6





Unit:mm

Order No.	Model	A	B	C	E	F	G	N.W.	Price
5425-02	A2	50	19	24	24	17	13	0.26kg	420
5425-03	A3	75	24	35	37	24	16	0.8kg	540
5425-04	A4	100	33	52	50	30	20	2.5kg	780
5425-05	A5	125	44	69	63	37	26	5kg	1255
5425-06	A6	150	50	80	75	45	30	7.8kg	1855

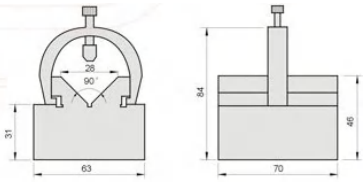
附夹V型台 A PAIR OF V BLOCKS

PV100

¥940

夹持范围：φ2-φ20

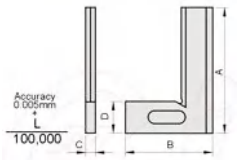




精密双刀口直角尺 HARDENED STEEL SQUARES

H304、306、308、310、312





Unit:mm

Order No.	Model	A	B	C	D	N.W.	Price
5440-04	H304	100	70	5	22	0.2kg	325
5440-06	H306	150	100	7	30	0.4kg	440
5440-08	H308	200	130	8	33	0.6kg	525
5440-10	H310	250	165	10	38	1.3kg	735
5440-12	H312	300	200	10	40	1.6kg	855

精密虎钳平行垫规 PRECISION PARALLELS SET

P85

¥820





Unit:mm

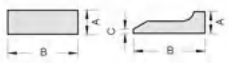
Model	W×H×L×PCS
P85	8.5×14×150×2
	8.5×16×150×2
	8.5×20×150×2
	8.5×24×150×2
	8.5×30×150×2
	8.5×32×150×2
	8.5×36×150×2
	8.5×40×150×2
	8.5×44×150×2

精密虎钳平行垫规 PRECISION PARALLELS SET

P100

¥1170





Unit:mm

Body Size
A×B×L×PCS
5×16×100×2
6×18×100×2
8×24×100×2
10×30×100×2
12×36×150×2
14×48×150×2
18×60×150×2
22×362×150×2

Unit:mm

Clamp Size
A×B×C×L×PCS
15×31×2.5×200×2

精密虎钳平行垫规 PRECISION PARALLELS SET

P150

¥1400



Unit:mm

W×HL×PCS
10×14×150×2
10×16×150×2
10×18×150×2
10×20×150×2
10×22×150×2
10×24×150×2
10×26×150×2

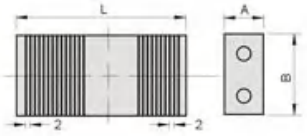
Unit:mm

W×H×L×PCS
10 ×28×150×2
10×30×150×2
10×32×150×2
10×35×150×2
10×40×150×2
10X45×150×2
10×50×150×2

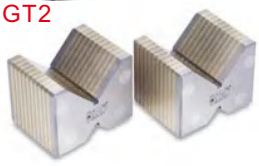
导磁块 MAGNETIC INDUCTION BLOCK

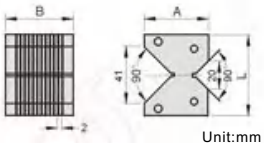
GT1





GT2





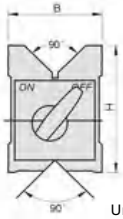
Unit:mm

Order No.	Model	A×B×L×PCS	N.W.	Price
5465-10	GT1	25×50×100-2PCS	2.2kg	680
5465-20	GT2	46×49×58-2PCS	2kg	765

磁性V型台 MAGNETIC V-BLOCK

GVH2 GVH1



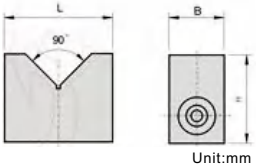


Unit:mm

Order No.	Model	Holding Power		Dimension			N.W.	Price
		Round	Surface	B	H	Length		
5470-10	GVH1	55kgf	70kgf	56	72	80	2kg	2015
5470-20	GVH2	90kgf	110kgf	76	100	115	5.5kg	3165

磁性V型台 MAGNETIC V-BLOCK





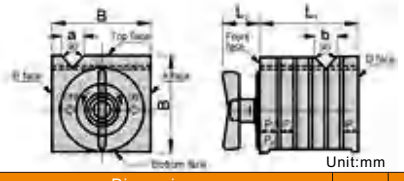
Unit:mm

Order No.	Model	Holding Power	Applicable Diameter	Dimension			N.W.	Price
				B	L	H		
5475-30	GVH30	15kgf	φ50	40	70	50	2kg	3400
5475-40	GVH40	20kgf	φ80	50	100	80	5kg	6355

方型磁性测定台 MAGNETIC SQUARE & V-BLOCK

BA1、BA2





Unit:mm

Order No.	Model	Dimension								N.W.	Price
		B	L1	H	L2	P1	P2	P3	a1b		
5480-10	BA1	100±0. 8	100±0. 8	100±0. 8	43	17	4	12	26±0. 5	6.5kg	4040
5480-20	BA2	150±1. 2	150±1. 2	150±1. 2	56	24.5	5	19	32±0. 8	22kg	7555

脱磁器 HANDY TYPE DEMAGNETTIZER

HD123





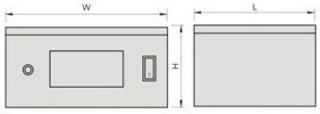
Unit:mm

Order No.	Model	POWER SOURCE	CAPACITY	DUTY CYCLE	L	W	H	N.W.	Price
5482-01-110	HD123	AC 110V	110VA	90%	128	83	83	1.8kg	1095
5482-01-220	HD123	AC 220V	110VA	90%	128	83	83	1.8kg	1095

平面脱磁器 STANDARD TYPE DEMAGNETIZER

HD200





Unit:mm

Order No.	Model	POWER SOURCE	CAPACITY	DUTY CYCLE	L	W	H	N.W.	Price
5482-02-110	HD200	AC 110V	330VA	100%	150	200	100	7.5kg	2285
5482-02-220	HD200	AC 220V	330VA	100%	150	200	100	7.5kg	2285

高速钢块规

STEEL METRIC GAUGE BLOCKS



Unit:mm

Order No.	Model	Total blocks	Class	Nominal dimension(mm)	Steps (mm)	No.of blocks	N.W.	Price
5487-87-0	GB87B$_0$	87	0	1.001-1.009 1.01-1.49 0.5-9.5 10-100	0.001 0.01 0.5 10	9 49 19 10	2.9	3580
5487-87-1	GB87B$_1$	87	1					2895
5487-87-2	GB87B$_2$	87	2					1945
5487-103-0	GB103B$_0$	103	0	1.005 1.01-1.49 0.5-24.5 25-100	-- 0.01 0.5 25	1 49 49 4	3.6	4790
5487-103-1	GB103B$_1$	103	1					3240
5487-103-2	GB103B$_2$	103	2					2245
5487-112-0	GB112B$_0$	112	0	1.0005 1.001-1.009 1.01-1.49 0.5-24.5 25-100	-- 0.001 0.01 0.5 25	1 9 49 49 4	3.7	5310
5487-112-1	GB112B$_1$	112	1					3930
5487-112-2	GB112B$_2$	112	2					2600

钨钢块规

CARBIDE METRIC GAUGE BLOCKS



Unit:mm

Order No.	Model	Total blocks	Class	Nominal dimension(mm)	Steps (mm)	No.of blocks	N.W.	Price
5489-87-0	GB87C$_0$	87	0	1.001-1.009 1.01-1.49 0.5-9.5 10-100	0.001 0.01 0.5 10	9 49 19 10	4.6	12505
5489-87-1	GB87C$_1$	87	1					9800
5489-87-2	GB87C$_2$	87	2					9115
5489-103-0	GB103C$_0$	103	0	1.005 1.01-1.49 0.5-24.5 25-100	-- 0.01 0.5 25	1 49 49 4	5.8	13630
5489-103-1	GB103C$_1$	103	1					10575
5489-103-2	GB103C$_2$	103	2					9800
5489-112-0	GB112C$_0$	112	0	1.0005 1.001-1.009 1.01-1.49 0.5-24.5 25-100	-- 0.001 0.01 0.5 25	1 9 49 49 4	6.1	14440
5489-112-1	GB112C$_1$	112	1					11540
5489-112-2	GB112C$_2$	112	2					10825

高速钢针规

HIGH SPEED STEEL

PIN GAUGE



EACH 0.01mm FOR ONE STEP SIZE

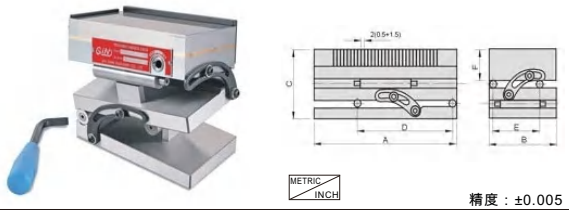
Unit:mm

Order No.	Model	Nominal Dimenson EACH 0.01mm FOR 1Pcs	Total Blocks	Weight(kg)	Price
5491-0510	GB0510E	0.50,051,0.52~1.00	51	1.11	3300
5491-1015	GB1015E	1.00,1.01,1.02~1.50	51	1.13	2970
5491-1520	GB1520E	1.50,1.51,1.52~2.00	51	1.15	2970
5491-2025	GB2025E	2.00,2.01,2.02~2.50	51	1.19	2970
5491-2530	GB2530E	2.50,2.51,2.25~3.00	51	1.23	2970
5491-3035	GB3035E	3.00,3.01,3.02~3.50	51	1.27	2970
5491-3540	GB3540E	3.50,3.51,3.52~4.00	51	1.33	2970
5491-4045	GB4045E	4.00,4.01,4.02~4.50	51	1.39	2970
5491-4550	GB4550E	4.50,4.51,4.52~5.00	51	1.47	2970
5491-5055	GB5055E	5.00,5.01,5.02~5.50	51	1.55	2970
5491-5560	GB5560E	5.50,5.51,5.52~6.00	51	1.63	2970
5491-6065	GB6065E	6.00,6.01,6.02~6.50	51	1.73	2970
5491-6570	GB6570E	6.50,6.51,6.52~7.00	51	1.83	2970
5491-7075	GB7075E	7.00,7.01,7.02~7.50	51	1.95	2970
5491-7580	GB7580E	7.50,7.51,7.52~8.00	51	2.07	2970
5491-8085	GB8085E	8.00,8.01,8.02~8.50	51	2.19	2970
5491-8590	GB8590E	8.50,8.51,8.52~9.00	51	2.33	2970
5491-9095	GB9095E	9.00,9.01,9.02~9.50	51	2.47	2970
5491-95100	GB95100E	9.50,9.51,9.52~10.00	51	2.63	2970

复合式粗目正弦磁台

COMPOUND SINE LATE WITH MAGNETIC CHUCK

CSPM



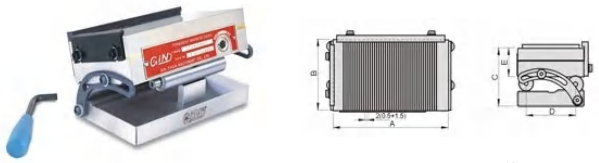
精度：±0.005

Order No.	Model	A	B	C	D	E	F	N.W.	Price
5512-10 5512-15	CSP47M	175 7	100 4	122 5	100 5	75 3	47 1.85	14kg	5855
5512-20 5512-25	CSP66M	150 6	150 6	122 5	100 5	100 5	47 1.85	18kg	6435
5512-22 5512-27	CSP510M	250 10	125 5	122 5	200 8	100 4	47 1.85	24kg	7605
5512-30 5512-35	CSP612M	300 12	150 6	122 5	200 10	100 5	47 1.85	35kg	9365

简式细目正弦磁台

SPS

ECONOMY SINE PLYATE WITH FINE MAGNETIC CHUCK



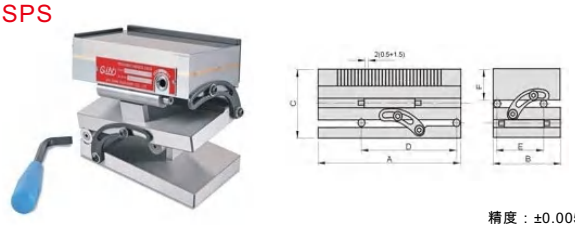
精度：±0.005

Order No.	Model	A	B	C	D	E	N.W.	Price
5515-10 5515-15	SP47S	175 7	100 4	87 3.4	75 3	47 1.85	10.2kg	4975
5515-20 5515-25	SP66S	150 6	150 6	87 3.4	100 5	47 1.85	15kg	5270
5515-22 5515-27	SP510S	250 10	125 5	87 3.4	100 4	47 1.85	19kg	6435
5515-30 5515-35	SP612S	300 12	150 6	87 3.4	100 5	47 1.85	28kg	8780

复合式细目正弦磁台

COMPOUND SINE PLATE WITH FINE MAGNETIC CHUCK

CSPS



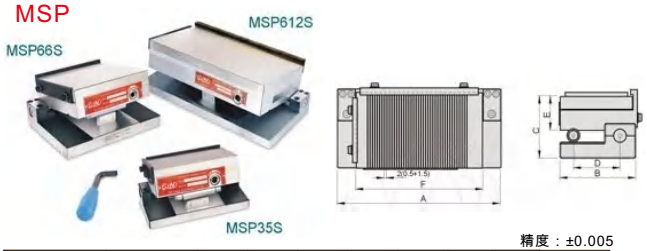
精度：±0.005

Order No.	Model	A	B	C	D	E	F	N.W.	Price
5516-10 5516-15	CSP47S	175 7	100 4	122 5	100 5	75 3	47 1.85	14kg	6435
5516-20 5516-25	CSP66S	150 6	150 6	122 5	100 5	100 5	47 1.85	18kg	7020
5516-22 5516-27	CSP510S	250 10	125 5	122 5	200 8	100 4	47 1.85	24kg	8190
5516-30 5516-35	CSP612S	300 12	150 6	122 5	200 10	100 5	47 1.85	35kg	10530

一体超薄正弦磁台

SINE PLATE WITH FINE MAGNETIC CHUCK

MSP



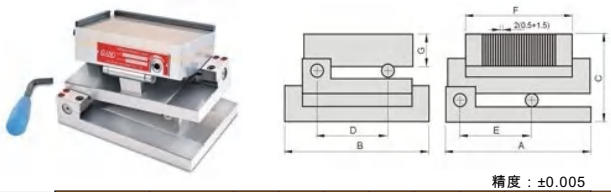
精度：±0.005

Order No.	Model	A	B	C	D	E	F	N.W.	Price
5520-35 5520-351	MSP35S	175 6.8	75 3	74 3	50 2	40 1.58	130 5	6.5kg	5560
5520-47 5520-471	MSP47S	225 9	102 4	87 3.4	75 3	47 1.85	175 7	11.5kg	6435
5520-66 5520-661	MSP66S	200 8	152 6	87 3.4	100 5	47 1.85	150 6	14.8kg	7020
5520-510 5520-5101	MSP510S	300 12	127 5	87 3.4	100 4	47 1.85	250 10	20kg	7900
5520-412 5520-4121	MSP412S	350 14	102 4	87 3.4	75 3	47 1.85	300 12	19kg	9365
5520-612 5520-6121	MSP612S	350 14	152 6	87 3.4	100 5	47 1.85	300 12	28kg	10530

复合式超薄正弦磁台

COMPOUND SINE PLATE WITH FINE MAGNETIC CHUCK

CMSP

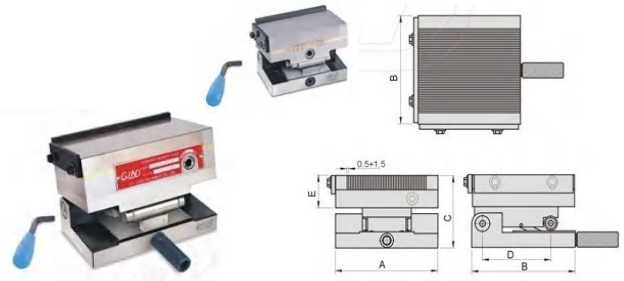


精度：±0.005

METRIC / INCH	Order No.	Model	A	B	C	D	E	F	G	N.W.	Price
	5522-35 5522-351	CMSP35S	175 6.8	105 4.1	105 4.1	50 2	75 3	130 5	40 1.58	9.5kg	7020
	5522-47 5522-471	CMSP47S	225 9	150 6	122 5	75 3	100 5	175 7	47 1.85	16.5kg	9365
	5522-66 5522-661	CMSP66S	200 8	200 8	122 5	100 5	150 5	150 6	47 1.85	21.5kg	10530
	5522-510 5522-5101	CMSP510S	300 12	175 7	122 5	100 4	200 10	250 10	47 1.85	28kg	11700

微调式正弦磁台

FINE ADJUSTMENT SINE PLATE WITH MAGNETIC CHUCK



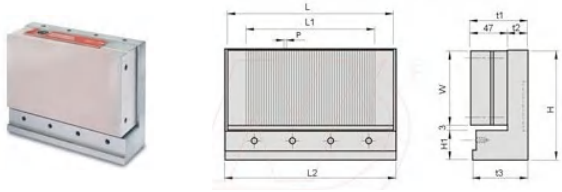
精度：±0.005　　Unit:mm

Order No.	Model	A	B	C	D	E	N.W.	Price
5535-35	MSP35SA	130	75	83	50	37	5.5kg	8190
5535-47	MSP47SA	175	100	92	75	41	11.5kg	9365
5535-66	MSP66SA	150	150	92	100	41	15kg	10530

垂直形永磁吸盘

PERMANENT MAGNETIC CHUCK (VERTICAL TYPE)

MWS



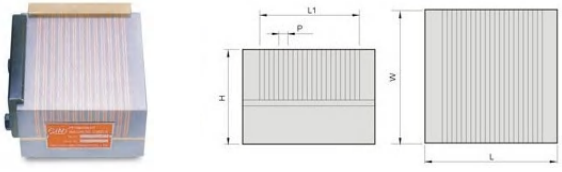
精度：±0.002　　Unit:mm

Order No.	Model	Top plate			Bottom plate		Thicknccs		Height		Pole pitch	N.W.	Price
		W	L	L1	L2	t3	t1	t2	H	H1	P		
5536-307	MW307S	75	175	130	180	65	67	20	111	30	1+1	10kg	7805
5536-407	MW407S	100	175	130	180	65	67	20	136	30	1+1	13kg	10075
5536-510	MW510S	125	250	205	255	65	67	20	161	30	1+1	23kg	13000

超硬合金用永磁吸盘

PERMANENT MAGNETIC CHUCK
(FORHARD ALLOY MATERIAL)

MTH



精度：±0.005　　Unit:mm

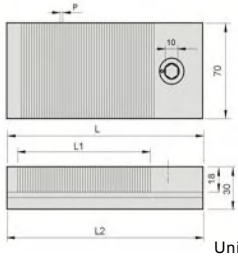
Order No.	Model	Nominal Dimension	Top plate			Pole pitch	Height	N.W.	Price
			W	L	L1	P	H		
5537-404	MT404H	105×105	105	105	69	6 (1+1) + (1+3)	60	5.2kg	10800
5537-407	MT407H	105×180	105	180	145	6 (1+1) + (1+3)	60	9.0kg	19210

超薄形永磁吸盘（不锈钢）

SUPER THIN TYPE PERMANENT MAGNETIC CHUCK

MTS





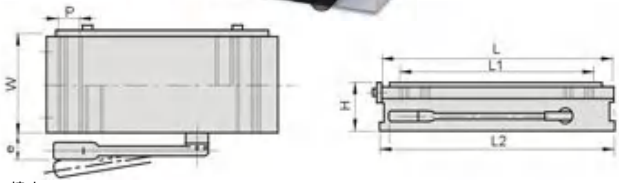
精度：±0.005　　Unit:mm

Order No.	Model	Nominal Dimension	Top plate L	Top plate L1	Pole pitch P	Bottom plate L2	N.W.	Price
5539-305	MT305S	70×130	130	77	1.4(0.4+1)	130	2.2kg	5870
5539-307	MT307S	70×175	175	122	1.4(0.4+1)	175	2.9kg	6955

粗目永磁夹盘　PERMANENT MAGNETIC CHUCK

AY





精度：±0.005　　Unit:mm

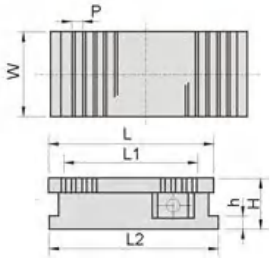
Order No.	Model	Nominal Dimension	W	L	L1	P	L2	e	H	N.W. (Kg)	Price
5540-02	CP-1018AY	100×175	100	175	134	1.6+2 +1.6+6	187	42	52	7	2560
5540-04	CP-1025AY	100×250	100	250	204		262	42		9	3555
5540-06	CP-1030AY	100×300	100	300	260		312	42		11	4260
5540-08	CP-1325AY	125×250	125	250	204		262	40	60	12	4420
5540-10	CP-1530AY	150×300	150	300	260		312	32.5		16	6272
5540-12	CP-1535AY	150×350	150	350	316		362	38.5		19	6930
5540-13	CP-1540AY	150×400	150	400	356		412	38.5		22	7930
5540-14	CP-1545AY	150×450	150	450	414		452	38.5		24	8915
5540-16	CP-2035AY	200×350	200	350	302		362	36.5		25	9175
5540-18	CP-2040AY	200×400	200	400	344		412	36.5		29	10160
5540-20	CP-2045AY	200×450	200	450	400		462	36.5		32	11320
5540-22	CP-2050AY	200×500	200	500	456		512	36.5		36	11960

强力永磁夹盘

POWRFUL ANGULAR PERMANENT MAGNETIC CHUCK

A



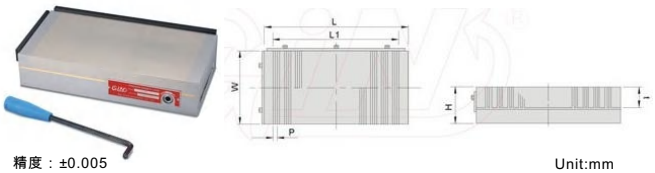


精度：±0.005　　Unit:mm

Order No.	Model	Nominal Dimension	W	L	L1	P	L2	e	H	N.W. (Kg)	Price
5545-02	CP-407A	100×175	100	175	125	1.6+2 +1.6+6	187	13	52	7.3	2695
5545-04	CP-510A	125×250	125	250	200		262			10.4	4665
5545-06	CP-612A	150×300	150	300	246		312		60	15.1	6635
5545-08	CP-614A	150×350	150	350	296		362			17.4	7340
5545-09	CP-616A	150×400	150	400	346		412			18.9	8400
5545-10	CP-618A	150×450	150	450	396		462			20.1	9440
5545-12	CP-816A	200×400	200	400	346		412			26.0	10770
5545-14	CP-818A	200×450	200	450	390		462			30.1	12000
5545-16	CP-820A	200×500	200	500	446		512			35.7	12700
5545-18	CP-1020A	250×500	200	500	446		512			45.6	15575

细目永磁吸盘

MICROPITCH PERMANENT MAGNETIC CHUCK



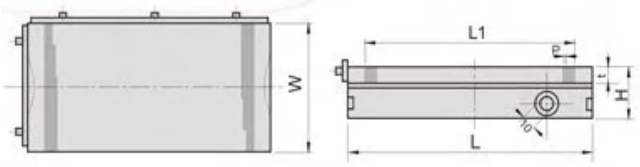
精度：±0.005　　Unit:mm

Order No.	Model	Nominal Dimension	W	L	L1	P	t	H	N.W. (Kg)	Price
5548-02	CP-407V	100×175	100	175	145	0.5+1.5	20	52	8kg	2045
5548-04	CP-606V	150×150	150	150	115		20	52	8kg	2525
5548-06	CP-510V	125×250	125	250	207		20	52	13kg	3190
5548-08	CP-612V	150×300	150	300	257		23	60	21kg	4545
5548-10	CP-614V	150×350	150	350	305		23	60	25kg	5345
5548-11	CP-616V	150×400	150	400	357		23	60	28kg	6130
5548-12	CP-618V	150×450	150	450	405		23	60	32kg	6870
5548-14	CP-816V	200×400	200	400	357		23	60	37kg	8080
5548-16	CP-818V	200×450	200	450	405		23	60	43kg	8980
5548-18	CP-820V	200×500	200	500	457		23	60	53kg	10130

强力永磁细目夹盘

POWERFUL MICROPITCH PERMANENT MAGNETIC CHUCK





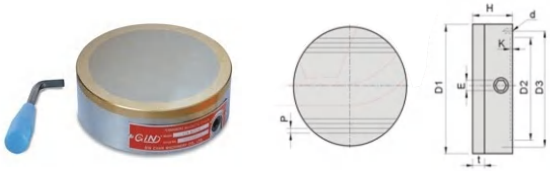
精度：±0.005　　Unit:mm

Order No.	Model	Nominal Dimension	W	L	L1	t	P	H	N.W. (Kg)	Price
5550-02	CP-407W	100×175	100	175	125	18	2 (1+1)	52	7	3415
5550-04	CP-606W	150×150	150	150	110				9	3985
5550-06	CP-510W	125×250	125	250	205				12	4880
5550-08	CP-612W	150×300	150	300	246			58	24	6235
5550-10	CP-614W	150×350	150	350	296				24	7235
5550-12	CP-618W	150×450	150	450	390				31	9210
5550-14	CP-816W	200×400	200	400	349				37	11055
5550-16	CP-818W	200×450	200	450	390				41.5	12190
5550-18	CP-820W	200×500	200	500	446				46	13325

圆形细目精密永磁吸盘

ROUND MICROPTICH PERMANENT MAGNETIC CHUCK

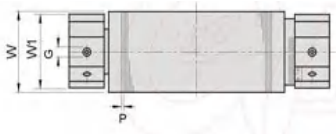
MCD



精度：±0.005　　Unit:mm

Order No.	Model	D1	D2	D3	K	d	P	H	t	E	N.W. (Kg)	Price
5553-080	MCD80	80	50	66	4	M6	0.5+1.5	50	10	8	1.8	2085
5553-100	MCD100	100	60	75	4						2.8	2795
5553-130	MCD130	130	90	115	4	M8					5	3655
5553-150	MCD150	150	110	132	4						7	4930
5553-160	MCD160	160	120	140	4						8	5640
5553-200	MCD200	200	160	180	5			52	10		12.5	8140
5553-250	MCD250	250	200	225	5	M10					19.5	11240
5553-300	MCD300	300	230	260	5						28.5	15555
5553-350	MCD350	350	230	260	5						39	23365
5553-405	MCD405	405	230	260	5						52	26690

回转形永磁夹盘
ROTARY PERMANENT MAGNETIC CHUCK

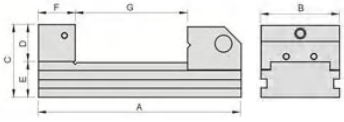



精度：±0.005

Unit:mm

Order No.	Model	Nominal Dimension	Chuck Dimension W	L	L1	H1	Pole Pitch P	Length Rotary Base L2	w1	I1	I2	G	h1	h2	Height H2	N.W. (Kg)	Price
5555-07	CP-407U	100×175	100	175	125	78	4(1+3)	283	100	50	25	16	103	50	145	17.5	6970
5555-10	CP-510U	125×250	125	250	200			368								24.5	7565
5555-12	CP-612U	150×300	150	300	246			418								27.2	9010
5555-14	CP-614U	150×350	150	350	296			468								30.4	11600
5555-16	CP-618U	150×450	150	450	396			568								35.4	15170

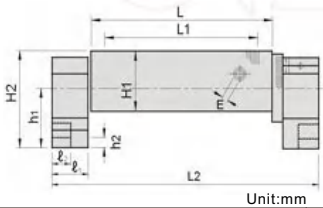
VSB 工具万力　VSB TOOL MAKER VISE
VSB20-40

Unit:mm

Order No.	Model	A	B	C	D	E	F	G	N.W. (Kg)	Price
5655-15	VSB15	105	36	48	20	28	20	0-45	1kg	780
5655-20	VSB20	150	48	53	25	28	25	0-75	2kg	960
5655-25	VSB25	176	63	59	30	29	30	0-95	3.3kg	1140
5655-30	VSB30	190	73	68	35	33	35	0-105	4.3kg	1495
5655-40	VSB40	245	98	90	45	45	45	0-135	10kg	2335

回转形微距形永磁夹盘
ROTARY MICROPITCH PERMANENT MAGNETIC CHUCK
5560

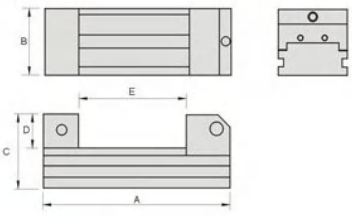



精度：±0.005

Unit:mm

Order No.	Model	Nominal Dimension	Chuck Dimension W	L	L1	H1	Pole Pitch P	Length Rotary Base L2	w1	I1	I2	G	h1	h2	Height H2	N.W. (Kg)	Price
5560-07	CP-407UW	100×175	100	175	125	78	2 (0.5+1.5)	283	100	50	25	16	103	50	145	17.5	9265
5560-10	CP-510UW	125×250	125	250	200			368								24.5	11475
5560-12	CP-612UW	150×300	150	300	246			418								27.2	13895
5560-14	CP-614UW	150×350	150	350	296			468								30.4	15300
5560-16	CP-618UW	150×450	150	450	396			568								35.4	18570

高级万力　SUPER PRECISION TOOL MAKER VISE

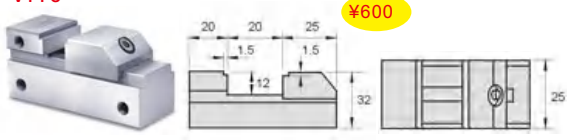



材质：SKS3
硬度：HRC58°~62°
深冷处理：-185℃
平行精密度：100mm/0.002mm内
垂直精密度：100mm/0.003mm内

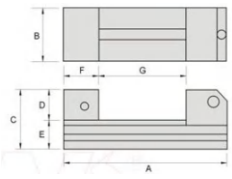
Unit:mm

Order No.	Model	A	B	C	D	E	N.W. (Kg)	Price
5660-34	SV34	75	34	35	15	0-25	0.38kg	1975
5660-45	SV45	110	45	45	20	0-50	1.0kg	2770
5660-70	SV70	160	70	62	30	0-80	3.3kg	3485
5660-90	SV90	210	90	80	40	0-120	6.7kg	5585
5660-92	SV120	286	120	90	40	0-150	16.8kg	11445

一寸不锈钢工具万力
TOOL MAKER VISE(STAINLESS STEEL)
VI10



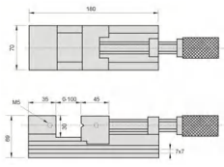
不锈钢工具万力
TOOL MAKER VISE(STAINLESS STEEL)
VL20，30

Unit:mm

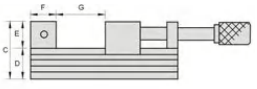
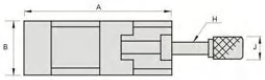
Order No.	Model	A	B	C	D	E	F	G	N.W. (Kg)	Price
5625-20	VL20	140	50	53	25	28	25	0-75m/m	1.8kg	3230
5625-30	VL30	180	72	62	30	32	35	0-100m/m	3.8kg	3830

不锈钢手转工具万力
TOOL MAKER VISE(STAINLESS STEEL)
VSU30

¥4245

高级万力　SUPER PRECISION TOOL MAKER VISE

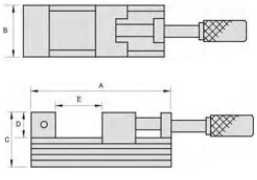




材质：SK2
硬度：HRC56°~58°
平行精密度：100mm/0.003mm内
垂直精密度：100mm/0.004mm内

Unit:mm

Order No.	Model	A	B	C	D	E	F	G	H	J	N.W. (Kg)	Price
5662-20	A20	140	48	55	30	25	25	0-75	M16	30	2.7kg	2655
5662-25	A25	160	63	69	39	30	30	0-85	M16	30	4.6kg	3095
5662-30	A30	180	73	78	43	35	35	0-95	M24	40	6.4kg	3760
5662-40	A40	230	98	92	47	45	45	0-120	M24	40	13kg	6650

超精密工具万力
SUPER PRECISION TOOL MAKER VISE

材质：SKS3
硬度：HRC58°~62°
深冷处理：-185℃
平行精密度：100mm/0.002mm内
垂直精密度：100mm/0.003mm内

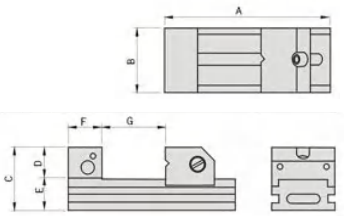
Unit:mm

Order No.	Model	A	B	C	D	E	N.W. (Kg)	Price
5665-60	AS60	90	60	50	25	0-35	1.6kg	3200
5665-70	AS70	160	70	62	30	0-80	4.3kg	4190
5665-90	AS90	210	90	80	40	0-120	8.4kg	9190

超精密工具万力

SUPER PRECISION TOOL MAKER VISE





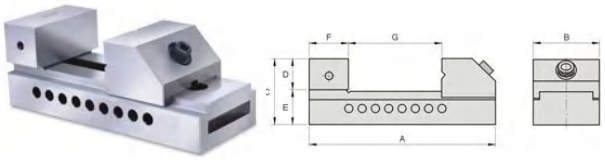
材质：SKS3
硬度：HRC58°~62°
深冷处理：-185℃
平行精密度：100mm/0.002mm内
垂直精密度：100mm/0.003mm内

Unit:mm

Order No.	Model	A	B	C	D	E	F	G	N.W. (Kg)	Price
5669-30	VV30	190	73	70	35	35	38	0-100	4.6kg	7335
5669-40	VV40	230	98	80	40	40	46	0-125	11.4kg	11160
5669-50	VV50	300	125	98	50	50	60	0-160	18.5kg	21980
5669-60	VV60	350	150	100	50	50	60	0-210	24.9kg	26210

VB工具万力 TOOL MAKER VISE

VB15-VB50



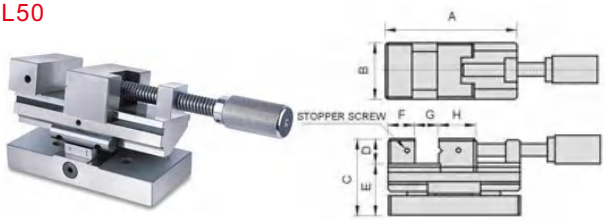
Unit:mm

Order No.	Model	A	B	C	D	E	F	G	N.W. (Kg)	Price
5718-15	VB15	100	36	48	20	28	25	0-40	1kg	600
5718-20	VB20	150	50	53	25	28	30	0-80	1.8kg	750
5718-25	VB25	175	63	63	32	31	35	0-90	3.3kg	900
5718-30	VB30	190	73	70	35	35	35	0-100	4.3kg	1000
5718-35	VB35	235	88	80	40	40	40	0-130	7.5k	1450
5718-40	VB40	245	100	90	45	45	45	0-130	10kg	1800
5718-50	VB50	285	125	100	50	50	45	0-160	15kg	2610

精密级侧向正弦万力

PRECISION SINE VISE

L50



Model / Size(mm)	A	B	C	D	E	F	G	H	I	Max.angle	N.W.(kg)	Price
L50	160	73	93	30	63	33	80	45	M5	46°	6.5	6300

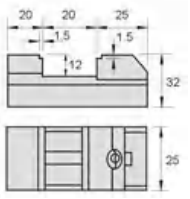
一寸工具万力 TOOL MAKER VISE(SMALL)

VS10　精度：±0.003MM以内

N.W.0.3kg



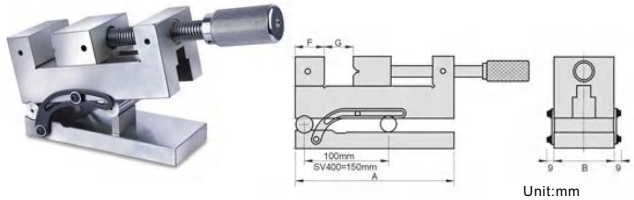
¥455



手转正弦万力

TOOL MAKER SINE VISE

SV200、250、300、400

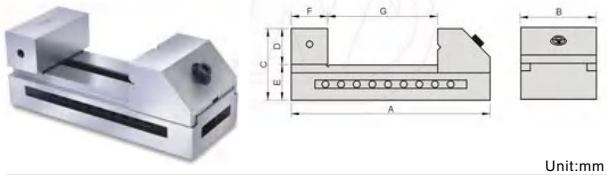


Unit:mm

Order No.	Model	A	B	C	D	E	F	G	N.W. (Kg)	Price
5735-200	SV200	156	48	89	25	27	25	0-65	4.4kg	2155
5735-250	SV250	176	63	99	30	33	30	0-75	7kg	2455
5735-300	SV300	190	73	110	35	38	35	0-79	9kg	2750
5735-400	SV400	255	98	121	45	42	45	0-124	16kg	3890

成型工具万力 TOOL MAKER VISE

VS

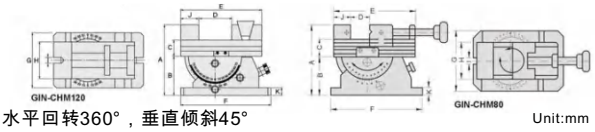


Unit:mm

Order No.	Model	A	B	C	D	E	F	G	N.W. (Kg)	Price
5720-15	VS15	100	36	48	20	28	25	0-40	1kg	655
5720-20	VS20	150	50	53	25	28	30	0-80	1.8kg	800
5720-25	VS25	175	63	63	32	31	35	0-90	3.3kg	1000
5720-30	VS30	190	73	70	35	35	35	0-100	4.3kg	1100
5720-35	VS35	235	88	80	40	40	40	0-130	7.5kg	1545
5720-40	VS40	245	100	90	45	45	45	0-130	10kg	1900

万向精密虎钳 PRECISION UNIVERSAL VISE





水平回转360°，垂直倾斜45°

Unit:mm

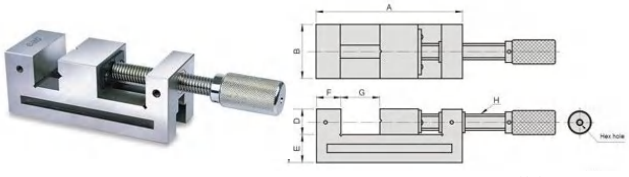
Order No.	Model	A	B	C	D	E	F	G	H	I	J	K	N.W. (Kg)	Price
5745-80	CHM80	137	75	32	80	160	180	110	70	12.5	32	15	14kg	5000
5745-120	CHM120	231	128	53	110	270	300	180	120	18	60	25	43kg	19635

手转工具万力

TOOL MAKER VISE

VSD20、25、30、40

材质SK2，水平度在0.003mm，垂直度在0.005mm.



Unit:mm

Order No.	Model	A	B	C	D	E	F	G	N.W. (Kg)	Price
5740-20	VSD20	156	48	52	25	27	25	0-65	2.5kg	1200
5740-25	VSD25	176	63	63	30	33	30	0-75	4.5kg	1400
5740-30	VSD30	190	73	73	35	38	35	0-79	6kg	1700
5740-40	VSD40	255	98	82	40	42	40	0-124	12kg	2600

线切割万力

Wire cutting tool vise

VH20	VH50	EVH20	WPV50	WPV100	WPV150	WPV320
N31 	N31 	N32 	N33 	N33 	N33 	N34 
线切割/电极万力	线切割/电极万力	线切割/电极万力	线切割/电极万力	线切割/电极万力	线切割/电极万力	线切割/电极万力
1寸不锈钢电极万力	1.5寸不锈钢电极万力	1寸电极万力	线切割万力	线切割万力	线切割万力	线切割万力
磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件	磨床配件

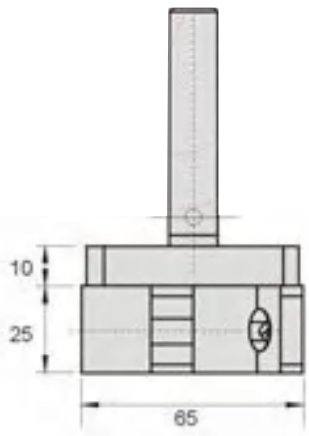
一寸不锈钢电极万力

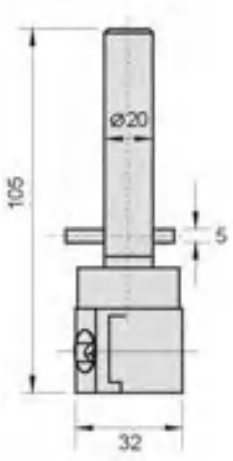
ELECTRODE HOLDER(STAINLESS STEEL)

VH20



¥900





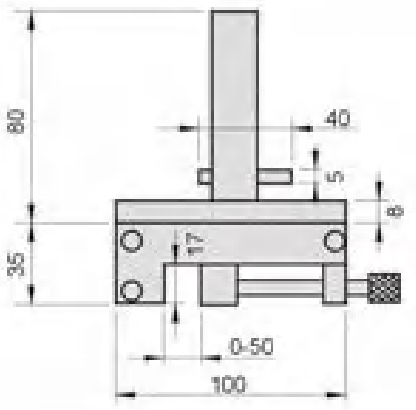
1.5寸不锈钢电极万力

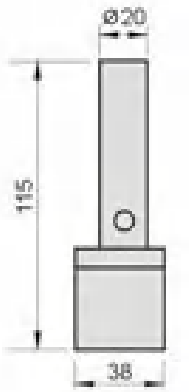
ELECTRODE HOLDER(STAINLESS STEEL)

VH50



¥1975





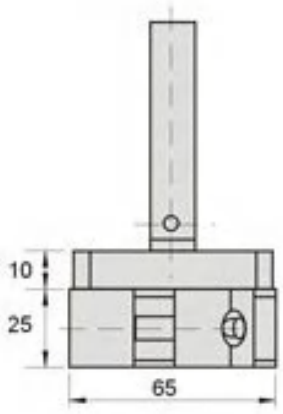
一寸电极万力 ELECTRODE HOLDER

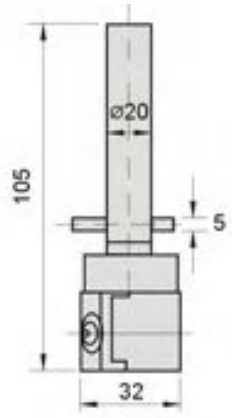
EHV20

N.W.0.8kg



¥750





Material	Sk2
Parallelism	Within 0.003mm/100mm
Squareness	Within 0.005mm/100mm

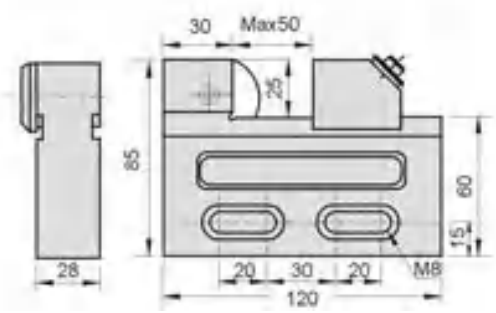
Harden treatment up to HRC56°~60°

线切割万力
PRECISION VISE OF STAINLESS STEEL FOR EDM

WPV50 材质：不锈钢 精度：±0.002mm以内



¥2335

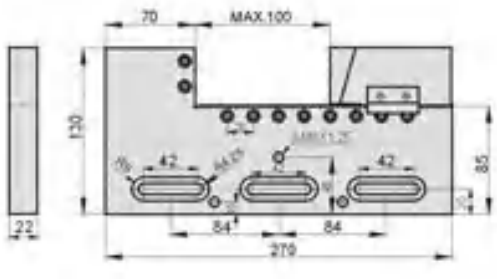


线切割万力
PRECISION VISE OF STAINLESS STEEL FOR EDM

WPV100 材质：不锈钢 精度：±0.002mm以内



¥9565

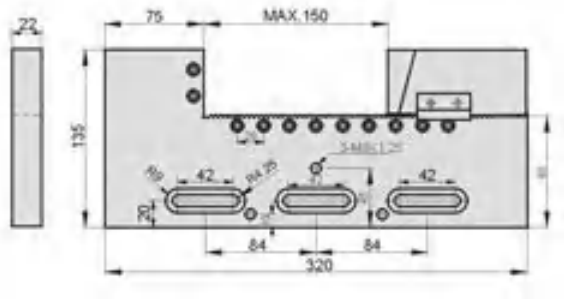


线切割万力
PRECISION VISE OF STAINLESS STEEL FOR EDM

WPV150 材质：不锈钢 精度：±0.002mm以内

¥10765





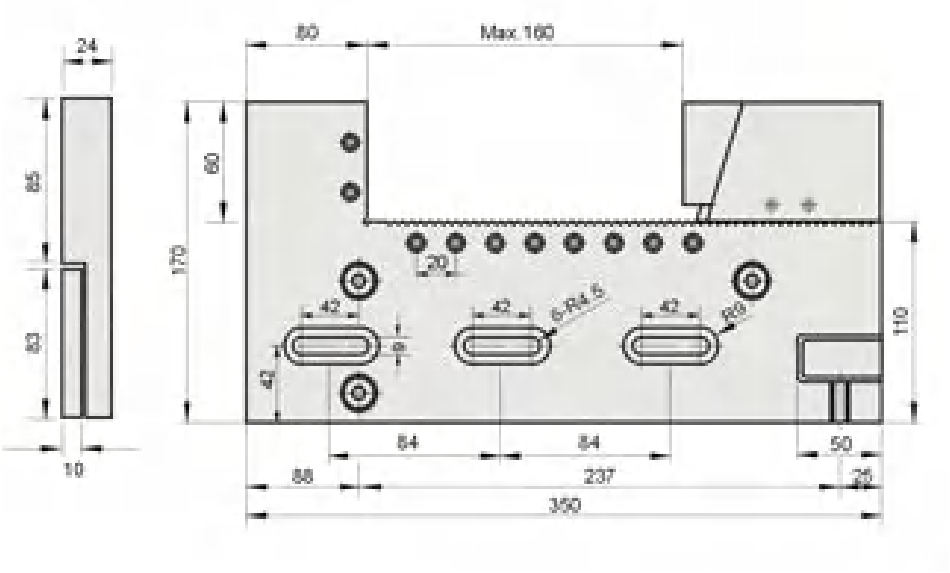
可调式线切割万力

ADJUSTABLE PRECISION VISE FOR EDM

WPV320　材质：不锈钢



¥19130



机械工具
Mechanical tools

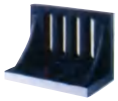
端铣刀研磨机	快速钻头研磨	快速钻头研磨	万能磨刀机	高速切断机	高速切断研磨	铣刀卧式倒角	砂轮卧式倒角
N37	N37	N37	N37	N37	N37	N37	N37
							
刀具研磨级	刀具研磨级	刀具研磨级	刀具研磨级	高速切断	高速切断研磨	倒角机	倒角机
端铣刀研磨机	快速钻头研磨机	快速钻头研磨机	万能磨刀机	高速切断	高速切断研磨机	平面铣刀卧式倒角机	砂轮卧式倒角机
机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具

侧铣式倒角机	侧铣刀卧式	平面铣刀倒角	平面卧式倒角	砂轮式倒角机	砂轮卧式倒角机	纱布轮式倒角机	纱布轮卧式
N38	N38	N38	N38	N38	N38	N38	N38
							
倒角机	倒角机	倒角机	倒角机	倒角机	倒角机	倒角机	倒角机
侧铣式倒角机	侧铣刀卧式倒角刀	平面铣刀式倒角机	平面铣刀卧式倒角机	砂轮式倒角机	砂轮卧式倒角机	纱布轮式倒角机	纱布轮卧式倒角机
机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具

手提式倒角机	直角手提倒角	强力手提倒角	气动手提倒角	不规则手提倒角	万向磁性座	万向磁性座	起重器
N38	N38	N38	N38	N38	N39	N39	N40
							
倒角机	倒角机	倒角机	倒角机	倒角机	磁性工具	磁性工具	磁性工具
手提式倒角机	直角手提式倒角机	强力手提式倒角机	气动手提式倒角机	不规则式手提倒角机	万向磁性座	万向磁性座	起重器
机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具

平行压板	调节螺丝	万能A型压板	朱氏压板	朱氏压板	压规	压规	螺丝
N41	N41	N41	N42	N42	N43	N43	N43
							
东波加硬平行压板	轿车行压板用调节螺丝	神力锻打万能A型压板	朱氏压板（海天专配）	朱氏压板（海天专配）	普通压规	普通三角规	马模螺丝（双头螺丝）
淬火处理	螺丝长53-118	A型16	55#钢热处理硬度	55#钢热处理硬度		直角边高度40-115	10.9级
机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具

螺帽	丝杆	螺杆	吊环	G字夹	千斤顶	吊环螺丝	弓形卸扣
N44	N44	N44	N45	N46	N46	N47	N47
							
加硬大对边带垫帽	加硬全牙丝杆（1米长）	加硬菱形螺杆（双台T型）	G80高级万向旋转吊环	神力美式重型G字夹	螺旋重型千斤顶	台湾国标吊环螺丝	模锻弓形卸扣
10.9级	10.9级	10.9级	公制	C热处理锻打	顶高50-300	麻钢拉令	不带保险
机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具

压板	脚垫	平夹	垫铁	拉杆	火花机	铜工夹具元/台	攻牙机系列
N47	N47	N48	N48	N48	N48	N48	N48
							
58件组合压板	机床避震脚垫	有阻式直角平夹	机床斜度调整垫铁	45号钢加硬铣床拉杆	取断丝锥火花机	铜工夹具元/台	攻牙机系列
普通配机型	注塑机	曲铮		热处理	600W/800W新款	2排/4排	气动/电动
机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具

垃圾片	尼龙胶塞	堵头	止水栓	止付螺丝	控制器	风机	快速接头
N48 	N49 	N49 	N49 	N49 	N49 	N49 	N50 
加硬精磨垃圾片系列	普通尼龙胶塞	铜喉塞	模具止水栓	公制止付螺丝	分流控制器	CNC节能风机	模具快速接头
外径11-30	袋装	铜堵头	红色氟胶圈	铁堵头1.5牙距	水排		快速母头
机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具	机械工具

水咀	机油咀	机油咀	外牙	倒角刀	修边工具
N50 	N50 	N50 	N50 	N51 	N52 
加厚铁水咀	加厚铜模温机油咀	加厚铜模温机油咀	加厚铁内外牙	倒角刀	去毛刺，精密修边工具系列
表面镀铜处理	3分美制(9/16/18牙)	表面镀铜处理	表面镀铜处理		
机械工具	机械工具	机械工具	机械工具	机械工具	机械工具

端铣刀研磨机
END MILL RE-SHARPENER
MG413

¥18400



型 号	Model	6600
研磨范围	Drill Diameter	Φ4mm~Φ13mm
角 度	Point Angle	
砂 轮	Dresser	SDC钻石砂轮#300（用于4mm-6mm） SDC钻石砂轮#300/#120（用于7mm-13mm）
马 达	Motor	3/4HP 450W
转 速	R.P.M	6000R.P.M
电 源	Power Supply	AC110\AC220(单相)
重 量	Weight	17kg

型 号	Model	Vocts
6600-110	MG413	110V
6600-220		220V

快速钻头研磨机
DRILL RESHARPENING MACHINE
DG213

¥9200



型 号	Model	66002-01
研磨范围	Drill Diameter	Φ2mm~Φ13mm
先端角范围	Point Angle	90°~135°
电 源	Power Supply	AC110\AC220(单相)
马 达	Motor	1/3HP 250W
转 速	R.P.M	5500R.P.M
重 量	Weight	8.5kg

型 号	Model	Vocts
6602-01-110	DG213	110V
6602-01-220		220V

快速钻头研磨机
DRILL RESHARPENING MACHINE
DG1226

¥18395



型 号	Model	66002-02
研磨范围	Drill Diameter	Φ12mm~Φ26mm
先端角范围	Point Angle	90°~135°
电 源	Power Supply	AC110\AC220(单相)
马 达	Motor	1/2HP 450W
转 速	R.P.M	2500R.P.M
重 量	Weight	26kg

型 号	Model	Vocts
6602-02-110	DG1226	110V
6602-02-220		220V

万能磨刀机
UNIVERSAL GRINDING CUTTER
U2



¥16100

规 格：
允许夹持直径：18mm
允许研磨直径：25mm
锥拔角度：0~180°
离隙角：0~45°
负锥拔角度：0~26°
主轴转速：3600rpm
血型砂轮直径：100×50×20mm
马达：1/3HP 220V/380V 50/60Hz
机台尺寸：L450×W400×H350mm

高速切断机
HIGH SPEED CUT-OFF MACHINE
TY280

¥12420



Order No.	Model	允许切断范围	切割公差	砂轮片尺寸		
				外径	厚度	内径
6605-110	TY280-110	φ20 100mm(宽)	20±0.10mm	150mm	1mm	19.05mm
6605-220	TY280-220	φ20 100mm(宽)	20±0.10mm	150mm	1mm	19.05mm

Order No.	Model	转速 R.P.M	电 压	定位尺长度	重量 (kg)
6605-110	TY280-110	3600	1/2HP 110单相	300mm	86
6605-220	TY280-220	3600	1/2HP 220单相	300mm	86

精密切断研磨机
PRECISION CUTTING &MILLING MACHINE
TY300、500、600



适合模具、圆梢，不锈钢等，要求精密切割面之加工件
切断，研磨一次完成，可缩短工作时间，切断面角度精准
采快速夹具设计，夹持方便快速
微调分厘卡，可快速定位尺寸
研磨砂轮，使用中可随时微调休整，尺寸不变
稳定性高，磨损率低，使用寿命长
尺寸：L430×W380×H540mm

备注：“CE”表示是一种欧盟安全认证标贴

Order No.	Model	切割精度	直角精度	砂轮片尺寸	转速 R.P.M	电 压	定位尺长度	重量 (kg)	Price
6608-01	TY-300×110V	φ25×300±0.01	φ25×90°±0.01	WA46K×100×50×20	3600	3/4HP 110单相	300mm	87.5	-
6608-02	TY-300×110V-CE					3/4HP 110-CE单相	300mm	87.5	-
6608-03	TY-300×220V					3/4HP 220单相	300mm	87.5	22500
6608-04	TY-300×220V-CE					3/4HP 220-CE单相	300mm	87.5	-
6608-05	TY-300×380V					3/4HP 380单相	300mm	87.5	20000
6608-06	TY-300×380V-CE					3/4HP 380-CE单相	300mm	87.5	-
6608-07	TY-500×110V	φ25×300±0.02	φ25×90°±0.02			3/4HP 110单相	500mm	91.5	-
6608-08	TY-500×110V-CE					3/4HP 110-CE单相	500mm	91.5	-
6608-09	TY-500×220V					3/4HP 220单相	500mm	91.5	23100
6608-10	TY-500×220V-CE					3/4HP 220-CE单相	500mm	91.5	-
6608-11	TY-500×380V					3/4HP 380单相	500mm	91.5	20600
6608-12	TY-500×380V-CE					3/4HP 380-CE单相	500mm	91.5	-
6608-13	TY-600×110V	φ25×300±0.03	φ25×90°±0.03			3/4HP 110单相	600mm	93.5	-
6608-14	TY-600×110V-CE					3/4HP 110-CE单相	600mm	93.5	-
6608-15	TY-600×220V					3/4HP 220单相	600mm	93.5	23700
6608-16	TY-600×220V-CE					3/4HP 220-CE单相	600mm	93.5	-
6608-17	TY-600×380V					3/4HP 380单相	600mm	93.5	21200
6608-18	TY-600×380V-CE					3/4HP 380-CE单相	600mm	93.5	-

V型平面铣刀卧式倒角机
V SHAPED CHAMFERING MACHINE
(FACE MILLING CUTTER TYPE)

¥8025



Order No.	Model	倒角能力	回转速	电压	净重	毛重	装箱尺寸
6609-110	VCMC500	0~3mm	3600R.P.M	110V	26kg	28kg	
6609-220				220V			
6609-380				380V			

V型砂轮卧式倒角机
V SHAPED CHAMFERING MACHINE
(GRINDING WHEEL TYPR)
VCMW500

¥8025



Order No.	Model	倒角能力	回转速	电压	净重	毛重	装箱尺寸
6609-01-110	VCMW500	0~3mm	3600R.P.M	110V	26kg	28kg	
6609-01-220				220V			
6609-01-380				380V			

侧铣刀式倒角机
SIDE MILLING CHAMFERING MACHINE
GH500A



¥5230

规　格：
尺寸：L500×W320×H320
电压：单相110V/220V,三相220V/380V
马力：1HP.50~60Hz
速度：3500R.P.M
倒角高度：0~3mm
倒角调整角度范围：15°~45°

侧铣刀卧式倒角机
CHAMFERING MACHINE
(SIDE CUTTER TYPE)
CMS500

¥7335



Order No.	Model	倒角能力	回转速	电压	净重	毛重	装箱尺寸
6610-01-110	CMS500	0~3mm	3600R.P.M	110V	28kg	30kg	53×42×41cm
6610-01-220				220V			
6610-01-380				380V			

平面铣刀式倒角机
FLAT SURFACE MILLING CHAMFERING MACHINE
GH500B

¥5920



规　格：
尺寸：L500×W320×H460
电压：单相110V/220V,三相220V/380V
马力：1HP.50~60Hz
速度：3500R.P.M
倒角高度：0~3mm
倒角调整角度范围：45°

平面铣刀卧式倒角机
CHAMFERING MACHINE
(FACE MILLING CUTTER TYPE)
CMC500N

¥8025



Order No.	Model	倒角能力	回转速	电压	净重	毛重	装箱尺寸
6613-01-110	CMC500N	0~3mm	3600R.P.M	110V	29kg	31kg	53×42×41cm
6613-01-220				220V			
6613-01-380				380V			

砂轮式倒角机
BOWI WHEEL CHAMFERING MACHINE
GH500C

¥5920



规　格：
尺寸：L500×W320×H320mm
砂轮尺寸：125×31.75×厚50mm.#60(V6型)
电压：单相110V/220V,三相220V/380V
马力：1HP.50~60Hz
滑轨长度：500mm
速度：3500R.P.M
倒角高度：0~3mm
倒角调整角度范围：45°

砂轮卧式倒角机
CHAMFERING MACHINE
(GRINDING WHEEL TYPE)
CMW500N

¥7765



Order No.	Model	倒角能力	回转速	电压	净重	毛重	装箱尺寸
6615-01-110	CMW500N	0~3mm	3600R.P.M	110V	28kg	30kg	53×42×41cm
6615-01-220				220V			
6615-01-380				380V			

砂布轮式倒角机
DISK ESPER
CHAMFERING
MACHINE
GH300

¥6990



规　格：
尺寸：L380×W320×H310mm
砂轮尺寸：外径165 内径22mm
电压：单相110V/220V,三相220V/380V
马力：1HP.50~60Hz
滑轨长度：500mm
速度：3500R.P.M
倒角高度：0~3mm
倒角调整角度范围：45°

砂布轮卧式倒角机
CHAMFERING MACHINE
(SANDING WHEEL TYPE)
CMS320

¥6210



Order No.	Model	倒角能力	回转速	电压	净重	毛重	装箱尺寸
6620-01-110	CMS320	0~1mm	3600R.P.M	110V	24kg	26kg	53×42×41cm
6620-01-220				220V			

手提式倒角机
PORTABLE REGULAR TYPE CHAMFERING MACHINE
GH320C/R/S

¥4055



规　格：
刀片规格：9.525mm(SPMW090304)
穿孔正方刃
电压：单相110V/220V
马力：500W
速度：8000R.P.M
倒角调整深度：0~3mm

直角式手提倒角机
VERTICAL HAND
CHAMFERING TOOL
VHCT

¥4055



Order No.	Model	倒角能力	回转速	电压	净重	毛重	装箱尺寸	备注
6625-01-03HG-110	VHCT-03HG	3mm	1200R.P.M	110V	2.5kg	2.8kg	36×13.5×12.5cm	日制电机
6625-01-03HG-220				220V				

强力手提式倒角机
STRONG PORTABLE
CHAMFERING MACHINE
GH320A

¥4200



规　格：
尺寸：L360×W200×H260mm
电压：三相220V/380V
马力：0.5HP
滑轨长度：200mm
速度：50/60Hz 3500R.P.M
倒角调整角度范围：15°~45°
倒角调整深度：0-9mm

气动式手提倒角机
AIR HAND CHAMFERING TOOL
AHCT

¥3925



Order No.	Model	倒角能力	回转速	风压	净重	毛重	装箱尺寸
6627	AHCT-03	3mm	1200R.P.M	90psi/63kg/cm	2.5kg	2.9kg	36×13.5×12.5cm

不规则式手提式倒角机
IRREGULAR TYPE
CHAMFERING TOOL
IHCT

¥3710

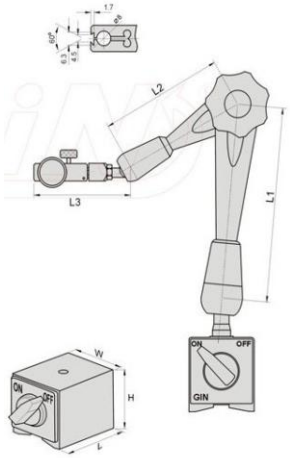


Order No.	Model	倒角能力	回转速	电压	净重	毛重	装箱尺寸	备注
6628-03HG-110	IHCT-03HG	0~3mm	1200R.P.M	110V	2.2kg	2.4kg	36×13.5×12.5cm	日制电机
6628-03HG-220				220V				

万向磁性座 UNIVERSAL ARM MAGNETIC BASE

320、340、360





Unit:mm

Order No.	Model	Power Holding	Arm Length		L3	Base Dimension			N.W.	Price
			L1	L2		L	W	H		
5485-08	WXCXZ-320	80kgf	112	102	65	60	50	55	1.4kg	560
5485-09	WXCXZ-340	80kgf	135	110	70	60	50	55	1.6kg	1080
5485-10	WXCXZ-360	100kgf	145	130	80	80	50	55	2.1kg	1350

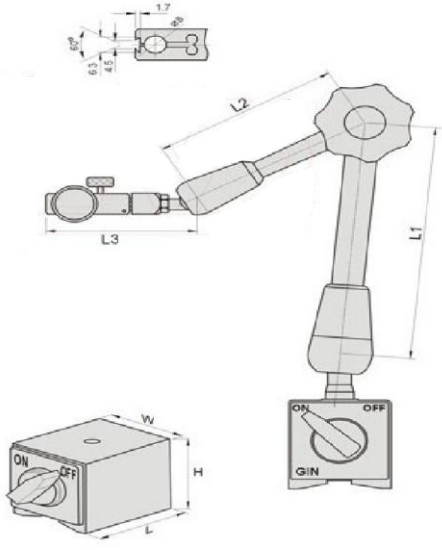
万向磁性座 UNIVERSAL ARM MAGNETIC BASE

300A、300AL、300ALL

油压式精密型

Precision ype hydraulic arm





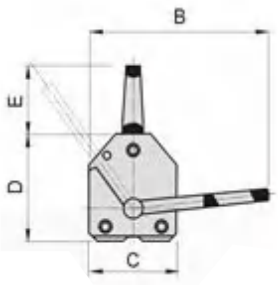
Unit:mm

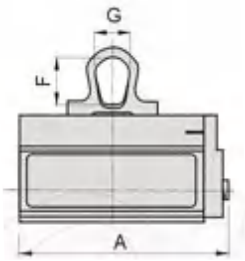
Order No.	Model	Power Holding	Arm Length		L3	Base Dimension			N.W.	Price
			L1	L2		L	W	H		
5486-01	WXCXZ-300A	100kgf	120	118	70	80	50	55	2.3kg	2245
5486-02	WXCXZ-300AL	100kgf	168	166	70	80	50	55	2.5kg	2768
5486-03	WXCXZ-300ALL	160kgf	285	280	95	120	50	55	3.5kg	5995



吊 重 参 数

吊重形式	吊重形式	允许吊重 kg	厚度 mm	允许长度 mm	允许自径 mm
 平面	Max×250	250	20	1500	--
	Max×500	500	25	2000	--
	Max×1000	1000	40	3000	--
	Max×1500	1500	45	3000	--
	Max×2000	2000	55	3000	--
 圆面	Max×250	100	10	1500	300
	Max×500	200	15	2000	400
	Max×1000	400	25	3000	450
	Max×1500	600	30	3000	500
	Max×2000	800	35	3000	600





精度： ±0. 005

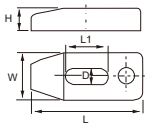
Unit:mm

Order No.	Model	A	B	C	D	E	F	G	N.W. (Kg)	Price
5566-250	QZQ-Max×250	189	185	79	79	63	35	43	6	7500
5566-500	QZQ-Max×500	249	358	106	101	88	52	60	15	13200
5566-1000	QZQ-Max×1000	342	316	133	131	88	52	60	34	19200
5566-1500	QZQ-Max×1500	383	457	166	171	122	64	87	66	29550
5566-2000	QZQ-Max×2000	457	457	166	171	122	64	87	80	35400

东波加硬平行压板（材质：S40Cr卒火热处理，表面发黑）
Dongbo Hardened Parallel Pressing Plate (Material: S40Cr Heat Treatment, Surface Blacng)

规格 specifications	L	W	H	L1	D
M10	75	32	15	32	11
M12	120	44	19	54.5	13.5
M16	140	50	22	64.5	17.5
M18	160	60	25	76	20
M20	180	62	28	86	22
M24	220	76	35	102	26
M30	220	80	40	102	32
M30	250	100	50	102	32

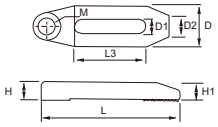




宁泰精锻可调压板（材质：S45C表面发黑/烤漆）
Ningtai precision forging adjustable pressing plate (material: S45C surface blackened/baked paint)

规格 specifications	L	L3	D	D1	D2	H	H1	M
M12	98	45	38	12.5	17.8	22	24	20
M16	123	66	44	17	17	22	27	27
M20	155	90	53	22	22	27	34	34
M24	185	106	66	25	30	31	42	42

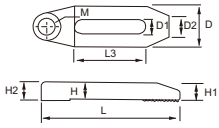




神力精锻可调压板（材质：S45C表面发黑/烤漆）
Divine precision forging adjustable pressing plate (material: S45C surface blackened/painted)

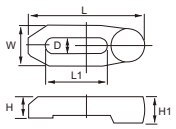
规格 specifications	L	L3	D	D1	H	H1	H2	M
M16	128	66	44	18	17.8	24	25	20
M20	160	90	53	22	22	28	30	24
M24	190	106	66	25	30	32	35	30





规格 specifications	L	W	H	L1	D	H1
G12	100	35	23	53.2	13.2	18
G16	125	46	28	63.5	17.5	22
G20	158.5	55	32	85	22	24
G24	191.5	67	42	108	26	30

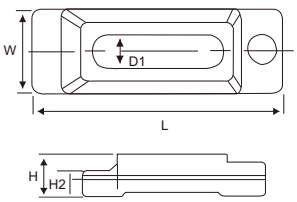




东波轿车型压板（加硬精锻）
Dongbo sedan pressure plate (hardened precision forging)

规格 specifications	L	W	H	D1	H2
M12	96	36	20	13.5	14
M16	126	48	25	17.5	18
M20	156	60	33	22	20
M24	190	72	38	26	23
M30	220	90	46	31	25

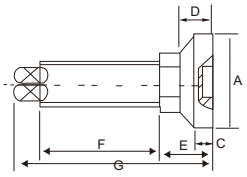




轿车型压板用调节螺丝
Adjusting screw for sedan type pressure plate

规格 specifications	A	C	D	E	F	G
M12	Φ26	4	8	14	32	53
M16	Φ36	5	10	18	40	68
M20	Φ46	6	12	24	53	90
M24	Φ56	6	12	24	60	100
M30	Φ65	7	14	28	75	118





神力精锻HC压板（加硬）
Shenli Precision Forged HC Pressing Plate (Hardened)

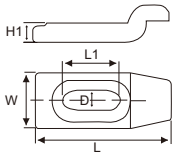
规格 specifications
M12
M16
M20
M24
M30



东波加硬E型压板
Dongbo Plus Hard E-shaped Pressing Plate

规格 specifications	L	W	L1	L2	D
E16	125	50	40	17. 5	17. 2
E18	135	60	40	19. 5	20
E20	165	88	60	21. 6	22
E24	200	75	80	25. 5	28





可调压板螺丝
Adjustable pressing plate screw

规格 specifications
G12
G16
G20
G24



神力锻打万能A型压板
Shenli Forged Universal A-shaped Pressing Plate

规格 specifications
A型16



神力加厚多变压板
Shenli thickened and variable pressure plate

规格 specifications
16x118(5")
16x130(6")
16x150(7")
20x150(7")
20x180 (7")
20x200 (7")



神力德式压板
Shenli German style pressure plate

规格 specifications
M16
M20



多变压板盖子

规格 specifications
M12
M16
M20
M24





朱氏压板(海天专配)与注塑机配套出口国外、终身保用(断了、弯了可包换)

Zhu's pressure plate (specially equipped by Haitian) and injection molding machine are exported to foreign countries, with a lifetime warranty (can be replaced if broken or bent)

适用塑机型号 Applicable plastic machine model	压板型号 Pressing plate model	使用有效范围 Use effective range	塑模板孔距 Plastic template hole spacing	压板技术参数 Technical parameters of pressing plate
根据各种塑料机厂规格型号选择压板型号 Select the pressing plate model based on various plastic machine factory specifications and models		10-35	30 35	主体及方垫材质为55#钢热处理硬度HRC35-40表面处理镀锌、发黑喷塑。 The material of the main body and square pad is 55 # steel, with a heat tre atment hardness of HRC 35-40. The surface is tre ated with zinc plating and blackened with spray molding.
	12x100	15-40	35	
	M16-130	15-45	40 50	
	M16-150	15-45	35	
	M20-180	20-50	50	
	M20-200	20- 50	90 65	
	M24-220	20-65	70 75	
	M24-240	30-65	70 80	
	M30-250	20-80	150	



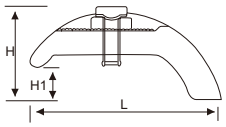


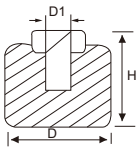
FLY无阶拱形压板(注塑机专利)终身保用

FLY stepless arch pressure plate (patented injection molding machine) with lifetime warranty

规格 specifications	L	D	D1	H	H1
M16	135	D1	H1	25	75
M20	180	77	21	105	70
M24	200	92	25	110	75





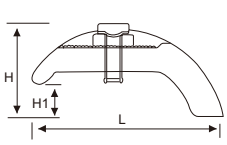


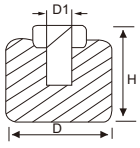
九龙无阶拱形压板(注塑机专利)终身保用的价

Kowloon Stepless Arch Pressing Plate (Injection Molding Machine Patent) Lifetime Warranty Price

规格 specifications	L	D	D1	H	H1	装箱数 Packing
M12	110	63	12.8	80	45	8/箱
M16	110	63	16.8	80	45	8/箱
	135	65	16.8	86	60	8/箱
	150	75	16.8	100	65	8/箱
M20	180	77	21	105	70	8/箱
	200	87	21	110	75	8/箱
M24	200	87	25	110	75	4/箱
	220	92	25	100	80	4/箱
	250	97	25	130	100	4/箱
M30	220	92	30.8	110	80	4/箱
	250	97	30.8	130	100	4/箱





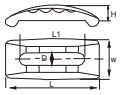


东波元宝压板

Dongbo Yuanbao Pressing Plate

规格 specifications	L	W	H	L1	D
M12	100	46	17	68	13.5
M16	122	57	22	80	17.5
M20	155	69	27	108	22
M24	178	83	32	118	26





元宝压板

Yuanbao Pressed Mustard

规格 specifications
1 /2
5/8
3/4
1"



元宝压板

Yuanbao pressing plate

规格 specifications
M12
M16
M20
M24



元宝压板

Yuanbao Pressed Mustard

规格 specifications
M12
M16
M20
M24



加硬精锻冲床压板

Hardened precision forging press plate

规格 specifications
弯平5/8
弯平3/4
弯平1″



普通压规
Ordinary pressure gauge

规格 specifications
1/2M12大号 large size
1/2M12中号 medium size
1/2M12小号 trumpet
5/8M16大号 large size
5/8M16中号 medium size
5/8M16小号 trumpet



普通三角规
Ordinary triangular gauge

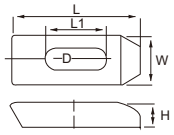
规格 specifications	直角边高度 (mm) Height of right angle edge (mm)
1/2大	82
1/2中	42
1/2小	30
5/8大	115
5/8中	78
5/8小	40



45号加硬压规(热处理)
45 # hardened pressure gauge (heat treated)

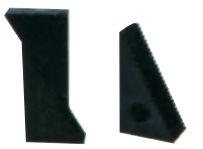
型号 specifications		L	W	H	L1	D
10(3/8)	小	63	25	13	29	11
	中	100	25	16	47	
	大	150	32	19	60	
12(1/2)	小	63	25	13	26	13
	中	100	32	19	46	
	大	150	32	22	62	
16(5/8)	小	63	32	16	28	17
	中	100	38	19	42	
	大	150	38	22	63	
20(3/4)	小	100	38	19	47	21
	中	150	38	25	64	
	大	200	50	25	85	

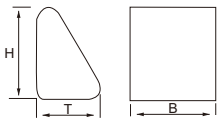




普通压规
Ordinary pressure gauge

型号		B	H	T
M10	小	25	30	17
	中		45	27
	大		97	57
M12	小	25	30	17
	中		45	27
	大		97	57
M16	小	32	45	27
	中		59	35
	大		97	57
M20	小	38	59	35
	中	38	97	57
	大	50	139	81





马模螺丝(双头螺丝)(10.9级)
Horse mold screw (double head screw) (grade 10.9)



单价 unit-price / 直径 diameter / 长度 length		10(3/8)	12(1/2)	14	16(5/8)	18	20(3/4)	22	24(1 ")
80	3"	0.65	0.80	1.10	1.40	1.90			
100	4"	0.80	1.00	1.30	1.60	2.10	3.00		
125	5"	1.00	1.25	1.60	1.90	2.50	3.56	7.60	10.001
150	6"	1.20	1.50	1.90	2.20	3.00	4.12	8.60	1.00
175	7"	1 40	1.80	2.20	2.50	3.30	4.55	9.60	12.00
200	8"	1.70	2.10	2.25	2.85	3.60	5.00	10.60	13.00
225	9"	2.00	2.40	3.00	3.30	4.00	5.41	11. 60	14.00
250	10"	2.30	2.70	3.40	3.80	4.30	5.90	12.60	15.00
300	12"	3.00	3.30	4.20	4.80	5.30	6.90	15.00	17.00
350	14"				7.00		11.00	18.00	21.00
400	16"				9.00		14.20	22.00	26.00
450	450"				12.00		17.50		29.00
500							21.00		34.00

T形螺丝(压板螺丝8.8级)
T-shaped screw (pressure plate screw grade 8.8)



单价 unit-price / 直径 diameter / 长度 length		10(3/8)	12(1/2)	14	16(5/8)	18	20(3/4)	22	24(1 ")	30
50	2"	2.50	2.50							
60		2.50	2.50							
75	3"	2.50	2.00	2.40	2.40	3.40	4.00			
100	4"	2.50	2.20	2.60	2.90	3.90	4.80	7.20	9.80	
125	5"	2.50	2.50	3.20	3.50	4.50	5.70	8.20	10.80	
150	6"		2.80	3.80	4.40	5.40	6.40	9.00	11.90	23.00
175	7"		3.20	4.20	5.00	6.00	7.20	10.00	12.80	24.00
200	8"		3.80	4.80	5.80	6.80	7.90	11.00	13.90	26.00
225	9"		4.60	5.60	6.60	7.80	8.80	12.20	14.80	
250	10"		5.60	6.60	7.60	8.80	9.80	13.60	15.70	31.00
275	11"		6.80	7.80	8.80	9.80	10.80	15.00	16.90	
300	12"		8.00	9.00	10.00	11.20	11.80	16.50	17.80	34.00
350	14"				15.00	17.00	18.50	20.00	25.00	42.00
400	16"				19.00	21.00	22.50	23.00	28.00	45.00
450	418"				23.00		27.00		31.00	
500	20"						32.00		34.00	

中间六角螺丝(注:塑机专配)(8.8级SJ10.9级)
Middle hexagonal screw (note: specially equipped for plastic machines) (Grade 8.8 SJ10.9)

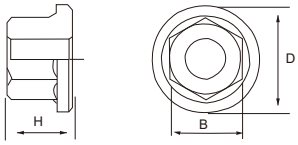


单价 unit-price / 直径 diameter / 长度 length		100(4")	125(5")	150(6")	175 (7 ")	200(8")	225(9")	250(10")	300(12")
M12	1/ 2	2.80	2.80	3.80	4.80				
M14		3.00	3.00	4.50	5.50	6.50			
M16	5/8	3.50	3.50	4.50	5.50	6.50			
M18			3.70	5.60	6.60	7.60			
M20	3/4		4.60	6.80	7.80	8.80	12.00	16.00	25.00
M22			5.80	8.80	9.80	11.00	12.50	18.00	
	7/8				12.00	13.00	14.50		
M24	1"			11. 90	12.80	13.90	15.80	20.00	30.00
M30						36.00	40.00	45.000	55.00

加硬大对边带垫螺帽
Hardened large diagonal nut with gasket

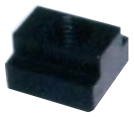
规格 specifications	D	H	B
M10	22	14	17
M12	28	17	21
M14	28	18	22
M16	35	22	26
M18	40	25	32
M20	40	25	32
M22	41	28	32
M24	50	32	41

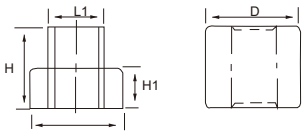




加硬大对边带垫螺帽
Hardened large diagonal nut with gasket

规格 specifications	L	L1	H	H1	D
M6	18	12	12	6	23
M8	16	10	12	6	22
M10	18	12	14	7	22
M12	22	14	16	8	29
M14	25	16	16	8	29
M16	28	17.5	20	11	32
M18	32	20	24	12	38
M20	35	22	28	14	38
M24	44	27	38	17	50
M3/8	18	12	14	7	22
M1/2	22	14	16	8	29
M5/8	28	17.5	20	11	32





加厚垫片
Thickened gasket

规格 specifications
M10(3/8)
M12(1/2)
M14
M16(5/8)
M18
M20(3/4)
M22
M24(1 ")
M30



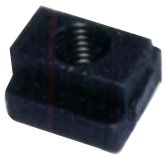
带垫螺帽
Nut with gasket

规格 specifications	
M10	3/8
M12	1/2
M14	
M16	5/8
M18	
M20	3/4
M22	
M24	1"
M27	
M30	



T型螺帽
T-shaped nut

规格 specifications
M6
M8
M10（19宽）
M10（22宽）
M10（24宽）
M12（22宽）
M12（24宽）
M12（22宽、28长）
M14
M16（16高）
M16（18高）
M18
M20（浙江）
M20（河北）
M22
M24



加硬加大加厚垫片
Hardened and thickened gasket

规格/外径 Specification/Outer Diameter
M10（3/8）
M12（1/2）
M16(5/8)
M18
M20(3/4)
M22（7/8）
M24（1）
M30



角螺帽
Corner Nut

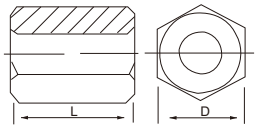
规格 specifications	单价 unit-price	
M10	3/8	0.50
M12	1/2	0.60
M14		0.70
M16	5/8	1.20
M18		1.50
M20	3/4	1. 60
M22		2.60
M24	1"	3.12
M30		12.00



加硬大对边六角螺帽
Hardened large opposite hexagonal nut

规格 specifications	L	D
M12	32	21
M14	32	22
M16	41	26
M18	45	32
M20	45	32
M24	63	41





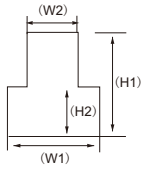
加硬特长螺帽（连接螺帽）
Hardened extra long nut (connecting nut)

规格 specifications			单价 unit-price
型号 model	外径 outside diameter	长度 length	
M10	17	25	2.50
M12	21	35	3.00
M14	21	35	4.00
M16	26	40	4.60
M18	26	38	7.00
M20	32	49	10.00
M24	40	48	24 00
M30	46	48	40.00



加高加大T型帽
Elevated and enlarged T-shaped hat





规格 specifications	单价 unit-price	(H) 1	(H) 2	(W) 1	(W) 2
M16	10.00	32	15	31	20
M20	20.00	37	18	46	27
M24	30.00	48	21	55	28
M30	36.00	60	22	54	36

加硬菱形螺杆10.9级（双台T型）
Hardened diamond screw grade 10.9 (double T-shaped)

单价 unit-price	H	G	F	E	D	C	B	A
6.3	75							
7.6	100	13	6	7	22	26	Φ12	M12
8.40	125							
8.60	150							
11.60	100							
13.00	125							
14.00	150							
16.00	175	16	8	8	27	32	Φ16	M16
18.00	200							
20.00	250							
24.00	300							
18.00	125							
19.60	150							
21.00	175	22	11	11	30	40	Φ20	M20
22.40	200							
26.00	250							
32.50	300							
28.00	125							
34.00	150							
40.00	175	31	15	16	44	50	Φ24	M24
50.00	200							
60.00	250							
70.00	300							



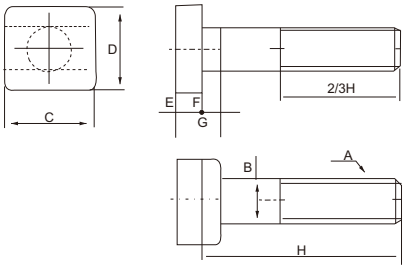
加硬（10.9级）全牙丝杆（1米长）
Hardened (grade 10.9) full tooth screw rod (1 meter long)



规格	M8	M10	M14	M16	M18	M20	M22	M24	M27	M30
单价	3.80	6.00	9.00	11.00	14.00	22.00	29.00	32.00	44.00	56.00

材质：S4 5C锻造钢
表面：染黑处理
硬度：HRC32°-38°

Material: S4 5C forged steel
Surface: Dyeing black treatment
Hardness: HRC32 ° -38 °



G80高级万向旋转吊环（公制）

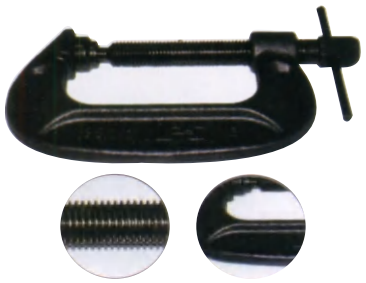
G80 Advanced Universal Rotating Lifting Ring (Metric)



规格 specifications	长度 length	拉力 pulling	自重 dead-weight
M8x1.25-6g	12	400	0.27
M10x1.5-8g	19	500	0.27
M12x1.75-6g	19.1	1050	1.17
M14x2.0-6g	31.8	1150	1.18
M16x2.0-6g	31.8	1900	1.20
M20x2.5-6g	38.1	2150	2.21
M22x2.5-6g	38.1	2250	2.23
M24x3.0-6g	50	4200	2.24
M30x3.5-6g	54	5000	3.70
M36x4.0-6g	58	8000	3.85
M39x4.0-6g	60	8000	3.97
M42x4.5-6g	68	10000	5.83
M45x4.5-6g	68	10000	5.85
M48x5.0-6g	68	10000	6.08
M52x5.5-6g	84	15000	10.00
M56x5.5-6g	84	15000	10.15
M60x5.5-6g	90	15000	10.50
M64x6.0-6g	95	15000	10.80
M72x6.0-6g	108	25000	22.80
M80x6.0-6g	120	30000	24.00
M90x6.0-6g	135	350000	26.00
M100x6.0-6g	135	490000	30.00

神力美式重型G字夹(C热处理锻打)
Shenli American heavy-duty G-shaped clamp (C heat treated forging)

规格 specifications
5"(125)
6"(150)
8"(200)
10"(250)
12"(300)



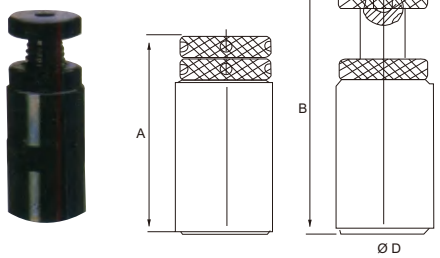
产品介绍:
G字夹

美式重型G字夹用于加持各秋形状的工件、模块等起固定作用的一秋五金工具又名虾弓码、C字夹、木工夹等。使用广泛、携带方便，由于主体是用45#高速钢热锻而成，故使用寿命长，G字夹采用粗牙螺纹旋进式设计，可以自由调节所要夹持的范围，夹持力量大，整体热处理，耐用性强，强度更大.

Product Introduction:
G-clip

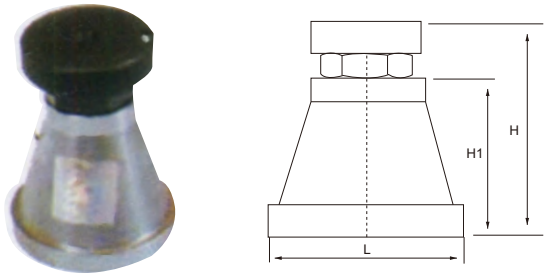
The American heavy-duty G-shaped clamp is used to hold various autumn shaped workpie ces, modules, and other fixed hardware tools, also known as shrimp bow code, C-shaped clamp, woodworking clamp, etc. Widely used and easy to carry, the main body is made of 45 # high-speed steel by hot forging, so it has a long service life. The G-shaped clamp ado pts a coarse thread screw-in design, which can freely adjust the clamping range. The clam ping force is large, and the overall heat treatment is strong, durable, and stronger

螺旋重型千斤顶
Screw heavy jack (50 fold)



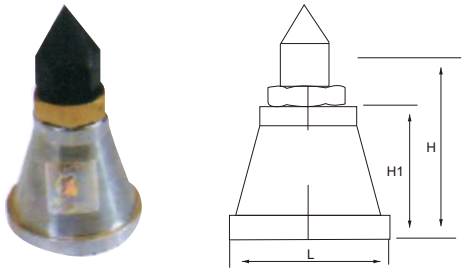
规格 specifications	A	B	C	D	E	KN
VL37-50	37	50	35	40	11.5	72
VL50-70	50	70	35	40	11.5	72
VL70-100	70	100	40	45	11.5	135
VL100-150	100	150	45	50	11.5	135
VL150-250	150	250	50	60	11.5	155
VL200-300	200	300	50	60	11.5	155

干斤顶(平)
Dry Jin Ding (flat)



规格 specifications	L	H	H1
特大A	89	154	89
大B	76	108	74
中C	63	88	59
小D	51	76	48

干斤顶(尖)
Dry Jin Ding (tip)



规格 specifications	A	B	C
特大A	89	154	89
大B	76	135	74
中C	63	107	59
小D	51	90	48

台湾国标吊环螺丝（麻钢拉令）

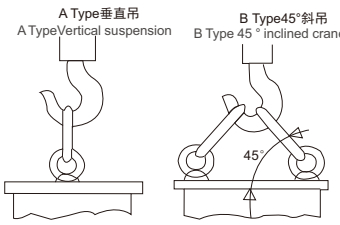
Taiwan national standard lifting ring screw (hemp steel pulling ring)



公制 Metric

规格 specifications	内径 inside diameter	外径 outside diameter	重量 weight	拉力强度 Tensile strength
M6	20	35	53	0.07
M8	20	35	55	0.14
M10	25	45	113	0.23
M12	28	55	187	0.34
M14	33	58	233	0.5
M16	35	63	290	0.7
M18	38	72	450	1.2
M20	38	72	450	1.2
M22	38	72	460	1.2
M24	48	90	900	1.8
M27	48	90	930	2.5
M30	60	108	1625	3.2
M36	70	126	2612	4.6
M42	78	144	4072	7
M48	87	165	6480	8.6
M56	95	185	8800	11.5
M64	108	210	13036	16
M72	140	260	23200	20
M80	170	300	33000	28

正确使用范围 Correct usage range



英制 English

规格 specifications	内径 inside diameter	外径 outside diameter	重量 weight	拉力强度 Tensile strength
M1/2	30	53	160	0.22
M5/8	35	62	272	0.4
M3/4	38	71	433	0.6
M1"	45	85	860	1.8
M1-1/4	58	112	181	3.6
M11/2	70	128	2275	5.1
M 2"	95	185	28800	11.5

模锻弓形卸扣不带保险

Die forged bow shackle without safety



规格 specifications	内径 inside diameter	外径 outside diameter	重量 weight	拉力强度 Tensile strength
M3/8	25	45	113	0.23
M1/2	30	3	160	0.22
M5/8	35	62	272	0.4
M3/4	38	71	433	0.6
M7/8	38	72	460	1.2
M1	45	86	860	1.8
M1-1/4	58	112	1812	3.6
M1-1/2	70	128	2752	5.1
M1-3/4	87	165	6480	8.6
M2"	95	185	8800	11.5

模锻弓形卸扣不带保险

Die forged bow shackle without safety



规格 specifications
0.5吨
1吨
2吨
3.25吨
4.75吨
6.5吨
8.5吨
9.5吨
12吨
13.5吨
17吨
25吨

台湾国际吊母DIN580公制（MM）

Taiwan International Hanging Nut DIN580 Metric (MM)



规格 specifications	内径 inside diameter	外径 outside diameter	重量 weight	拉力强度 Tensile strength
M6	20	35	40	0.23
M8	20	35	40	0.34
M10	25	45	90	0.23
M12	28	55	145	0.34
M14	30	60	170	0.34
M16	35	63	270	0.7
M20	38	72	360	1.2
M22	38	72	360	1.2
M24	48	90	700	1.8
M27	48	90	760	1.5
M30	60	108	1450	3.2
M36	70	126	2200	4.6

58件组合压板（普通配机型）

58 piece combination pressure plate (regular model)



规格 specifications
M12
M16
M1/2
M5/8

加硬58件组合压板（8.8级）

Hardened 58 pieces of composite pressure plate (SJW) (Grade 8.8)



规格 specifications
M10
M12
M14
M16
M18
M20

58件加硬组合压板（10.9级）

58 pieces of hard combination pressure plate (grade 10.9)



规格 specifications	单价 unit-price
M8	420.00
M10	400.00
M12	400.00
M16	560.00
M20	1200.00
M/2	400.00
M5/8	560.00

机床避震脚垫（注塑机）

Machine tool shock-absorbing foot pad (injection molding machine)



规格 specifications
Φ100(M12)
Φ150(M16)
Φ150(M18)
Φ200(M20)

预杆避震垫铁

Pre rod shock pad iron



规格 specifications
Φ120
Φ160
Φ200

三层调整垫铁A型

Three layer adjustment pad iron type A



规格 specifications
L150
L200

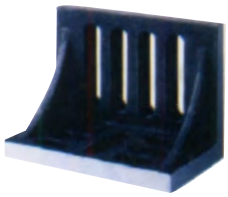
机床斜度调整垫铁

Machine tool slope adjustment pad iron (8 fold)



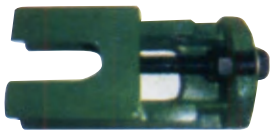
规格 specifications
Φ80
Φ100
Φ120
Φ160
Φ200
Φ240

有阻式直角平夹(曲铮)
Impedance type right angle flat clamp (Qu Zheng)



规格 specifications
6"
8"
10"
12"
14"

机床斜度调整垫铁
Machine tool slope adjustment pad iron



规格 specifications
80x160
100x200
120x240
140x280
150x300

45号钢加硬铣床拉杆(热处理)
45# steel hardened milling machine pull rod (heat treated)



规格 specifications
M7/16(细牙)
M12(粗牙)

取断丝锥火花机
Cutting tap spark machine



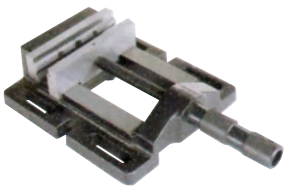
规格 specifications
600W
800W新款

铜工夹具元/台
Copper fixture yuan/unit



规格 specifications
2排
4排

德式钻床批士
German drilling machine operator



规格 specifications
3"
4"
5"
6"

攻牙机系列
Tooth tapping machine series



规格 specifications	白色 white	紫色 purple
气动3-12 Pneumatic 3-12	2000.00	2300.00
电动3-16 Electric 3-16	3000.00	3800.00
电动6-24 Electric 6-24	4500.00	5500.00
电动6-30 Electric 6-30	4700.00	5700.00

加硬精磨垃圾片系列
Hardened and finely ground garbage pieces series



外径(+0.01) Outer diameter (+0.01)	厚度(+0.02) Thickness (+0.02)	孔径(+0.02) Aperture (+0.02)
11	5	5
	4	6
18	5	4
	3	5
20	5	5
	6	
	4	6
	6	
	5	
25	5	5
		6
	6	5
		6
	3	4
28	4	
	5	5
	5	6
30	5	5
	5	6
	6	6
	6	5

垃圾钉
Garbage nails



规格 specifications
8

普通尼龙胶塞（袋装）
Ordinary nylon stopper (bagged)



规格 specifications	个/袋 Pieces/bag
M8x16	100
M8x20	50
M10x20	50

进口盒装尼龙胶塞（塑料斗盒/耐高温250°）
Imported box filled nylon rubber stopper (Plastic bucket box/high temperature resistance 250 °)



规格 specifications	个/盒 Pieces/box
M5x10	12
M6x12	12
M6x13	12
M8x16	12
M10x20	10

铜喉塞（铜堵头）
Copper throat plug (copper plug)



英制BSBT牙系列 British BSBT dental series		美制NPT牙系列 American NPT dental series	
规格 specifications	单价 unit-price	规格 specifications	单价 unit-price
PT1/16-28	1.00	NPT1/8-27	1.20
PT1/8-28	0.70	NPT1/4-18	1.40
PT1/4-19	1.00	NPT3/8-18	3.00
PT3/8-19	2.40	NPT1/2-14	4.00
PT1/2-14	3.00		
PT3/4-14	5.00		
PT1"-11	7. 60		

模具止水栓（红色氟胶圈）
Mold water stop plug (red fluorine rubber ring)



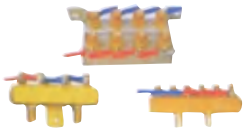
规格 specifications
6
8
10
12
14
16
18
20
25
30

公制止付螺丝（铁堵头1.5牙距）
Metric stop screw (iron plug 1.5 pitch)



规格 specifications	规格 specifications
M8	M27
M10	M28
M12	M30
M14	M33
M16	M36
M18	M38
M20	M40
M22	M42
M24	M45
M25	M48
M26	

分流控制器（水排）
Diverter controller (water discharge)



规格 specifications	分体 Splitting	连体 Conjoined body	双排 Double row
4位(2进2出)	100.00	132.00	150.00
6位(3进3出)	154.00	198.00	220.00
8位(4进4出)	204.00	264.00	290.00
10位(5进5出)	253.00	330.00	350.00
12位(6进6出)	310.00	396.00	440.00
16位(8进8出)		530.00	600.00

CNC节能风机
CNC energy-saving fan



规格 specifications
CNC节能风机

铁弗龙接头
Teflon joint

美制3" Φ 8 American 3" Φ eight



开闭器

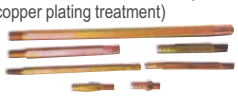


方型辅助器 Square auxiliary device
规格 specifications
PI38
PI50
PI75
PL100

模具快速接头(快速母头)
Mold quick connector (quick female head)

规格 specifications	规格 specifications	规格 specifications
大组Φ11、Φ13 Large group Φ 11 Φ thirteen	加长组Φ11、Φ13 Extension group Φ 11 Φ thirteen	封闭式大组Φ11、Φ13 Closed large group Φ 11 Φ thirteen
大组3分美(9/16x18牙) Large group 3 point beauty (9/16x18 teeth)	加长大组3分美(9/16x18牙) Lengthened large group with 3 points of beauty (9/16x18 teeth)	封闭式大组3分美(9/16x18牙) Closed large component 3 point beauty (9/16x18 teeth)
大组4分美(3/4x16牙) Large group 4-point beauty (3/4x16 teeth)	加长大组4分美(3/4x16牙) Extended large group with 4 points of beauty (3/4x16 teeth)	封闭式小组(3/4x16牙) Closed group (3/4x16 teeth)
小组Φ11、Φ13 group Φ 11 Φ thirteen	加长小组Φ11、Φ13 Extension team Φ 11 Φ thirteen	封闭式小组3分美Φ11、Φ13 Closed group 3 points beauty Φ 11 Φ thirteen
小组3分美(9/16x18牙) Group 3 points beauty (9/16x18 teeth)	加长小组Φ11、Φ13 Extension team Φ 11 Φ thirteen	加长小组(9/16x18牙) Extension group (9/16x18 teeth)

加厚铁水咀(表面镀铜处理)
Thickened iron water nozzle (surface copper plating treatment)



规格 specifications / 长度 length	1/2粗细 1/2 thickness	3/8粗细 3/8 thickness	M8	M10	M12
30(1.3")	0. 52	0.36	0.30	0.36	0. 44
50(2")	0. 90	0.90	0.60	0.70	0. 90
75(3")	1. 40	1.40	0.84	1.00	1. 20
100(4")	1. 80	1.80	1.10	140	1. 60
125(5")	2. 20	2.20	1.30	1.60	2. 00
150(6")	2. 60	2.60	1.60	2.00	2. 30
175(7")	3. 20	3.20	1.80	2.40	2. 80
200(8")	3. 60	3.60	2.20	2.80	3. 20
250(10")	5. 00	5.00	3.00	4.00	4. 50
300(12")	8. 00	8.00	6.00	7.00	8. 00

加厚铜模温机油咀
Thickened copper mold warm oil nozzle



D / L	3分美制(9/16/18牙) 3 points US (9/16/18 teeth)	
	M12标准牙 1/4细牙1/2粗牙 M12 standard teeth 1/4 fine teeth 1/2 coarse teeth	M10标准牙1/8细牙3/8粗牙 M10 standard teeth 1/8 fine teeth 3/8 coarse teeth
1. 3" (35 mm)	1.80	1.60
2" (50mm)	2.00	1.80
3" (75mm)	3.00	2.80
4" (100mm)	4.00	3.40
5" (125mm)	4.40	4.00
6" (150mm)	5.20	5.00
7" (175mm)	6.20	6.00
8" (200mm)	7.20	7.00
10" (250mm)	12.00	12.00

加厚铁模温机油嘴(表面镀铜处理)
Thickened iron mold warm machine oil nozzle (surface copper plating treatment)



D / L	3分美制(9/16/18牙) 3 points US (9/16/18 teeth)	
	M12标准牙 1/4细牙1/2粗牙 M12 standard teeth 1/4 fine teeth 1/2 coarse teeth	M10标准牙1/8细牙3/8粗牙 M10 standard teeth 1/8 fine teeth 3/8 coarse teeth
1.3"(35mm)	1 80	1.60
2"(50mm)	2.00	1.80
3"(7 5mm)	3.00	2.80
4"(100mm)	4.00	3.40
5"(125mm)	4.40	4.00
6"(150mm)	5.20	5.00
7"(17 5mm)	6.20	6.00
8"(200mm)	7.20	7.00
10" (250mm)	12.00	12.00

(铁)快速咀大小咀
(Iron) Quick nozzle, large and small nozzles



规格 specifications / 长度 length	1/2粗、细M12 大组	1/2粗、细M12 小组	13/8粗、细 大组	13/8粗、细 小组
1.3"	1. 60	1. 60	1. 60	1.20
2"	2.00	2.00	2.00	1.60
3"	3.00	3.00	3.00	2.60
4"	4.00	4.00	4.00	3.60
5"	5.00	5.00	5.00	4.60
6"	6.00	6.00	6.00	5.60
8"	8.00	8.00	8.00	7.60

铜水咀
Copper water nozzle



规格 specifications / 长度 length	普通铜水嘴 Ordinary copper water nozzle		普通铜水嘴 Ordinary copper water nozzle	
	1/2(M12)粗细 1/2 (M12) thickness	3/8(M10)粗细 3/8 (M10) thickness	1/2(M12)粗细 1/2 (M12) thickness	3/8(M10)粗细 3/8 (M10) thickness
1.3"	1.26	0.86	1.6	1.24
1.5"	1.42	1.00	41.92	1.38
2"	1.88	1.34	2.46	1.64
3"	3.00	1.86	3.84	2.20
4"	3.74	2.56	5.60	3.02
5"	4.74	3.20	5.92	4.10
6"	5.70	4.10	7.52	5.46
7"	6.96	5.00	8.75	6.28
8"	8.12	5.70	10.80	7.38
10"	12.10	7.90	16.00	11.00

内外牙
Internal and external teeth



内外牙 Internal and external teeth	2"	3"	4"	5"	6"	7"	8"
内牙1/4 外牙1/4 Inner tooth 1/4 Outer tooth 1/4	3.50	4.50	6.00	7.00	8.00	11.00	12.00
内牙1/8 外牙1/8 Internal teeth 1/8 External teeth 1/8	2.50	3.20	4.00	5.00	6.00	7.00	9.00
内牙1/4 外牙12 Internal teeth 1/4 External teeth 12	4.00	4.80	6.50	8.00	9.50	12.00	13.00

加厚铁内外牙(表面镀铜处理)
Thickened iron inner and outer teeth (surface copper plating treatment)



内外牙 Internal and external teeth	2"	3"	4"	5"	6"	7"	8"
内牙1/4 外牙1/4 Inner tooth 1/4 Outer tooth 1/4	3.20	4.00	5.40	7.00	8.00	10.00	11.00
内牙1/8 外牙1/8 Internal teeth 1/8 External teeth 1/8	2.60	3.20	4.00	5.00	6.00	7.50	8.00
内牙1/4 外牙12 Internal teeth 1/4 External teeth 12	3.60	4.60	6.00	7.60	9.00	11.00	12. 00
内牙1/4 外牙1/2 Internal teeth 1/4 External teeth 12	3.60	4.60	6.00	7.60	9.00	11.00	12.00

快速铜水咀 Quick copper water nozzle

快速铜水咀(加厚) Quick copper water nozzle		1"	1.3"	2"	3"	4"	5"	7"		8"	10"	12"
快速大头	1/2		1.8	2.4	3.6	4.8	6.0	7.8	9.8	11.8	18.0	23.0
	3/8		1.8	2.4	3.6	4.6	5.6	7.5	9	11.0	18.0	23.0
快速小头	1/2	1.3		2.4	3.6	4.8	5.8	7.8	9.8	11.8		
	3/8NPT	1.0		1.6	2.8	3.8	4.8	5.5	7	8.0	18.0	23.0
快速大头	1/8NPT		2.35	3.6	4.8	6.4	7.6	9.6		14.0	20.0	24.0
	1/4NPT	1.7	2.5	3.6	4.8	6.4	7.6	9.6		14.0	20.0	24.0
快速小头	1/4NP	1.5		3.6	4.8	6.4	7.6	9.9		14.0		
	1/8			2.5	3.8	5.0	6.5	8		12.0		
快速大头	M12粗		2.0	2.8	4.0	5.2	6.5	8		12.0		
	M12细		2.5	3.4	4.6	6.0	7.5	9		13.0		
快速大头	3分		3.0	5.0	7.0	9.0	11.0	13.0	17.0	20.0		

倒角刀
Chamfer knife

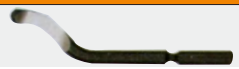
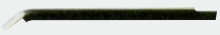


规格 specifications	镀钛 Titanium plating	1刃伊海 1 Blade Yihai	镶合金 1 Blade Yihai
10x8x50	39.00	30.00	
12x10x56	43.00	32.00	
16x10x60	47.00	42.00	60.00
20x10x63	52.00	60.00	80.00
25x10x67	74.00	80.00	100.00
30x10x71	100.00	120.00	110.00
40x12x80	182.00	250.00	140.00
50x12x100	300.00	420.00	220.00
60x16x100	456.00	610.00	320.00

规格 specifications	托普（白钢） Top (white steel)	3刃伊海 3 Blade Yihai	60°
6.3x4x45	18.00	24.00	17. 00
8x6x50	22.00	24.00	21.00
10x6x50	23.00	30.00	29.00
12. 4x8x56	26.00	34.00	31.00
16.5x10x60	29.00	46.00	33.00
20.5x10x63	36.00	66.00	44.00
25x10x67	52.00	88.00	57.00
31x2x71	78.00	130.00	88.00
35	106.00		
40x12x80	136.00	260.00	170.00
50x16x100	230.00	440.00	300.00
60x16x90	366.00	69000	490 00

去毛刺・精密修边刀工具系列

Deburring and precision edge trimming tool series

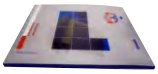
名称 name	型号 model	产品用途 Uses	图片 picture
S10	BS1010	塑料、铝和钢件、内圆孔边、直边、曲边 Plastic, aluminum, and steel parts, inner circular hole edges, straight edges, curved edges	
S10镀钛	BS1012	BS1010升级版，含钴镀钛，研磨材料 BS1010 upgraded version, cobalt plated titanium, abrasive material	
S150	BK3010	加工直径为15mm小孔塑料、夹缝、铝和塑胶 Processing small hole plastic with a diameter of 15mm, seam, aluminum, and plastic	
S150镀钛	BK3101	BK3101升级版，含钴镀钛，研磨材料 BK3101 upgraded version, cobalt plated titanium, abrasive material	
S100含钴	BS1018	不锈钢、硬塑、合金钢等硬质材料 Hard materials such as stainless steel, hard plastic, and alloy steel	
S20	BS2010	黄铜、铁等，左右手可用，双向使用 Brass, iron, etc., available with both hands, bidirectional use	
S20镀钛	BS2012	BS2010升级版，含钴镀钛刀片，不锈钢材料 BS2010 upgraded version, with cobalt plated titanium blades, made of stainless steel material	
S101	BK1010	各种材质上的直边精密修边 Precision trimming of straight edges on various materials	
S202	BK2010	黄铜和铸铁的细边精密修边 Fine edge precision trimming of brass and cast iron	
S30	BS3010	多功能型, 内侧，外侧孔 Multifunctional, inner, outer hole	
S60	B56001	交叉去毛刺. 交叉孔去毛刺 Cross deburring. Cross hole deburring	
S35	BS3510	大多数材料的直边修边 Straight edge trimming for most materials	
BD661	BD6610	交叉孔去毛刺 Cross hole deburring	
BD501	三角BD5010	配SC1300三角刮刀快速完成刮削工序 Equipped with SC1300 triangular scraper to quickly complete the scraping process	
N80	圆BN8010	配DB1000薄板、小凸边双面修边加工范围1-12mm Equipped with DB1000 thin plate, small convex edge double-sided trimming processing range 1-12mm	
RD系列	BC6301	手用内孔倒角刀，直径6/8/10/12/16 Hand used inner hole chamfering knife, diameter 6/8/10/12/16	
	BC8301		
	BC1041		
	BC1651		
	BC1251		
NB-1	NB1000	塑料大柄，直边，圆孔，不规则曲边 Plastic handle, straight edge, round hole, irregular curved edge	
EO-2	EO2000	塑料大柄，直边，圆孔，轻便，可夹在口袋上 Plastic handle, straight edge, round hole, lightweight, can be clamped on a pocket	
NG-1	NG1000	塑料包胶柄，手感舒适，直边， 圆孔，不规则曲边 Plastic wrapped handle, comfortable to touch, straight edge, round hole, irregular curved edge	
RB-1	RB1000	铝合金柄，使用寿命更长久 Aluminum alloy handle for longer service life	
SC-13	三角SC1300	三角形毛刺刮刀，快速完成刮削工序 Triangle burr scraper, quickly completing the scraping process	
DB-1	DB1000	配BN8010去除铁板两边的毛刺，带护手 Equipped with BN8010 to remove burrs on both sides of the iron plate, with hand protection	

砂轮磨头	牙科专用砂轮	带柄砂轮	带柄砂轮	气动小砂轮	带柄砂轮	弹性带柄砂轮	抛光系列
O03	O03	O05	O05	O06	O06	O07	O08
							
砂轮磨头 高档陶瓷带柄砂轮磨头 抛光研磨	砂轮磨头 牙科专用砂轮 抛光研磨	砂轮磨头 带柄砂轮 抛光研磨	砂轮磨头 带柄砂轮特殊型 抛光研磨	砂轮磨头 气动小砂轮 抛光研磨	砂轮磨头 带柄砂轮 抛光研磨	砂轮磨头 弹性带柄砂轮 抛光研磨	羊毛轮 羊毛制品抛光系列 抛光研磨

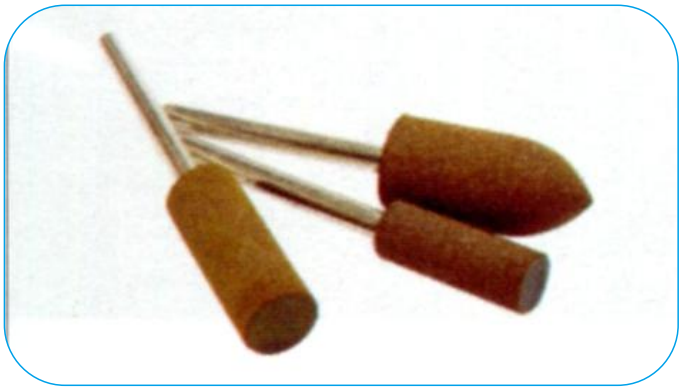
抛光系列	精油石	精油石	钻石磨棒	研磨棒	斜挫刀	挫刀	钻石膏
O09	O10	O11	O13	O14	O15	O17	O17
							
羊毛轮 其它羊毛轮系列 抛光研磨	精油石 黑牛牌超精油石 硬化处理	精油石 犀利盾纤维油石 研磨抛光	钻石磨棒 精度高、磨削快 研磨抛光	研磨棒 钻石、氮化硼内孔研磨棒 研磨抛光	斜挫刀 钻石平斜锉刀 研磨抛光	挫刀 钻石大板锉刀 研磨抛光	钻石膏 标准规格 研磨抛光

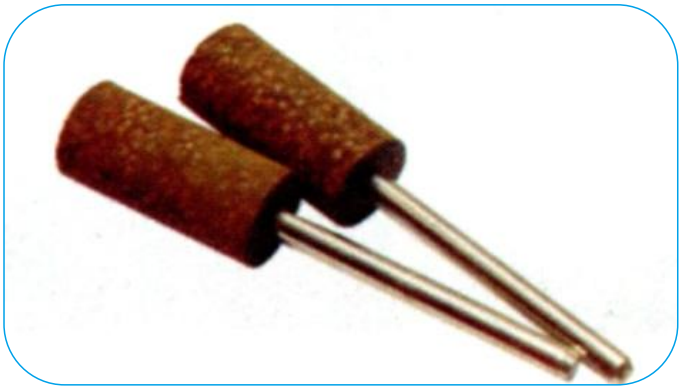
钨钢工具	单石修刀	小电磨	研磨机	研磨机	刻磨机	刻磨机	刻磨机
O18	O18	O19	O19	O19	O21	O21	O21
							
钨钢工具 适用于钨钢工具研磨成型用 研磨抛光	单石修刀 适用于无心、圆筒、平面研磨 研磨抛光	小电磨 AP-235旋转高精密小电磨 研磨抛光	超音波振动研磨机 AR-108单功能型单功能实用型 研磨抛光	双功能电源型 AR-600（E）双功能强力型 研磨抛光	气动刻磨机 适用于精密研磨及修整 研磨抛光	高精密型 适用于精密研磨及雕刻 研磨抛光	工业级高扭力型 适用于清除毛边倒角、铣磨 研磨抛光

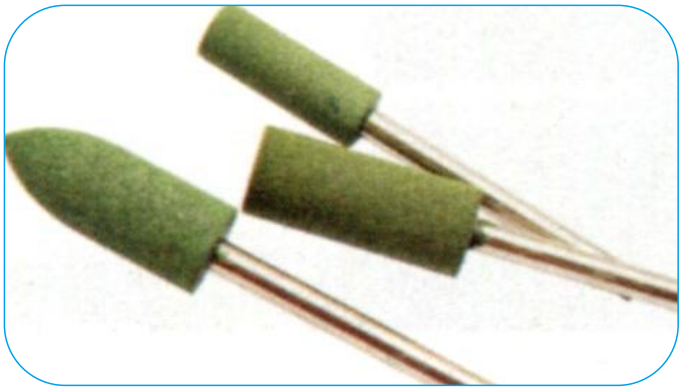
气动刻磨机	研磨机	刻磨机	刻磨机	研磨机	气动继磨机	气动继磨机	气动继磨机
O22	O22	O22	O22	O22	O23	O23	O23
							
高扭力型 适用于精密研磨及修整作业 研磨抛光	90° 平面研磨机 适用于平面研磨倒角及修整 研磨抛光	45° 平面刻磨机 适用于修刀磨沟槽、研磨 研磨抛光	45° 弯头刻磨机 适用于修刀磨沟槽、研磨 研磨抛光	平面研磨机 适用于大平面研磨抛光 研磨抛光	涡轮式气动超声波机 适用于模具细微部分加工 研磨抛光	涡轮式气动超声波 适用于高效率及大面积研磨 研磨抛光	左右横摆气动锉磨机 适用于模具浅沟、骨位、深肋 研磨抛光

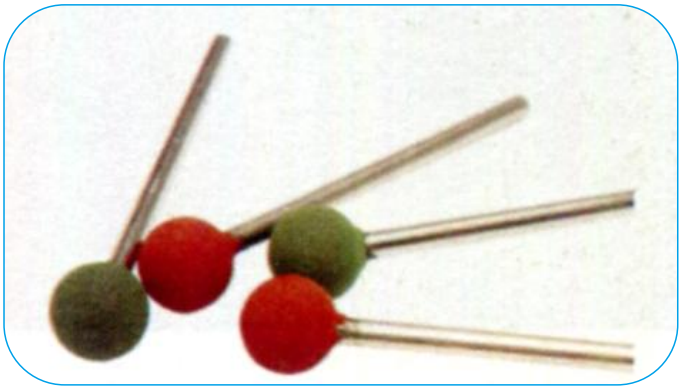
气动继磨机	气动继磨机	气动继磨机	气动继磨机	气动继磨机	砂纸	砂纸	砂纸
O23	O24	O24	O24	O24	O27	O27	O27
							
风叶式气动超声波 适用于模具细微部分研磨 研磨抛光	气动横摆研磨机 适用于大平面快速研磨修边处理 研磨抛光	气动锉刀机 适用于各种铸件或零件清除毛边及倒角 研磨抛光	吊磨超声波机 适用于修刀磨沟槽，骨位研磨作业 研磨抛光	电动工具 适用于各种研磨抛光作业 研磨抛光	红鹰砂纸 粒度120#-2000# 研磨抛光	勇士砂纸 粒度240#-5000# 研磨抛光	西德砂布卷 粒度60#-600# 研磨抛光

砂纸	油石	油石
O27	O28	O28
		
勇士砂纸 粒度40#-600# 研磨抛光	金钟油石 研磨抛光	必宝油石 研磨抛光









高档陶瓷带柄砂轮磨头

High Quality Vitrified Mounted Point With Shaft

- 本产品为陶瓷结合剂烧结砂轮。
- 主要特点耐磨耗、 磨削力强、采用优质钢轴、砂轮同心度极佳。
- 用途金属磨削、修补等。材质(PA)铬刚玉、(WA)白刚玉、 (A)棕刚玉、(GC)绿碳化碳硅、(C)黑碳。

·This product is a ceramic bond sintered grinding wheel.
Main characteristics. Strong resistance to abrasion,Grinding force,With high-quality steel shaft,Wheel good concentricity.
·Application Metal grinding, Repairing, etC.
·Material (PA) Chromium corundum,(WA) White corundum, (A) Corundum, (GC) Green siliconcarbide、(C) Black silicon carbide.

- 非标或特异规格可订做生产
- Non-standard or special specification can be customized production

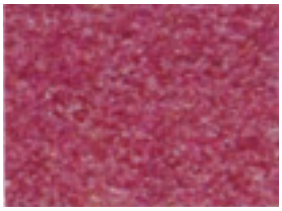


牙科专用砂轮

Dental special grinding wheel-2.34mm Shank



单位:mm
Unit


PA


C


39A

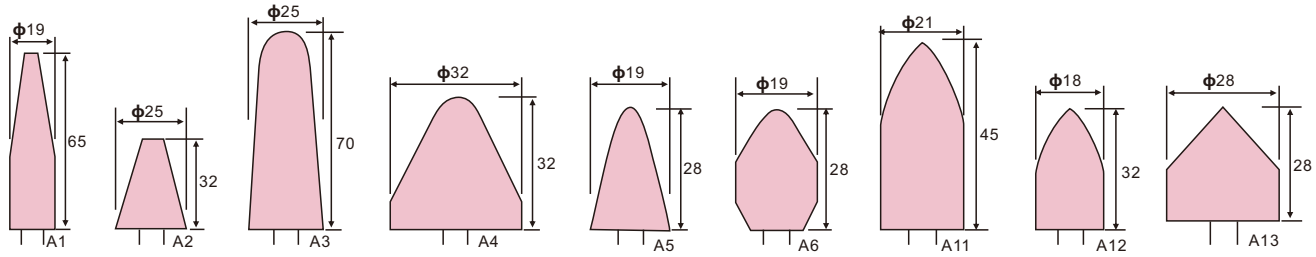

38A

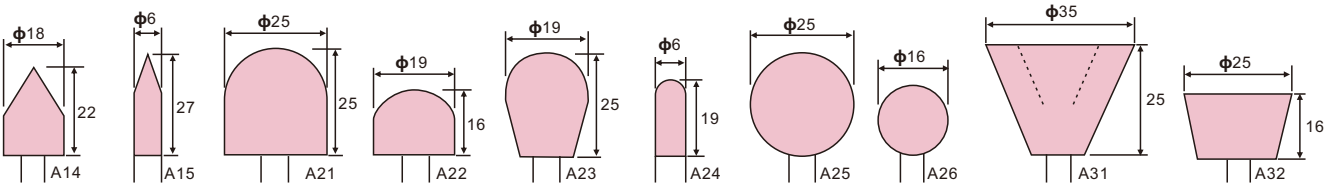

A

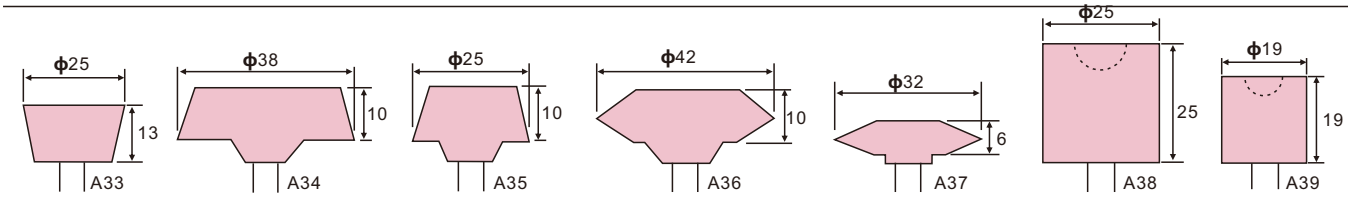

WA


GC

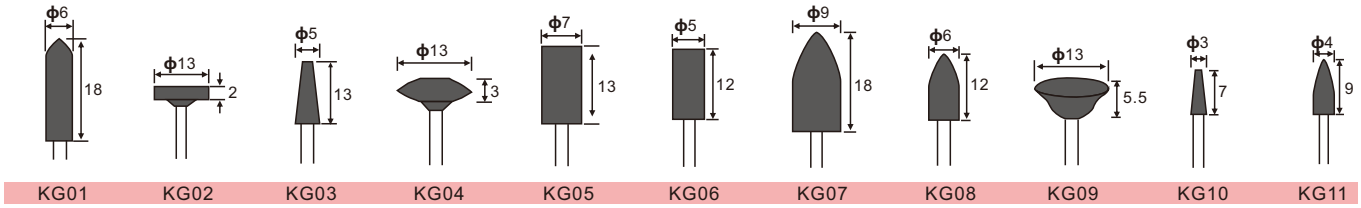
带柄砂轮A标准型
Mounted Standard Atype-6.0mm Shank



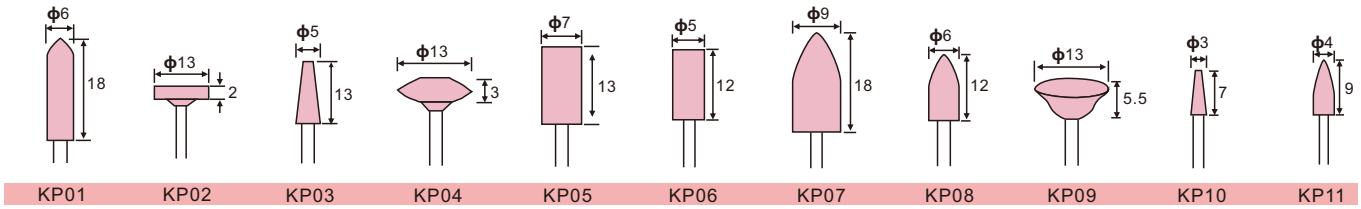




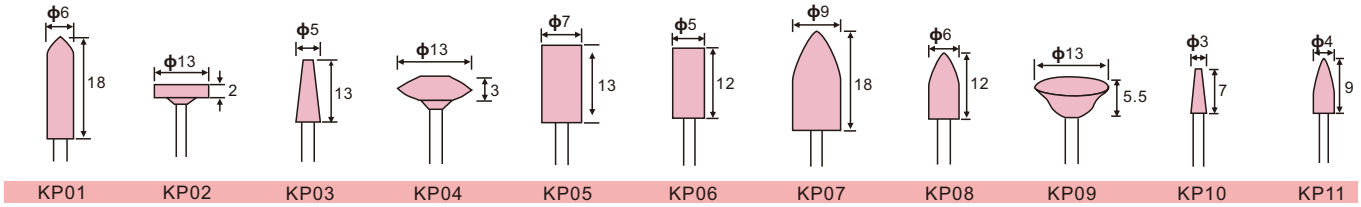
单位:mm
Unit



KG01 KG02 KG03 KG04 KG05 KG06 KG07 KG08 KG09 KG10 KG11



KP01 KP02 KP03 KP04 KP05 KP06 KP07 KP08 KP09 KP10 KP11



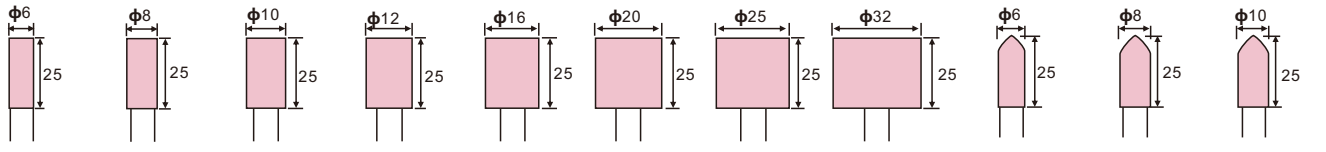
KP01 KP02 KP03 KP04 KP05 KP06 KP07 KP08 KP09 KP10 KP11

材质与颜色:绿色(GC) 白色 (WA)粉红色(PA) 桔色 (38A)、蓝色(39A1) Materials and colours: Green (GC). White (WA)、Pink (PA)、Orange (38A). Blue(39A)

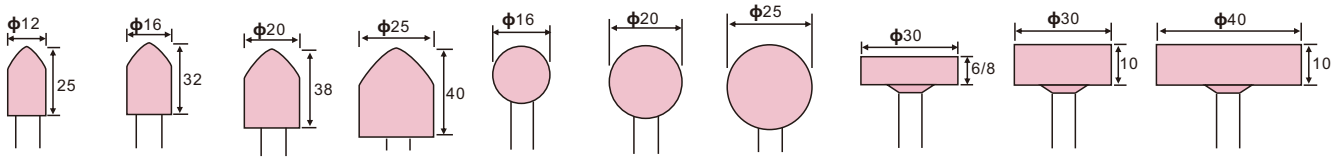
■ 带柄砂轮 Mounted Points-6.0mm Shank

单位:mm
Unit



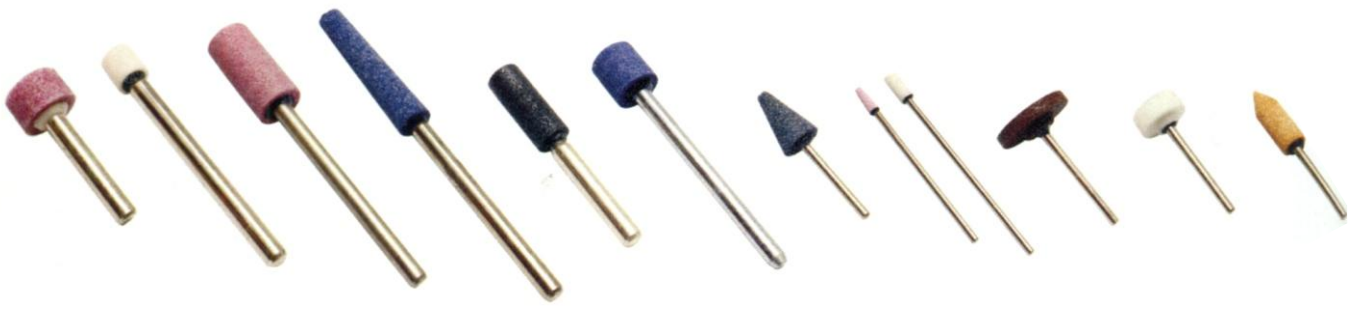


SA625* SA825* SA1025* SA1225* SA1625* SA2025* SA2525* SA3225* SK625* SK825* SK1025*



SK1225* SK1632 SK2038 SJ2540 SD16 SD20 SD25 SE30X SE3010 SE4010

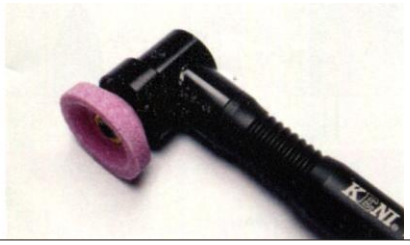
■ 带柄砂轮特殊型 Mounted Special Type



■ 气动小砂轮 Small Pneumatic Grinding Wheel

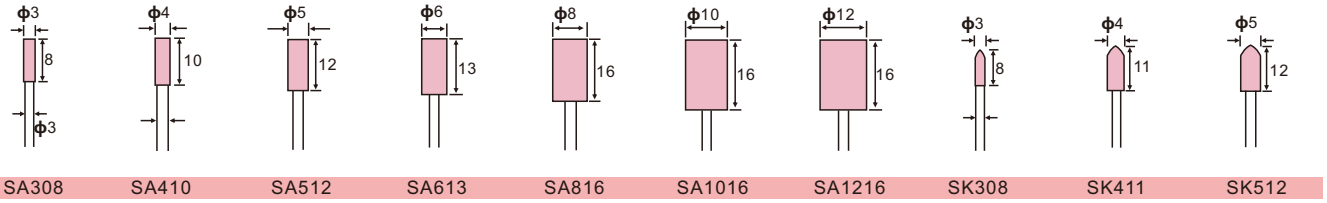
#60/Pink	#80/Pink	#100/Brwn	#120/Orange	#150/Blue	粒度颜色 Granularity Color
Fs60	Fs80	Fs100	Fs120	Fs150	编号 Order No.



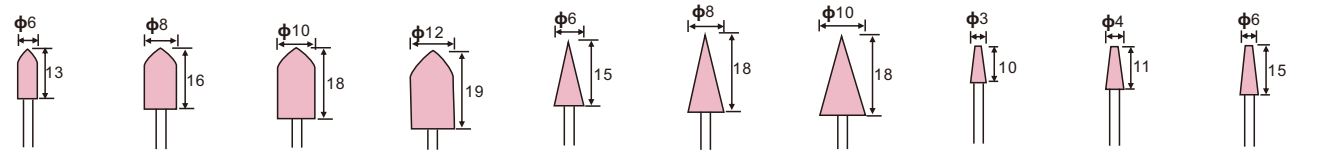


■ 带柄砂轮 Small Pneumatic Grinding Wheel

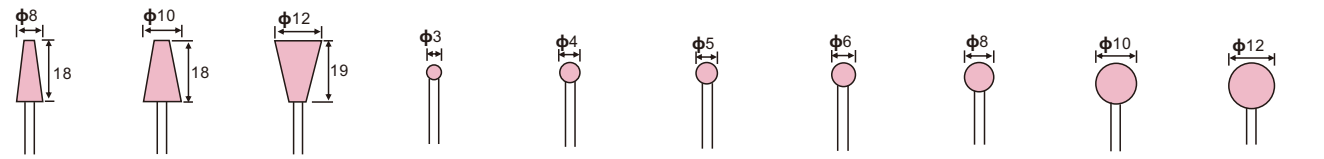




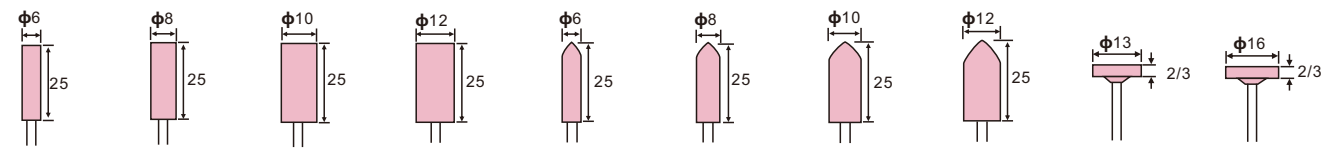
SA308 SA410 SA512 SA613 SA816 SA1016 SA1216 SK308 SK411 SK512



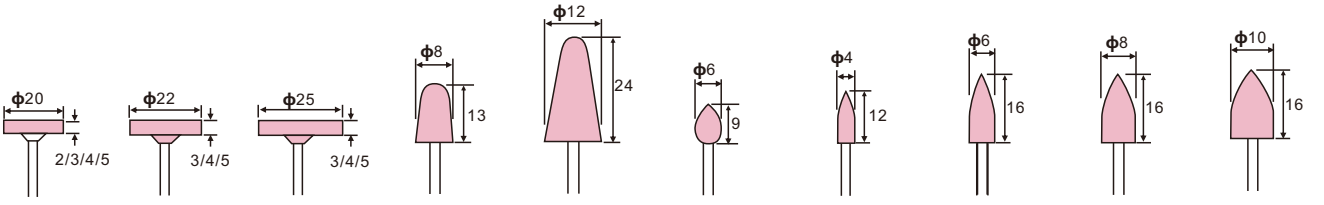
SK613 SK816 SK1018 SK1219 SP615 SP818 SP1018 SL310 SL411 SL615



SL818 SL1018 SN1219 SD3 SD4 SD5 SD6 SD8 SD10 SD12



SA625 SA825 SA1025 SA1225 SK625 SK825 SK1025 SK1225 SE13X SE16X



SE20X SE22X SE25X SR813 SR1224 SS609 SJ412 SJ616 SJ816 SJ1016

说明：标准柄径为**3.0mm**，其它柄径为**2.34mm**，请指明订购。
Noet:3.0mm shank is standard,others 2.34mm depend on request.

弹性带柄砂轮 Elastic Mounted Points

・弹性带柄砂轮分为三种海棉砂轮（ #120)、牛皮砂轮(#180)、橡胶砂轮(#240#)

•Elastic Mounted Points is divided into three types. Rubberize Point (# 120), Resinoid Point (# 180),Resinoid Point (# 240)

・主要特点：弹性带、柄砂轮可以根据被加工表面工件的精度要求,选用不同的磨料粒度，可以达到不同的表面光洁度要求。

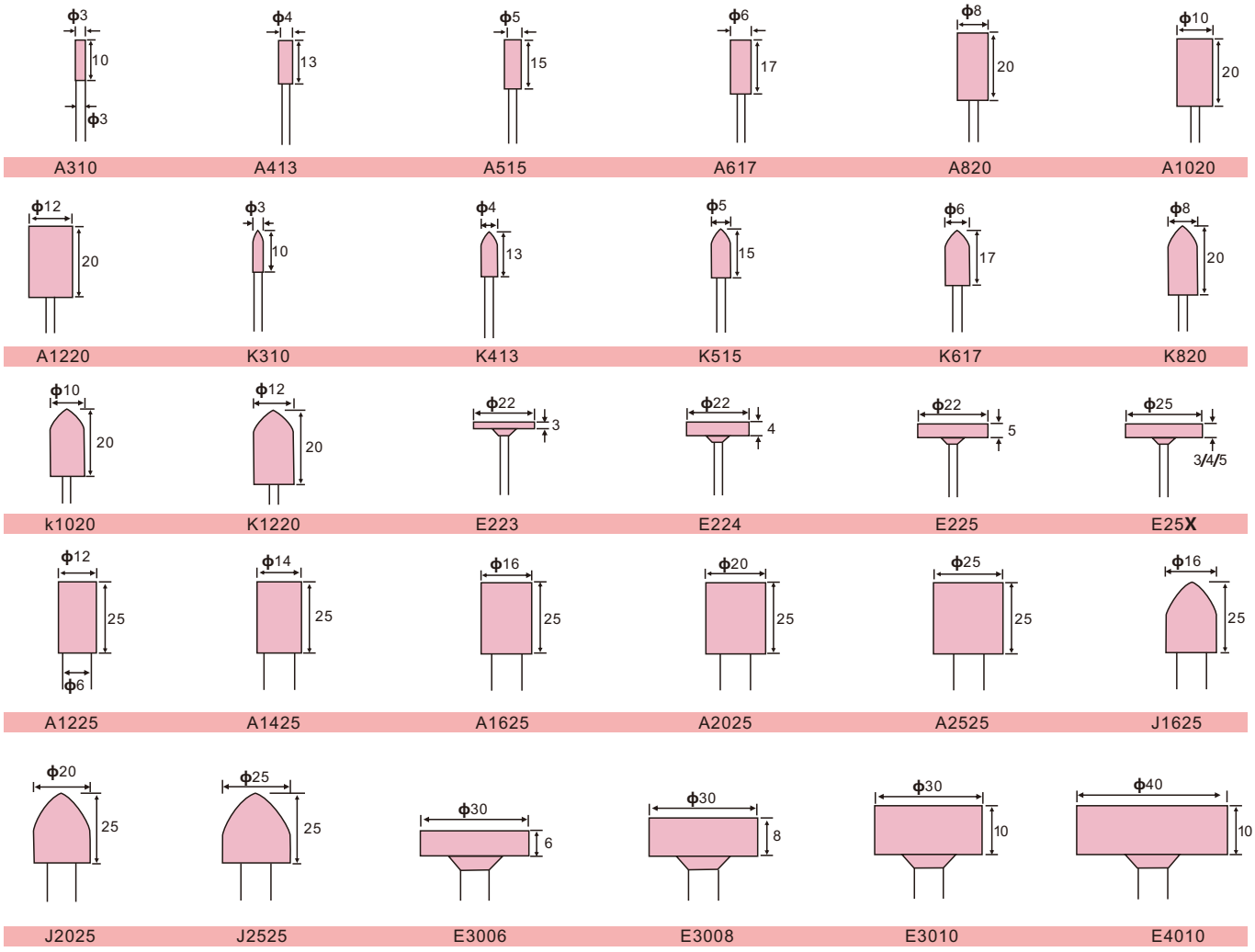
·Main features:Elastic Mounted Points can be according to the accuracy requirement of the surfaceof workpieces, choose different abrasive granularity, can meet the requirements of different surface finish.

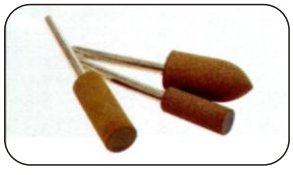
・用途主要：用在模具粗加工后的表面抛光、铝合金制品、不锈钢、金银首饰及其它有色金属表面的抛光。

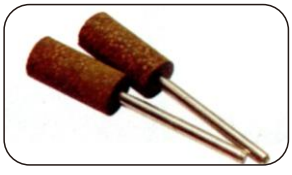
·USES Mainly used in the mold surface polishing after rough machining, aluminum alloy products,stainless steel, gold and silver jewelry and other non-ferrous metal surface polishing

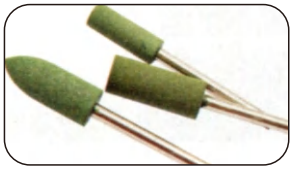


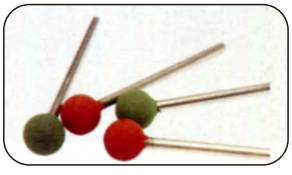
■ 弹性带柄砂轮示意图 Elastic Mounted Points Schematic Diagram




牛皮砂轮 Resinoid Point


海棉砂轮 Rubberize Point


橡胶砂轮 Rubber wheel


特殊款 Special Section

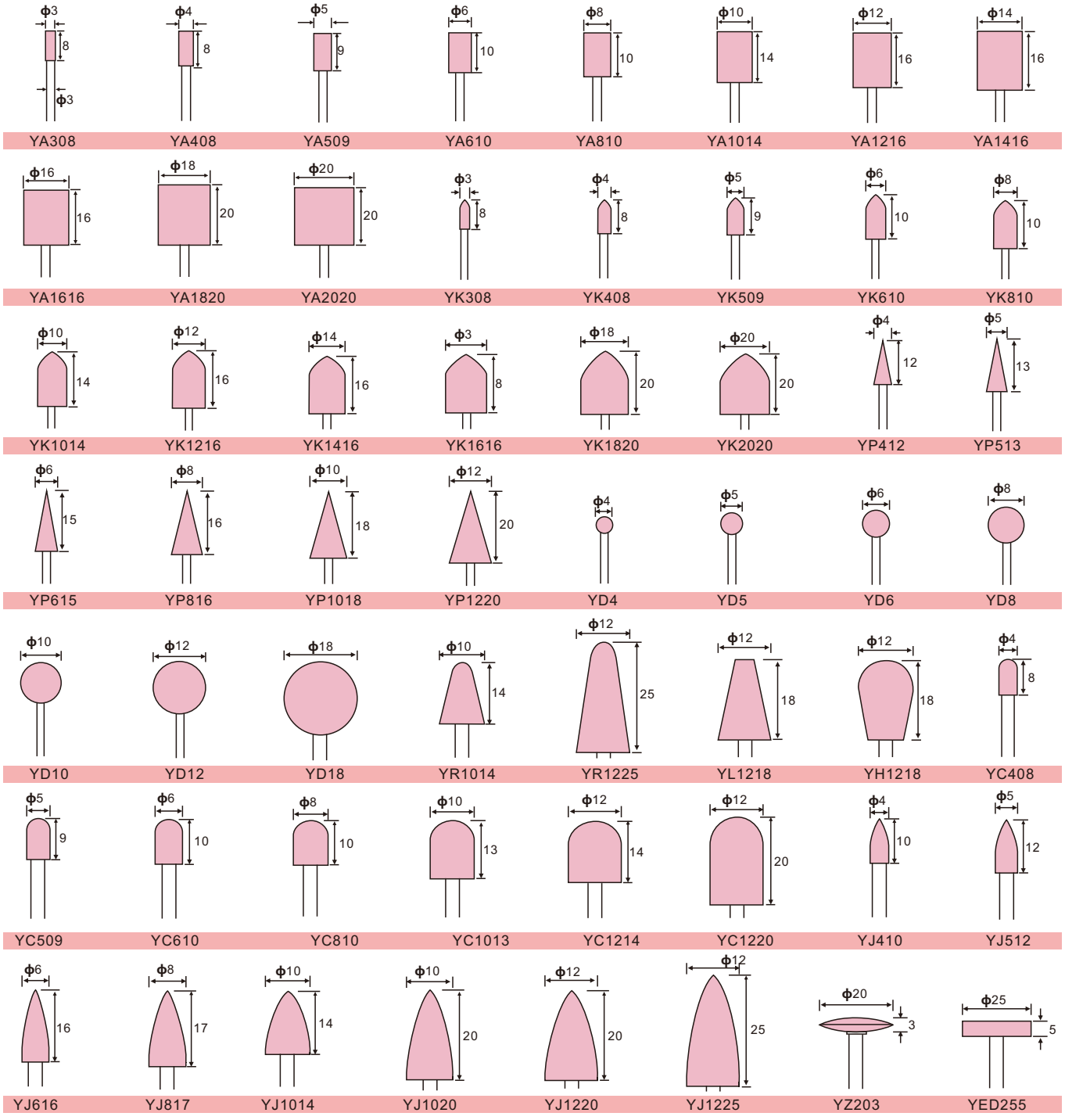
羊毛制品抛光系列 Felt products Grinding Series

・本羊毛制品抛光系列材料采用进口百分之百纯澳毛制作，不含其它胶水及原料，其硬度靠羊毛自身密度支撑，在使用过程中，出光效果高，光洁度好，耐抛等优点。

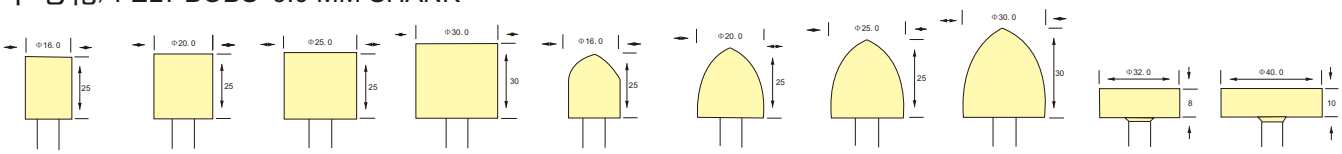
•The wool polishing series of materials imported 100%pure wool production,with out glue andother materials its hardness by the density of wool itself support the use of the process,the optical effect of a high finish and good resistance to polishing and so on.



■ 羊毛轮 Felt Bobs-3.0mm、2. 34mm Shank

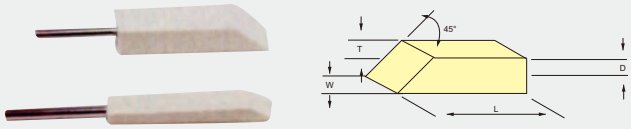
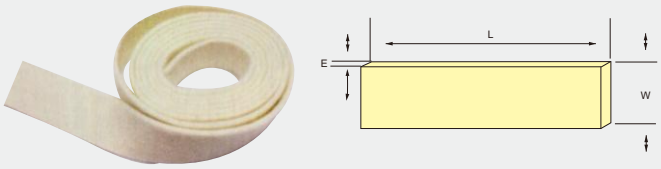


羊毛轮/FELT BOBS-6.0 MM SHANK



YA1625	YA2025	YA2525	YA3030	YK1625	YK2025	YK2530	YK3030	YE3208	YE4010

其他羊毛制品/OTHER FELT PRODUCTS

实图物/REAL FIGURE	尺寸(mm) Dimensions(mm)	Order No.
	6Wx6Tx45Lx3D	YT06
	8Wx8Tx45Lx3D	YT08
	10Wx10Tx45Lx3D	YT10
	12Wx12Tx45Lx3D	YT12
	25Dx3Ex1.8K	YE253
	25Dx4Ex1. 8K	YE254
	25Dx5Ex1.8K	YE255
	20Wx1Ex1000L	YG 201 1
	20Wx2Ex1000L	YG 2021
	20Wx3Ex1000L	YG2031
	25Wx2Ex1000L	YG2521
	25Wx2Ex1500L	YG2522
	25Wx3Ex1500L	YG2532
 轴柄/Mandrel For Felt Disc	D2.34mm	KB234
	D3.0mmd	KB300
	3.0mm(硬钢)	KB300A



黑牛牌超精油石/blackcow Super Fine Oil Stone
黑牛牌铁工油石/blackcow Blacksmith Oil Stone
黑牛牌粗目油石/bl Ackcow Coarse Mesh Oil Stone
红宝油石/ruby Oil Stone
犀利盾纤维油石/ceraton Ceramic Fiber Stone
迷你纤维油石/mini Ceramic Fiber Stones
油石夹具/tool Holders

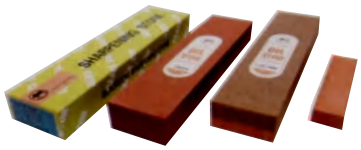
黑牛牌超精油石/Black Bull Super Essential Oil Stone



黑牛牌超精油石主要用来去除各种模具EDM加工后之硬化表层。
The Black Bull Brand Ultra Essential Oil Stone Is Mainlyused To Remove The Hardened Surface Layer Of Various Moldsafter Edm Processing.

颜色 colour	粒度 granularity	规格型号 Specification and model	包装 package	编号 number
白色 white	#150 #180	1/4x1/8x6"	36PCS	BCO063
	#220 #320	1/2x1/8x6"	24PCS	BCO133
	#400 #600	1/2x1/4x6"	12PCS	BCO136
咖啡色 coffee	#150 #180	1/4x1/8x6"	36PCS	BCS063
	#220 #320	1/2x1/8x6"	24PCS	BCS133
	#400 #600	1/2x1/4x6"	12PCS	BCS136
白色 white	#800 #1000	1/4x1/8x6"	36PCS	BCH063
	#1200 #1500	1/2x1/8x6"	24PCS	BCH133
	#2000	1/2x1/4x6"	12PCS	BCH136

黑牛牌铁工油石



黑牛牌铁工油石主要用于切削工具、冶具、夹具等之修饰、细磨、精磨加工或毛边处理。
The Black Bull brand iron working oil stone is mainly used for the decoration, fine grinding, precision grinding or rough edge treatment of cutting tools, metallurgical tools, fixtures, etc.

规格型号 Specification and model	粒度 granularity	编号 number
200x50x25（单面）	#80 #100 #120 #150 #240 #320 #400 #600#800 #1000 #1200 #1500 #2000 #3000	BCD821
200x50x25（双面）	#120 #400	BCS821
100x25x13	#80 #100 #120 #150#240 #320 #400# 600#800#1000 #1200 #1500 #2000 #3000	BCS41B

粗目油石
Coarse grained oilstone



粗目油石广泛应用于模具制造、砂轮修磨钢丝轮磨利等， 本产品耐用，高效，自锐性好!
Coarse grained oilstone is widely used in mold manufacturing, grinding wheel grinding, steel wire wheel grinding, etcDurable, efficient, and self sharpening!

规格型号 Specification and model	编号 number
200x50x25	BCC821
200x25x25	BCC41B

红宝油石
Red Treasure Oil Stone

红宝油石产品程攻瑰红，经高温烧结而成，结构紧密而细腻，且有很高的硬度和强度。在磨削工件时，能在较长时间内保持锐利的刃口和稳定的几何形状。适应于加工韧性高的淬火钢、合金钢、精密量具及仪表零件等光洁度要求高的工件。非标规格需订做请说明。

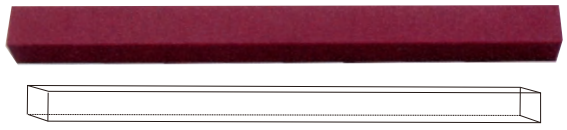
The Red Treasure Oil Stone Product, Chenggong Rose Red, Is Made By High-temperature Sintering, With A Compact And Delicate Structure, And High Hardness And Strength. When Grinding Workpieces, They Can Maintain Sharp Edges And Stable Geometry For A Long Timeshape. Suitable For Processing Workpieces With High Smoothness Requirements Such As Quenched Steel, Alloy Steel, Precision Measuring Tools, And Instrument Parts With High Toughness. Non Standard Specifications Require Customization. Please Specify.

软性擦磨油石
Soft abrasive stone



软性擦磨油石适用于金属、木材、油漆、塑料、橡胶、不锈钢和纸张表面清洁及拉纹，具有不损伤工件表面，不留污渍等神奇作用。
Soft Abrasive Stone Is Suitable For Metal, Wood, Paint, Plastic, Rubber, Stainless Steel, And Paper The Surface Is Clean And Textured, With Magical Effects Such As Not Damaging The Surface Of The Workpiece And Leaving No Stains.

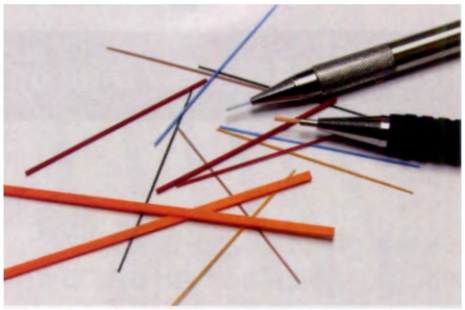
尺寸 size	粒度 granularity	编号 number
80x50x20	#30	SM852030
80x50x20	#60	SM852060
80x50x20	#120	SM852120
80x50x20	#240	SM852240

实图物/REAL FIGURE	尺寸(mm) Dimensions(mm)	Order No.
	200x50x25	HBS821C
	100x25x13	HBS2513
	100x20x10	HBS2010
	100x10x6	HBS106
	100x10x5	HBS105
	100x10x4	HBS104
	100x10x3	HBS103
	100x10x2	HBS102
	100x6x3	HBS63
	100x6x2	HBS62
	100x4x2	HBS42
	100x10x10	HBS1010
	100x8x8	HBS88
	100x6x6	HBS66
	100x4x4	HBS44
	100x2x2	HBS22
	100x10三角	HB5J10
	100x8三角	HBSJ8
	100x6三角	HBSJ6
	100x4三角	HBS J4
	100x3三角	HBSJ3
	100x10圆	HBSD10
	100x8圆	HBSD8
	100x6圆	HBSD6
	100x5圆	HBSD5
	100x4圆	HBSD4
	100x3圆	HBSD3
	100x2圆	HBSD2

迷你纤维油石

迷你纤维油石可适用于各种模具之研磨及各种零件之精细抛光。
尤其是雕刻部位之加工，微小内部，模具角部精细抛磨，以及
各种微细或复杂部位之加工。

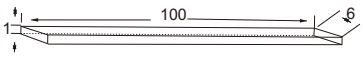
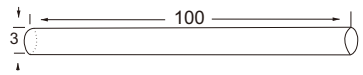
Mini Fiber Oilstone Is Suitable For Grinding Various Molds And Fine Polishing Various Parts.especially For The Processing Of Carving Parts, Fine Polishing Of Small Internal Parts And Mold Corners, And Processing Of Various Micro Or Complex Parts.



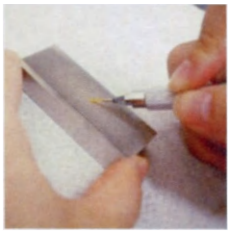
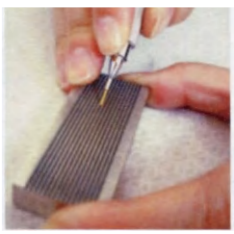
使用纤维油石时请将工具与工件成30-45度，端面研磨效果最佳。
When using fiber oilstone, please align the tool with the workpiece at an angle of 30-45 degrees to achieve the best end grinding effect.

粒度 granularity	使用建议 Usage suggestions
#180 #250 #280	模具放电加工后之硬化表层去除及机械切削粗糙刀痕之去除 Removal of hardened surface layer and removal of rough tool marks in mechanical cutting after mold discharge machining
#360 #400	细微加工痕迹之去除及一般研磨 Removal of Minor Processing Marks and General Grinding
#700 #1000 #1200	精密研磨或镜面处理前之抛光 Polishing before precision grinding or mirror treatment
3.0mm圆柱/Round	可搭配刻磨机当成研磨棒使用(长度勿超过50mm长)，亦或将之磨尖用于微角落或窄缝处之研磨 It can be used with a grinding mill as a grinding rod (not exceeding 50mm in length), or it can be sharpened for grinding at small corners or narrow seams

犀利盾纤维油石 Sharp Shield Fiber Oil Stone

规格型号 Specification and model	尺寸 size	粒度 size	颜色 colour	编号 number
	1x4x10	#180	加啡 Add morphine	CSC1004
		#250	橙色 orange	CSO1004
		#280	黑色 black	CSD1004
		#360	海军蓝 Navy Blue	CSN1004
		#400	浅蓝 Light blue	CSB1004
		#700	黄色 yellow	CSY1004
		#1000	粉红 pink	CSP1004
		#1200	红色 red	CSR1004
	1x6x100	#180	加啡 Add morphine	CSC1006
		#250	橙色 orange	CSO1006
		#280	黑色 black	CSD1006
		#360	海军蓝 Navy Blue	CSN1006
		#400	浅蓝 Light blue	CSB1006
		#700	黄色 yellow	CSY1006
		#1000	粉红 pink	CSP1006
		#1200	红色 red	CSR1006
	1x10x100	#180	加啡 Add morphine	CSC1010
		#250	橙色 orange	CSO1010
		#280	黑色 black	CSD1010
		#360	海军蓝 Navy Blue	CSN1010
		#400	浅蓝 Light blue	CSB1010
		#700	黄色 yellow	CSY1010
		#1000	粉红 pink	CSP1010
		#1200	红色 red	CSR1010
	3x100	#180	加啡 Add morphine	CDC30
		#250	橙色 orange	CDO30
		#280	黑色 black	CDD30
		#360	海军蓝 Navy Blue	CDN30
		#400	浅蓝 Light blue	CDB30
		#700	黄色 yellow	CDY30
		#1000	粉红 pink	CDP30
		#1200	红色 red	CDR30

规则尺寸 Regular size	粒度与编号 Grain size and numbering				使用夹具 Using fixtures
	#250	#400	#700	#1200	
0.5x0.5x50L	MOS055	MOS055	MOS055	MOS055	XH007
0.7x0.7x50L	MOS075	MOS075	MOS075	MOS075	XH009
0.9x0.9x50L	MOS095	MOS095	MOS095	MOS095	XH013
1x2x100L	MOS121	MOS121	MOS121	MOS121	XH200




油石夹具 Oilstone fixture

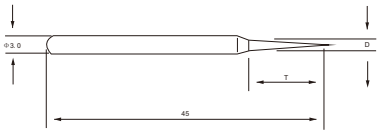
编号 number	可夹持尺寸 Clamping size	适用 suit
XH007	Square0.5x0.5	迷你纤维油石 Mini fiber oilstone
XH009	Square0.7x0.7	迷你纤维油石 Mini fiber oilstone
XH200	Flat2x1	迷你纤维油石 Mini fiber oilstone
XH013	Square0.9x0.9	迷你纤维油石 Mini fiber oilstone
XH22	Round3.0	纤维油石 Fiber oilstone
XH041	平形/Flat4x1	纤维油石 Fiber oilstone
XH061	平形/Flat6x1	纤维油石 Fiber oilstone
XH101	平形/Flat10x1	纤维油石 Fiber oilstone
XH062	平形/Flat6x2-6x3	一般油石 General oilstone
XH133	平形/Flat13x3	一般油石 General oilstone
XH136	平形/Flat13x6	一般油石 General oilstone

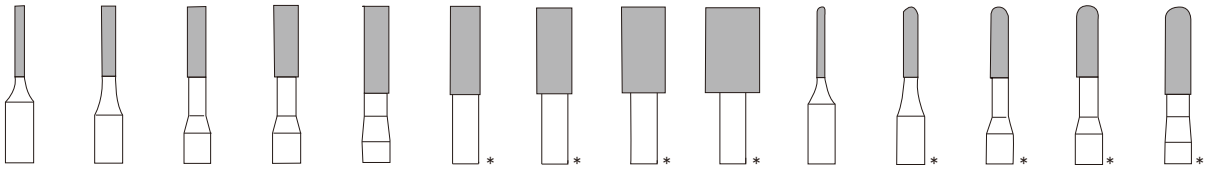
主要特点切削力强、 耐磨、不掉皮。用途加工打磨硬质合金，各种模具、石材、玻璃、玉器、宝石、及各种高硬脆性材料的理想产品。
The Main Characteristics Are Strong Cutting Force, Wear Resistance, And No Peeling. Ideal For Processing And Polishing Hard Alloys, Various Molds, Stones, Glass, Jade, Gemstones, And Various High Hardness Brittle Materials.

钻石磨棒 Diamond grinding rod

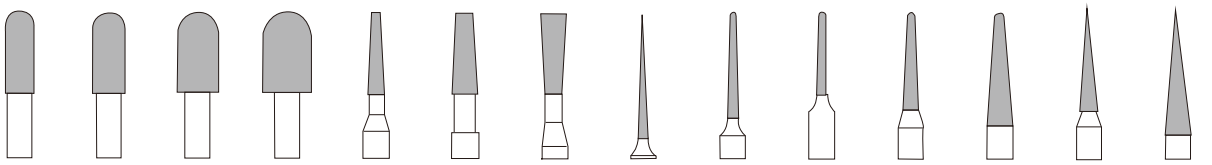


主要特点该产品具有精度高磨削速快，产生热量少使用寿命长、综合成本低的特点。用途加工打磨硬质合金、各种模具、石材玻璃、玉器、宝石牙齿骨骼及各种高硬脆材料的理想产品。
The Main Features Of This Product Are High Precision, Fast Grinding Speed, Low Heat Generation, Long Service Life, And Low Overall Cost. Ideal For Processing And Polishing Hard Alloys, Various Molds, Stone Glass, Jade, Gemstones, Teeth, Bones, And Various High Hardness And Brittleness Materials.

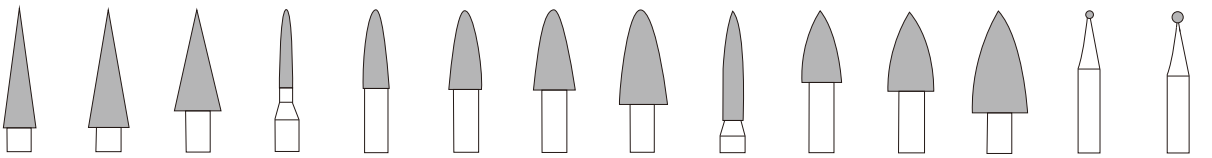




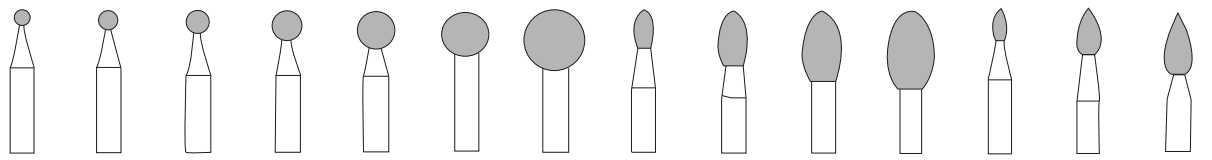
Order No.	10A	15A	20A	25A	30A	35A	40A	50A	60A	10C	15C	20C	25C	30C
ΦD	1	1. 5	2	2. 5	3	3. 5	4	5	6	1	1. 5	2	2. 5	3
T	8	8	8	8	10	10	10	10	10	8	8	8	8	10



Order No.	35C	40C	50C	60C	20T	30T	30V	13R	14R	15R	20R	30R	20P	30P
ΦD	3. 5	4	5	6	2	3	3	1. 2	1. 5	1. 5	2	3	2	3
T	10	10	10	10	10	10	10	16	11	10	12	14	12	15



Order No.	40P	50P	60P	20F	30F	40F	50F	60F	30J	40J	50J	60J	10B	15B
ΦD	4	5	6	2	3	4	5	6	3	4	5	6	1	1. 5
T	15	15	13	10	12	10	10	12	14	9	10	13	–	–



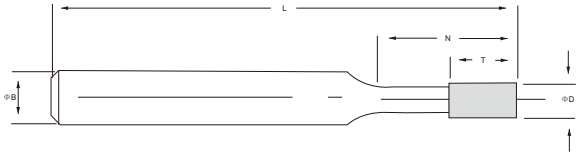
Order No.	20B	25B	30B	40B	50B	60B	80B	30Q	40Q	50Q	60Q	20S	30S	40S
ΦD	2	2. 5	3	4	5	6	8	3	4	5	6	2	3	4
T	–	–	–	–	–	–	–	5	7	9	10	4	6	8

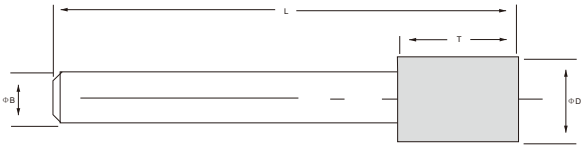
说明有*之尺寸，无法，提供2.34mm柄
Please note that there is a size of * and it is not possible to provide a 2.34mm handle

钻石、氮化硼内孔研磨棒
Diamond and boron nitride inner hole grinding rod



本产品主要用于各种内孔研磨治具研 磨或小孔径之精密研磨。
钻石适用于研磨钨钢、陶瓷、蓝宝石玻璃等。
氮化硼适用于研磨热处理硬化后之各种合金钢材。
This Product Is Mainly Used For Various Internal Hole Grinding Fixtures Or Precision Grinding Of Small Apertures.
Diamonds Are Suitable For Grinding Tungsten Steel, Ceramics, Sapphire Glass, Etc.
Boron Nitride Is Suitable For Grinding Various Alloy Steels After Heat Treatm Ent And Hardening





D	T	L	B	编号 number	粒度/钻石 Particle size/diamond	氮化硼 boron nitride
1	5	45	3	100# 150# 200# 400#	ID3010	IB3010
1.5	5	45	3	100# 150# 200# 400#	ID3015	IB3015
2	5	45	3	100# 150# 200# 400#	ID3020	IB3020
2. 5	5	45	3	100# 150# 200# 400#	ID3025	IB3025
3	5	45	3	100# 150# 200# 400#	ID3030	IB3030
3.5	5	45	3	100# 150# 200# 400#	ID3035	IB3035
4	5	45	3	100# 150# 200# 400#	ID3040	IB3040
5	8	45	3	100# 150# 200# 400#	ID3050	IB3050
6	8	45	3	100# 150# 200# 400#	ID3060	IB3060
3	10	80	6	100# 150# 200# 400#	ID6030	IB6030
3.5	10	80	6	100# 150# 200# 400#	ID6035	IB6035
4	10	80	6	100# 150# 200# 400#	ID6040	IB6040
5	10	80	6	100# 150# 200# 400#	ID6050	IB6050
6	10	80	6	100# 150# 200# 400#	ID6060	IB6060
7	10	80	6	100# 150# 200# 400#	ID6070	IB6070
8	10	80	6	100# 150# 200# 400#	ID6080	IB6080
9	10	80	6	100# 150# 200# 400#	ID6090	IB6090
10	10	80	6	100# 150# 200# 400#	ID6100	IB6010
11	10	80	6	100# 150# 200# 400#	ID6110	IB6110
12	10	80	6	100# 150# 200# 400#	ID6120	IB6120



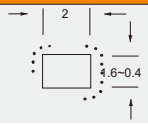
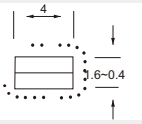
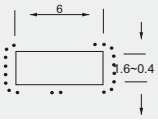
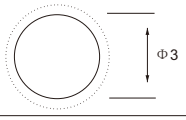


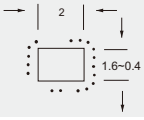
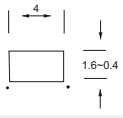
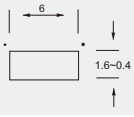
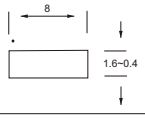


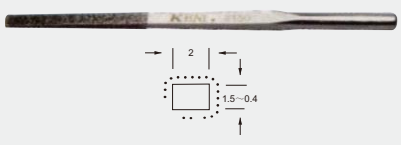
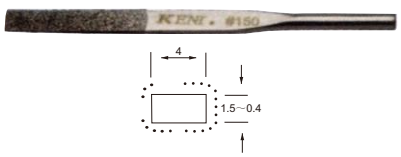
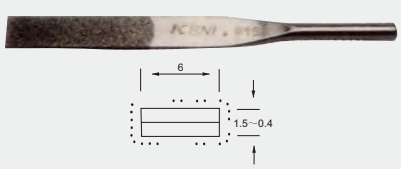


标准粒度外其它粒度请指明订购.
Please specify ordering for sizes other than standard sizes

钻石平斜锉刀
Diamond flat oblique file

单支装 Single pack	全长 entire length	钻石长 Diamond long	形状 shape	粒度 granularity	编号 number
	180	30		#200	PTF12FP
				#400	TF12VP
				#600	TF12XP
	180	30		#200	TF14FP
				#400	TF14VP
				#600	TF14XP
	180	30		#200	TF16FP
				#400	TF16VP
				#600	TF16XP
	180	50		#200	TF103FP
				#400	TF103VP
				#600	TF103X

单支装 Single pack	全长 entire length	钻石长 Diamond long	形状 shape	粒度 granularity	编号 number
	180	40		#150	CF402J
				#200	CF402F
				#400	CF402V
	180	50		#150	CF404J
				#200	CF404F
				#400	CF404V
	180	50		#150	CF406J
				#200	CF406F
				#400	CF406V
	180	50		#150	CF408J
				#200	CF408F
				#400	CF408V

MTP 120 12 PCS.SET IN PVC POUCH	尺寸 size	粒度 granularity	编号 number
		#150	MTP 12J
		#200	MTP 12F
		#300	MTP 12H
		#400	MTP 12V
		#600	MTP 12X
		#150	MTP 14J
		#200	MTP 14F
		#300	MTP 14H
		#400	MTP 1 4V
		#600	MTP 14X
		#150	MTP 16J
		#200	MTP 16F
		#300	MTP 16H
		#400	MTP 16V
		#600	MTP 16X

钻石油石 Diamond oilstone	尺寸 size	柄部材质 Handle material	编号 number
	10-2-40	塑料柄	RSH01
	5-2.5R-4-40	铁柄	RSH03
	10-230	铝柄	RSH04
	10-3-120 6-3-100 6-2 100		RS103 RS063 RS062
	4-4-100		RS044
	D3x100		RSD3

粒度:#200 #400 #600 #800 #1000 #1200 #1800 #2000 #3000 #5000
Particle size: # 200 # 400 # 600 # 800 # 1000 # 1200 # 1800 # 2000 # 3000 # 5000

钻石10件套什锦锉刀组
Diamond 10 Piece Mixed File Set

钻石砂布 Diamond emery cloth	粒度 granularity	尺寸 size	编号 number
	#120 #150 #200 #300 #400 #600 #800 #1200 #1500	50x100	ZS 105

钻石砂布 Diamond emery cloth	粒度 granularity	尺寸 size	
	#180	4x15x3 6x15x3 8x15x3 10x15x3 12x15 x 3	ZS 300

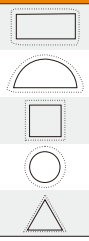
单支详图 Single support detail	形状 shape	粒度 granularity	编号 number		
		120#	ZS 301	ZS 401	ZS 501
		120#	ZS 302	ZS 402	ZS 502
		120#	ZS 303	ZS 403	ZS 503
		120#	ZS 304	ZS 404	ZS 504
		120#	ZS 305	ZS 405	ZS 505
		120#	ZS 306	ZS 406	ZS 506
		120#	ZS 307	ZS 407	ZS 507
		120#	ZS 308	ZS 408	ZS 508
		120#	ZS 309	ZS 409	ZS 509
		120#	ZS 310	ZS 410	ZS 510

不同形状尺寸请指明订购
Please specify the order for different shapes and sizes





钻石大板锉刀
Diamond board file

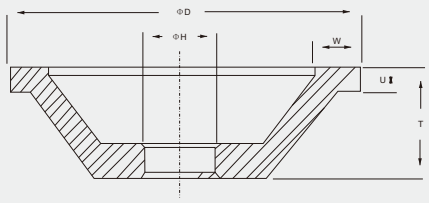
单支详图 Single support detail	形状 shape	全长 entire length	钻石长 Diamond long	钻石宽 Diamond width	粒度 granularity	编号 number
		6"	130	12~15	#120	ZS 60
		8"	175	13~18	#120	ZS 80
		10"	220	14~23	#120	ZS 100
		12"	265	15~26	#120	ZS 120

不同形状尺寸请指明订购
Please specify the order for different shapes and sizes

钻石膏 diamond paste	颗粒尺寸 particle size	相等筛目 Equal sieve size	标示颜色 Marking color	编号 number
钻石膏说明 Diamond Paste Description 1. 可耐钻石膏标准规格品为油溶性，若需水溶性钻石膏请指明订购。 2. 标准容量为5公克。 3. 若需稀释使用，本公司亦提供稀释油。 1. The standard specification of durable diamond paste is oil solubility,If you need water-soluble diamond paste, please specify the order. 2. The standard capacity is 5 grams. 3. If dilution is required, our company also provides dilution oil. 	0.5(0–1)	#28,000	灰色	ZSG 280
	1(0–2)	#14,000	军蓝色	ZSG 140
	3(2–4)	#8,000	卡其色	ZSG 080
	4.5(3–6)	#5,000	粉红色	ZSG 050
	6(4–8)	#3,000	苍绿色	ZSG 030
	8(6–10)	#2,000	黄金色	ZSG 020
	9(6–12)	#1,800	钢蓝色	ZSG 018
	13(10–16)	#1,500	紫罗兰色	ZSG 015
	15(10–20)	#1,200	绿色	ZSG 012
	17 5(15–20)	#1,000	黄铜色	ZSG 010
	25(20–30)	#800	棕褐色	ZSG 008
	35(30–40)	#600	深洋红色	ZSG 006
	50(40–60)	#400	红铜色	ZSG 004
	90(80–100)	#200	黑	ZSF 002

石微粉 Stone powder	颗粒尺寸 particle size	相等筛目 Equal sieve size	编号 number
钻石膏说明 Diamond Paste Description 1. 可耐钻石微粉乃经过精密设备严格筛选，粒度精确颗粒结晶形状统一。它适用于各种钢模、超硬合金、陶瓷、宝石、半宝石等之精密抛光或镜面抛光。 2对于某些需求更精密或均匀表面抛光之需求，请购时特别指明，本公司将提供更精密颗粒尺寸之微粉供选用。 1. The durable diamond powder has undergone rigorous screening with precision equipment, with precise particle size The crystal shape of the particles is uniform. It is suitable for various steel molds, superhard alloys Precision polishing or mirror polishing of ceramics, gemstones, semi precious stones, etc. 2.For certain requirements of more precise or uniform surface polishing, please purchase When specifically specified, our company will provide more precise particle size micro powder for Selection. 	0.5(0–1)	#28,000	ZSG 280
	1(0–2)	#14,000	ZSG 140
	3(2–4)	#8,000	ZSG 080
	4.5(3–6)	#5,000	ZSG 050
	6(4–8)	#3,000	ZSG 030
	8(6–10)	#2,000	ZSG 020
	9(6–12)	#1,800	ZSG 018
	13(10–16)	#1,500	ZSG 015
	15(10–20)	#1,200	ZSG 012
	17 5(15–20)	#1,000	ZSG 010
	25(20–30)	#800	ZSG 008
	35(30–40)	#600	ZSG 006
	50(40–60)	#400	ZSG 004
	90(80–100)	#200	ZSF 002

电铸钻石砂轮
Electroformed diamond grinding wheel

尺寸 size	D	T	W	H	U	粒度 granularity	编号 number
	100	22/35	10	20/19.05	5	#100	ZSL 100
	100	22/35	10	20/19.05	5	#150	ZSL 150
	100	22/35	10	20/19.05	5	#200	ZSL 200
	100	22/35	10	20/19.05	5	#300	ZSL 300
	100	22/35	10	20/19.05	5	#400	ZSL 400
	100	22/35	10	20/19.05	5	#600	ZSL 600

适用钨钢工具之研磨成型用
Suitable for grinding and forming tungsten steel tools



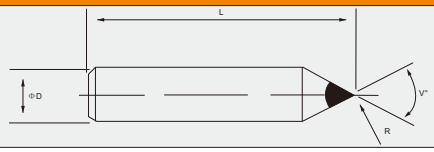


圆锥修刀
Conical trimmer





圆锥修刀用于砂轮之成形修整，或内、外弧之成形修整。
The conical trimming cutter is used for the shaping and trimming of grinding wheels, or for the shaping and trimming of inner and outer arcs.

示意图 Sketch Map	钻石原料 Diamond raw materials	钻石角度 Diamond angle	钻石端弧度 Diamond end radian	编号 number
	60°	0.02-0.03R	1/8X2"L	ZX 30
	60°	0.02-0.03R	1/4X2"L	ZX 60
	60°	0.02-0.03R	3/8X2"L	ZX100

单石修刀
Single stone trimming knife

示意图 Sketch Map	规格型号 Specification and model	钻石番数大约重量 Approximate weight of diamond number	适应砂轮 Adapt to grinding wheels	编号 number
	D8x50L	0.25CT	150x25C以下或更小 150x25C or less	ZX 25
	D10x50L	0.5CT	150-300x25 150-300x25	ZX 50
	D10x80L	#10	150x25C以下或更小 150x25C or less	ZXA10
	D10x150L	#25	150-300x25 150-300x25	ZXA 25
	D12x50L	#33	150-300x25 150-300x25	ZXA 33
	D12x80L	#50	300-450x25-40 300-450x25-40	ZXA 50
	D12x150L	#100	600以上 Above 600	ZXA 100

适用范围 scope of application
无心研磨圆筒研磨 平面研磨 砂轮尺寸300x25到500x63
Centerless grinding cylinder grinding plane grinding wheel size 300x25 to 500x63

AP-235旋转高精密小电磨

AP-235 rotary high-precision small electric mill



控制主机/Control of the host
电源/Control the host AC 90~250V,50、60Hz
输出功率/Output power 70 watt
有刷马达输出电压/A brush motor output voltage 5~32V
最大负载保电流/Maximum load current bao 3A
保险丝/Fuse 2A
尺寸/Size 192*156*98mm
净重/Net weight 800g
旋转手机（有刷）/Rotary handpiece(brush type)
转速/Speed 35000 rpm　　Torque/扭力2.9 Ncm
尺寸/Size 29*152mm　　Weight/重量260g

运用各种模具之研磨及抛光需要 精准控制转速的加工雕刻硬脆材料、或其他需要高转速的加工，石头、玻璃、宝石等之精细研磨或抛光.
The use of various molds for grinding and polishing requires precise control of rotational speed for carving hard and brittle materials, or other processes that require high rotational speed, such as fine grinding or polishing of stones, glass, gemstones, etc

超音波振动研磨机

Ultrasonic vibration grinding machine

AR-108单功能型单功能实用型

AR-108 single function single function practical type



超音波研磨单功能输出。
最有可信赖的品质及良好的操作性能。
最大40W输出，满足各种加工需求。
除了模具抛光外亦可用于电路板（PCB)之电子回路修改。

Ultrasonic Grinding Single Function Output.
The Most Reliable Quality And Excellent Operational Performance.
The Maximum Output Is 40w, Meeting Various Processing Needs.
In Addition To Mold Polishing, It Can Also Be Used For Electronic Circuit Modification Of Circuit Boards (pcbs) 笔记

AR-600(E)双功能强力型I双功能电源型

AR-600 (E) dual function powerful type I dual function power supply type



全新的设计，采用高效率微处理器使用操作性能更稳定且提升抛光效率
超音波及DC马达双输出，提供您双重功能之各种研磨及抛光作业
最大45W之超音波输出，使抛光效率之更加提升
有刷DC马达输出电压为5-30伏特，输出功率为60W

New Design With High-efficiency Microprocessor For More Stable Operation And Improved Polishing Efficiency

Dual Outputs Of Ultrasound And Dc Motor Provide You With Dual

Functions For Various Grinding And Polishing OperationsMaximum 45w Ultrasonic Output, Further Improving Polishing Efficiency

The Output Voltage Of The Brushless Dc Motor Is 5-30 Volts, And The Output Power Is 60w

运用各种模具之研磨及抛光需要 精准控制转速的加工雕刻硬脆材料、或其他需要高转速的加工，石头、玻璃、宝石等之精细研磨或抛光.
The use of various molds for grinding and polishing requires precise control of rotational speed for carving hard and brittle materials, or other processes that require high rotational speed, such as fine grinding or polishing of stones, glass, gemstones, etc

气动刻磨机/pneumatic Engraving Mill

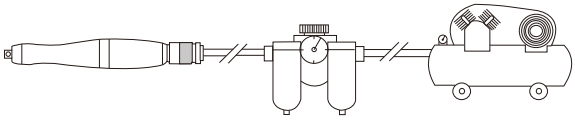
气动锉磨机/pneumatic File Mill

气动散打机/pneumatic Sanda Machine

气动平面研磨机/pneumatic Flat Grinding Machine

气动超声波研磨机/pneumatic Ultrasonic Grinding Machine





连接三点组合
Connect three point combination

润滑, 滤水，控制压力
Lubrication, water filtration, pressure control



使用需润滑
Lubrication required for use



请配戴耳罩
Please wear earmuffs



请配戴护目镜
Please wear goggles

气动刻磨机 Pneumatic engraving mill

耐用型 Durable			编号 number
	包装 packing	木盒 Wooden box	KI 600
	转速 speed	65000rpm	
	夹头 Collet	3.0mm固定式夹头 2.38mm为选购 3.0mm fixed clamp 2.38mm is optional	
	重量 weight	130g	
	全长 Full length	156mm	

低耗风量高扭力品质佳 适用于精密研磨及修整作业。
Low air consumption, high torque, and excellent quality are suitable for precision grinding and finishing operations.

静音型 Mute type			编号 number
	包装 packing	木盒 Wooden box	KI 5168
	转速 speed	65000rpm	
	夹头 Collet	可互换式夹头功能 3.0mm或2.38mm Interchangeable collet function 3.0mm or 2.38mm	
	重量 weight	76g	
	全长 Full length	140mm	

机身轻巧精密度佳适用于精密研磨及修整作业。
The body is lightweight and has excellent precision, suitable for precision grinding and finishing operations.

高精密型 High precision type			编号 number
	包装 packing	木盒 Wooden box	KI 260
	转速 speed	60000rpm	
	夹头 Collet	可互换式夹头功能 3.0mm或2.38mm Interchangeable collet function 3.0mm or 2.38mm	
	重量 weight	180g	
	全长 Full length	142mm	

精密度极佳适用于精密研磨及修整作业。
Excellent precision for precision grinding and finishing operations.

高精密型 High precision type			编号 number
	包装 packing	木盒 Wooden box	KI 380
	转速 speed	80000rpm	
	夹头 Collet	可互换式夹头功能 3.0mm或2.38mm Interchangeable collet function 3.0mm or 2.38mm	
	重量 weight	160g	
	全长 Full length	142mm	

高转速适用于精密研磨及雕刻作业。
High speed is suitable for precision grinding and carving operations.

工业级高扭力型 Industrial grade high torque type			编号 number
	包装 packing	木盒 Wooden box	KI 300
	转速 speed	350000rpm	
	夹头 Collet	3.0mm或6. 0mm	
	重量 weight	170g	
	全长 Full length		

重负荷、高扭力泛用型适于清除 毛边倒角、钨钢刀铣磨及焊接面磨除等。
The heavy-duty, high torque universal type is suitable for removing burrs, chamfers, tungsten steel milling, and welding surface grinding.

精密型 Precision type			编号 number
	包装 packing	木盒 Wooden box	KI 3BSN
	转速 speed	650000rpm	
	夹头 Collet	3.0mm固定式夹头 3.0mm fixed clamp	
	重量 weight	76g	
	全长 Full length	230mm	

机身轻便、同心度极佳适用于精密研磨及修整作业。
The body is lightweight and has excellent concentricity, suitable for precision grinding and finishing operations.

气动刻磨机 Pneumatic engraving mill

高扭力型 High torque type			编号 number
	包装 packing	塑胶盒 plastic box	KI 180
	转速 speed	65000rpm	
	夹头 Collet	3.0mm或2. 34mm	
	重量 weight	130g	
	全长 Full length	180mm	

相力大经济实用适用于精密研磨及修整作业。
Large relative force, economical and practical, suitable for precision grinding and finishing operations.

90°平面研磨机 90 ° flat grinding machine			编号 number
	包装 packing	木盒 Wooden box	KIW093N
	转速 speed	32500rpm	
	夹头 Collet	M7螺杆可锁接碗形砂轮或砂布片 M7 screw lockable bowl Grinding wheel or abrasive cloth	
	重量 weight	170g	
	全长 Full length	140mm	

适用于平面研磨倒角及焊接面之修整。
Suitable for surface grinding, chamfering, and welding surface repair.

45°平面研磨机 45 ° flat grinding machine			编号 number
	包装 packing	木盒 Wooden box	KIW123N
	转速 speed	23500rpm	
	夹头 Collet	M7螺杆可锁接碗形砂轮或砂布片 M7 screw lockable bowl Grinding wheel or abrasive cloth	
	重量 weight	180g	
	全长 Full length	153mm	

适用于平面研磨倒角及焊接面之修整。
Suitable for surface grinding, chamfering, and welding surface repair.

45° 弯头刻磨机 45 ° elbow grinder			编号 number
	包装 packing	木盒 Wooden box	KIW121N
	转速 speed	52500rpm	
	夹头 Collet	3.0mm固定式夹头 3.0mm fixed clamp	
	重量 weight	140g	
	全长 Full length	153mm	

适用于修刀磨沟槽、骨位之研磨作业。
Suitable for grinding grooves and bone positions with knives.

90°平面研磨机 90 ° flat grinding machine			编号 number
	包装	木盒 Wooden box	KID093N
	转速	根据搭配的主机转速为准 Based on the matching engine speed	
	夹头	M7螺杆可锁接碗形砂轮或砂布片 M7 screw lockable bowl Grinding wheel or abrasive cloth	
	重量	170g 170g	
	全长/搭配	158mm/电动吊磨机 158mm/electric hanging mill	

机械传动式强劲扭力适用于平面研磨倒角及焊接面之修整。
Mechanical transmission type strong torque is suitable for surface grinding, chamfering, and welding surface repair.

平面研磨机 Flat grinding machine			编号 number
	包装 packing	精美纸盒 Exquisite paper box	KIP2C
	转速 speed	18000rpm	
	夹头 Collet	M6螺杆可锁接平面托底 M6 screw can be locked flat Surface support	
	重量 weight	650g	
	全长 Full length	163mm	

适用于大平面研磨抛光作业。
Suitable for large flat surface grinding and polishing operations.

气动继磨机（气动超声波研磨机）Pneumatic grinding machine (pneumatic ultrasonic grinding machine)

涡轮式气动超声波 Turbine type pneumatic ultrasonic				编号 number
	包装 packing	木盒 Wooden box		KIS 03
	转速 speed	30000rpm	30000rpm	
	夹头 Collet	3.0mm	3.0mm	
	重量 weight	220g	220g	
	全长 Full length	200mm	200mm	

低噪音、低振动、寿命长适用于模具细微部份之加工。
Low noise, low vibration, and long service life are suitable for processing small parts of molds.

涡轮式气动超声波 Turbine type pneumatic ultrasonic				编号 number
	包装 packing	木盒 Wooden box		Ki506
	转速 speed	30000rpm	30000rpm	
	夹头 Collet	0. 6mm	0.6mm	
	重量 weight	200g	220g	
	全长 Full length	220mm	220mm	

高扭力、重负荷、无需加油适且 于高效率及较大面积之研磨。
High torque, heavy load, no need for oil, suitable for high efficiency and large area grinding.

涡轮式气动超声波 Turbine type pneumatic ultrasonic				编号 number
	包装 packing	木盒 Wooden box		KIS 07
	转速 speed	28000rpm	28000rpm	
	夹头 Collet	0. 7mm	0.7mm	
	重量 weight	200g	220g	
	全长 Full length	220mm	220mm	

高扭力、重负荷、寿命长适且于高效率及较大面积之 研磨。
High torque, heavy load, no need for oil, suitable for high efficiency and large area grinding.

左右横摆气动锉磨机 Left and right lateral pneumatic file grinder				编号 number
	包装 packing	木盒 Wooden box		KIS 098
	转速 speed	11000rpm	11000rpm	
	夹头 Collet	1. 0mm	1.0mm	
	重量 weight	235g	235g	
	全长 Full length	230mm	230mm	

适用模具浅沟、骨位、深肋及公母模接合面等之研磨。
Suitable for grinding shallow grooves, bone positions, deep ribs, and mating surfaces of male and female molds.

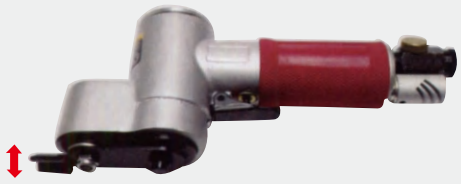
涡轮式气动超声波 Turbine type pneumatic ultrasonic				编号 number
	包装 packing	塑料盒 Plastic box		TU 06
	转速 speed	30000prm	30000prm	
	夹头 Collet	0.6mm	0.6mm	
	重量 weight	200g	200g	
	全长 Full length	220mm	220mm	

轻巧机身广泛轻巧机身广泛用于模具高效率研磨作业。
Lightweight body is widely used for efficient grinding operations of molds.

风叶式气动超声波 Wind blade aerodynamic ultrasonic				编号 number
	包装 packing	塑料盒 Plastic box		AR 06
	转速 speed	25000rpm	25000prm	
	夹头 Collet	0.6mm	0.6mm	
	重量 weight	269g	269g	
	全长 Full length	220mm	220mm	

低燥音、低振动、性能稳定适用于 模具细微部份之研磨。
Low noise, low vibration, and long service life are suitable for processing small parts of molds.

气动继磨机（气动超声波研磨机） Pneumatic grinding machine (pneumatic ultrasonic grinding machine)

气动横摆研磨机 Pneumatic lateral grinding machine				编号 number
	包装	packing	精美纸盒 Exquisite paper box	KIA 30A
	转速	speed	18000rpm 18000rpm	
	夹头	Collet	3.0mm 3.0mm	
	重量	weight	850g 850g	
	全长	Full length	200mm 200mm	

适用于大平面之快速研磨或修边处理。
Suitable for rapid grinding or trimming of large surfaces.

气动锉刀机 Pneumatic filing machine				编号 number
	包装	packing	精美纸盒 Exquisite paper box	AF05
	转速	speed	16000rpm 16000rpm	
	夹头	Collet	5.0mm 5.0mm	
	重量	weight	540g 540g	
	全长	Full length	160mm 160mm	

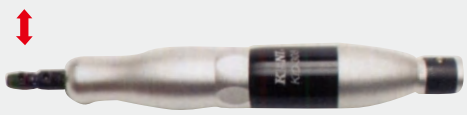
适用于各种铸件或零件之清除毛边及倒角
Suitable for removing burrs and chamfers from various castings or parts

气动锉刀机 Pneumatic filing machine				编号 number
	包装	packing	精美纸盒 Exquisite paper box	AF 10
	转速	speed	15000rpm 15000rpm	
	夹头	Collet	10.0mm 10.0mm	
	重量	weight	1000g 1000g	
	全长	Full length	230mm 230mm	

适用于各种铸件或零件之清除毛边及倒角
Suitable for removing burrs and chamfers from various castings or parts

吊磨超声波 Ultrasonic grinding				编号 number
	包装	packing	塑胶盒 plastic box	KID 398
	转速	speed	根据搭配的主机转速为准 Based on the matching engine speed	
	夹头	Collet	0. 6mm	
	重量	weight	255g	
	全长/搭配	Full length/matching	200mm/电动吊磨机 200mm/electric hanging mill	

适用于修刀磨沟槽、骨位之研磨作业。
Suitable for grinding grooves and bone positions with knives.

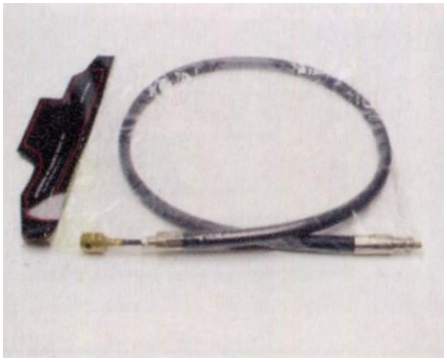
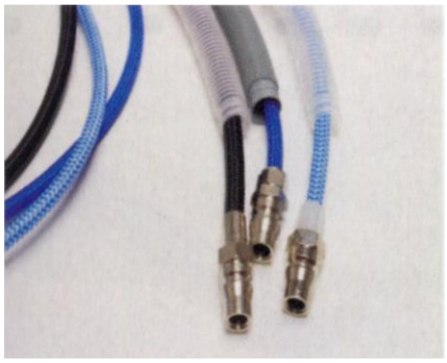
吊磨超声波 Ultrasonic grinding				编号 number
	包装	packing	塑胶盒 plastic box	KID 308
	转速	speed	根据搭配的主机转速为准 Based on the matching engine speed	
	夹头	Collet	1.0mm	
	重量	weight	226g	
	全长/搭配	Full length/matching	190mm/电动吊磨机 200mm/electric hanging mill	

电能转机械超声波扭力大重负荷泛用于模具及各零件研磨工作。
Electric energy conversion machinery is widely used for grinding molds and various parts with high torque and heavy load.

电动工具 Electric tools				编号 number
	包装	packing	精美纸盒 Exquisite paper box	KID 3000
	转速	speed	8000-33000 r/min	
	夹头	Collet	3.0mm或2.34mm	
	重量	weight	550g	
	全长	Full length	200mm	

高转速、高精密性能稳定、寿命长适用于各种研磨抛光工作。
High speed, high precision, stable performance, and long service life are suitable for various grinding and polishing work.

工具配件
Tool accessories

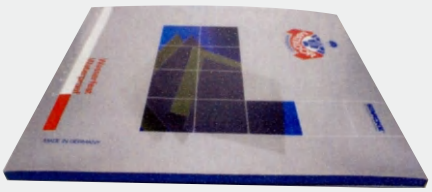






附属工具
Auxiliary tools



红鹰砂纸 Red Eagle Sandpaper	粒度 granularity	编号 number
	120# 150# 180# 220# 240# 320# 400# 600# 800# 1000# 1200# 1500# 2000#	HSZ 2328

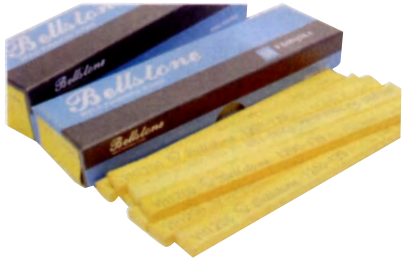
勇士砂纸 Warrior sandpaper	粒度 granularity	编号 number
	240# 320# 400# 600# 800# 1000# 1200# 1500# 2000# 2500# 3000# 5000#	LSZ 2328

西德砂布卷 West German sandcloth roll	粒度 granularity	编号 number
	60# 80# 100# 120# 150# 180# 240# 320# 400# 600#	XD 2025

野牛砂布卷 Buffalo sandcloth roll	粒度 granularity	编号 number
	150# 180# 240# 320# 400# 600# 800# 1000#	NCA 2025

勇士砂纸 Warrior sandpaper	粒度 granularity	编号 number
	40# 60# 80# 100# 120# 150# 180# 240# 320# 400# 600#	USP 30

金钟油石
Golden Bell Oil Stone



规则 rule / 粒度 granularity	120# 150# 180# 240#	320#	400#	600#	800#	1000#	1200#	1500#	2000#	3000#
1.5x6x100 2x6x100 3x6x100	10.75	11.90	11.90	12. 76	12. 76	13. 91	15.25	16.69	18.42	20.44
1.5x13x100 3x13x100	11.90	12.76	12.76	13. 91	13. 91	15.25	16.69	18.42	20.44	21. 87
3x6x150	13.91	14.97	14.97	16.02	16.02	17. 17	19.00	20.72	22.93	25.14
3x3x150	11.80	12.76	12.76	13.62	13.62	14.49	15. 93	17.46	19. 19	21.11
6x6x150	16.20	17. 17	17. 17	18.42	18.42	19. 76	21.87	23.79	26.38	28.88
3x13x150	19.48	20.44	20.44	21.39	21.39	23.31	25.62	28.40	30.99	34.35
5x13x150	19.48	20.44	20.44	21.39	21.39	23.31	25.62	28.40	30.99	34.35
10x10x150	24.77	26.10	26.10	27.29	27.29	30.15	33.12	36.47	40.04	43.84
13x13x150	32.28	35.87	35.87	40.98	40.98	44.80	49.68	54.77	60.41	66.26
25x25x150	55.41	62.80	62.80	87.58	87.58	96.16	105. 70	116.53	128.44	141.20

必宝油石
Bibao Oil Stone



规则 rule / 粒度 granularity	AS-9(红色) 150# 180# 220#	AS-9(红色) 320# 400#	AS-9(红色) 600#	AO-9(白色) 150# 220#	AO-9(白色) 320# 400#	AO-9(白色) 600#
1/16x1/4	16.80	18.80	26.00	16.10	18.20	21.80
1/16x1/2	17.30	19. 30	23. 10	17.20	19 40	21.80
1/8x1/8	17.30	19.30	26.00	17.20	19.40	21.80
1/8x1/4	16.30	17.40	21.20	16 20	17. 40	20.20
1/8x1/2	18.20	19.30	23.90	18.10	19.40	23.50
1/4x1/4	16.30	17.50	21.20	16.80	17.50	20.20
1/4x1/2	21.40	22.70	29.40	20.70	22.60	27.30
1/4ROUND	31.50	41.80	49.00	31. 50	41. 80	47. 70
3/8ROUND	38.40	43.70	50.20	38. 40	43. 70	48.40

一、安全转速磨头使用的最高 工作线速度不得超过25米/秒。

二、安全防护操作人员在使用磨 头时必须戴上防护眼镜，可预防铁屑飞入眼内及砂轮万一爆裂撞伤眼睛。

三、装夹说明

1、装卸磨头必须用专用工具装卸，严禁敲打。

2、锁定电(气)磨机的转子，用专用的工具卸掉用完的磨头，装入新磨头后，先用手指头拧紧夹头螺母，后用手握住磨头头部旋转磨头180°，再利用专用工具锁紧夹头螺母，启动电(气)磨机检查磨头的跳动状况(标准为磨头在高速运转过程中没有晃动的影子)， 发现晃动重复以上装夹程序，直到无晃动为止，如无法效正晃动，应检查夹头是否磨损或损坏，应及时更换夹头。

3、磨头铁柄应装入夹头三分之二，严禁外露太长，造成磨头高速运转过程中产生离心，发生磨头飞出及爆裂伤人的工伤事故。

四、使用说明

1、在磨削过程中，不得用磨头撞击被加工，应让磨头轻附工件表面自由磨削，特别是使用小磨头及尖细的磨头时，用两只手拿稳电(气)磨机轻附表面自由磨削，严禁用力过猛，造成磨头断裂及断柄现在发生。

2、在使用前，陶瓷磨头、海棉磨头、橡胶磨头应在金刚石锉刀上修整-下，使用效果更好。

3、在使用过程中， 发现陶瓷磨头、海棉磨头、橡胶磨头表面铁屑堵住气孔，用金刚石锉刀修整后方可继续使用，发现金刚石电镀磨头表面铁屑堵住气孔时，应在废旧砂轮上把铁屑修整后方可使用。

4、单一规格批量使用或特殊要求的产品，欢迎根据实际使用情况定做更好。

1. the Maximum Working Line Speed Used By The Safe Speed Grinding Head Shall Not Exceed 25 Meters/second.

2. safety Protection Operators Must Wear Protective Glasses When Using Grinding Heads, Which Can Prevent Iron Filings From Flying Into Their Eyes And The Grinding Wheel From Exploding And Injuring Their Eyes.

3. clamping Instructions

1. The Loading And Unloading Of The Grinding Head Must Be Carried Out With Special Tools, And Knocking Is Strictly Prohibited.

2. Lock The Rotor Of The Electric (pneumatic) Grinder, Use A Special Tool To Remove The Used Grinding Head, Install A New Grinding Head, First Tighten The Clamp Nut With Your Fingers, And Thenhold The Grinding Head With Your Hand And Rotate It 180 °. Then, Use A Special Tool To Lock The Clamp Nut And Start The Electric (pneumatic) Grinder To Check The Runout Of The Grinding Head (markedif There Is No Shaking Shadow During High-speed Operation Of The Grinding Head, Repeat The Above Clamping Procedure Until There Is No Shaking. If It Cannot Be Correctedshake, Check If The Chuck Is Worn Or Damaged, And Replace The Chuck In A Timely Manner.

3. The Iron Handle Of The Grinding Head Should Be Installed Into Two-thirds Of The Chuck, And It Is Strictly Prohibited To Expose It For Too Long, Which May Cause Centrifugation During High-speed Operation Of The Grinding Head, Causing It To Fly Out And Burstinjurious Work-related Accidents.

4、 Instructions For Use

1. During The Grinding Process, The Grinding Head Should Not Be Used To Impact The Workpiece Being Processed. The Grinding Head Should Be Allowed To Lightly Adhere To The Surface Of The Workpiece For Free Grinding, Especially When Using Small Grinding Heads And Sharp Grindingwhen Grinding, Use Both Hands To Hold The Electric (pneumatic) Grinder And Gently Attach It To The Surface For Free Grinding. It Is Strictly Prohibited To Use Excessive Force, Which May Cause The Grinding Head Tobreak And The Handle To Break Now.

2. Before Use, Ceramic Grinding Heads, Sponge Grinding Heads, And Rubber Grinding Heads Should Betrimmed On Top And Bottom Of Diamondfiles To Achieve Better Results.

3. During Use, It Was Found That Iron Filings On The Surface Of Ceramicgrinding Heads, Sponge Grinding Heads, And Rubber Grinding Heads Blocked The Air Holes. They Can Only Be Used After Being Trimmed With A Diamond File,when It Is Found That The Surface Of The Diamond Electroplating Grinding Head Is Blocked By Iron Filings, The Iron Filings Should Be Trimmed On The Waste Grinding Wheel Before Use.

4. Products With Single Specifications For Batch Use Or Special Requirements Are Welcome To Be Customized According To Actual Usage.

磨料类别 Abrasive category	磨料名称 Abrasive Name	磨料代号 Abrasive code	特征 characteristic	用途 use to
刚玉类 Corundum class	棕刚玉 Brown corundum	(A)	棕刚玉外观为棕揭色主要化学成份是ALO,其含量在94.5%-97%具有硬度高 韧性大，颗粒锋锐价格比较低廉的特点适合于磨加工抗张强度高的金属在缺少其他磨料的情况下-般可由它来代替。 The appearance of brown corundum is brownish and the main chemical component is ALO, and its content94.5% -97% with high hardness, toughness, and sharp particle priceThe relatively inexpensive feature is suitable for grinding metals with high tensile strengthIn the absence of other abrasives, it can generally be used as a substitute.	广泛用于普遍钢材的租磨 如碳素钢一般合金明可设铸铁、硬青铜等。棕刚玉的二级品旁料常用作磨来砂轮。树脂切割砂轮、砂瓦、砂布砂纸。 Widely used for grinding common steel materials, such as carbon steel and alloy MingkeSet up cast iron, hard bronze, etc. The secondary material of brown corundum is commonly used for grinding Come on, grinding wheel. Resin cutting grinding wheel, sand tile, sandcloth sandpaper.
	白刚玉 White corundum	(WA)	白刚玉婕度略高于棕刚玉但物性稍差磨削时易切入工作自锐性较好发热量较小磨削能力强效率高价格高于棕刚玉。 White corundum has slightly higher sharpness than brown corundum, but its physical properties are slightly worse. It is easy to cut in during grindingGood self sharpening performance, small heat generation, strong grinding ability, high efficiency, and high price Higher than brown corundum.	适合于磨硬度较高的钢材 如高速钢、高碳钢。淬火钢、合金钢等。 Suitable for grinding high hardness steel such as high-speed steel and high carbon steel. Quenching Fire steel, alloy steel, etc.
	单晶钢玉 Single crystal corundum	(SA)	单晶刚玉磨料的颗粒是由单一品体组成并具有良好的多棱切削刃较高的硬度和韧性、磨肖能力强磨削发热量少敲点是生产成本高生产中有废气废水产生、产量较低。 The particles of single crystal corundum abrasive are composed of a single substance and have good properties The multi edged cutting edge has high hardness and toughness, and strong grinding ability Low heat output and high production costs result in the production of waste gas and wastewater Low yield.	可用于磨削较硬目 物性好的难磨金属材料如不锈钢、高钒高速钢、耐热合金钢及易变形，易烧伤的工件考滤到单晶刚玉磨料受生产条件的限制般只推荐用于耐热合金和难率金属材料的磨削。 Can be used for grinding hard and difficult to grind metal materials with good physical properties, such as stainless steel Steel, high vanadium high-speed steel, heat-resistant alloy steel, and easily deformed and burned The workpiece is filtered to single crystal corundum abrasive, which is generally limited by production conditions Recommended for grinding heat-resistant alloys and refractory metal materials.
	微晶刚玉 Microcrystalline corundum	(MA)	属于棕刚玉的派生品种外观色泽和化学成份均于棕刚玉相似特点是晶体尺寸小(50- 280um)磨粒韧性好弱度大且自说性好。 Derived varieties of brown corundum have similar appearance, color, and chemical composition to brown corundum The similar characteristic of corundum is its small crystal size (50-280um) and abrasive toughness Good and weak, and self explanatory.	适合磨不锈钢、碳素钢、球磨铸铁等磨削方式上适于成型磨、切入磨、精磨和重负荷磨削。 Suitable for grinding stainless steel, carbon steel, ball milled cast iron and other grinding methods For forming grinding, cutting grinding, precision grinding, and heavy load grinding.
	铬刚玉 Chrome corundum	(PA)	为白刚玉的派生品种外观呈玫塊色硬度与白刚玉相近韧性略高于白刚玉且强度高磨削性能好磨削精度高。用这种磨料制成的磨具其形状保持性好。 Derived from white corundum, it has a rose colored appearance and a hardness similar to that of white corundum Near toughness slightly higher than white corundum and high strength, good grinding performance, and grinding accuracy High. Grinding tools made with this abrasive have good shape retention.	应用范图与白刚玉相似尤其适于各种刀具， 量具、仪表零件的精喜和成型磨 通常铬刚玉较白刚玉具有更好的磨削性能。 The application diagram is similar to that of white corundum, especially suitable for various cutting tools, measuring tools The precision and forming grinding of instrument parts are usually engraved with corundum rather than white corundum Has better grinding performance.
	锆刚玉 Zircon corundum	(ZA)	锆刚玉为a-AL,O,和ALO-ZrO的共昆体化台物其特点是硬度略低但韧”性值大、强度较高通常星休尺寸较细耐磨性翻好。 Zircon corundum is a co mineralized platform material of a-AL, O, and ALO-ZrO, and its characteristics It has a slightly lower hardness but a higher toughness value and strength, usually with star shaped dimensions Refined wear resistance improved.	国外铁刚玉磨料主要用于重负荷磨削适舍于磨耐热合金钢。钛合金和奥氏体不锈钢等。 Abroad, corundum abrasives are mainly used for heavy-duty grinding and are suitable for grinding heat resistance Alloy steel. Titanium alloy and austenitic stainless steel, etc.
	烧结刚玉 Sintered corundum		用矾土或铝氧粉的细料烧结而成特点是韧性好可制成各神特殊形状和尺寸的磨粒。 Sintered from fine materials such as bauxite or aluminum oxide powder, it is characterized by good toughness and can be produced Grinding particles with special shapes and sizes for each god.	主要用于重负荷磨钢锭耖轮适用于荒磨不锈钢钢锭等。 Mainly used for heavy load grinding of steel ingots, suitable for rough grinding of stainless steel ingots etc.
	黑刚玉 Black corundum	(BA)	属于棕刚玉的派生品种外观呈黑色。特点是ALO,含量较低并有一定量的FEO,(10%左右) 存在因而硬度较低但韧性好。 The derivative variety of brown corundum has a black appearance. Featuring ALO, including Low quantity and a certain amount of FEO (around 10%), resulting in hardness Low but resilient.	多用于自由研磨如制品电镀前的打磨和粗磨也用于制作涂附磨具树脂切割片 抛光块等。 It is commonly used for free grinding, such as polishing and rough grinding before electroplating of products Produce resin cutting and polishing blocks for coated abrasives.
碳化硅类 Silicon carbide	绿碳化硅 Green silicon carbide	(GC)	绿碳化硅具有较高的硬度和一定的韧性特点是磨削效率和精度高。 Green silicon carbide has high hardness and certain toughness, which is characterized by grinding High efficiency and accuracy.	广泛应用于磨加工光学玻璃石头、硬质合金、钛合金以及轴承钢的研磨抛光高速钢刀其的刃磨等。 Widely used for grinding optical glass stones, hard alloys, titanium alloys Grinding and polishing of gold and bearing steel, and blade grinding of high-speed steel knives.
	黑碳化硅 Black silicon carbide	(C)	黑碳化硅具有较高的硬度自锐性好不品烧伤工件麦面多用于切割和研磨抗张强度低的材料。 Black silicon carbide has high hardness, self sharpening, and excellent quality. Burned workpieces Faces are mostly used for cutting and grinding materials with low tensile strength.	广泛用于有色金属材料(铜、铝)非铸铁工件、玻璃、陶瓷，石材和耐火制品等。 Widely used in non-ferrous metal materials (copper, aluminum), non cast iron workpieces, glass Ceramics, stone and refractory products, etc.

梅花螺丝	双头牙螺丝	中心销	M型车刀压板	W型车刀压板	W型压板螺丝	D型车刀压板	D型压板螺丝
P03	P03	P03	P04	P04	P04	P04	P04
							
数控刀具 梅花螺丝 数控刀具零配件	数控车刀 双头牙螺丝 数控刀具零配件	数控车刀 中心销 数控刀具零配件	数控车刀 M型车刀压板 数控刀具零配件	数控车刀 W型车刀压板 数控刀具零配件	数控车刀 W型车刀压板螺丝 数控刀具零配件	数控车刀 D型车刀压板 数控刀具零配件	数控车刀 D型车刀压板螺丝 数控刀具零配件

E型车刀压板	E型压板螺丝	P型车刀杠杆	P型车刀螺丝	P型车刀弹簧片	车刀刀垫 MC..	车刀刀垫 MC..	车刀刀垫 MC..
P04	P04	P04	P04	P04	P04	P04	P04
							
数控车刀 E型车刀压板 数控刀具零配件	数控车刀 E型车刀压板螺丝 数控刀具零配件	数控车刀 杠杆 数控刀具零配件	数控车刀 杠杆 数控刀具零配件	数控车刀 杠杆 数控刀具零配件	数控车刀 刀垫 数控刀具零配件	数控车刀 刀垫 数控刀具零配件	数控车刀 刀垫 数控刀具零配件

车刀刀垫 MC..	车刀刀垫 MC..	车刀刀垫 MC..	STM..R..	STM..L..
P04	P04	P04	P04	P04
				
数控车刀 刀垫 数控刀具零配件	数控车刀 刀垫 数控刀具零配件	数控车刀 刀垫 数控刀具零配件	数控车刀 螺纹车刀刀垫 数控刀具零配件	数控车刀 螺纹车刀刀垫 数控刀具零配件

旗形梅花扳手	T型梅花扳手	手柄梅花扳手	内六角扳手	T型内六角扳手	手柄内六角扳手
P05	P05	P05	P05	P05	P05
					
数控刀具 梅花扳手 数控刀具零配件	数控刀具 梅花扳手 数控刀具零配件	数控刀具 梅花扳手 数控刀具零配件	数控刀具 内六角扳手 数控刀具零配件	数控刀具 内六角扳手 数控刀具零配件	数控刀具 内六角扳手 数控刀具零配件

球头铣刀螺丝	铣刀刀垫	EMR	AJX	SKS	ASR	JC	TP
P05	P05	P05	P05	P05	P05	P05	P05
							
数控铣刀 球头铣刀螺丝 数控刀具零配件	数控铣刀 铣刀刀垫 数控刀具零配件	数控铣刀 铣刀压板 数控刀具零配件	数控铣刀 铣刀压板 数控刀具零配件	数控铣刀 铣刀压板 数控刀具零配件	数控铣刀 铣刀压板 数控刀具零配件	数控铣刀 铣刀压板 数控刀具零配件	数控铣刀 铣刀压板 数控刀具零配件

龙门铣刀盘配件	FMB刀盘固定块	SLN侧固螺丝	镗刀微调螺杆	刀片座螺丝	镗刀侧固螺丝
P05	P05	P05	P05	P05	P05
					
数控铣刀 铣刀压板 数控刀具零配件	数控铣刀 FMB刀盘固定块 数控刀具零配件	数控铣刀 SLN侧固刀柄螺丝 数控刀具零配件	数控镗刀 微调螺杆 数控刀具零配件	数控镗刀 刀片座固定螺丝 数控刀具零配件	数控镗刀 镗刀侧固螺丝 数控刀具零配件

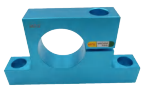
C/OZ扳手	ER-A	ER-M	ER-UM	GER/GSK	TSK
P06	P06	P06	P06	P06	P06
					
数控刀柄 勾型扳手 数控刀具零配件	数控刀柄 ER-A型刀柄扳手 数控刀具零配件	数控刀柄 ER-M型刀柄扳手 数控刀具零配件	数控刀柄 ER-UM型刀柄扳手 数控刀具零配件	数控刀柄 GSK型刀柄扳手 数控刀具零配件	数控刀柄 TSK型刀柄扳手 数控刀具零配件

ER-A	ER-M	ER-UM	GER/GSK	TSK
P06	P06	P06	P06	P06
				
数控刀柄 ER-A型刀柄螺帽 数控刀具零配件	数控刀柄 ER-M型刀柄螺帽 数控刀具零配件	数控刀柄 ER-UM型刀柄螺帽 数控刀具零配件	数控刀柄 GSK型刀柄螺帽 数控刀具零配件	数控刀柄 TSK型刀柄螺帽 数控刀具零配件

BT刀柄拉钉	MAZAK拉钉	JIS刀柄拉钉	DIN69872拉钉
P07-P08	P07-P08	P07-P08	P07-P08
			
数控刀具 刀柄拉钉 数控刀具零配件	数控刀具 刀柄拉钉 数控刀具零配件	数控刀具 刀柄拉钉 数控刀具零配件	数控刀具 刀柄拉钉 数控刀具零配件

液压刀柄夹头	强力刀柄夹头	后拉式筒夹	ER 筒夹	SK 筒夹	OZ 筒夹	止水筒夹	攻牙刀柄夹头
P09	P09	P09	P10	P10	P10	P10	P11
							
数控刀具 液压刀柄夹头 数控刀具零配件	数控刀具 强力型刀柄夹头 数控刀具零配件	数控刀具 后拉式刀柄夹头 数控刀具零配件	数控刀具 ER刀柄筒夹 数控刀具零配件	数控刀具 SK刀柄筒夹 数控刀具零配件	数控刀具 OZ刀柄筒夹 数控刀具零配件	数控刀具 止水筒夹 数控刀具零配件	数控刀具 丝攻攻牙刀柄夹头 数控刀具零配件

ERT丝攻夹头	主轴清洁棒	主轴测试棒
P11-P12	P13	P13
		
数控刀具 丝攻攻牙刀柄夹头 数控刀具零配件	数控刀具 主轴清洁棒 数控刀具零配件	数控刀具 主轴测试棒 数控刀具零配件

BT/CAT	XBT	ISO	HSK	NBT
P13	P13	P13	P13	P13
				
数控刀具 刀柄锁刀座 数控刀具零配件	数控刀具 刀柄锁刀座 数控刀具零配件	数控刀具 刀柄锁刀座 数控刀具零配件	数控刀具 刀柄锁刀座 数控刀具零配件	数控刀具 刀柄锁刀座 数控刀具零配件

附表Z轴设定器	光电Z轴设定器	3D设定器
P13	P13	P13
		
数控刀具 Z轴设定器-附表式 数控刀具零配件	数控刀具 Z轴设定器-光电式 数控刀具零配件	数控刀具 3D万向寻边器 数控刀具零配件

FM10-4	FM10-4-Tin	SH1020	偏心式寻边器	光电式寻边器
P14	P14	P14	P14	P14
				
数控刀具 机械式寻边器 数控刀具零配件	数控刀具 镀钛机械式寻边器 数控刀具零配件	数控刀具 陶瓷寻边器 数控刀具零配件	数控刀具 偏心式寻边器 数控刀具零配件	数控刀具 光电式寻边器 数控刀具零配件

刀具整理架	刀具套	刀具车	工具车	万能夹具组
P15	P15	P15	P16	P16
				
数控刀具 刀具整理架 数控刀具零配件	数控刀具 刀具套 数控刀具零配件	数控刀具 刀具车 数控刀具零配件	数控刀具 活动工具车 数控刀具零配件	数控刀具 万能夹具组 数控刀具零配件

BT精密检具	HSK精密检具
P16	P16
	
数控刀具 三点组合检测工具 数控刀具零配件	数控刀具 三点组合检测工具 数控刀具零配件

刀具梅花螺丝

Cutting Tool Screw



尺寸标示 Size(mm)	订购编码 Order	规格型号 Type	A	B	C	F	扭力 Torque (N.m)
	801800	M1.6×3.2×D2.5	M1.6×0.35	3.2	2.5	T6	0.5
	801803	M1.8×4×D2.5	M1.8×0.35	4	2.5	T6	0.5
	801804	M1.8×4×D2.7	M1.8×0.35	4	2.7	T6	0.5
	801805	M2.0×4×D2.85	M2.0×0.4	4	2.85	T6	0.5
	801806A	M2.0×5×D2.8	M2.0×0.4	5	2.8	T6	0.5
	801806C	M2.0×5×D3.0	M2.0×0.4	5	3.0	T6	0.5
	801806D	M2.0×5.5×D3.8	M2.0×0.4	5.5	3.8	T6	0.5
	801806E	M2.0×6×D2.85	M2.0×0.4	6	2.85	T6	0.5
	801807A	M2.2×5×D3.0×P0.45×T6	M2.2×0.45	5	3.0	T6	0.5
	801807B	M2.2×5×D3.6×P0.45×T6	M2.2×0.45	5	3.6	T8	0.8
	801807C	M2.2×5×D2.85×P0.4×T7	M2.2×0.4	5	2.85	T7	0.8
	801807D	M2.2h0.8×5×D3.1×P0.45×T7	M2.2×0.45	5	3.1	T7	0.8
	801808A	M2.2×6×D2.85×P0.4×T7	M2.2×0.4	6	2.85	T7	0.8
	801808B	M2.2×6×D2.85×P0.4×T7	M2.2×0.4	6	2.85	T7	0.8
	801808C	M2.2×6×D3.0×P0.45×T6	M2.2×0.45	6	3.0	T6	0.5
	801808D	M2.2×8×D2.85	M2.2×0.45	8	2.85	T7	0.8
	801810	M2.3×5×D3.0	M2.3×0.4	5	3.0	T6	0.8
	801811A	M2.5×4.5×D3.6	M2.5×0.45	4.5	3.6	T8	1.2
	801811B	M2.5×4.5×D3.6	M2.5×0.45	4.5	3.6	T8	1.2
	801811C	M2.5×4.5×D3.3	M2.5×0.45	4.5	3.3	T8	1.2
	801812A	M2.5×5×D3.6	M2.5×0.45	5	3.6	T8	1.2
	801812B	M2.5×5×D3.3	M2.5×0.45	5	3.3	T8	1.2
	801814A	M2.5×5.5×D3.6	M2.5×0.45	5.5	3.6	T8	1.2
	801814B	M2.5×5.5×D3.3	M2.5×0.45	5.5	3.3	T8	1.2
	801818A	M2.5×6×D3.6	M2.5×0.45	6	3.6	T8	1.2
	801816	M2.5×6×D3.3	M2.5×0.45	6	3.3	T8	1.2
	801818B	M2.5h0.3×6×D4.0×P0.45	M2.5×0.45	6	4.0	T8	1.2
	801818C	M2.5×6×D3.6-R28	M2.5×0.45	6	3.6	T8	1.2
	801820A	M2.5×6.5×D3.6	M2.5×0.45	6.5	3.6	T8	1.2
	801820B	M2.5×6.5×D3.5×T7	M2.5×0.45	6.5	3.5	T7	0.8
	801821	M2.5×7.3×D3.5	M2.5×0.45	7.3	3.5	T8	1.2
	801822	M2.5h0.6×8×D3.6×P0.45	M2.5×0.45	8	3.6	T8	1.2
	801824	M2.5×10×D3.6	M2.5×0.45	10	3.6	T8	1.2
	801825	M2.6×6×D3.6	M2.6×0.45	6	3.6	T8	1.2
	801826	M3.0h0.5×6×D4.0×T8	M3.0×0.5	6	4.0	T8	1.2
	801828A	M3.0h0.5×7×D4.0×T8	M3.0×0.5	7	4.0	T8	1.2
	801828B	M3×7×D4.0×T8(SH)	M3.0×0.5	7	4.0	T8	1.2
	801830A	M3.0×7×D4.2×T9	M3.0×0.5	7	4.2	T9	1.2
	801830B	M3.0×7×D4.2×T10	M3.0×0.5	7	4.2	T10	2.0
	801830C	M3.0×7×D4.6×T10	M3.0×0.5	7	4.2	T10	2.0
	801831	M3.0×7.5×D4.8×H2	M3.0×0.5	7.5	4.8	L2	-
	801832A	M3.0×8×D4.0	M3.0×0.5	8	4.0	T8	1.2
	801832B	M3.0×8×D4.2	M3.0×0.5	8	4.2	T10	2.0
	801832C	M3.0×8×D4.3	M3.0×0.5	8	4.3	T9	1.2
	801834	M3.0×9×D5.1	M3.0×0.5	9	5.1	T10	1.2
	801836	M3.0×9.5	M3.0×0.5	9.5	4.2	T10	1.2
	801838	M3.0×10	M3.0×0.5	10	4.2	T10	1.2

尺寸标示 Size(mm)	订购编码 Order	规格型号 Type	A	B	C	F	扭力 Torque (N.m)
	801841	M3.5×6.5×D5.3	M3.5×0.6	6.5	5.3	T15	3.5
	801844A	M3.5×8.0×D5.3	M3.5×0.6	8.0	5.3	T15	3.5
	801844B	SM3.5h2×8.5×D5.3×T15	M3.5×0.6	8.5	5.3	T15	3.5
	801845A	M3.5h1.2×9×D5.3	M3.5×0.6	9	5.3	T15	3.5
	801845B	M3.5h1.2×9×D5.5×P0.6	M3.5×0.6	9	5.5	T15	3.5
	801845C	M3.5h1.0×9×D5.7×P0.6	M3.5×0.6	9	5.7	T15	3.5
	801846	M3.5×10×D5.0	M3.5×0.6	10	5.0	T15	3.5
	801848A	SM3.5h1.2×10×D5.3×T15	M3.5×0.6	10	5.3	T15	3.5
	801848B	M3.5×10×D5.5	M3.5×0.6	10	5.5	T15	3.5
	801850A	SM3.5h1.2×12×D5.3×T15	M3.5×0.6	12	5.3	T15	3.5
	801850B	M3.5h0.3×12×D5.5×P0.6	M3.5×0.6	12	5.5	T15	3.5
	801852	M3.5×15×D5.3	M3.5×0.6	15	5.3	T15	3.5
	801854A	M4.0×8×D5.7	M4.0×0.7	8	5.7	T15	3.5
	801854B	CTM4.0×8×D5.7	M4.0×0.7	8	5.7	T15	3.5
	801858	M4.0×9×D5.0	M4.0×0.7	9	5.0	T15	3.5
	801856	M4.0×9×D5.7	M4.0×0.7	9	5.7	T15	3.5
	801862A	M4.0×10×D5.5	M4.0×0.7	10	5.5	T15	3.5
	801862B	M4.0×10×D5.9	M4.0×0.7	10	5.9	T15	3.5
	801864A	M4.0×11×D5.0	M4.0×0.7	11	5.0	T15	3.5
	801866	M4.0×12×D5.7	M4.0×0.7	12	5.7	T15	3.5
	801864B	M4.0×12×P0.5×6.5	M4.0×0.5	12	6.5	T15	3.5
	801865	M4.0×13×D5.7	M4.0×0.7	13	5.7	T15	3.5
	801868	M4.0×14×D5.7	M4.0×0.7	14	5.7	T15	3.5
	801869	M4.0×15×D7.0	M4.0×0.7	15	7.0	T15	3.5
	801870	M4.0×16×D5.7	M4.0×0.7	16	5.7	T15	3.5
	801872	M4.0×16×D7.0	M4.0×0.7	16	7.0	T15	3.5
	801871	M4.0×27.7×D5.8	M4.0×0.7	27.7	5.8	T15	3.5
	801873	M4.5×9.8×D6.8	M4.5×0.75	9.8	6.8	T20	4.5
	801874A	M4.5h0.7×11×D6.3×P0.75	M4.5×0.75	11	6.3	T20	4.5
	801874B	M4.5×11×D7.0	M4.5×0.75	11	7.0	T20	4.5
	801875	M4.5×11.6×D6.8	M4.5×0.75	11.6	6.8	T20	4.5
	801876	M4.5×12.6×D6.8	M4.5×0.75	12.6	6.8	T20	4.5
	801878	M4.5×16×D6.8	M4.5×0.75	16	6.8	T20	4.5
	801881	M5.0×10×D7.2	M5.0×0.8	10	7.2	T20	4.5
	801882A	M5.0h0.3×11×D6.4×P0.8	M5.0×0.8	11	6.4	T20	4.5
	801882B	M5.0×11×D6.6	M5.0×0.8	11	6.6	T20	4.5
	801882C	M5h1.0×11×D7.0	M5.0×0.8	11	7.0	T20	4.5
	801882D	M5.0×11×D7.2	M5.0×0.8	11	7.2	T20	4.5
	801882E	M5.0×11×D7.2F	M5.0×0.8	11	7.2	T20	4.5
	801882F	M5.0×11×D8.2	M5.0×0.8	11	8.2	T20	4.5
	801884A	M5.0×12×D7.2	M5.0×0.8	12	7.2	T20	4.5
	801884B	BCFM5.0×12×D7.2	M5.0×0.8	12	7.2	T20	4.5
	801884C	M5.0×12×D8	M5.0×0.8	12	8.0	T20	4.5
	801885A	M5.0×13×D7.3	M5.0×0.8	13	7.3	T20	4.5
	801885B	M5.0×13.2×D7.2	M5.0×0.8	13.2	7.2	T20	4.5
	801885C	M5.0×14×D6.6-0314	M5.0×0.8	14	6.6	T20	4.5
	801885D	M5.0×14×D7.2	M5.0×0.8	14	7.2	T20	4.5
	801885E	M5.0×14×D7.3×T15	M5.0×0.8	14	7.3	T15	3.5
	801886A	M5.0h0.5×16×D7.0×P0.8	M5.0×0.8	16	7.0	T20	4.5
	801886B	M5.0×16×D7.5×T20	M5.0×0.8	16	7.5	T20	4.5
	801886C	M5.0×16.5×D7.3	M5.0×0.8	16.5	7.3	T20	4.5
	801887A	M5.0×18×D8.2	M5.0×0.8	18	8.2	T20	4.5
	801887B	M5.0×19×D7.3	M5.0×0.8	19	7.3	T20	4.5
	801888A	M6.0×18×D8.5	M6.0×1.0	18	8.5	T30	8.0
	801888B	M6.0×28.6×D8.5	M6.0×1.0	28.6	8.5	T30	8.0

注：1. 红色规格为热销规格，常卖规格；也有进口螺丝规格。
2. 螺丝颜色为白色、黑色、青铜色，随机发货，如需指定颜色，请告知客服！

Note: 1.Red specifications for hot, often sell specifications; also imported Screw standing specifications.
2.Screw colors are white, black and bronze, which is shipped at random,If you need to specify the color, please inform the customer service!

双头牙螺丝

Double threaded connecting screw



图示 Object	规格 Type	其余代码 Other Brand	螺纹 Thread	总长 Length	扳手 Wrench
车刀用双头牙螺丝 M type turning tool	MS518	-	M5	18	L2.5
	MS519	-	M5	19	L2.5
	MS520	MCS520-2.5	M5	20	L2.5
	MS620	MCS620-3	M6	20	L3
	MS622	-	M6	22	L3
	MS625	MCS625-3	M6	25	L3
	MS630	MCS630-3	M6	30	L3
	MS830	MCS828-4	M8	30	L4
侧固螺丝 Center pin side Screw	M6011	MCS3S-11	M6	11	L3
车刀压板螺丝 Turning tool Clamp Screw	WC0525E	W Type Turning Tools	M5	25	L3
	BM6026		M6	26	L4
车刀压板螺丝 Clamp Screw	CS80	E Type Turning Tools	M6	25	L4
	M5026		M5	26	L3
	DCS5	D Type Turning Tools	M5	25	L3
螺纹车刀螺丝 Threaded Sleeve	M503509	MDS5035	M5	9	M3.5
	M604011	MDS6040	M6	11	M4
	M106022	MDS1060	M10	22	M6

中心销螺丝

Center Pin screw



图示 Object	规格 Type	其余代码 Other Brand	螺纹 Thread	总长 Length	扳手 Wrench
M型 M Type	CTM510		M5	10	L2.5
	CTM511	MLP33L	M5	11	L2.5
	CTM513	MLP34L	M5	13	L2.5
	CTM613	MLP44	M6	13	L2.5
	CTM617		M6	17	L2.5
	CTM617-3	MLP46	M6	17	L3
	CTM619	MLP46L	M6	19	L2.5
	CTM822P1.0	MLP58P1.0	M8	22	L3
	CTM822P1.25	MLP58P1.25	M8	22	L3
	CTM1022P1.0	MLP68P1.0	M10	22	L4
	CTM1022P1.5	MLP68P1.25	M10	22	L4
W型 W Type / P型 P Type	CTM515-T	SCP314	M5	15	L2.5
	CTM618-W	SCP418	M6	18	L2.5
	503715	170.3-870MCP3	-	15	-
	704019		-	19	-

W 型车刀压板配件
W Type Turning tool Clamp



图示 Object	规格 Type	螺丝 Screw		
 WW08 WT16	WW08	M5		
	WT16	M5		
	WC0525E	M5		

D 型车刀压板配件
D Type Turning tool Clamp

图示 Object	规格 Type	螺丝 Screw		
	DC12	M6		
	DD15	M6		
	DS12	M6		
	DT16	M6		
	DV16	M5/M6		
	DW08	M6		
	M5026	M5		
	M6025	M6		

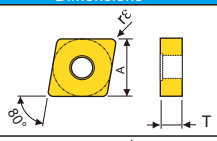
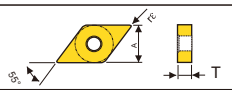
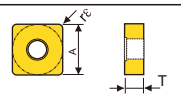
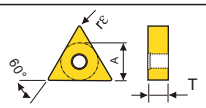
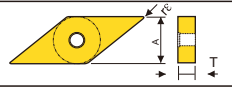
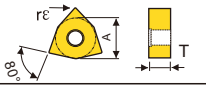
P 型车刀配件
P Type Turning tool

图示 Object	规格 Type	螺丝 Screw		
杠杆 Lever 	LV3			
	LV4			
	LV5			
	LV6			
	LV4B			
杠杆螺丝 Lever Screw 	VHX0617			
	VHX0821			
	VHX0825			
	VHX1027			
弹簧片 Spring 	SP3			
	SP4			
	SP5			
	SP6			
	SP10			

E 型车刀压板配件
E Type Turning tool Clamp

图示 Object	规格 Type	螺丝 Screw		
	EC12	M6		
	ED15	M6		
	ES12	M6		
	ET16	M6		
	EV16	M6		
	EW08	M6		
	CS80	M6		

车刀刀垫
Turning tools Shim

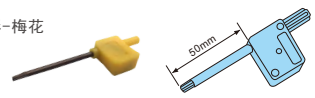
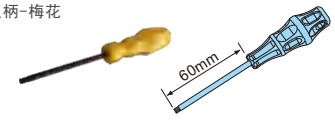
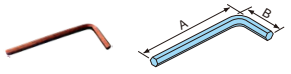
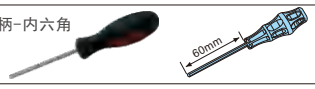
图示 Object	尺寸标示 Dimensions	规格 Type	A	T	rε
		MC0903	9.525	3.18	R1.2
		1203	12.7	3.18	R1.6
		1204	12.7	4.76	R1.6
		1604	15.875	4.76	R2.4
		1904	19.05	4.76	R2.4
		2504	25.4	4.76	R3.2
		MD1103	9.525	3.18	R1.2
		1504	12.7	4.76	R1.6
		1506	12.7	6.35	R1.6
		1906	15.9	6.35	R2.4
		MS0903	9.525	3.18	R1.2
		1204	12.7	4.76	R1.6
		1504	15.875	4.76	R2.0
		1904	19.05	4.76	R2.4
		2504	25.4	4.76	R3.2
		MT1603	9.525	3.18	R1.2
		16-S	9.525	3.18	R1.2
		2204	12.7	4.76	R2.4
		2704	15.875	4.76	R3.2
		3304	19.05	4.76	R3.6
		MV1603	9.525	3.18	R1.2
		NV1603	9.525	3.18	R1.2
		2204	12.7	4.76	R2.0
		MW0603	9.525	3.18	R1.2
		0804	12.7	4.76	R1.6
		WW0804	12.7	4.76	R1.6
 STM..R  STM..L		STM16R	9.525	3.18	
		16L	9.525	3.18	
		22R	12.7	4.76	
		22L	12.7	4.76	

M 型车刀压板配件
M Type Turning tool Clamp

图示 Object	规格 Type	螺丝 Screw	总长 Length	高度 Height
	HL1511	M5	15	11
	HL1808	M5	18	8
	HL1810	M6	18	10
	HL1812	M6	18	12
	HL1814	M6	18	14
	HL2114	M6	21	14
	HL2414	M6	24	14
	HL1917	M8	19	19
	HL2217	M8	22	17
	HL2317	M8	23	17

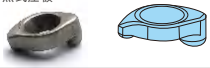
刀具梅花螺丝扳手/内六角扳手

Tool screw Plum blossom wrench / hexagon wrench

图示 Object	规格 Type	订购编码 Order	尺寸 Size
旗形-梅花 	T5	801901	
	T6	801900	
	T7	801902	
	T8	801904	
	T9	801906	
	T10	801908	
	T15	801910	
	T20	801912	
	T25	801913	
T形-梅花 	TT8	802100	
	TT10	802102	
	TT15	802104	
	TT20	802106	
	TT25	802108	
	TT30	802110	
直柄-梅花 	IT5	802200	
	IT6	802202	
	IT7	802204	
	IT8	802206	
	IT9	802207	
	IT10	802208	
	IT15	802210	
	IT20	802212	
	IT25	802214	
	IT30	802216	
	IT40	802217	
内六角 	PL1.25	802290	L1. 25×40×13
	PL1.5	802292	L1. 5×45×15
	PL2	802300	L2.0×50×17
	PL2.5	802302	L2. 5×59×20
	PL3	802304	L3.0×60×20
	PL3.5	802305	L3. 5×60×22
	PL4	802306	L4.0×74×29
	PL5	802308	L5.0×85×33
	PL6	802310	L6.0×96×38
	PL8	802312	
	PL10	802314	
	PL12	802316	
T型-内六角 	TL2	802400	
	TL2.5	802402	
	TL3	802404	
	TL4	802406	
	TL5	802408	
	TL6	802410	
	TL8	802412	
直柄-内六角 	IL2	802250	
	IL2.5	802252	
	IL3	802254	
	IL4	802256	

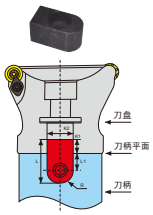
铣刀压板配件

Milling Clamp Accessory

图示 Object	规格 Type	订购编码 Order	尺寸 Size
EMR/TRS 点式压板 	YB4R	802500	M4刀片压紧
	YB5R	802502	M5刀片压紧
	YB6R	802504	M6刀片压紧
	YB8R	802506	M8刀片压紧
AJX 铣刀压板 	AJX09	802511	JDMW09T320
	AJX121304	802512	JDMW120420
	AJX141605M	802508	JDMW140520
SKS 铣刀压板 	DCM-17	802507A	SKS 18X10X5.0
	DCM-18	802507B	SKS 13X8X3.2
ASR 铣刀压板 	SC1408	802513A	ASR 14X8X4.0
	SC1609	802513B	ASR 16X9X5.0
	TST-181005	802515	CSY20 17.5X9.3X4.5
压板 	JC-CGBR	802530	CGBR
	JC-CPS-5V	802532	CPS-5V
	JC-CPS-6V	802534	CPS-6V
TP伞形压板 TP Cutter Screw 	M3/16X32GX13L	802516	TP1103
	M1/4X28GX17L	802518	TP1603
	M5/16X24GX23L	802520	TP2204
龙门铣刀盘配件 Flat cutter parts 	5251压块TJS525FP	802550	Flat cutter parts
	5252垫片Screw	802552	Flat cutter parts
	5253四角垫片	802554	Flat cutter parts
	5254双头螺丝Screw	802556	Flat cutter parts

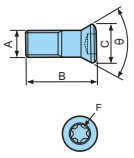
FMA/FMB 平面铣刀刀柄固定块

FMA/FMB Milling Cutter Toolholder Fixed Block

图示 Object	规格型号 Type	订购编码 Order Number	K2XHXLXR	L1XK1	配套螺丝 Screw
	FMB16	802900	8X7X13XR4	5X3.8	M3X8
	FMB22-4	802902	10X10X15.8XR5	6X4.8	M4X10
	FMB22-5	802904	10X10X15.8XR5	6X4.8	M5X10
	FMB27	802906	12X11X18.8XR6	7X5.8	M5X12
	FMB32	802908	14X13X21.8XR7	8X6.8	M6X14
	FMB40	802910	16X15X25.3XR8	9X8.3	M6X16
	FMA22.225	802920	7.94X7X12.5XR3.97	5X3.5	M1/8X8
	FMA25.4	802922	9.52X9X15.3XR4.76	6X4.52	M5/32X10
	FMA31.75	802924	12.7X12X20XR6.35	7X6.7	M3/16X12
	FMA38.1	802926	15.88X15X25.8XR7.94	9X8.87	M1/4X14
	FMA50.8	802928	19.05X18X29.3XR9.52	10X9.75	M5/16X18
	FMA47.625	802930	25.4X18X38.2XR12.7	13X12.5	M5/16X18

球形铣刀精密螺丝

Spherical Precision Milling Cutter Screw

图示 Size(mm)	订购编码 Order	规格 Type	A	B	C	F	适用刀片 Insert
		T2139-R4	M3. 0×0. 5	7			R4
		T2139-R5	M4. 0×0. 5	9			R5
		T2139-R6	M5. 0×0. 5	9			R6
		T2139-R8	M5. 0×0. 5	13			R8
		T2139-R10	M5. 0×0. 5	16			R10
		T2139-R12.5	M6. 0×0. 75	21			R12. 5
		T2139-R15	M8. 0×0. 75	25			R15
		T2139-R16	M8. 0×0. 75	25			R16
		BNM-R5	M3. 0×0. 35	8			BNM-100
		BNM-R6	M3. 5×0. 6	9			BNM-120
		BNM-R8	M4. 0×0. 7	13			BNM-160
		BNM-R10	M5. 0×0. 8	16			BNM-200
		BNM-R12.5	M6. 0×1. 0	20			BNM-250
		BNM-R15	M8. 0×1. 25	25			BNM-300
		ZCC-R6	M4. 0×0. 7	10			R6
		ZCC-R8	M5. 0×0. 8	11			R8
		ZCC-R10	M5. 0×0. 8	16			R10
		ABPF-R3	M2.0×0.4	5			ABPF-R3
		ABPF-R4	M3. 0×0. 5	6			ABPF-R4
		ABPF-R5	M3. 5×0. 6	8			ABPF-R5
		ABPF-R6	M5. 0×0. 8	9			ABPF-R6
		ABPF-R8	M5. 0×0. 8	13			ABPF-R8
		ABPF-R10	M6. 0×1. 0	17			ABPF-R10
		ABPF-R12.5	M6. 0×1. 0	22			ABPF-R12.5
		ABPF-R15	M8. 0×1. 25	25			ABPF-R15
		ABPF-R16	M8. 0×1. 25	25			ABPF-R16
		MITSUBISHI-R5	M3. 0×0. 5	8			R5
		MITSUBISHI-R6	M3. 5×0. 6	10			R6
		MITSUBISHI-R8	M4. 0×0. 7	14			R8
		MITSUBISHI-R10	M5. 0×0. 8	16			R10
		MITSUBISHI-R12.5	M6. 0×1. 0	22			R12.5
		MITSUBISHI-R15	M8. 0×1. 25	25			R15

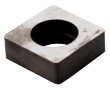
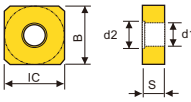
SLN 侧固式铣刀刀柄固定螺丝

SLN Fixing screw of side fixed milling cutter shank

图示 Object	规格型号 Type	订购编码 Order Number	长度x螺距 Thread × Wrench	钻孔位置 Hole Spacing
	SLN06	802950	M6X6XP1.0XL3	18X0
	SLN08	802952	M8X8XP1.25XL4	18X0
	SLN10	802954	M10X10XP1.5XL4	20X0
	SLN12	802956	M12X12XP1.75XL6	22.5X0
	SLN16	802958	M14X14XP2.0XL6	24X0
	SLN20	802960	M16X16XP2.0XL8	25X0
	SLN25	802962	M18X18XP2.0XL10	24X25
	SLN32	802964	M20X20XP2.0XL10	24X28
	SLN40	802966	M20X20XP2.0XL10	30X32
	SLN42	802968	M20X20XP2.0XL10	30X32

铣刀垫片

Milling Cutter Alloy Shim

图示 Object	尺寸标示 Dimensions	规格 Type	IC	S	B	d1	d2	适用刀片 Used
		SC10503	10. 5	3. 0	10. 5	5. 4	7	SE. . 13T3
		SB9403	9. 4	3. 18	9. 4	5. 4	7	SE..1204
		SC1003	10	3. 18	10	5. 4	7	SD12
		SX10503	10. 5	3	10. 5	5. 4	7	R290-12T3

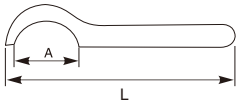
镗刀零配件

Boring tool parts

图示 Object	螺丝 Screw	尺寸 Size	对应镗刀 Corresponding
调节螺丝 Regulating Screw 	精镗 Fine boring head B1-2 Screw	M3×8×5×L2	CK1 微调螺杆
	微调螺杆 Regulation of Screw cutter	PTM6×60×P1.0×L3	- 微调螺杆
	微调螺杆 Regulation of Screw cutter	M6×17×P0.5×L3-CK4	CK4 微调螺杆
	精镗 NBH2084 Fine boring side Screw	M12×16×P1.75	NBH2084 微调螺杆
刀片座固定螺丝 Insert seat side fastening screws 	129BT-M3×7×P0. 5×H2		CK1(BIG)
	129BT-M3×8×P0. 5×H2		CK2(BIG)
	129BT-M4×11×P0. 7×H2.5		CK3(BIG)
	129BT-M5×13.7×P0. 8×H3		CK4(BIG)
	129BT-M5×14.2×P0. 8×H4		CK5(BIG)
	129BT-M8×21.4×P1.25×H5		CK6(BIG)
镗刀侧固螺丝 Fine boring side Screw Refined Sugar Cephalic Screw Fixation 	M4×5×P0. 5×A30		CK1(BIG)
	M5×7×P0. 5×A30		CK2(BIG)
	M6×8×P0. 75×A30		CK3(BIG)
	M8×11×P0. 75×A30		CK4(BIG)
	M10×14×P1.0×A30		CK5(BIG)
	M12×18×P1.0×A30		CK6(BIG)
	M16×20×P1. 5×A30		MD63F(KORLOY)
	M16×26×P1. 5×A30		MD80F(KORLOY)
	M16×31×P1. 5×A30		MD90F(KORLOY)

C/OZ 型刀柄扳手

C/OZ Toolholder Wrench

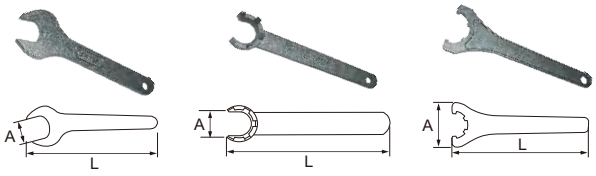




型号 Cat.No	A	L	重量 Weight(KG)	单价 PRICE(RMB)
BS-C20	55-55	245	0.17	120
BS-C25	56-61	270	0.2	120
BS-C32	68-73	290	0.3	120
BS-C42	88-96	340	0.42	120
BS-OZ25	55-60	250	0.24	80

ER 型刀柄扳手

ER Toolholder Wrench

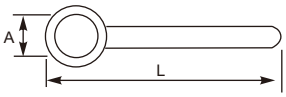


ER型扳手 A　　ER型扳手 M　　ER型扳手 UM

型号 Cat.No	A	L	重量 Weight(KG)	单价 PRICE(RMB)
BS-ER11A	17.2	120	0.10	100
BS-ER16A	25.2	140	0.15	100
BS-ER20A	30.3	160	0.19	100
BS-ER8M	12	75	0.05	100
BS-ER11M	16	95	0.04	100
BS-ER16M	22	117	0.06	100
BS-ER20M	28	129	0.07	100
BS-ER25M	35	142	0.09	100
BS-ER25UM	42	210	0.15	110
BS-ER32UM	50	250	0.28	120
BS-ER40UM	64	290	0.42	130

GER/GSK 型刀柄扳手

GER/GSK Toolholder Wrench





GER型扳手　GC型扳手　GSK型扳手

型号 Cat.No	A	L	重量 Weight(KG)	单价 PRICE(RMB)
BS-GER16	30	150	0.24	300
BS-GER16MINI	25	150	0.24	300
BS-GER20	35	160	0.30	300
BS-GER20MINI	30	160	0.30	300
BS-GER25	40	180	0.35	300
BS-GER25MINI	35	180	0.35	300
BS-GER32	50	180	0.70	400
BS-GSK06	19.5	110	0.11	500
BS-GSK10	27.1	150	0.29	300
BS-GSK16	40	170	0.39	300
BS-GSK25	55	210	0.38	500

SK 型刀柄扳手

SK Toolholder Wrench



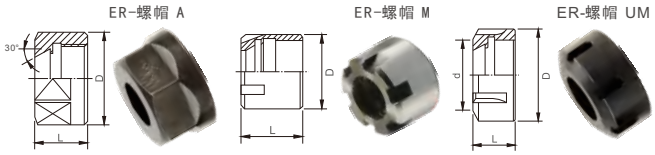


SK型扳手

型号 Cat.No	A	L	重量 Weight(KG)	单价 PRICE(RMB)
BS-TSK06	18.2	175	0.11	200
BS-TSK10	25.2	175	0.12	152
BS-TSK16	40	220	0.15	228
BS-TSK25	55	230	0.17	304

ER 型刀柄螺帽

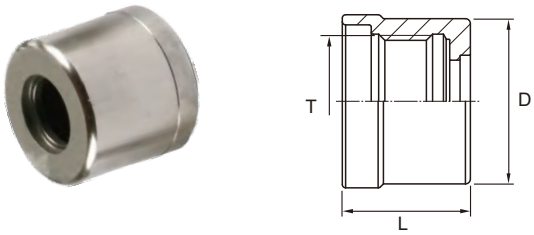
ER Toolholder Nut



型号 Cat.No	D	L	适配扳手 Matching Wrench	单价 PRICE(RMB)
LM-ER11A	19	11.5	BS-ER11A	100
LM-ER16A	28	17.5	BS-ER16A	100
LM-ER20A	34	19.0	BS-ER20A	100
LM-ER8M	12	10.8	BS-ER8M	100
LM-ER11M	16	12.0	BS-ER11M	100
LM-ER16M	22	18.0	BS-ER16M	100
LM-ER20M	28	19.0	BS-ER20M	100
LM-ER25M	35	20.0	BS-ER25M	100
LM-ER25UM	42	20.0	BS-ER25UM	100
LM-ER32UM	50	22.5	BS-ER32UM	110
LM-ER40UM	64	25.5	BS-ER40UM	120
LM-ER50UM	78	35.3	BS-ER50UM	150

GSK 型刀柄螺帽

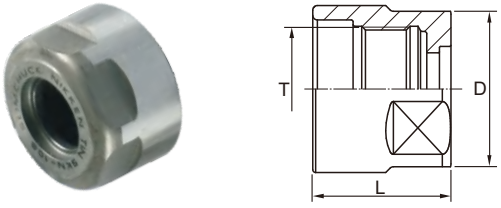
GSK Toolholder Nut



型号 Cat.No	D	L	适配扳手 Matching Wrench	单价 PRICE(RMB)
LM-GER16	30	21	BS-GER16	120
LM-GER16MINI	25	21	BS-GER16MINI	120
LM-GER20	35	21.8	BS-GER20	130
LM-GER20MINI	30	21.8	BS-GER20MINI	130
LM-GER25	40	23	BS-GER25	140
LM-GER25MINI	35	23	BS-GER25MINI	140
LM-GER32	50	35	BS-GER32	180
LM-GSK06	19.5	21.3	BS-GSK06	260
LM-GSK10	27.1	24.2	BS-GSK10	300
LM-GSK16	40	31	BS-GSK16	350
LM-GSK25	55	37.5	BS-GSK25	420

SK 型刀柄螺帽

SK Toolholder Nut

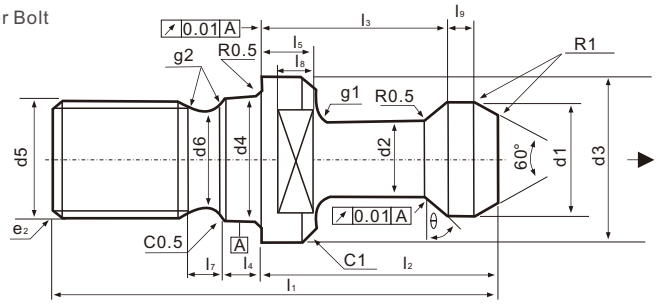


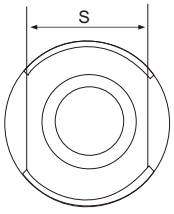
型号 Cat.No	D	L	适配扳手 Matching Wrench	单价 PRICE(RMB)
LM-TSK06	19.5	15	BS-TSK06	200
LM-TSK10	27.5	17	BS-TSK10	152
LM-TSK16	40	24.3	BS-TSK16	228
LM-TSK25	55	37	BS-TSK25	304

数控铣床刀柄拉杆/拉头

NC Milling Machine Toolholder Pull Rod / Puller Bolt







规格前缀：LD..

订购编码 Order	拉钉型号 Type	D	d3	d1	d2	L	e	G	Q	用途 Application	备注 Note	单价 Price
809600	PS-1	15	23	17	10	60	35	M16	45	BT40-1标准型	MAS P40T-1	40
809602	PS-2								60	BT40-2标准型	MAS P40T-2	40
809604	PS-3	19	31	21	14	7	40	M20	45	BT45-1标准型	MAS P45T-1	50
809606	PS-4								60	BT45-2标准型	MAS P45T-2	50
809608	PS-5	23	38	25	17	85	45	M24	45	BT50-1标准型	MAS P50T-1	80
809610	PS-6								60	BT50-2标准型	MAS P50T-2	80
809612	PS-16	11	16.5	12.5	7	43	23	M12	45	BT30-1标准型	MAS P30T-1	40
809614	PS-17								60	BT30-2标准型	MAS P30T-2	40
809616	PS-18	13	20	28	8.5	48	28	M24	45	BT35-1标准型	MAS P35T-2	50
809618	PS-19								60	BT35-2标准型	MAS P35T-2	50
809620	PS-5F	23	38		17	85	45		45	BT50-1	PS-5 端面研磨	90
809622	PS-6F								60	BT50-2	PS-6 端面研磨	90
809624	PS-50					110	70		45	BT50		90
809626	PS-53			26.187		85.2	45.2	1-8UNC		CAT50U		90
809628	PS-63			26		82.5	45	1-8UNC	60			90
809630	PS-70	19	23	17	14	60	35	M16	45	BT40		40
809632	PS-72	15		16.281	10	57.15	32.15	5/8-11UNC		CAT40U		40
809634	PS-0	23	38	25	17	85	45	M24	90	BT50-90型		90
809636	PS-08-1	15	23	17	10	60	35	M16		BT40-90型		50
809638	PS-P	24	36	25	18	71	31	M24		BT50三井精机		90
809640	PS-P5-1	15	23	17	10	50	25	M16		BT40三井精机		50
809642	PS-P10	11	16	12.5	7	40	20	M12		BT30三井精机		40
809644	PS-U2	13.7	20	13	8.9	53	28	M24	60	BT35松浦机械		50
809646	PS-G4	23	38	25	17	85	45		90	BT50马扎克		90
809648	PS-G5	15	23	17	10	54.6	29.6	M16		BT40马扎克		50
809650	PS-G45	28.956	37	25	20.828	65.2	25.2	M24	45	BT50马扎克端面研磨	PS-G41无孔	100
809652	PS-G58	18.796	22	17	12.446	44.1	19.106	M16		BT40马扎克端面研磨	PS-G51无孔	80
809654	PS-G60	18.796	21.8	16.281	12.446	41.256	16.256	5/8-11UNC		CAT40U大限		60
809656	PS-O19	23	38	-	17	85	45.2	1-8UNC	90	CAT50U		90
809658	PS-O47			25	17	85	45	M24		IT50 森精机		90
809660	PS-P13	24	36	-	18	71	31	1-8UNC		CAT50U 三井精机		90
809662	PS-H30	15	23	16.281	10	57.2	32.2	5/8-11UNC	45	CAT40U 日立精机		60
809664	PS-B1	22	38	25	16	112	72	M24	60	BT50 大限		90
809666	PS-809	28	23	17	21	74	34		75	BT50 端面研磨	JIS-B6339-89	90
809668	PS-805	19			14	54	29	M16		BT40 端面研磨	JIS-B6339-89	60
809670	PS-801	12	16.5	12.5	8	43	23.4			BT30 端面研磨	JIS-B6339-89	50
809672	PS-J	14	20	13		45	23	M12	90	BT35 北村机械		60
809674	PS-M10	14	16	12.5	10	40	22		45	CAT30S 牧野精机		50
809676	PS-R3	10	18	13	7	43	25			BT35 碌碌产业		80
809678	PS-C	21	39	25	15	105.1	63.1	M24		BT50 日立精工		90
809680	PS-301	15	23	17	11	60	35	M16	60	BT40 津上		40
809682	PS-Q3	16	16.5	12.5	12.5	31.8	11.8	M12	45	BT30		40
809684	PS-BR*1	7	10	6.5	4	28	17	M6	45	BT15 兄弟工业		90
809686	PS-81	12	16.5	12.5	8	44	24	M12	R4	BT30 CKD用		50
809688	PS-581	28	36	25	21	74	34	M24	75	IT50	DIN69872-B-1988	90
809690	PS-302	19	23	17	14	54	26	M16		IT40	DIN69872-A-1988	70
809692	PS-122	13	17	13	9	44	24	M12		IT30	DIN69872-A-1988	60
809694	PS-S27	18.95	22.5	17	12.95	44.25	19.25	M6	45	BT40新日本工机		50

※中心通油型机床在使用无中心孔拉钉时，请使用端面研磨拉钉。
※PS-814停产统一用PS-805
※PS-P5停产统一用PS-P5-1
※PS-08停产统一用PS-08-1
※拉钉一体及PS-BR拉钉使用BT15细杆刀柄P37
※需要附ID的拉钉时，请在型号后加ID表示例：PS-6-IDB

※The center passes the oil-type engine bed when uses the non-center bore puller bolt.
※PS-814 abolishes the unification to use PS-805
※PS-P5 abolishes the unitication to use PS-P5-1
※PS-08 abolishes the unification to use PS-08-1
※puller bolt body makes and the PS-BR puller bolt recommendation uses BT15 thin pole hillt P37
※When needs to attach ID the puller bolt,please at model add-on ID table demonstration:PS-6-IDB

数控铣床刀柄拉杆/拉头

NC Milling Machine Toolholder Pull Rod / Puller Bolt


BT


MAZAK


JIS


DIN69872

中心通油型拉钉

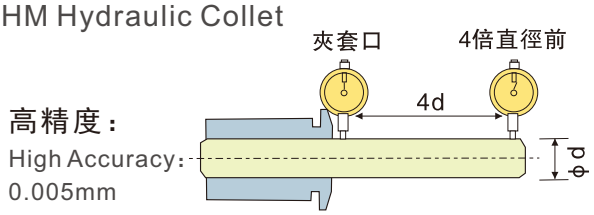
The center pases the oil-type puller bolt

规格前缀：LD..

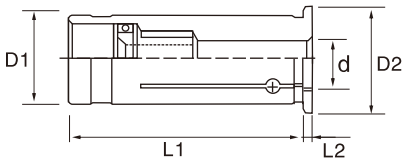
订购编码 Order	拉钉型号 Type	用途 Application	机床厂家 Machine Tool Manufacturer	内孔 d3		备注 Note	单价 Price
809700	PS-130E	BT30-MAS-II特殊	兄弟工业东注精机工业	2.5		d2=7.5	60
809702	PS-132	BT30-MAS-I特殊	FANUC	4		d2=8	60
809704	PS-802	BT31-JIS-B6339-89		4		PS-801带孔	60
809706	PS-876	BT30 JIS	山崎马扎克	2.5		d4=5.5 o=30	60
809708	PS-73	BT40-MAS-I		4		PS-1带孔	70
809710	PS-371	BT40-MAS-I	大隈丰和	3		d4=7 o=30	70
809712	PS-392	BT40-MAS-I	丰田工机	3		d4=7.3	0
809714	PS-H28	BT40-MAS-I	日立精机	3		d4=5	70
809716	PS-75*1	BT44-MAS-II		4		PS-2带孔	70
809718	PS-806-1	BT40-JIS		6		PS-805 6带孔	70
809720	PS-813-1		牧野制作所	6		AS568-015带O型密封圆环	70
809722	PS-854		安田工业	6		3带风孔	70
809724	PS-874			6		d4=10 o=30	70
809726	PS-877		JTEKT	3		d4=7.3	70
809728	PS-B62-1		大隈	4		S15带O型密封圆环	70
809730	PS-366E-1	BT40 中心通孔	森精机制作所	7		d4=10 o=30 N29104*3	70
809732	PS-G51	BT40 ANSI	山崎马扎克	7		PS-G58 带孔34931900680*2	70
809734	PS-G510			7		PS-G51高压型34261910160*2	70
809736	PS-309	IT40 DIN		7		DIN 69872-A-1988	80
809738	PS-380E	IT40 DIN 中心通孔	森精机制作所	7		d4=10 o=30 N29106*3	80
809740	PS-A1	IT40 ISO A		7		ISO-7388/2-1984A	80
809742	PS-A4	IT40 ISO B		7.35		ISO-7388/2-1984B	80
809744	PS-G52	IT40 ANSI	山崎马扎克	7		34931900660*2	80
809746	PS-G53	CAT40U ANSI		7		34931900670*2	80
809748	PS-B64-1	CAT40U ANSI	大隈	4		S15带O型密封圆环	80
809750	PS-D72	CAT40U ANSI		7		ANSI/ASME B5,50-1985	80
809752	PS-381E	CAT40U 中心通孔	森精机制作所	7		d4=10 o=30 N29105*3	80
809754	PS-5E	BT50-MAS-I		6		PS-5带孔	100
809756	PS-552	BT50-MAS-I	丰田工机	6		d4=10.4	100
809758	PS-563		安田工业	5.5		d4=11.2 o=60	100
809760	PS-595		森精机制作所	8		d4=11 o=30 N29120*3	100
809762	PS-5024		大隈丰和	6		d4=9.5 o=30	100
809764	PS-5027		大阪机工	6		端面附带O型密封圆环	100
809766	PS-5030G		东芝机械	4.5		带O型密封圆环	100
809768	PS-M16		牧野制作所	6		带O型密封圆环	100
809770	PS-H38-B		日立精机	3		端面附带O型密封圆环	100
809772	PS-6E	BT50-MAS-II		6		PS-6带孔	100
809774	PS-578	BT50-MAS-II	丰田工机	6		d4=10.4	100
809776	PS-579		安田工业	5.5		d4=11.2 o=60	100
809778	PS-596		森精机制作所	8		d4=11 o=30 n29126*3	100
809780	PS-5016		大隈丰和	6		d4=9.5 o=30	100
809782	PS-B60		大隈	6		带O型密封圆环	100
809784	PS-H39-B		日立精机	3		端面附带O型密封圆环	100
809786	PS-O31	BT50 90		6		PS-O穴付	100
809788	PS-O56		森精机制作所	8		d4=11 o=30 N29119*3	100
809790	PS-O67		大阪机工	6		端面附带O型密封圆环	100
809792	PS-O48-B		日立精机	3		端面附带O型密封圆环	100
809794	PS-810	BT50 JIS-B6339-89		10		PS-809带孔	100
809796	PS-819	BT50 JIS	丰田工机	6		d4=10.4	100
809798	PS-833		安田工业	5.5		d4=11.2 o=60	100
809800	PS-816-1		牧野制作所	6		P21带O型密封圆环	100
809802	PS-P16	BT50 三井精机专用	三井精机	8		PS-P带孔端面研磨	100
809804	PS-G41	BT50 ANSI	山崎马扎克	10		端面附带O型密封圆环44831901160*2	100
809806	PS-G63			10		PS-G45带孔端面研磨32551901720*2	100
809808	PS-G410			10		PS-G41高压规格34341901620*2	100
809810	PS-D92	CAT50U ANSI		11.7		ANSI/ASME B5,50-1985	100
809812	PS-A3	IT50 ISO A		11.5		ISO-7388/2-1984A	100
809814	PS-A6	IT50 ISO B		11.55		ISO-7388/2-1984B	100
809816	PS-512	IT50 DIN		11.5		DIN 69872-A-1988	100

HM 液压筒夹

HM Hydraulic Collet







精度0.005mm Accuracy：0.005mm

型号 Cat.No	D1	D2	L1	L2	d	订购 Order	单价 PRICE (RMB)
HM12 -3	12	16	44.5	2	3	803100	700
-4					4	803102	700
-5					5	803104	700
-6					6	803106	700
-7					7	803108	700
-8					8	803110	700
-10					10	803112	700
HM20 -3	20	24	50.5	2	3	803114	700
-4					4	803116	700
-5					5	803118	700
-6					6	803120	700
-7					7	803122	700
-8					8	803124	700
-9					9	803126	700
-10					10	803128	700
-11					11	803130	700
-12					12	803132	700
-13					13	803134	700
-14					14	803136	700
-15					15	803138	700
-16					16	803140	700
-17					17	803142	700
-18					18	803144	700
HM32 -6	32	36	60.5	3	6	803146	850
-8					8	803148	850
-10					10	803150	850
-12					12	803152	850
-14					14	803154	850
-16					16	803156	850
-18					18	803158	850
-20					20	803160	850
-25					25	803162	850

※采用直身設計
※適用于液壓刀柄

※Uses the straight body design
※Is suitable for the hydraulic pressure hilt

精度0.003mm Accuracy：0.003mm

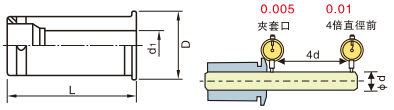
型号 Cat.No	D1	D2	L1	L2	d	订购 Order	单价 PRICE (RMB)
OHM12 -3	12	19	44.5	2	3	803200	950
-4					4	803202	950
-5					5	803204	950
-6					6	803206	950
-7					7	803208	950
-8					8	803210	950
-10					10	803212	950
OHM20 -3	20	29	50.5	2	3	803214	950
-4					4	803216	950
-5					5	803218	950
-6					6	803220	950
-7					7	803222	950
-8					8	803224	950
-9					9	803226	950
-10					10	803228	950
-11					11	803230	950
-12					12	803232	950
-13					13	803234	950
-14					14	803236	950
-15					15	803238	950
-16					16	803240	950
-17					17	803242	950
-18					18	803244	950
OHM32 -6	32	39	60.5	3	6	803246	1150
-8					8	803248	1150
-10					10	803250	1150
-12					12	803252	1150
-14					14	803254	1150
-16					16	803256	1150
-18					18	803258	1150
-20					20	803260	1150
-25					25	803262	1150

C 强力型刀柄筒夹

C powerful tool holder collet

规格表示方法

SCA.. 0.005mm
SCB.. 0.008mm
SC.. 0.02mm

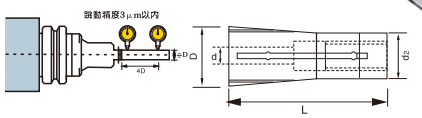




名称 Style	型号 Cat.No	D	L	订购 Order Number	单价 PRICE (RMB)
C20	C20-3,4,5,6,8,10,12,16	26	55.1	803300	100
C25	C25-3,4,5,6,8,10,12,16,20	30	63	803302	120
C32	C32-3,4,5,6,7,8,9,10,12,16,20,25	38	70	803304	140
C32	C32-1/4,5/16,3/8,1/2,5/8,3/4,1"	38	70	803306	140
C42	C42-3,4,6,8,10,12,16,20,25,32	48	75	803308	200
C42	C42-1/4,5/16,3/8,1/2,5/8,3/4,1",1-1/4"	48	75	803310	200

ADS/MX 后拉式刀柄筒夹

Ads / MX back pull toolholder collet





名称 Style	型号 Cat.No	精度 标准	精度 精密级	D	L	订购 Order Number	单价 PRICE (RMB)
MX6	MX6-2,3,4,5,6,3.175	0.005	0.003	9.6	36	803400	680
MX10	MX10-3,4,5,6,8,10	0.005	0.003	16	52	803402	680
MX12	MX12-3,4,5,6,8,10,12	0.005	0.003	22	57	803404	680

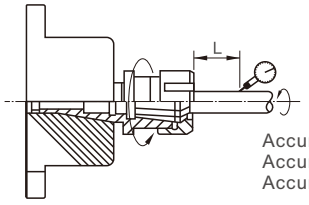
ER 刀柄筒夹

ER Toolholder Collet



规格表示方法

ERA..	0.005mm
ERB..	0.008mm
ER..	0.02mm

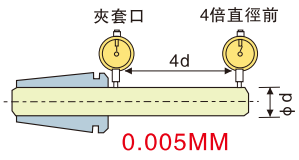


跳动精度
Accuracy：0.02mm
Accuracy：0.008mm
Accuracy：0.005mm

型号 Cat.No	订购 Order	单价 PRICE (RMB)
ER8-1,1.5,2,2.5,3,3.5,4,4.5,5		100
ER11-1, 1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7		100
ER16-1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10		100
ER20-1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13		100
ER25-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16		105
ER32-1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22		110
ER40-2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28		120
ER50-12,14,16,18,20,22,24,26,28,30,32,34		350

SK 刀柄筒夹

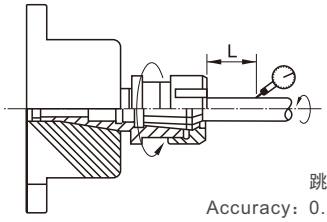
SK Toolholder Collet





规格表示方法

SSK..	0.005mm
SK..	0.008mm



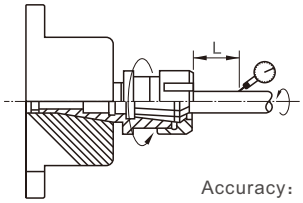
跳动精度
Accuracy：0.005mm

型号 Cat.No	订购 Order	单价 PRICE (RMB)
SK6-0.8,1,1.25,1.5,1.75,2,2.25,2.5,2.75,3,3.5,4,4.5,5,5.5,6	803500	420
SK10-2,2.25,2.5,2.75,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	803502	350
SK16-3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13,13.5,14,14.5,15,15.5,16	803504	350
SK20-3,4,5,6,8,10,12,16,20	803506	350
SK25-6,8,10,12,14,16,16.5,17,17.5,18,18.5,19,19.5,20,20.5,21,21.5,22,22.5,23,23.5,24,24.5,25,25.4	803508	380

OZ 刀柄筒夹

OZ Toolholder Collet





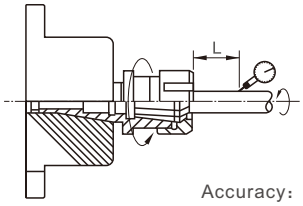
跳动精度
Accuracy：0.015mm

型号 Cat.No	订购 Order	单价 PRICE (RMB)
OZ25-3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	803700	100
OZ32-3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32	803702	100

ERZ 刀柄止水筒夹

ERZ Toolholder Water Stop Collet





跳动精度
Accuracy：0.015mm

型号 Cat.No	订购 Order	单价 PRICE (RMB)
ERZ16-4，5，6，7，8，9，10	803800	150
ERZ20-4，5，6，7，8，9，10，11，12	803802	150
ERZ25-4，5，6，7，8，9，10，11，12，13，14，15，16	803804	150
ERZ32-4，5，6，7，8，9，10，11，12，13，14，15，16，18，20	803806	150
ERZ40-4，5，6，7，8，9，10，11，12，13，14，15，16，18，20，25	803808	200

G 扭力攻牙刀柄套筒
G Quick Change Taps Collet

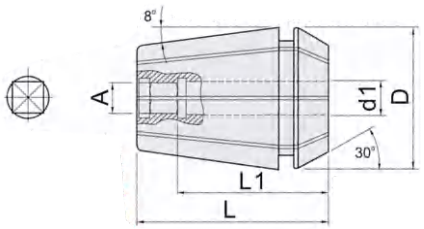


名称 Style	型号 Cat.No	订购编码 Order Number	单价 PRICE (RMB)
G24	G24-M24,M25,M26,M27,M28,M30,M32,M33,M34,M35,M36,M39,M40,M42,M45,M48 -UNC9/16,UNC5/8,UNC3/4,UNC7/8,UNC1,UNC1-1/8,UNC1-1/4,UNC1-3/8 -PT1/4,PT3/8,PT1/2,PT3/4,PT1	804000	600
G12	G12-M6,M7,M8,M9,M10,M11,M12,M14,M15,M16,M17,M18,M20,M22,M24,M27,M30 -UNC3/8,7/16,1/2,9/16,5/8,3/4,7/8 -PT1/8,PT1/4,PT3/8,PT1/2	804002	450
G3	G3-M3,M4,M5,M6,M7,M8,M9,M10,M11,M12,M14,M15,M16 -UNC1/4,UNC5/16,UNC3/8,UNC7/16,UNC1/2,UNC9/16 -PT1/8,PT1/4	804004	300

※ 选购本产品时请注明筒夹是方孔还是圆孔及所用丝攻之品牌或参照标准。

ERT丝攻筒夹
ERT Tapping Collets





ErT丝攻筒夹均根据精度标准1级（10微米）制造。

ERT tapping collets are manufactured according to accuracy standard 1 (10 microns).

既适用于标准的ER夹头，又适用于丝攻夹头。
（根据丝攻特定的柄径和方形的尺寸）。

ERT16 筒夹 ERT16 Collets

D=16. 5/L=27. 5

订购编号 Order No.	规格型号 Model	d1	丝攻标准 Tapping standard		丝攻方头尺寸 A-□ mm	L1	价格 Price
			DIN371	DIN376			
804200	ERT 16045	4.5	M4	M6	3.4	18	
804202	ERT 16050	5	ISO	JIS	4	18	
804204	ERT 16055	5.5		M7	4.5	18	
804206	ERT 16060	6	M4.5-M5-M6	M8	4.9	18	
804208	ERT 16070	7	M7	M9-M10	5.5	18	

ERT20 筒夹 ERT20 Collets

D=20. 5/L=32. 5

订购编号 Order No.	规格型号 Model	d1	丝攻标准 Tapping standard		丝攻方头尺寸 A-□ mm	L1	价格 Price
			DIN371	DIN376			
804300	ERT 20045	4.5	M4	M6	3.4	18	
804302	ERT 20050	5	ISO	JIS	4	18	
804304	ERT 20055	5.5		M7	4.5	18	
804306	ERT 20060	6	M4.5-M5-M6	M8	4.9	18	
804308	ERT 20070	7	M7	M9-M10	5.5	18	
804310	ERT 20090	8	M8	M11	6.2	22	
804312	ERT 20100	9	M9	M12	7	22	
804314	ERT 20110	10	M10		8	25	

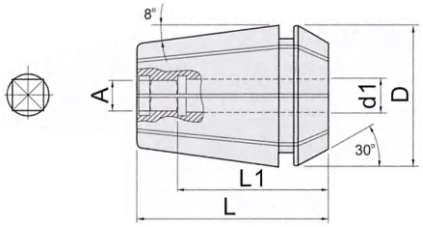
ERT25 筒夹 ERT25 Collets

D=25. 5/L=34

订购编号 Order No.	规格型号 Model	d1	丝攻标准 Tapping standard		丝攻方头尺寸 A-□ mm	L1	价格 Price
			DIN371	DIN376			
804400	ERT 25045	4.5	M4	M6	3.4	18	
804402	ERT 25050	5	ISO	JIS	4	18	
804404	ERT 25055	5.5		M7	4.5	18	
804406	ERT 25060	6	M4.5-M5-M6	M8	4.9	18	
804408	ERT 25070	7	M7	M9-M10	5.5	18	
804410	ERT 25080	8	M8	M11	6.2	22	
804412	ERT 28090	9	M9	M12	7	22	
804414	ERT 25100	10	M10		8	25	
804416	ERT 25110	11		M14	9	25	
804418	ERT 25120	12	M12	M16	9	25	

ERT32 筒夹
ERT32 Collets





既适用于标准的ER夹头，又适用于丝攻夹头。
（根据丝攻特定的柄径和方形的尺寸）。

ERT丝攻筒夹均根据精度标准1级（10微米）制造。

ERT tapping collets are manufactured according to accuracy standard 1 (10 microns).

D=32/L=40

订购编号 Order No.	规格型号 Model	d1	丝攻标准 Tapping standard		丝攻方头尺寸 A-□ mm	L1	价格 Price
			DIN371	DIN376			
804600	ERT 32045	4.5	M4	M6	3.4	18	
804602	ERT 32050	5	ISO	JIS	4	18	
804604	ERT 32055	5.5		M7	4.5	18	
804606	ERT 32060	6	M4.5-M5-M6	M8	4.9	18	
804608	ERT 32070	7	M7	M9-M10	5.5	18	
804610	ERT 32080	8	M8	M11	6.2	22	
804612	ERT 32090	9	M9	M12	7	22	
804614	ERT 32100	10	M10		8	25	
804616	ERT 32110	11		M14	9	25	
804618	ERT 32120	12	M12	M16	9	25	
804620	ERT 32140	14		M18	11	25	
804622	ERT 32160	16		M20	12	25	

ERT40 筒夹 ERT40 Collets

D=40.5/L=46

订购编号 Order No.	规格型号 Model	d1	丝攻标准 Tapping standard		丝攻方头尺寸 A-□ mm	L1	价格 Price
			DIN371	DIN376			
804800	ERT 40060	6	M4. 5-M5-M6	M8	4.9	18	
804802	ERT 40070	7	M7	M9-M10	5.5	18	
804804	ERT 40080	8	M8	M11	6.2	22	
804806	ERT 40090	9	M9	M12	7	22	
804808	ERT 40100	10	M10		8	25	
804810	ERT 40110	11		M14	9	25	
804812	ERT 40120	12	M12	M16	9	25	
804814	ERT 40140	14		M18	11	25	
804816	ERT 40160	16		M20	12	25	
804818	ERT 40170	17		JIS	13	33	
804820	ERT 40180	18		M22-M24	14. 5	33	
804822	ERT 40200	20		M27	16	33	
804824	ERT 40220	22		M30	18	33	

主轴清洁棒
Spindle Cleaning Rod



规格 Type	重量 Weight(KG)	单价 PRICE (RMB)
QJB-BT30	0.05	200
QJB-BT40	0.06	200
QJB-BT50	0.13	250

主轴测试棒
Spindle Test Bar



规格 Type	柄径 D	长度 L	同心度 Concentricity	单价 PRICE (RMB)
CSB-BT30-TA250L	32	250	±0.003	3300
CSB-BT40-TA300L	40	300		3800
CSB-BT50-TA300L	40	300		4200
CSB-SK40-TA300L	40	300		4200
CSB-SK50-TA300L	40	300		4550
CSB-CAT30-TA250L	32	250		3200
CSB-CAT40-TA300L	40	300		3600
CSB-CAT50-TA300L	40	300		4000
CSB-HSK63A-TA300L	40	400		7600

数控刀柄刀具拆卸座-锁刀座
CNC tool holder for tool removal


BT/CAT


NBT


XBT


ISO


HSK

	BT/CAT 锁刀座 Locking fixture		XBT 锁刀座 Locking fixture		ISO 锁刀座 Locking fixture		HSK锁刀座 Locking fixture	
	规格 Type	价格 Price	规格 Type	价格 Price	规格 Type	价格 Price	规格 Type	价格 Price
规格 Type	SDZ-BT30	600	SDZ-XBT30	750	SDZ-ISO20-33	2000	SDZ-HSK25	2000
	SDZ-BT40	600	SDZ-XBT40	750	SDZ-ISO25-37	2300	SDZ-HSK32	2300
	SDZ-BT50	800	SDZ-XBT50	1000	SDZ-ISO30-50	2300	SDZ-HSK40	2300
	SDZ-CAT30	1100			SDZ-NBT30-46	2300	SDZ-HSK50	3200
	SDZ-CAT40	1200	SDZ-NBT30	600			SDZ-HSK63	
	SDZ-CAT50	1450					SDZ-HSK100	

Z轴设定器
Z-Axis Setter



规格型号 Model No	图示 Fig	高度设定 Seting High	单价 Price
Z-ZIP50A 带表式	1	50mm±0.005	1000
Z-EIP50A 光电式	2	50mm±0.005	1000
Z-ASM50	3	50mm±0.005	2400
Z-ZAP50	4	50mm±0.005	2960
Z-ASM100	5	100mm±0.005	1800
Z-SM100	6	100mm±0.005	3000

1.在电脑铣床上设定刀长用
2.底座有磁性
1.Easy, quick, simple for setting tool length on the machine center
2.Base with magnetic

3D万向寻边器
3D Senors Haimer



规格型号 Model No	产品编码 Haimer	精度 Accuracy	柄径 Diameter	单价 Price
3D寻边器(3D-Sensors)	80.360.00	0.01mm	20mm	
3D短针(3D-Short Needle)	80.362.00	0.01mm	20mm	
3D长针(3D-long Needle)	80.363.00	0.01mm	20mm	

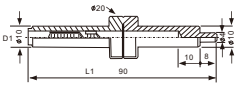
机械式寻边器
Mechanical Edge Finder



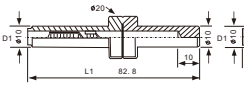
FM10-4



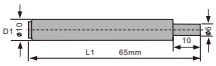
FM10-4-Tin
镀钛



FM10-4
FIG.1



FM10-10
FIG.2



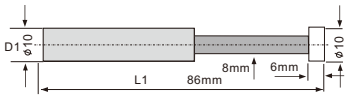
ME-610
FIG.3

规格型号 Model No	FIG	D1	L1	Price
FZB-FM10-4	1	10	90	160
FZB-FM10-4-Tin 镀钛	1	10	90	160
FZB-FM10-10	2	10	82.8	160
FZB-ME-610	3	10	65	160

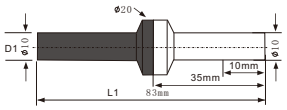
陶瓷寻边器
Ceramic Edge Finder



SH1020
FIG.1



SH-1020
FIG.1

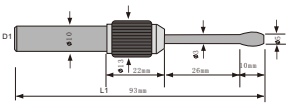


WH-1020
FIG.2

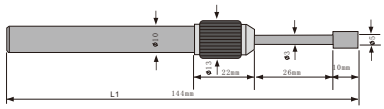
规格型号 Model No	FIG	D1	L1	Price
FZB-SH-1020	1	10	86	280
FZB-WH-1020	2	10	83	280

回转式寻边器
Rotary Edge Finder





ME-P1
FIG. 1

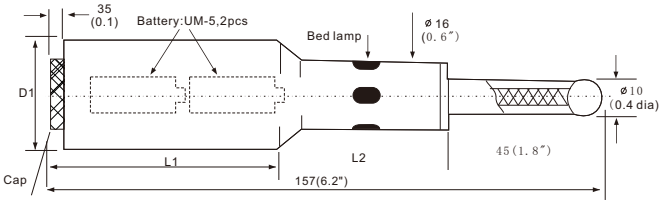


ME-P2
FIG.2

规格型号 Model No	FIG	D1	L1	Price
FZB-ME-P1	1	10	93	260
FZB-ME-P2	2	10	144	280

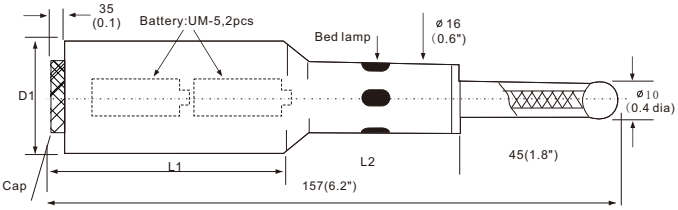
光电式寻边器
Photoelectric Edge Finder





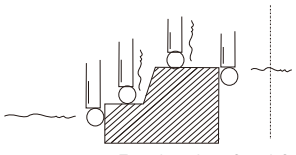
RM20/PM32

规格型号 Model No	FIG	L1	L2	Price
FZB-PM20	20	77	35	360
FZB-PM32	32	71	41	460

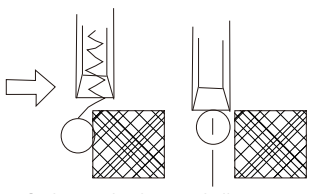


RM3/4", PM1-1/4

规格型号 Model No	FIG	L1	L2	Price
FZB-PM3/4"	19. 05(3/4)	77	35	360
FZB-PM1-1/4	31. 75(1-1/4″)	71	41	460



*Easy location of work face, O.D.L.D

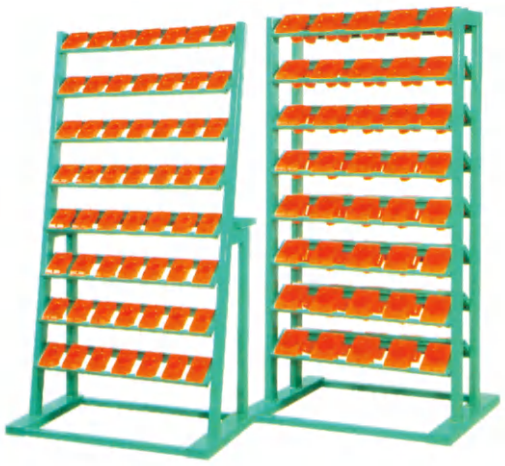


*Spring-retained sensor ball protects the unit against over-run

数控刀柄用刀具整理架

Tool arrangement frame for NC toolholder

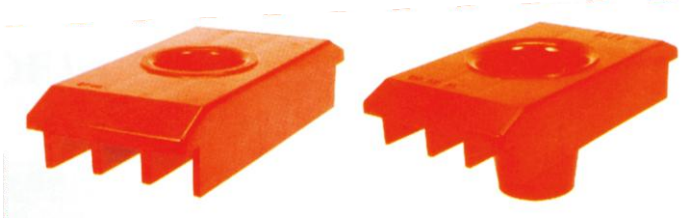
FIG.1 FIG.2



订购编码 Order	规格型号 Model No	适配刀架 Shank Size	装刀数量 Tool Capacity	单价 Price
806100	DJJ#30 TOOL STAND(刀具架)-FIG.1	BT/NT/CAT/NC30	64 PCS	
806102	DJJ#40 TOOL STAND(刀具架)-FIG.1	BT/NT/CAT/NC40	56 PCS	
806104	DJJ#50 TOOL STAND(刀具架)-FIG.1	BT/NT/CAT/NC50	40 PCS	
806106	DJJ#30 TOOL STAND(刀具架)-FIG.2	BT/NT/CAT/NC30	128 PCS	
806108	DJJ#40 TOOL STAND(刀具架)-FIG.2	BT/NT/CAT/NC40	112 PCS	
806110	DJJ#50 TOOL STAND(刀具架)-FIG.2	BT/NT/CAT/NC50	80 PCS	

数控刀柄用刀具套

Tool sleeve for NC toolholder



订购编码 Order	规格型号 Model No	外观尺寸 Size	适配刀架 Shank Size	单价 Price
806200	DJT#30 TOOL SHEATH(刀具盒)	64Wx137Dx48HMM	BT/NT/CAT/NC30	
806202	DJT#40 TOOL SHEATH(刀具盒)	74Wx137Dx63HMM	BT/NT/CAT/NC40	
806204	DJT#50 TOOL SHEATH(刀具盒)	104Wx137Dx93HMM	BT/NT/CAT/NC50	

数控刀柄用刀具车

Tool arrangement for NC toolholder

FIG.1 FIG.2



订购编码 Order	规格型号 Model No	适配刀架 Shank Size	装刀数量 Tool Capacity	抽屉数量 Number of drawers	单价 Price
806300	DJC#30 TOOL TROLLEY(刀具车)-FIG.1	BT/NT/CAT/NC30	32PCS	X	
806302	DJC#40 TOOL TROLLEY(刀具车)-FIG.1	BT/NT/CAT/NC40	28PCS	X	
806304	DJC#50 TOOL TROLLEY(刀具车)-FIG.1	BT/NT/CAT/NC50	20PCS	X	
806306	DJC#30 TOOL TROLLEY(刀具车)-FIG.2	BT/NT/CAT/NC30	32PCS	2-SET	
806308	DJC#40 TOOL TROLLEY(刀具车)-FIG.2	BT/NT/CAT/NC40	28PCS	2-SET	
806310	DJC#50 TOOL TROLLEY(刀具车)-FIG.2	BT/NT/CAT/NC50	20PCS	2-SET	

数控刀柄用刀具整理柜

Tool arrangement cabinet for NC toolholder

TC-S23
570Wx345Dx650HMM
(所注高度不含国轮高160mm)
(His not inciuding wheel-160mm)

适用于狭窄场地

S型mini 超小型工具车

	W	D	H
小抽	480	292	75
大抽	480	290	154

单位:mm



TC-LT25
680Wx460Dx830Hmm
(所注高度不含轮高160mm)
(Hisnot including whel-160mm)

加大面置物船盘

L型 大型工具车 单位:mm

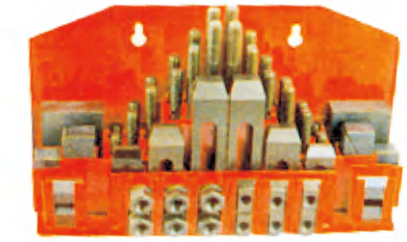
	W	D	H
小抽	569	398	73
大抽	569	398	153

*落地型工具车,加轮设计 ,移动自如,
抽屉均加装钢珠滑轨,顺畅拉抽.
*每抽可承载40KG
*中控抽屉均附保险锁
*坚固柜体承爱力强
*以标准超耐重符合各种尺寸之"车轮"搭配
*粉体烤漆车体,防磨损及溶剂侵蚀

万能夹具组-52件/组

Universal fixture group-52pcs/Kit

订购编码 Order	规格型号 Model No	T型槽 T-slot	螺杆尺寸 Stud Size	单价 Price
806400	CK-103A	7/16"	3/8"-16NC	
806402	CK-103B	1/2"	3/8"-16NC	
806404	CK-104A	9/16"	1/2"12NC	
806406	CK-104B	5/8"	1/2"12NC	
806408	CK-104C	9/16"	1/2"13NC	
806410	CK-105A	11/16"	5/8"-11	
806412	CK-105B	3/14"	5/8"-11	
806414	CK-08	10	M08x1.25P	
806416	CK-10	12	M10x1.50P	
806418	CK-12A	14	M12x1.75P	
806420	CK-12B	16	M12x1.75P	
806422	CK-14	16	M14x2.0P	
806424	CK-16	18	M16x2.0P	
806426	CK-18	20	M18x2.5P	
806428	CK-20	22	M20x2.5P	



适用各型机械工作台面T型槽,专为模具,
治具板等固定使用.

Suitable for all types of mechanical worktable T-groove, specially for mold,Fixture plate and other fixed use

英制螺丝杆规格长度有:3",4",5",6",7",8"各4支
24PCS. Stud each size X 4pcs:3", 4", 5", 6", 7", 8"

6个T型螺帽	6pcs t-slot
6个法兰螺帽	6pcs fianged nuts
4个接头螺帽	4pcs coupling nut
6个齿型压板	6pcs step clamps
6个齿型垫板	6pcs stop blocks

A.T.C 三点组合精密检测工具

A.T.C Three point combination precision testing tool

FIG.1

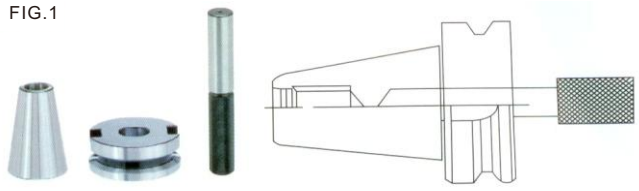
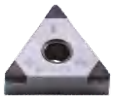


FIG.2



锥度标准 Taper Shank	图示 Fig	规格型号 Model No	A	B	C	订购编码 Order	单价 Price
MAS403-BT	1	ATC-BT30				806500	
		ATC-BT40				806502	
		ATC-BT50				806504	
SK-DIN69871A	1	ATC-SK30				806506	
		ATC-SK40				806508	
		ATC-SK50				806510	
CAT	1	ATC-CAT30				806512	
		ATC-CAT40				806514	
		ATC-CAT50				806516	
HSK	2	ATC-HSK50A	50	25	25	806518	
		ATC-HSK63A	63	32	30	806520	
		ATC-HSK100A	100	50	40	806522	



R03-R04 **CBN/PCD 切削参数**
CBN/PCD cutting parameters



R05-R12 **螺纹车削加工参数**
Thread turning processing parameters



R08 **切槽车削加工参数**
Cutting parameters for slot turning



R14-R17 **钨钢刀具铣削加工参数与对策**
Milling parameters and countermeasures
for tungsten steel cutting tools



R18 **钻铣加工用加工参数**
Processing parameters for drilling and milling processing



R18 **粗铣刀加工参数**
Rough milling cutter machining parameters



R18 **T型槽侧铣刀加工参数**
Processing parameters of T-groove side milling cutter



R19-R20 **直角立铣刀加工参数**
Machining parameters of right angle end mills



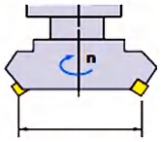
R21-R24 **高进给立铣刀加工参数**
High feed end mill machining parameters



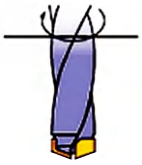
R25-R26 **圆鼻铣刀加工参数**
Processing parameters of round nose milling cutter



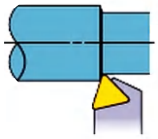
R27-R28 **球头铣刀加工参数**
Processing parameters of ball end milling cutter



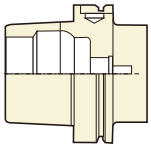
R31 **平面铣削加工的计算式**
Calculation formula for flat milling machining



R32 **孔加工的计算式**
Calculation formula for hole machining



R33-R34 **车削加工的计算式**
Calculation formula for turning machining



R35-R37 **NC工具柄部尺寸图**
Dimensional drawing of NC tool handle



R38 **丝锥加工中常出现的问题及对策**
Common problems and countermeasures in tap machining



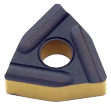
R39-R42 **材料横向对比表**
Material Horizontal Comparison Table



R43 **镗刀系统组合图**
Combination diagram of boring tool system



R44 **УиП 数控车刀表达方式**
Expression of MZG CNC Turning Tools



R45 **УиП 数控车刀片表达方式**
Expression of MZG CNC lathe blade

УиП

R46 **品牌刀具材质对照表**
Brand Tool Material Comparison Table

CBN 工具

长寿命化　稳定化　高速化



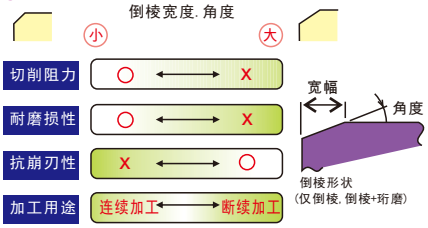
型号的查看方法（车削用刀片）

C	N	G	A	12	04	04	S0225	ME

车削用刀的表示方法 → B2参考

刀片类型	型号例	刀尖式样	任意符号	切刃长度	使用刀尖数	再研磨
负角	CNGA120404MEF	F	MEF	短(小刀尖)	2	不推荐
	CNGA120404S01225ME	S01225	ME		2	
	CNGA12040S00545MEP	S00545	MEP		2	
	CNGA120404S1225SE	S01225	SE		1	
	CNMN120404S02020	S02020	无符号（仅CBN900）	长	复数刀尖	可
正角	CCMW09T304MEF	F	MEF	短(小刀尖)	2	不推荐
	CCMW09T304T00815ME	T00815	ME		2	
	CCMW09T304S01225MES	S01225	MES		2	
	CCMW09T304T00815SE	T00815	SE		1	

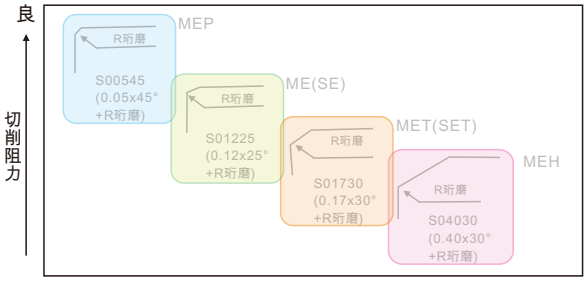
倒棱宽度，角度的特性



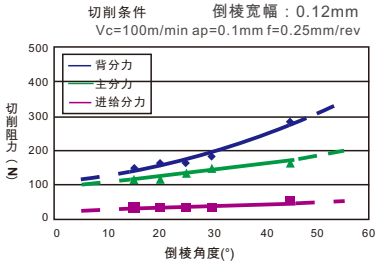
刀尖式样的查看方法

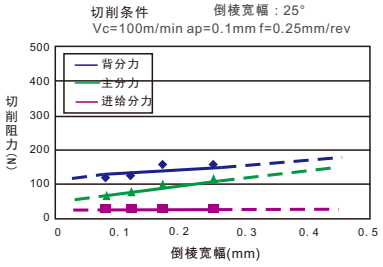
符号	刀尖状态	刀尖式样 示例		形状例
F	锋利刀尖	F	锋利刀尖	锋利刀尖
E	R珩磨	E008	R0.08mm 珩磨	R 珩磨
T	倒棱	T01215	0.12mm X 15° 倒棱	
S	倒棱+珩磨	S01225	0.12mm X 25° 倒棱+珩磨	

① 负角刀片 标准刀尖式样（高硬度材料加工）



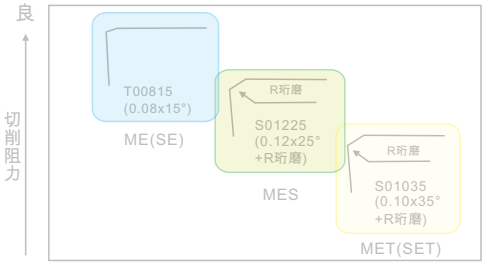
切削阴力与倒棱角度，宽幅的关系





对切削阴力的影响，倒棱角度要大于倒棱宽度。
倒棱角度变大对抗崩刃性的改善效果大于改变倒棱宽幅，但与此同时切削阴力也会增加，请注意。

② 正角刀片 标准刀尖式样（高硬度材料加工）



CBN推荐切削条件 CBN Recommended Cutting Conditions

被加工材料 Material to be processed	被加工材料 Material to be processed 硬度 Hardness	加工形态 Processing form		推荐材质 Recommended material	切削条件 Cutting conditions 切削速度Vc (m/min)	切深ap (mm)	进给量f (mm/rev)
淬硬钢	55HRC以上	通用精加工	连续～断续	CBN1	100-150-200	0.05-0.3-0.5	0.05-0.08-0.1
		高效稳加工	轻断续～断续	CBN-S	80-120-160	0.05-0.3-0.5	0.05-0.08-0.1
		断续（小切深）	断续～强断续	CBN-S	60-100-150	0.05-0.2-0.4	0.05-0.08-0.1
		重切削	连续～断续	CBN-S	70-90-110	0.5-1.0-2.0	0.05-0.1-0.2
	55HRC以下	精加工	连续	CBN	60-80-120	0.2-0.5-0.7	0.05-0.1-0.15
灰口铸铁	250HB以下	精加工	连续～轻断续	CBN-K	300-600-800	0.05-0.2-0.5	0.03-0.05-0.1
		高效精加工	连续～轻断续	CBN-K	500-900-1200	0.1-0.5-1.0	0.05-0.1-0.2
		重切削	连续～断续	CBN-K	500-700-900	0.5-1.5-3.0	0.1-0.3-0.5
轧辊材料（冷硬铸铁）	55HRC以上	精加工	连续～断续	CBN-K	80-120-160	0.05-0.3-0.5	0.05-0.08-0.1
		重切削	连续～断续	CBN-K	70-90-110	0.3-0.7-1.0	0.05-0.1-0.15
铁系烧结金属	-	精加工	连续～轻断续	CBN-S	50-150-250	0.05-0.15-0.25	0.03-0.1-0.2
	-	精加工	连续～断续	CBN-S	100-200-250	0.05-0.2-0.3	0.05-0.15-0.25

PCD刀具推荐切削条件（车削） Recommended cutting conditions for PCD tools (turning)

★ 第1推荐 ☆ 第2推荐

被加工材料 Material to be processed	刀片材质		切削条件				备注
	PCD	PCD1	切削速度 (m/min)	切深（mm） 小刀尖以及正角刀片	切深（mm） 负角刀片	进给量 (mm/rev)	
铝合金、锌合金	★	☆	300～1500	～1.0	～2.0	0.03～0.5	干式 湿式 均可
铜. 黄铜. 青铜	★	☆	300～1000	～1.0	～2.0	0.03～0.5	
镁合金	★	☆	400～1200	～1.0	～2.0	0.03～0.5	
硬质合金	★	☆	10～30	～0.3	～0.3	0.03～0.1	
钛合金	★	☆	100～200	～1.0	～2.0	0.05～0.2	湿式
玻璃钎维强化塑料碳钎维	★	☆	100～600	～1.0	～2.0	0.05～0.5	干式
硅填充塑料硬质钎维板	★	☆	400～800	～1.0	～2.0	0.05～0.5	

小孔螺纹刀 推荐切削条件 Small Hole Thread Cutter Recommended Cutting Conditions

◆ 推荐切削条件 Recommended cutting conditions

★ :第一推荐

被加工材料 Material to be processed	推荐刀片材质 （切削速度 m/min） MEGACOAT Zp151
碳钢/合金钢	★ 30~100
不锈钢	★ 30~80
铝/有色金属	-

（注意）
1) 标准切削速度为30~50m/min.
小内径和高转速时, 进刀量会有无法跟上要求的情况。需注意。
2) 推荐湿式加工。

◆ 切深和走刀数(公制螺纹) Depth Of Cut And Number Of Passes (metric Thread)

螺距（mm）	总切深（mm）	走刀数（回）	1次走刀	2次走刀	3次走刀	4次走刀	5次走刀	6次走刀	7次走刀	8次走刀	9次走刀	10次走刀	11次走刀	12次走刀	13次走刀	14次走刀	15次走刀	16次走刀	17次走刀	18次走刀	19次走刀	20次走刀
0.5	0.3	9	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.02											
0.7	0.42	10	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.02										
0.75	0.45	10	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03										
0.8	0.48	11	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03									
1.00	0.61	12	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03								
1.25	0.77	14	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03						
1.50	0.93	17	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03			
1.75	1.1	20	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03

◆ 切深和走刀数（惠氏螺纹） Cutting Depth And Number Of Passes (wyeth Thread)

牙数(牙/英寸)	总切深（mm）	走刀数（回）	1次走刀	2次走刀	3次走刀	4次走刀	5次走刀	6次走刀	7次走刀	8次走刀	9次走刀	10次走刀	11次走刀	12次走刀	13次走刀	14次走刀	15次走刀	16次走刀	17次走刀
24	0.65	13	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03				
20	0.81	15	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03		
18	0.91	17	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03

◆ 切深和走刀数（英制螺纹）Depth Of Cut And Number Of Passes (inch Thread)

牙数(牙/英寸)	总切深（mm）	走刀数（回）	1次走刀	2次走刀	3次走刀	4次走刀	5次走刀	6次走刀	7次走刀	8次走刀	9次走刀	10次走刀	11次走刀	12次走刀	13次走刀	14次走刀	15次走刀	16次走刀	17次走刀	18次走刀
36	0.44	10	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.03	0.02	0.02								
32	0.5	11	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03							
28	0.55	12	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03						
24	0.65	12	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.03						
20	0.78	14	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.03				
18	0.88	17	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	
16	0.99	18	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03

TT型螺纹推荐切削条件

TT type thread recommended cutting conditions

(60°/ 55°无修光刃) 其1

(60°/ 55° without wiper) 1

(切深表示半径切深的值)

种类 Kind		螺距. 牙数 mm.牙/英寸	型号 Model	刀尖角R (rε)	总切深 (mm)	走刀数 (回)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
公制螺纹 60°	外螺纹 External Thread	0.50mm	TT32 R/L 6000	0.00	0.38	6	0.10	0.10	0.07	0.05	0.04	0.02											
		0.70mm	TT32 R/L 6000	0.00	0.53	7	0.10	0.10	0.10	0.08	0.07	0.06	0.02										
		0.75mm	TT32 R/L 6000	0.00	0.57	8	0.10	0.10	0.10	0.08	0.08	0.05	0.04	0.02									
		0.80mm	TT32 R/L 6000	0.00	0.61	8	0.10	0.10	0.10	0.10	0.08	0.06	0.05	0.02									
		1.00mm	TT32 R/L 6000	0.00	0.76	8	0.15	0.12	0.12	0.11	0.10	0.08	0.06	0.02									
			TT32/43 R/L 6001	0.10	0.66	6	0.20	0.15	0.12	0.10	0.07	0.02											
		1.25mm	TT32 R/L 6000	0.00	0.95	9	0.18	0.16	0.14	0.12	0.10	0.10	0.08	0.05	0.02								
			TT32/43 R/L 6001	0.10	0.85	7	0.25	0.20	0.13	0.10	0.10	0.05	0.02										
		1.50mm	TT32 R/L 6000	0.00	1.14	10	0.20	0.18	0.16	0.14	0.12	0.10	0.10	0.07	0.05	0.02							
			TT32/43 R/L 6001	0.10	1.04	9	0.25	0.18	0.14	0.12	0.10	0.10	0.08	0.05	0.02								
			6002	0.20	0.94	8	0.25	0.18	0.14	0.12	0.10	0.08	0.05	0.02									
		1.75mm	TT32 R/L 6000	0.00	1.33	11	0.25	0.23	0.20	0.13	0.10	0.10	0.10	0.08	0.07	0.05	0.02						
			TT32/43 R/L 6001	0.10	1.23	10	0.25	0.23	0.20	0.13	0.10	0.10	0.08	0.07	0.05	0.02							
			6002	0.20	1.13	9	0.25	0.23	0.20	0.13	0.10	0.08	0.07	0.05	0.02								
		2.00mm	TT32 R/L 6000	0.00	1.52	12	0.25	0.23	0.20	0.16	0.13	0.10	0.10	0.10	0.10	0.08	0.05	0.02					
			TT32/43 R/L 6001	0.10	1.42	11	0.25	0.23	0.20	0.16	0.13	0.10	0.10	0.10	0.08	0.05	0.02						
			6002	0.20	1.32	10	0.25	0.23	0.20	0.16	0.13	0.10	0.10	0.08	0.05	0.02							
		2.50mm	TT32 R/L 6000	0.00	1.89	13	0.27	0.25	0.20	0.18	0.17	0.15	0.14	0.14	0.13	0.10	0.08	0.06	0.02				
			TT32/43 R/L 6001	0.10	1.79	12	0.27	0.25	0.20	0.18	0.17	0.15	0.14	0.13	0.12	0.10	0.06	0.02					
			6002	0.20	1.69	11	0.27	0.25	0.20	0.18	0.17	0.15	0.14	0.13	0.10	0.08	0.02						
			6003	0.30	1.59	11	0.27	0.25	0.20	0.18	0.17	0.15	0.12	0.10	0.08	0.05	0.02						
		3.00mm	TT43 R/L 6001	0.10	2.17	14	0.30	0.25	0.23	0.20	0.20	0.18	0.16	0.14	0.14	0.12	0.10	0.08	0.05	0.02			
			6002	0.20	2.07	13	0.30	0.25	0.23	0.20	0.20	0.18	0.15	0.14	0.13	0.12	0.10	0.05	0.02				
			6003	0.30	1.97	12	0.30	0.25	0.23	0.20	0.20	0.18	0.15	0.14	0.12	0.10	0.08	0.02					
			6004	0.40	1.87	12	0.30	0.25	0.23	0.20	0.20	0.18	0.14	0.12	0.10	0.08	0.05	0.02					
		3.50mm	TT43 R/L 6001	0.10	2.55	16	0.30	0.27	0.23	0.22	0.20	0.18	0.18	0.16	0.16	0.14	0.14	0.12	0.10	0.08	0.05	0.02	
			6002	0.20	2.45	15	0.30	0.27	0.23	0.22	0.20	0.18	0.18	0.16	0.16	0.14	0.14	0.10	0.10	0.05	0.02		
			6003	0.30	2.35	14	0.30	0.27	0.23	0.22	0.20	0.18	0.18	0.16	0.15	0.14	0.12	0.10	0.08	0.02			
			6004	0.40	2.25	14	0.30	0.27	0.23	0.22	0.20	0.18	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.02			
	内螺纹 Internal Thread	0.50mm	TT32 R/L 6000	0.00	0.32	5	0.12	0.08	0.06	0.04	0.02												
		0.70mm	TT32 R/L 6000	0.00	0.45	6	0.15	0.10	0.08	0.06	0.04	0.02											
		0.75mm	TT32 R/L 6000	0.00	0.49	6	0.15	0.12	0.08	0.07	0.05	0.02											
		0.80mm	TT32 R/L 6000	0.00	0.52	6	0.15	0.12	0.10	0.08	0.05	0.02											
		1.00mm	TT32 R/L 6000	0.00	0.65	7	0.15	0.14	0.12	0.10	0.08	0.04	0.02										
		1.25mm	TT32 R/L 6000	0.00	0.81	8	0.18	0.16	0.14	0.12	0.10	0.05	0.04	0.02									
		1.50mm	TT32 R/L 6000	0.00	0.97	9	0.20	0.18	0.16	0.14	0.10	0.08	0.05	0.04	0.02								
			TT32/43 R/L 6001	0.10	0.87	8	0.20	0.18	0.16	0.14	0.08	0.05	0.04	0.02									
		1.75mm	TT32 R/L 6000	0.00	1.14	10	0.20	0.18	0.16	0.13	0.12	0.10	0.10	0.08	0.05	0.02							
			TT32/43 R/L 6001	0.10	1.04	9	0.20	0.18	0.16	0.13	0.12	0.10	0.08	0.05	0.02								
		2.00mm	TT32 R/L 6000	0.00	1.30	12	0.20	0.18	0.16	0.13	0.13	0.12	0.10	0.10	0.08	0.05	0.03	0.02					
			TT32/43 R/L 6001	0.10	1.20	11	0.20	0.18	0.16	0.13	0.13	0.12	0.10	0.08	0.05	0.03	0.02						
		2.50mm	TT32 R/L 6000	0.00	1.62	14	0.23	0.20	0.18	0.18	0.13	0.13	0.12	0.10	0.10	0.08	0.07	0.05	0.03	0.02			
			TT32/43 R/L 6001	0.10	1.52	13	0.23	0.20	0.18	0.18	0.13	0.13	0.12	0.10	0.08	0.07	0.05	0.03	0.02				
		3.00mm	TT43 R/L 6001	0.10	1.85	15	0.25	0.22	0.20	0.18	0.14	0.14	0.13	0.12	0.10	0.10	0.08	0.07	0.05	0.05	0.02		
			6002	0.20	1.75	14	0.25	0.22	0.20	0.18	0.14	0.14	0.13	0.12	0.10	0.08	0.07	0.05	0.05	0.02			
管用平行螺纹 锥度管螺纹 55°	外螺纹 External Thread	28牙/英寸	TT32 R/L 5501	0.10	0.61	5	0.20	0.18	0.15	0.06	0.02												
		19牙/英寸	TT32/43 R/L 5501	0.10	0.95	8	0.20	0.18	0.15	0.13	0.12	0.10	0.05	0.02									
		14牙/英寸	TT32/43 R/L 5501	0.10	1.34	10	0.25	0.22	0.20	0.16	0.14	0.12	0.10	0.08	0.05	0.02							
			5502	0.20	1.22	9	0.25	0.22	0.20	0.18	0.12	0.10	0.08	0.05	0.02								
		11牙/英寸	TT32/43 R/L 5501	0.10	1.73	13	0.25	0.22	0.22	0.20	0.18	0.14	0.12	0.10	0.10	0.08	0.05	0.05	0.02				
			5502	0.20	1.62	12	0.25	0.22	0.22	0.20	0.18	0.14	0.12	0.10	0.08	0.05	0.04	0.02					
			5503	0.30	1.50	11	0.25	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.04	0.02						
	内螺纹 Internal Thread	28牙/英寸	TT32/43 R/L 5501	0.10	0.61	6	0.18	0.15	0.12	0.08	0.06	0.02											
		19牙/英寸	TT32/43 R/L 5501	0.10	0.95	7	0.20	0.18	0.16	0.14	0.12	0.10	0.05										
		14牙/英寸	TT32/43 R/L 5501	0.10	1.34	10	0.20	0.18	0.18	0.16	0.14	0.14	0.11	0.10	0.08	0.05							
			5502	0.20	1.22	9	0.20	0.18	0.18	0.16	0.15	0.12	0.10	0.08	0.05								
		11牙/英寸	TT32/43 R/L 5501	0.10	1.73	13	0.25	0.22	0.22	0.20	0.18	0.14	0.12	0.10	0.10	0.08	0.05	0.05	0.02				
			5502	0.20	1.62	12	0.25	0.22	0.22	0.20	0.18	0.14	0.12	0.10	0.08	0.05	0.04	0.02					
			5503	0.30	1.50	11	0.25	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.04	0.02						
惠氏螺纹 55°	外螺纹 External Thread	24牙/英寸	TT32/43 R/L 5501	0.10	0.73	6	0.20	0.18	0.16	0.12	0.05	0.02											
		20牙/英寸	TT32/43 R/L 5501	0.10	0.90	7	0.20	0.18	0.16	0.14	0.12	0.08	0.02										
		18牙/英寸	TT32/43 R/L 5501	0.10	1.01	8	0.20	0.18	0.18	0.16	0.12	0.10	0.05	0.02									
		16牙/英寸	TT32/43 R/L 5501	0.10	1.15	9	0.25	0.20	0.18	0.14	0.12	0.10	0.08	0.06	0.02								
			5502	0.20	1.04	8	0.25	0.20	0.18	0.14	0.10	0.08	0.07	0.02									
		14牙/英寸	TT32/43 R/L 5501	0.10	1.34	10	0.25	0.22	0.20	0.16	0.14	0.12	0.10	0.08	0.05	0.02							
			5502	0.20	1.22	9	0.25	0.22	0.20	0.18	0.12	0.10	0.08	0.05	0.02								
		12牙/英寸	TT32/43 R/L 5501	0.10	1.58	12	0.25	0.20	0.18	0.16	0.15	0.14	0.12	0.12	0.10	0.08	0.06	0.02					
			5502	0.20	1.46	11	0.25	0.20	0.18	0.16	0.15	0.14	0.12	0.10	0.08	0.06	0.02						
		11牙/英寸	TT32/43 R/L 5501	0.10	1.73	13	0.25	0.22	0.22	0.20	0.18	0.14	0.12	0.10	0.10	0.08	0.05	0.05	0.02				
			5502	0.20	1.62	12	0.25	0.22	0.22	0.20	0.18	0.14	0.12	0.10	0.08	0.05	0.04	0.02					
			TT43 R/L 5503	0.30	1.50	11	0.25	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.04	0.02						
		10牙/英寸	TT32/43 R/L 5501	0.10	1.92	14	0.25	0.23	0.23	0.20	0.18	0.16	0.12	0.12	0.10	0.10	0.08	0.08	0.05	0.02			
			5502	0.20	1.80	13	0.25	0.23	0.23	0.20	0.18	0.16	0.12	0.10	0.10	0.08	0.08	0.05	0.02				
			TT43 R/L 5503	0.30	1.68	12	0.25	0.23	0.20	0.18	0.18	0.14	0.13	0.12	0.10	0.08	0.05	0.02					
		9牙/英寸	TT43 R/L 5501	0.10	2.14	14	0.25	0.23	0.23	0.20	0.20	0.18	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.02			
			5502	0.20	2.03	13	0.25	0.23	0.23	0.20	0.20	0.18	0.16	0.14	0.12	0.12	0.10	0.08	0.02				
			5503	0.03	1.91	12	0.30	0.25	0.23	0.23	0.20	0.18	0.15	0.12	0.10	0.08	0.05	0.02					
		8牙/英寸	TT43 R/L 5501	0.10	2.43	15	0.27	0.25	0.23	0.23	0.20	0.20	0.18	0.16	0.16	0.14	0.12	0.12	0.10	0.05	0.02		
			5502	0.20	2.31	14	0.27	0.25	0.23	0.23	0.20	0.20	0.18	0.16	0.16	0.14	0.12	0.10	0.05	0.02			
			5503	0.30	2.19	13	0.30	0.27	0.25	0.23	0.20	0.18	0.18	0.15	0.14	0.12	0.10	0.05	0.02				
			5504	0.40	2.08	12	0.30	0.27	0.25	0.23	0.23	0.20	0.18	0.15	0.12	0.08	0.05	0.02					

TT型螺纹推荐切削条件 (60°/ 55°无修光刃)其1

TT type thread recommended cutting conditions (60°/ 55° without wiper) 1

(切深表示半径切深的值)

种类 Kind		螺距. 牙数 mm.牙/英寸	型号 Model	刀尖角R (rε)	总切深 (mm)	走刀数 (回)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
55° 惠氏螺纹 Wyeth thread	内螺纹 internal thread	24牙/英寸	TT32/43 R/L 5501	0.10	0.65	6	0.20	0.16	0.12	0.10	0.05	0.20											
		20牙/英寸	TT32/43 R/L 5501	0.10	0.81	7	0.20	0.18	0.16	0.12	0.08	0.05	0.02										
		18牙/英寸	TT32/43 R/L 5501	0.10	0.91	8	0.20	0.18	0.16	0.15	0.10	0.05	0.05	0.02									
		16牙/英寸	TT32/43 R/L 5501	0.10	1.04	9	0.20	0.18	0.15	0.14	0.12	0.10	0.08	0.05	0.02								
			5502	0.20	0.92	8	0.20	0.18	0.16	0.13	0.10	0.08	0.05	0.02									
		14牙/英寸	TT32/43 R/L 5501	0.10	1.20	10	0.20	0.18	0.16	0.15	0.14	0.12	0.10	0.08	0.05	0.02							
			5502	0.20	1.08	9	0.20	0.18	0.16	0.15	0.14	0.10	0.08	0.05	0.02								
		12牙/英寸	TT32/43 R/L 5501	0.10	1.42	10	0.23	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.05	0.02							
			5502	0.20	1.30	9	0.25	0.22	0.20	0.18	0.16	0.12	0.10	0.05	0.02								
		11牙/英寸	TT32/43 R/L 5501	0.10	1.56	11	0.25	0.22	0.22	0.18	0.16	0.14	0.12	0.10	0.10	0.05	0.02						
			5502	0.20	1.44	10	0.25	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.05	0.02							
			TT43 R/L 5503	0.30	1.33	9	0.25	0.22	0.20	0.18	0.16	0.14	0.10	0.06	0.02								
		10牙/英寸	TT32/43 R/L 5501	0.10	1.73	12	0.25	0.22	0.20	0.18	0.16	0.15	0.14	0.14	0.12	0.10	0.05	0.02					
			5502	0.20	1.61	11	0.25	0.22	0.20	0.18	0.17	0.16	0.14	0.12	0.10	0.05	0.02						
			TT43 R/L 5503	0.30	1.50	10	0.25	0.22	0.22	0.20	0.18	0.14	0.12	0.10	0.05	0.02							
		9牙/英寸	TT43 R/L 5501	0.10	1.93	13	0.25	0.23	0.22	0.20	0.18	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.02				
			5502	0.20	1.82	12	0.25	0.23	0.22	0.20	0.18	0.16	0.15	0.14	0.12	0.10	0.05	0.02					
			5503	0.30	1.70	11	0.25	0.22	0.22	0.20	0.20	0.18	0.14	0.12	0.10	0.05	0.02						
		8牙/英寸	TT43 R/L 5501	0.10	2.19	15	0.27	0.25	0.23	0.21	0.20	0.18	0.16	0.14	0.12	0.12	0.10	0.08	0.06	0.05	0.02		
			5502	0.20	2.07	14	0.27	0.25	0.23	0.21	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.02			
			5503	0.30	1.96	13	0.30	0.25	0.23	0.22	0.20	0.18	0.15	0.12	0.10	0.08	0.06	0.05	0.02				
			5504	0.40	1.84	12	0.30	0.25	0.23	0.21	0.20	0.18	0.14	0.12	0.08	0.06	0.05	0.02					

TT型 (60° 带修光刃) (60° with wiper)

(切深表示半径切深的值)

种类 Kind		螺距. 牙数 mm.牙/英寸	型号 Model	C (mm)	总切深 (mm)	走刀数 (回)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
公制螺纹	外螺纹 External thread	1.00mm	TT43E R/L 100M	0.64	0.72	5	0.23	0.19	0.15	0.10	0.05												
		1.25mm	125M	0.80	0.88	6	0.26	0.21	0.16	0.12	0.08	0.05											
		1.50mm	150M	0.95	1.03	6	0.26	0.24	0.21	0.16	0.11	0.05											
		2.00mm	200M	1.27	1.35	10	0.26	0.21	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.05							

TTX型 (60°/ 55°无修光刃) (60°/ 55° without wiper)

(切深表示半径切深的值)

种类 Kind		螺距. 牙数 mm.牙/英寸	型号 Model	刀尖角R (rε)	总切深 (mm)	走刀数 (回)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
公制螺纹 60°	外螺纹 External thread	0.50mm	TTX32R 6000	0.00	0.38	6	0.10	0.10	0.07	0.05	0.04	0.02											
			6000S																				
			60005	0.05	0.33	5	0.10	0.10	0.07	0.04	0.02												
			60005S																				
		0.70mm	TTX32R 6000	0.00	0.53	7	0.10	0.10	0.10	0.08	0.07	0.06	0.02										
			60005	0.05	0.48	6	0.10	0.10	0.10	0.10	0.06	0.02											
		0.75mm	TTX32R 6000	0.00	0.57	8	0.10	0.10	0.10	0.08	0.08	0.05	0.04	0.02									
			60005	0.05	0.52	7	0.10	0.10	0.10	0.08	0.07	0.05	0.02										
		0.80mm	TTX32R 6000	0.00	0.61	8	0.10	0.10	0.10	0.10	0.08	0.06	0.05	0.02									
			60005	0.05	0.56	7	0.10	0.10	0.10	0.10	0.08	0.06	0.02										
		1.00mm	TTX32R 6000	0.00	0.76	8	0.15	0.13	0.12	0.12	0.10	0.08	0.04	0.02									
			60005	0.05	0.71	7	0.18	0.15	0.12	0.10	0.08	0.06	0.02										
			6001	0.10	0.66	6	0.20	0.15	0.12	0.10	0.07	0.02											
		1.25mm	TTX32R 6001	0.10	0.85	7	0.25	0.20	0.13	0.10	0.10	0.05	0.02										
		1.50mm		0.10	1.04	9	0.25	0.18	0.14	0.12	0.10	0.10	0.08	0.05	0.02								
		1.75mm		0.10	1.23	10	0.25	0.23	0.20	0.13	0.10	0.10	0.08	0.07	0.05	0.02							
		2.00mm		0.10	1.42	11	0.25	0.23	0.20	0.16	0.13	0.10	0.10	0.10	0.08	0.05	0.02						
管用平行 55°	外螺纹 External thread	28牙/英寸	TTX32R 5501	0.10	0.61	5	0.20	0.18	0.15	0.06	0.02												
		19牙/英寸	TTX32R 5501	0.10	0.95	8	0.20	0.18	0.15	0.13	0.12	0.10	0.05	0.02									
			55015	0.15	0.90	7	0.20	0.18	0.16	0.14	0.12	0.08	0.02										
		14牙/英寸	TTX32R 55015	0.15	1.28	10	0.25	0.20	0.18	0.16	0.12	0.12	0.10	0.08	0.05	0.02							
		11牙/英寸		0.15	1.67	12	0.25	0.22	0.20	0.18	0.16	0.14	0.14	0.12	0.10	0.08	0.06	0.02					
惠氏螺纹 55°	外螺纹 External thread	24牙/英寸	TTX32R 5501	0.10	0.73	6	0.20	0.18	0.16	0.12	0.05	0.02											
		20牙/英寸	TTX32R 5501	0.10	0.90	7	0.20	0.18	0.16	0.14	0.12	0.08	0.02										
			TTX32R 55015	0.15	0.84	7	0.20	0.18	0.16	0.12	0.10	0.06	0.02										
		18牙/英寸	TTX32R 55015	0.15	0.95	8	0.20	0.18	0.15	0.14	0.12	0.10	0.04	0.02									
		16牙/英寸		0.15	1.10	9	0.20	0.18	0.16	0.14	0.12	0.12	0.10	0.06	0.02								
		14牙/英寸		0.15	1.28	10	0.25	0.20	0.18	0.16	0.12	0.12	0.10	0.08	0.05	0.02							
		12牙/英寸		0.15	1.52	11	0.25	0.20	0.18	0.16	0.16	0.14	0.14	0.12	0.10	0.05	0.02						
		11牙/英寸		0.15	1.67	12	0.25	0.22	0.20	0.18	0.16	0.14	0.14	0.12	0.10	0.08	0.06	0.02					

TTX型

可用于比TT螺距更小或多牙/英寸的加工。也可用于边缘车螺纹加工。

Can Be Used For Machining Smaller Than Tt Pitch Or Multiple Teeth/inch. Can Also Be Used For Edge Threading.

刀片型号 Blade Model \ 螺纹的种类 Type Of Thread	公制螺纹 (mm)	英制螺纹 (牙/英寸)	管用平行螺纹 (牙/英寸)	惠氏螺纹 (牙/英寸)
TTX32R 6000	0.5~1.0	56~32	-	-
60005	0.5~1.0	48~32	-	-
6001	1.0~2.0	28~14	-	-
TTX32R 6000S	0.5	56~48	-	-
60005S	0.5	48	-	-
TTX32R 5501	-	-	28~19	24~20
55015	-	-	19~11	20~14

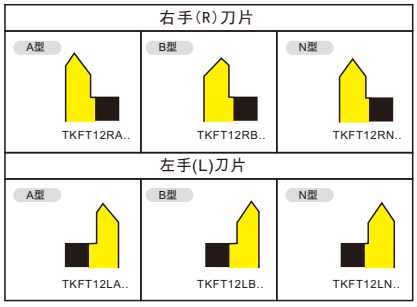
(注意) 1)根据螺距不同，选择具有合适的刀尖圆弧半径R(rε)的刀片。
2)第一次进刀时，切深请勿超过0.3mm.
3)最后精加工时的切深，请设定在0.02~0.05mm之间。
4)为防止第1次过刀时刀片崩刃，请在加工件上作C0.3~C0.5的倒角加工。
5)推荐湿式加工。

KTKFT型螺纹推荐切削条件
KTKFT type thread recommended cutting conditions

刀片型号的表示方法 How To Represent The Blade Model

TKFT 12 R A 60 00

- TKFT：刀片公称
- 12：刀片尺寸
- R：刀片方向（R:右手刀 / L:左手刀）
- A：刀尖位置
- 60：螺纹的角度
- 00：刀尖角 R(rε)



推荐切削条件
Recommended cutting conditions

被加工材料 Material to be processed	推荐刀片材质 Recommended blade material			
	MEGACOAT NANO	MEGACOAT	PVD涂层硬质合金	硬质合金
	ZP163	ZP153	ZP15	ZK10
碳　钢	Vc=70~170 m/mim 最初切深(半径):0.2mm以下		Vc=60~150 m/mim 最初切深(半径):0.2mm以下	-
合金钢	Vc=70~170 m/mim 最初切深(半径):0.2mm以下		Vc=60~150 m/mim 最初切深(半径):0.2mm以下	-
不锈钢	Vc=60~100 m/mim 最初切深(半径):0.15mm以下		Vc=50~80 m/mim 最初切深(半径):0.15mm以下	-
铸　铁	-		-	Vc=100 m/mim 最初切深(半径):0. 2mm以下
铝合金	-		-	Vc=150~400 m/mim 最初切深(半径):0. 2mm以下
黄　铜	-		-	Vc=150~300 m/mim 最初切深(半径):0. 15mm以下

切深和走刀数
Cutting depth and number of passes

TKFT型(60°55°无修光刃)
TKFT type (60°55° without wiper)

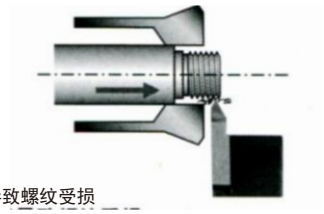
推荐湿式加工。
进行不锈钢加工时，要比“切深量/走刀数”表中的值多2~3次过刀。

种类 Kind		螺距. 牙数 mm.牙/英寸	型号 Model	刀尖角R (rε)	总切深 (mm)	走刀数 (回)	1	2	3	4	5	6	7	8	9	10	11	12
公制螺纹 Metric thread	外螺纹 External thread	0.20mm	TKFT 12R/L A/B6000	Max 0.05 平滑	0.15	4	0.06	0.04	0.03	0.02								
		0.25mm			0.19	4	0.07	0.06	0.04	0.02								
		0.30mm			0.23	4	0.08	0.07	0.06	0.02								
		0.35mm			0.27	5	0.08	0.07	0.06	0.04	0.02							
		0.40mm			0.30	5	0.10	0.08	0.06	0.04	0.02							
		0.45mm			0.34	6	0.10	0.08	0.06	0.04	0.04	0.02						
		0.50mm	TKFT 12R/L A/B6000		0.38	6	0.10	0.10	0.07	0.05	0.04	0.02						
			12R/L A/B60005	0.05	0.33	5	0.10	0.10	0.07	0.04	0.02							
		0.60mm	TKFT 12R/L A/B6000	Max 0.05 平滑	0.45	7	0.10	0.10	0.08	0.06	0.05	0.04	0.02					
			12R/L A/B60005	0.05	0.40	6	0.10	0.10	0.08	0.06	0.04	0.02						
		0.70mm	TKFT 12R/L A/B60005	0.05	0.48	6	0.10	0.10	0.10	0.10	0.06	0.02						
		0.75mm		0.05	0.52	7	0.10	0.10	0.10	0.08	0.07	0.05	0.02					
		0.80mm		0.05	0.56	7	0.10	0.10	0.10	0.10	0.08	0.06	0.02					
		1.00mm	TKFT 12R/L A/B60005 12R/L N6001	0.05	0.71	8	0.15	0.15	0.12	0.10	0.08	0.06	0.03	0.02				
				0.10	0.66	7	0.18	0.18	0.12	0.10	0.06	0.03	0.02					
		1.25mm		0.05	0.90	9	0.20	0.18	0.13	0.10	0.10	0.07	0.05	0.05	0.02			
				0.10	0.85	8	0.20	0.18	0.13	0.10	0.10	0.07	0.05	0.02				
		1.50mm	TKFT 12R/L N6001	0.10	1.04	10	0.20	0.18	0.14	0.12	0.10	0.10	0.08	0.05	0.05	0.02		
管用平行螺纹	外螺纹 External thread	28牙/英寸	TKFT 12R/L A/B55005	0.05	0.67	7	0.18	0.15	0.12	0.10	0.06	0.04	0.02					
		19牙/英寸		0.05	1.01	9	0.20	0.18	0.14	0.12	0.12	0.10	0.08	0.05	0.02			
惠氏螺纹 Wyeth Thread	外螺纹 External thread	24牙/英寸	TKFT 12R/L A/B55005	0.05	0.79	8	0.18	0.18	0.12	0.10	0.08	0.07	0.04	0.02				
		20牙/英寸		0.05	0.96	8	0.20	0.20	0.15	0.10	0.10	0.08	0.06	0.05	0.02			
		18牙/英寸		0.05	1.07	10	0.20	0.18	0.15	0.12	0.10	0.10	0.08	0.07	0.05	0.02		
		16牙/英寸		0.05	1.21	11	0.20	0.18	0.15	0.15	0.12	0.10	0.10	0.08	0.07	0.04	0.02	

空间刀杆的小型自动车床(导套方式)的种用方法
Method Of Using Small Automatic Lathe (guide Sleeve Method) For Space Cutter

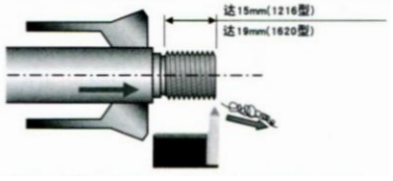
以工具的纵向方向(Z轴方向)不能移动的自动车床为对象。
The automatic lathe that cannot move in the longitudinal direction of the tool (Z-axis direction) is targeted.

以往螺纹加工刀杆时
In the past, when threading the toolholder



切屑进入导套，可能导致螺纹受损
Chips Entering The Guide Sleeve May Cause Damage To The Thread

空间刀杆螺纹加工刀杆时
Space Cutter Thread When Machining The Toolholder



空间刀杆不将螺纹切到导套附近，螺纹长度可到达15mm(19mm)为止！
The space shank does not cut the thread near the guide sleeve, and the thread length can reach 15mm (19mm)!

◆ GBA 型刀片 (研磨断屑槽) GBA type blade (grinding chipbreaker)

被加工材料 Material to be processed	推荐刀片材质 (切削速度 m/min) MC			金属陶瓷 MEGA	PVD 涂层硬质合金			硬质合金	CBN	PCD(金刚石)	①切槽加工时进给量 (mm/rev) ②横向加工时进给量 (mm/rev) ③横向加工时切深 (mm)					备注
	ZN60T	ZN60	ZN90	ZP163	ZP153	ZP152	ZP151	ZK10	CBN	PCD	GBA ○○ R/L 033～100	GBA ○○ R/L 125～200	GBA ○○ R/L 230～300	GBA ○○ R/L 330～400	GBA ○○ R/L 400～480	
碳钢	★ 150~240	★ 150~220	☆ 150~220	★ 80~200	☆ 80~180	☆ 80~180	-	-	-	-	①0.03～0.08 ②不可横向加工 ③不可横向加工	①0.04～0.09 ②0.04～0.09 ③Max.0.3	①0.05～0.1 ②0.05～0.1 ③Max.0.5	①0.05～0.12 ②0.05～0.1 ③Max.0.5	①0.05～0.12 ②0.05～0.1 ③Max.0.8	湿式
合金钢	★ 130~220	★ 130~200	☆ 130~200	★ 80~180	☆ 80~160	☆ 80~160	-	-	-	-	①0.03～0.07 ②不可横向加工 ③不可横向加工	①0.04～0.08 ②0.04～0.08 ③Max.0.3	①0.05～0.09 ②0.05～0.09 ③Max.0.5	①0.05～0.1 ②0.05～0.1 ③Max.0.5	①0.05～0.1 ②0.05～0.1 ③Max.0.8	
不锈钢	-	-	☆ 70~150	☆ 60~150	☆ 60~130	★ 60~130	-	-	-	-	①0.03～0.07 ②不可横向加工 ③不可横向加工	①0.04～0.08 ②0.04～0.08 ③Max.0.3	①0.05～0.09 ②0.05～0.09 ③Max.0.5	①0.05～0.1 ②0.05～0.1 ③Max.0.5	①0.05～0.1 ②0.05～0.1 ③Max.0.8	
铸铁	-	-	-	-	-	-	★ 60~120	☆ 60~120	★ 150~400	-	①0.03～0.08 ②不可横向加工 ③不可横向加工	①0.04～0.09 ②0.04～0.09 ③Max.0.3	①0.05～0.1 ②0.05～0.1 ③Max.0.5	①0.05～0.12 ②0.05～0.1 ③Max.0.5	①0.05～0.12 ②0.05～0.1 ③Max.0.8	
铝	-	-	-	-	-	-	-	★ 150~400	-	★ 150~2000	①0.05～0.12 ②不可横向加工 ③不可横向加工	①0.05～0.15 ②0.05～0.15 ③Max.0.5	①0.05～0.15 ②0.05～0.15 ③Max.0.8	①0.08～0.15 ②0.08～0.15 ③Max.0.8	①0.08～0.15 ②0.08～0.15 ③Max.0.8	
黄铜	-	-	-	-	-	-	-	★ 150~300	-	★ 200~800	①0.05～0.12 ②不可横向加工 ③不可横向加工	①0.05～0.15 ②0.05～0.15 ③Max.0.5	①0.05～0.15 ②0.05～0.15 ③Max.0.8	①0.08～0.15 ②0.08～0.15 ③Max.0.8	①0.08～0.15 ②0.08～0.15 ③Max.0.8	
高硬度材料	-	-	-	-	-	-	-	-	★ 80~120	-	-	①0.02～0.05 ②不可横向加工 ③不可横向加工	①0.03～0.07 ②0.01～0.04 ③Max.0.1			

※以上切削条件适用于外径切槽加工。对于内径切槽加工，请把切削速度和进刀量调低10%。MEGA表示MEGACOAT. MC表示MEGACOAT金属陶瓷 ★：第一推荐 ☆：第二推荐

◆ TGF 型刀片 (研磨断屑槽) TGF type insert (grinding chipbreaker)

·MEGA表示MEGACOAT。

被加工材料 Material to be processed	推荐刀片材质 (切削速度 m/min) 金属陶瓷	MEGA	PVD 涂层硬质合金		硬质合金	CBN	PCD(金刚石)	①切槽加工时进给量 (mm/rev) ②横向加工时进给量 (mm/rev) ③横向加工时切深 (mm)				备注
	ZN60	ZN90	ZP153	ZP152	ZK10	CBN	PCD	TGF32 R/L 033～050	TGF32 R/L 075～095	TGF32 R/L 100～145	TGF32 R/L 150～250	
碳钢	☆ 150~220	★ 80~180	☆ 80~180	☆ 80~180	-	-	-	①0.01～0.05 ②不可横向加工 ③不可横向加工	①0.02～0.07 ②不可横向加工 ③不可横向加工	①0.03～0.08 ②0.03～0.06 ③Max.0.2	①0.03～0.08 ②0.03～0.06 ③Max.0.2	湿式
合金钢	☆ 130~200	★ 80~160	☆ 80~160	☆ 80~160	-	-	-	①0.01～0.04 ②不可横向加工 ③不可横向加工	①0.02～0.06 ②不可横向加工 ③不可横向加工	①0.03～0.07 ②0.02～0.05 ③Max.0.2	①0.03～0.07 ②0.02～0.05 ③Max.0.2	
不锈钢	-	☆ 60~130	☆ 60~130	★ 60~130	-	-	-	①0.01～0.04 ②不可横向加工 ③不可横向加工	①0.02～0.06 ②不可横向加工 ③不可横向加工	①0.03～0.07 ②0.02～0.05 ③Max.0.2	①0.03～0.07 ②0.02～0.05 ③Max.0.2	
铸铁	-	-	-	-	★ 60~100	-	-	①0.01～0.05 ②不可横向加工 ③不可横向加工	①0.02～0.07 ②不可横向加工 ③不可横向加工	①0.03～0.08 ②0.02～0.06 ③Max.0.2	①0.03～0.08 ②0.02～0.06 ③Max.0.2	
铝	-	-	-	-	★ 150~400	-	★ 150~2000	①0.01～0.05 ②不可横向加工 ③不可横向加工	①0.02～0.07 ②不可横向加工 ③不可横向加工	①0.03～0.08 ②0.03～0.06 ③Max.0.2	①0.03～0.08 ②0.03～0.06 ③Max.0.2	
黄铜	-	-	-	-	★ 150~300	-	★ 200~800	①0.01～0.04 ②不可横向加工 ③不可横向加工	①0.02～0.06 ②不可横向加工 ③不可横向加工	①0.03～0.07 ②0.02～0.05 ③Max.0.2	①0.03～0.07 ②0.02～0.05 ③Max.0.2	

TKF12/16推荐切削条件 Recommended cutting conditions for TKF12/16

※( )内为刀尖强化型（TKF..T..)的切削条件 ★：第一推荐 ☆：第二推荐

被加工材料 Material to be processed	推荐刀片材质 (切削速度 m/min) MEGACOAT NANO	MEGACOAT	PVD涂层硬质合金	硬质合金	TKF12 刃宽W(mm) 0.5	0.7	1.0	1.25	1.5	2.0	TKF16 刃宽W(mm) 1.5	2.0	备注
	ZP163	ZP153	ZP152	ZK10	进给量(mm/rev)						进给量(mm/rev)		
碳钢	★ 70～170 (50～140)	★ 70～150 (50～120)	☆ 60～130	-	0.01～0.02	0.01～0.03	0.01～0.04 (0.01～0.05)	0.01～0.04	0.01～0.04 (0.02～0.1)	0.01～0.04 (0.02～0.1)	0.02～0.07 (0.02～0.1)	0.02～0.07 (0.02～0.1)	湿式
合金钢	★ 70～170 (50～140)	★ 70～150 (50～120)	☆ 60～130	-	0.01～0.02	0.01～0.03	0.01～0.04 (0.01～0.05)	0.01～0.04	0.01～0.04 (0.02～0.1)	0.01～0.04 (0.02～0.1)	0.02～0.07 (0.02～0.1)	0.02～0.07 (0.02～0.1)	
不锈钢	☆ 60～140 (40～120)	★ 60～120 (40～100)	☆ 50～130	-	0.005～0.015	0.01～0.02	0.01～0.02 (0.01～0.03)	0.01～0.02	0.01～0.02 (0.01～0.05)	0.01～0.02 (0.01～0.05)	0.01～0.04 (0.01～0.05)	0.01～0.04 (0.01～0.05)	
铸铁	-	-	-	★ 50～100	0.01～0.03	0.01～0.04	0.01～0.05	0.01～0.05	0.01～0.05	0.01～0.05	0.02～0.08	0.02～0.08	
铝合金	-	-	-	★ 200～450	0.01～0.03	0.01～0.04	0.01～0.05	0.01～0.05	0.01～0.05	0.01～0.05	0.02～0.08	0.02～0.08	
黄铜	-	-	-	★ 100～200	0.01～0.03	0.01～0.04	0.01～0.06	0.01～0.06	0.01～0.06	0.01～0.06	0.02～0.1	0.02～0.1	

60°.55°（无修光刃） 60°.55° (no wiper) 公制螺纹/英制螺纹 Metric thread / inch thread

(切深表示半径切深的值)

种类 Kind		螺距. 牙数 mm.牙/英寸	型号 Model	刀尖角R (re)	总切深 (mm)	走刀数 (回)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
公制螺纹 Metric thread	外螺纹 External thread	3.50mm	22ER N60	0.48	2.17	15	0.27	0.25	0.22	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.05				
		4.00mm			2.55	17	0.28	0.26	0.24	0.22	0.20	0.18	0.17	0.16	0.14	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.05		
		4.50mm			2.93	18	0.30	0.28	0.26	0.25	0.24	0.22	0.20	0.18	0.16	0.14	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.05	
		5.00mm			3.31	19	0.30	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.20	0.18	0.16	0.14	0.13	0.10	0.09	0.08	0.07	0.06	0.05
		0.75mm	06IR 60005	0.05	0.44	10	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03									
		1.00mm	06IR 60005	0.05	0.60	12	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.03							
			08IR 60007	0.07	0.58	12	0.07	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.04	0.03	0.03							
		1.25mm	06IR 60005	0.05	0.76	14	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.03					
			08IR 60007	0.07	0.74	14	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03					
		1.5mm	08IR 60007	0.07	0.90	17	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03		
		1.75mm		0.07	1.07	19	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03
		0.50mm	11IR A60	0.02	0.30	5	0.08	0.07	0.06	0.05	0.04														
		1.00mm			0.63	6	0.16	0.14	0.12	0.10	0.07	0.04													
		1.50mm			0.95	9	0.18	0.16	0.13	0.12	0.10	0.08	0.08	0.06	0.04										
		0.5mm	16IR A60	0.02	0.30	5	0.08	0.07	0.06	0.05	0.04														
			AG60	0.02	0.30	5	0.08	0.07	0.06	0.05	0.04														
		0.75mm	16IR A60	0.02	0.47	6	0.12	0.10	0.08	0.07	0.06	0.04													
			AG60	0.02	0.47	6	0.12	0.10	0.08	0.07	0.06	0.04													
		1.00mm	16IR A60	0.02	0.63	6	0.16	0.14	0.12	0.10	0.07	0.04													
			AG60	0.02	0.63	6	0.16	0.14	0.12	0.10	0.07	0.04													
		1.25mm	16IR A60	0.02	0.79	7	0.16	0.15	0.14	0.13	0.10	0.07	0.04												
			AG60	0.02	0.79	7	0.16	0.15	0.14	0.13	0.10	0.07	0.04												
		1.50mm	16IR A60	0.02	0.95	9	0.18	0.16	0.13	0.12	0.10	0.08	0.08	0.06	0.06										
			AG60	0.02	0.95	9	0.18	0.16	0.13	0.12	0.10	0.08	0.08	0.06	0.04										
		1.75mm	16IR A60	0.02	1.03	9	0.20	0.17	0.15	0.13	0.11	0.10	0.08	0.05	0.04										
			AG60	0.11	1.12	10	0.20	0.18	0.16	0.13	0.12	0.10	0.08	0.06	0.05	0.04									
		2.00mm	16IR A60	0.02	0.19	10	0.20	0.18	0.17	0.15	0.13	0.11	0.08	0.07	0.06	0.04									
			AG60	0.11	1.28	12	0.20	0.17	0.15	0.13	0.12	0.11	0.10	0.09	0.07	0.06	0.04	0.04							
		2.50mm	16IR A60	0.02	1.51	14	0.20	0.18	0.16	0.14	0.14	0.12	0.12	0.10	0.10	0.08	0.06	0.05	0.04	0.02					
			AG60	0.11	1.60	16	0.20	0.18	0.16	0.14	0.14	0.12	0.12	0.10	0.10	0.08	0.06	0.05	0.05	0.04	0.04	0.02			
		3.00mm	16IR A60	0.02	1.84	16	0.20	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.12	0.10	0.10	0.08	0.07	0.06	0.04	0.02			
			AG60	0.11	1.93	18	0.20	0.18	0.17	0.16	0.15	0.14	0.13	0.13	0.12	0.10	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.02	
		3.50mm	22IR N60	0.02	2.05	14	0.26	0.25	0.22	0.20	0.18	0.16	0.14	0.12	0.12	0.11	0.10	0.08	0.06	0.05					
		4.00mm		0.22	2.38	16	0.26	0.24	0.23	0.22	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.10	0.10	0.08	0.06	0.05			
		4.50mm			2.70	18	0.26	0.24	0.23	0.22	0.20	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.10	0.08	0.06	0.05	
		5.00mm			3.03	19	0.30	0.27	0.25	0.24	0.22	0.20	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.10	0.08	0.06	0.05
英制螺纹 Inch thread	外螺纹 External thread	48牙/英寸	16ER A60-TF	0.06	0.35	5	0.10	0.08	0.07	0.06	0.04														
			AG60-TF	0.06	0.35	5	0.10	0.08	0.07	0.06	0.04														
		24牙/英寸	16ER A60-TF	0.06	0.75	7	0.18	0.15	0.13	0.10	0.08	0.07	0.04												
			AG60-TF	0.06	0.75	7	0.18	0.15	0.14	0.10	0.08	0.07	0.04												
		20牙/英寸	16ER A60-TF	0.06	0.91	8	0.18	0.16	0.14	0.12	0.10	0.09	0.07	0.05											
			AG60-TF	0.06	0.91	8	0.18	0.16	0.14	0.12	0.10	0.09	0.07	0.05											
		18牙/英寸	16ER A60-TF	0.06	1.01	8	0.20	0.18	0.16	0.14	0.12	0.08	0.08	0.05											
			AG60-TF	0.06	1.01	8	0.20	0.18	0.16	0.14	0.12	0.08	0.08	0.05											
		16牙/英寸	16ER A60-TF	0.06	1.15	10	0.22	0.18	0.15	0.13	0.11	0.10	0.08	0.08	0.06	0.04									
			AG60-TF	0.06	1.15	10	0.22	0.18	0.15	0.13	0.11	0.10	0.08	0.08	0.06	0.04									
		14牙/英寸	16ER A60-TF	0.22	1.15	9	0.20	0.18	0.16	0.14	0.13	0.12	0.10	0.07	0.05										
			AG60-TF	0.06	1.32	11	0.22	0.20	0.18	0.15	0.13	0.10	0.09	0.08	0.07	0.06	0.04								
		13牙/英寸	16ER A60-TF	0.22	1.26	9	0.24	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.05										
			AG60-TF	0.06	1.43	11	0.25	0.23	0.20	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.04								
		12牙/英寸	16ER A60-TF	0.22	1.38	10	0.25	0.22	0.20	0.17	0.15	0.12	0.10	0.07	0.06	0.04									
			AG60-TF	0.06	1.55	12	0.24	0.20	0.18	0.16	0.15	0.14	0.12	0.10	0.09	0.07	0.06	0.04							
		10牙/英寸	16ER A60-TF	0.22	1.71	12	0.25	0.22	0.20	0.18	0.16	0.15	0.14	0.12	0.10	0.08	0.06	0.05							
			AG60-TF	0.06	1.87	13	0.25	0.22	0.21	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.08	0.06	0.04						
		9牙/英寸	16ER A60-TF	0.22	1.92	13	0.27	0.24	0.22	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.08	0.06	0.04						
			AG60-TF	0.06	2.08	14	0.27	0.24	0.22	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.10	0.09	0.07	0.05					
		8牙/英寸	16ER A60-TF	0.22	2.19	15	0.27	0.25	0.22	0.20	0.18	0.16	0.14	0.12	0.12	0.11	0.10	0.10	0.09	0.08	0.05				
			AG60-TF	0.06	2.35	16	0.30	0.25	0.23	0.20	0.18	0.17	0.16	0.14	0.12	0.12	0.11	0.10	0.09	0.08	0.05	0.05			
		48牙/英寸	16ER A60	0.06	0.35	5	0.10	0.08	0.07	0.06	0.04														
			AG60	0.06	0.35	5	0.10	0.08	0.07	0.06	0.04														
		24牙/英寸	16ER A60	0.06	0.75	7	0.18	0.15	0.13	0.10	0.08	0.07	0.04												
			AG60	0.06	0.75	7	0.18	0.15	0.13	0.10	0.08	0.07	0.04												
		20牙/英寸	16ER A60	0.06	0.91	8	0.18	0.16	0.14	0.12	0.10	0.09	0.07	0.05											
			AG60	0.06	0.91	8	0.18	0.16	0.14	0.12	0.10	0.09	0.07	0.05											
		18牙/英寸	16ER A60	0.06	1.01	8	0.20	0.18	0.16	0.14	0.12	0.08	0.08	0.05											
			AG60	0.06	1.01	8	0.20	0.18	0.16	0.14	0.12	0.08	0.08	0.05											
		16牙/英寸	16ER A60	0.06	1.15	10	0.22	0.18	0.15	0.13	0.11	0.10	0.08	0.08	0.06	0.04									
			AG60	0.06	1.15	10	0.22	0.18	0.15	0.13	0.11	0.10	0.08	0.08	0.06	0.04									
		14牙/英寸	16ER A60	0.22	1.15	9	0.20	0.18	0.16	0.14	0.13	0.12	0.10	0.07	0.05										
			AG60	0.06	1.32	11	0.22	0.20	0.18	0.15	0.13	0.10	0.09	0.08	0.07	0.06	0.04								
		13牙/英寸	16ER A60	0.22	1.26	9	0.24	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.05										
			AG60	0.06	1.43	11	0.25	0.23	0.20	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.04								
		12牙/英寸	16ER A60	0.22	1.38	10	0.25	0.22	0.20	0.17	0.15	0.12	0.10	0.07	0.06	0.04									
			AG60	0.06	1.55	12	0.24	0.20	0.18	0.16	0.15	0.14	0.12	0.10	0.09	0.07	0.06	0.04							
		10牙/英寸	16ER A60	0.22	1.71	12	0.25	0.22	0.20	0.18	0.16	0.15	0.14	0.12	0.10	0.08	0.06	0.05							
			AG60	0.06	1.87	13	0.25	0.22	0.21	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.08	0.06	0.04						
		9牙/英寸	16ER A60	0.22	1.92	13	0.27	0.24	0.22	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.08	0.06	0.04						
			AG60	0.06	2.08	14	0.27	0.24	0.22	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.10	0.09	0.07	0.05					
		8牙/英寸	16ER A60	0.22	2.19	15	0.27	0.25	0.22	0.20	0.18	0.16	0.14	0.12	0.12	0.11	0.10	0.10	0.09	0.08	0.05				
			AG60	0.06	2.35	16	0.30	0.25	0.23	0.20	0.18	0.17	0.16	0.14	0.12	0.12	0.11	0.10	0.09	0.08	0.05	0.05			
		7牙/英寸	22ER N60	0.48	2.27	15	0.27	0.25	0.24	0.23	0.20	0.18	0.15	0.13	0.12	0.11	0.10	0.10	0.08	0.06	0.05				
		6牙/英寸			2.73	18	0.27	0.25	0.23	0.22	0.20	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.12	0.10	0.10	0.08	0.06	0.05	
		5牙/英寸			3.37	19	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.22	0.20	0.18	0.16	0.14	0.13	0.10	0.09	0.08	0.07	0.06	0.05
	内螺纹 Internal thread	28牙/英寸	06IR 60005	0.05	0.54	12	0.07	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03							
		24牙/英寸		0.05	0.64	12	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.03							
		20牙/英寸	06IR 60005	0.05	0.77	14	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03					
			08IR 60007	0.07	0.75	14	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03					

60°.55°（无修光刃）
60°.55° (no wiper)

英制螺纹/惠氏螺纹/管用平行螺纹.锥度管螺纹
Inch thread / Wyeth thread / tube parallel thread. Taper pipe thread

（切深表示半径切深的值）

种类 Kind		螺距.牙数 mm.牙/英寸	型号 Model	刀尖角R (rε)	总切深 (mm)	走刀数 (回)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
英制螺纹 Inch thread	内螺纹 internal thread	18牙/英寸	08IR 60007	0.07	0.85	17	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.03		
		16牙/英寸	08IR 60007	0.07	0.96	18	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	
		48牙/英寸	11IR A60	0.02	0.32	5	0.08	0.07	0.07	0.06	0.04														
		24牙/英寸			0.67	7	0.14	0.13	0.12	0.10	0.08	0.06	0.04												
		20牙/英寸			0.8	8	0.14	0.13	0.12	0.12	0.11	0.08	0.06	0.04											
		18牙/英寸			0.9	9	0.15	0.14	0.13	0.12	0.11	0.08	0.07	0.06	0.04										
		16牙/英寸			1.01	10	0.15	0.14	0.13	0.12	0.12	0.10	0.08	0.07	0.06	0.04									
		48牙/英寸	16IR A60	0.02	0.32	5	0.08	0.07	0.07	0.06	0.04														
			AG60	0.02	0.32	5	0.08	0.07	0.07	0.06	0.04														
		24牙/英寸	16IR A60	0.02	0.67	7	0.14	0.13	0.12	0.10	0.08	0.06	0.04												
			AG60	0.02	0.67	7	0.14	0.13	0.12	0.10	0.08	0.06	0.04												
		20牙/英寸	16IR A60	0.02	0.80	8	0.14	0.13	0.12	0.12	0.11	0.08	0.06	0.04											
			AG60	0.02	0.80	8	0.14	0.13	0.12	0.12	0.11	0.08	0.06	0.04											
		18牙/英寸	16IR A60	0.02	0.90	9	0.15	0.14	0.13	0.12	0.11	0.08	0.07	0.06	0.04										
			AG60	0.02	0.90	9	0.15	0.14	0.13	0.12	0.11	0.08	0.07	0.06	0.04										
		16牙/英寸	16IR A60	0.02	1.01	10	0.15	0.14	0.13	0.12	0.12	0.10	0.08	0.07	0.06	0.04									
			AG60	0.02	1.01	10	0.15	0.14	0.13	0.12	0.12	0.10	0.08	0.07	0.06	0.04									
		14牙/英寸	16IR G60	0.11	1.07	9	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.04										
			AG60	0.02	1.16	11	0.15	0.14	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.06	0.04								
		13牙/英寸	16IR G60	0.11	1.16	10	0.20	0.18	0.16	0.14	0.12	0.11	0.08	0.07	0.06	0.04									
			AG60	0.02	1.25	12	0.18	0.16	0.15	0.13	0.12	0.11	0.10	0.09	0.07	0.06	0.04	0.04							
		12牙/英寸	16IR G60	0.11	1.26	11	0.20	0.18	0.16	0.14	0.13	0.12	0.10	0.08	0.06	0.05	0.04								
			AG60	0.02	1.35	13	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.08	0.07	0.06	0.05	0.04	0.04						
		10牙/英寸	16IR G60	0.11	1.54	14	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.08	0.06	0.05	0.04	0.02					
			AG60	0.02	1.63	16	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.08	0.06	0.05	0.05	0.04	0.04	0.02			
		9牙/英寸	16IR G60	0.11	1.72	16	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.04	0.02	0.02		
			AG60	0.02	1.81	17	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.11	0.10	0.10	0.08	0.07	0.06	0.05	0.03	0.02		
		8牙/英寸	16IR G60	0.11	1.95	17	0.22	0.20	0.18	0.17	0.16	0.15	0.14	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.03	0.04	0.03	
			AG60	0.02	2.04	19	0.20	0.19	0.18	0.17	0.15	0.14	0.14	0.13	0.13	0.11	0.10	0.09	0.07	0.06	0.05	0.04			
		7牙/英寸	22IR N60	0.22	2.14	14	0.26	0.24	0.23	0.22	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.07	0.06	0.05			0.05		
		6牙/英寸	22IR N60		2.53	17	0.28	0.26	0.23	0.22	0.20	0.18	0.17	0.14	0.14	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.08	0.06	
		5牙/英寸	22IR N60		3.08	19	0.30	0.28	0.26	0.25	0.23	0.22	0.20	0.17	0.16	0.14	0.13	0.12	0.12	0.11	0.10	0.10			
管用平行螺纹 锥度管螺纹	外螺纹 External thread	28牙/英寸	16ER A55-TF	0.06	0.67	7	0.16	0.14	0.10	0.09	0.08	0.06													
			AG55-TF	0.06	0.67	7	0.16	0.14	0.10	0.09	0.08	0.06													0.02
		19牙/英寸	16ER A55-TF	0.06	1.02	8	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.05											
			AG55-TF	0.06	1.02	8	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.05											
		14牙/英寸	16ER G55-TF	0.22	1.20	9	0.22	0.19	0.17	0.15	0.13	0.12	0.10	0.08	0.04										
			AG55-TF	0.06	1.40	11	0.24	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.04								0.05
		11牙/英寸	16ER G55-TF	0.22	1.60	12	0.24	0.22	0.20	0.18	0.16	0.14	0.13	0.10	0.08	0.06	0.05	0.04							
			AG55-TF	0.06	1.79	13	0.25	0.22	0.21	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.05	0.03						
		28牙/英寸	16ER A55	0.06	0.67	7	0.16	0.14	0.10	0.09	0.08	0.06	0.04												
			AG55	0.06	0.67	7	0.16	0.14	0.10	0.09	0.08	0.06	0.04												
		19牙/英寸	16ER A55	0.06	1.02	8	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.05											
			AG55	0.06	1.02	8	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.05											
		14牙/英寸	16ER G55	0.22	1.20	9	0.22	0.19	0.17	0.15	0.13	0.12	0.10	0.08	0.04										
			AG55	0.06	1.40	11	0.24	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.04								
		11牙/英寸	16ER G55	0.22	1.60	12	0.24	0.22	0.20	0.18	0.16	0.14	0.13	0.10	0.08	0.06	0.05	0.04							
			AG55	0.06	1.79	13	0.25	0.22	0.21	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.05	0.03						
	内螺纹 internal thread	28牙/英寸	06IR 5501 08IR 5501	0.10	0.61	12	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.10	0.03	0.03					0.03	0.03	
		19牙/英寸	08IR 5501	0.10	0.95	18	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04			
		28牙/英寸	11IR A55	0.06	0.67	7	0.16	0.14	0.10	0.09	0.08	0.06	0.04												
		19牙/英寸	11IR A55	0.06	1.02	8	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.05											
		28牙/英寸	16IR A55	0.06	0.67	7	0.16	0.14	0.10	0.09	0.08	0.06	0.04												
			AG55	0.06	0.67	7	0.16	0.14	0.10	0.09	0.08	0.06	0.04												
		19牙/英寸	16IR A55	0.06	1.02	8	0.20	0.18	0.16	0.14	0.12	0.10	0.07	0.05											
			AG55	0.06	1.02	8	0.20	0.18	0.16	0.09	0.12	0.10	0.07	0.05											
		14牙/英寸	16IR G55	0.22	1.20	9	0.22	0.19	0.17	0.09	0.13	0.12	0.10	0.08	0.04										
			AG55	0.06	1.40	11	0.24	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.06	0.04	0.04								
		11牙/英寸	16IR G55	0.22	1.60	12	0.24	0.22	0.20	0.18	0.16	0.14	0.13	0.10	0.08	0.06	0.05	0.04							
			AG55	0.06	1.79	13	0.25	0.22	0.21	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.05	0.03						
惠氏螺纹 Wyeth thread	外螺纹 External thread	48牙/英寸	16ER A55-TR	0.06	0.37	5	0.12	0.09	0.07	0.05	0.04														
			AG55-TF	0.06	0.37	5	0.12	0.09	0.07	0.05	0.04														
		24牙/英寸	16ER A55-TF	0.06	0.79	7	0.18	0.16	0.14	0.11	0.08	0.07	0.05												
			AG55-TF	0.06	0.79	7	0.18	0.16	0.14	0.11	0.08	0.07	0.05												
		20牙/英寸	16ER A55-TR	0.06	0.96	8	0.20	0.18	0.15	0.13	0.10	0.08	0.07	0.05											
			AG55-TF	0.06	0.96	8	0.20	0.18	0.15	0.13	0.10	0.08	0.07	0.05											
		18牙/英寸	16ER A55-TF	0.06	1.07	9	0.20	0.17	0.16	0.14	0.11	0.09	0.08	0.07	0.05										
			AG55-TF	0.06	1.07	9	0.20	0.17	0.16	0.14	0.11	0.09	0.08	0.07	0.05										
		16牙/英寸	16ER A55-TF	0.06	1.22	11	0.20	0.18	0.16	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.04								
			AG55-TF	0.06	1.22	11	0.20	0.18	0.16	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.04								
		14牙/英寸	16ER G55-TF	0.22	1.20	9	0.22	0.19	0.17	0.15	0.13	0.12	0.10	0.08	0.04										
			AG55-TF	0.06	1.40	11	0.24	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.04								
		12牙/英寸	16ER G55-TF	0.22	1.44	10	0.24	0.22	0.20	0.18	0.15	0.12	0.12	0.09	0.07	0.05									
			AG55-TF	0.06	1.64	12	0.24	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.06	0.05							
		11牙/英寸	16ER G55-TF	0.22	1.60	12	0.24	0.22	0.20	0.18	0.16	0.14	0.13	0.10	0.08	0.06	0.05	0.04							
			AG55-TF	0.06	1.79	13	0.25	0.22	0.21	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.05	0.03						
		10牙/英寸	16ER G55-TF	0.22	1.78	12	0.24	0.22	0.20	0.18	0.17	0.16	0.15	0.13	0.12	0.09	0.07	0.05							
			AG55-TF	0.06	1.98	14	0.25	0.22	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.05					
		9牙/英寸	16ER G55-TF	0.22	2.01	14	0.24	0.22	0.20	0.19	0.18	0.16	0.15	0.14	0.12	0.11	0.10	0.08	0.07	0.05					
			AG55-TF	0.06	2.20	15	0.27	0.25	0.22	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.10	0.10	0.09	0.08	0.05				
		8牙/英寸	16ER G55-TF	0.22	2.29	15	0.28	0.26	0.24	0.22	0.19	0.16	0.14	0.13	0.12	0.12	0.11	0.10	0.09	0.08	0.05				
			AG55-TF	0.06	2.49	16	0.30	0.28	0.26	0.24	0.20	0.18	0.16	0.14	0.12	0.12	0.11	0.10	0.09	0.08	0.06	0.05			
		48牙/英寸	16ER A55	0.06	0.37	5	0.12	0.09	0.07	0.05	0.04														
			AG55	0.06	0.37	5	0.12	0.09	0.07	0.05	0.04														

60°.55°（无修光刃）
60°.55° (no wiper)

惠氏螺纹/30°梯形螺纹
Wyeth thread / 30° trapezoidal thread

（切深表示半径切深的值）

种类 Kind		螺距. 牙数 mm.牙/英寸	型号 Model	刀尖角R (rε)	总切深 (mm)	走刀数 (回)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
惠氏螺纹 Wyeth thread	外螺纹 External thread	24牙/英寸	16ER A55	0.06	0.79	7	0.18	0.16	0.14	0.11	0.08	0.07	0.05												
			AG55	0.06	0.79	7	0.18	0.16	0.14	0.11	0.08	0.07	0.05												
		20牙/英寸	16ER A55	0.06	0.96	8	0.20	0.18	0.15	0.13	0.10	0.08	0.07	0.05											
			AG55	0.06	0.96	8	0.20	0.18	0.15	0.13	0.10	0.08	0.07	0.05											
		18牙/英寸	16ER A55	0.06	1.07	9	0.20	0.17	0.16	0.14	0.11	0.09	0.08	0.07	0.05										
			AG55	0.06	1.07	9	0.20	0.17	0.16	0.14	0.11	0.09	0.08	0.07	0.05										
		16牙/英寸	16ER A55	0.06	1.22	11	0.20	0.18	0.16	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.04								
			AG55	0.06	1.22	11	0.20	0.18	0.16	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.04								
		14牙/英寸	16ER G55	0.22	1.20	9	0.22	0.19	0.17	0.15	0.13	0.12	0.10	0.08	0.04										
			AG55	0.06	1.40	11	0.24	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.04								
		12牙/英寸	16ER G55	0.22	1.44	10	0.24	0.22	0.20	0.18	0.15	0.12	0.12	0.09	0.07	0.05									
			AG55	0.06	1.64	12	0.24	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.06	0.05							
		11牙/英寸	16ER G55	0.22	1.60	12	0.24	0.22	0.20	0.18	0.16	0.14	0.13	0.10	0.08	0.06	0.05	0.04							
			AG55	0.06	1.79	13	0.25	0.22	0.21	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.05	0.03						
		10牙/英寸	16ER G55	0.22	1.78	12	0.24	0.22	0.20	0.18	0.17	0.16	0.15	0.13	0.12	0.09	0.07	0.05							
			AG55	0.06	1.98	14	0.25	0.22	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.05					
		9牙/英寸	16ER G55	0.22	2.01	14	0.2	0.22	0.20	0.19	0.18	0.16	0.15	0.14	0.12	0.11	0.10	0.08	0.07	0.05					
			AG55	0.06	2.20	15	0.27	0.25	0.22	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.10	0.10	0.09	0.08	0.05				
		8牙/英寸	16ER G55	0.22	2.29	15	0.28	0.26	0.24	0.22	0.19	0.16	0.14	0.13	0.12	0.12	0.11	0.10	0.09	0.08	0.05				
			AG55	0.06	2.49	16	0.30	0.28	0.26	0.24	0.20	0.18	0.16	0.14	0.12	0.12	0.11	0.10	0.09	0.08	0.06	0.05			
		7牙/英寸	22ER N55	0.47	2.43	16	0.30	0.27	0.25	0.22	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.10	0.09	0.08	0.06	0.05			
		6牙/英寸			2.92	18	0.30	0.27	0.25	0.23	0.22	0.20	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.08	0.06	0.05	
		5牙/英寸			3.60	21	0.30	0.28	0.27	0.26	0.25	0.24	0.22	0.20	0.19	0.18	0.17	0.16	0.15	0.14	0.13	0.11	0.10	0.09	0.07
							0.05	0.04																	
		28牙/英寸	06IR 5501	0.10	0.65	13	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03						
			08IR 5501																						
		19牙/英寸	08IR 5501	0.10	0.81	15	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03				
		24牙/英寸	11IR A55	0.06	0.72	7	0.16	0.14	0.12	0.10	0.08	0.07	0.05												
		20牙/英寸			0.87	8	0.16	0.15	0.14	0.13	0.11	0.08	0.06	0.04											
		18牙/英寸			0.97	8	0.20	0.18	0.16	0.14	0.10	0.08	0.06	0.05											
		16牙/英寸			1.10	9	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.07	0.05										
		24牙/英寸	16IR A55	0.06	0.72	7	0.16	0.14	0.12	0.10	0.08	0.07	0.05												
			AG55	0.06	0.72	7	0.16	0.14	0.12	0.10	0.08	0.07	0.05												
		20牙/英寸	16IR A55	0.06	0.87	8	0.16	0.15	0.14	0.13	0.11	0.08	0.06	0.04											
			AG55	0.06	0.87	8	0.16	0.15	0.14	0.13	0.11	0.08	0.06	0.04											
		18牙/英寸	16IR A55	0.06	0.97	8	0.20	0.18	0.16	0.14	0.10	0.08	0.06	0.05											
			AG55	0.06	0.97	8	0.20	0.18	0.16	0.14	0.10	0.08	0.06	0.05											
	内螺纹 internal thread	16牙/英寸	16IR A55	0.06	1.10	9	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.07	0.05										
			AG55	0.06	1.10	9	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.07	0.05										
		14牙/英寸	16IR G55	0.22	1.06	8	0.21	0.19	0.17	0.15	0.12	0.10	0.07	0.05											
			AG55	0.06	1.27	11	0.20	0.18	0.17	0.15	0.13	0.10	0.09	0.08	0.07	0.06	0.04								
		12牙/英寸	16IR G55	0.22	1.28	9	0.22	0.20	0.19	0.17	0.15	0.13	0.10	0.08	0.04										
			AG55	0.06	1.48	11	0.24	0.22	0.20	0.18	0.16	0.13	0.11	0.09	0.06	0.05	0.04								
		11牙/英寸	16IR G55	0.22	1.42	10	0.24	0.22	0.20	0.18	0.15	0.12	0.10	0.09	0.07	0.05									
			AG55	0.06	1.62	12	0.24	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05							
		10牙/英寸	16IR G55	0.22	1.59	12	0.24	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.04							
			Ag55	0.06	1.79	13	0.25	0.22	0.21	0.20	0.18	0.16	0.14	0.12	0.10	0.08	0.05	0.05	0.03						
		9牙/英寸	16IR G55	0.22	1.79	12	0.24	0.22	0.20	0.18	0.17	0.16	0.15	0.13	0.12	0.10	0.07	0.05							
			AG55	0.06	1.99	14	0.25	0.22	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.05					
		8牙/英寸	16IR G55	0.22	2.05	14	0.24	0.23	0.22	0.20	0.18	0.16	0.15	0.14	0.12	0.11	0.10	0.08	0.07	0.05					
			AG55	0.06	2.25	15	0.28	0.26	0.24	0.21	0.18	0.16	0.14	0.13	0.12	0.11	0.10	0.10	0.09	0.08	0.05				
		7牙/英寸	22IR N55	0.47	2.09	14	0.24	0.23	0.22	0.20	0.19	0.17	0.15	0.16	0.13	0.12	0.10	0.08	0.07	0.05					
		6牙/英寸			2.53	16	0.30	0.28	0.25	0.23	0.21	0.20	0.18	0.18	0.13	0.11	0.10	0.10	0.09	0.08	0.06	0.05			
		5牙/英寸			3.14	19	0.30	0.28	0.27	0.26	0.24	0.22	0.20	0.18	0.16	0.15	0.14	0.12	0.12	0.11	0.10	0.10	0.08	0.06	0.05
30°梯形螺纹	外螺纹 External thread		16ER 200TR	-	1.25	10	0.22	0.20	0.17	0.16	0.13	0.12	0.10	0.07	0.05	0.03									
			16ER 300TR	-	1.75	14	0.24	0.20	0.18	0.16	0.15	0.14	0.12	0.11	0.10	0.10	0.10	0.07	0.05	0.03					
			22ER 400TR	-	2.24	15	0.26	0.23	0.22	0.20	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.10	0.07	0.05	0.03				
			22ER 500TR	-	2.73	17	0.28	0.26	0.24	0.22	0.21	0.20	0.19	0.18	0.16	0.15	0.14	0.13	0.12	0.10	0.07	0.05	0.03		
	内螺纹 internal thread		16IR 200TR	-	1.25	10	0.22	0.20	0.17	0.16	0.13	0.12	0.10	0.07	0.05	0.03									
			16IR 300TR	-	1.75	14	0.24	0.20	0.18	0.16	0.15	0.14	0.12	0.11	0.10	0.10	0.10	0.07	0.05	0.03					
			22IR 400TR	-	2.24	15	0.26	0.23	0.22	0.20	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.10	0.07	0.05	0.03				
			22IR 500TR	-	2.73	17	0.28	0.26	0.24	0.22	0.21	0.20	0.19	0.18	0.16	0.15	0.14	0.13	0.12	0.10	0.07	0.05	0.03		

◆ 无修光刃刀片使用时刀尖角R（r ε）的选择
Choice of tool nose angle R(rε) when no smoothing blade is used

	外螺纹加工	内螺纹加工
公制螺纹 英制螺纹	rε≤0.1443P	rε≤0.0720P
管用平行螺纹 （惠氏螺纹） 锥度管螺纹	（内、外螺纹皆可） r ε ≤0.1373P	

● 公制螺纹，英制螺纹时
内螺纹加工为外螺纹加工约一半的刀尖角 R（r ε）

● 管用平行螺纹，管用锥度螺纹，惠氏螺纹时
内外螺纹加工都相同的刀尖角 R（r ε）

r ε :刀尖角R　　P:螺距（= $\frac{25.4}{n}$）　　n:牙数/英寸

11 / 16型 (60°/ 55°无修光刃)
Type 11 / 16 (60°/ 55° without wiper)

公制螺纹/惠氏螺纹/管用平行螺纹. 锥度管螺纹
Metric Thread / Wyeth Thread / Pipe Parallel Thread. Taper Pipe Thread

(切深表示半径切深的值)

种类 Kind		螺距. 牙数 Pitch mm.牙/英寸	型号 Model	旧 型 号	刀尖角R (rε)	总切深 (mm)	走刀数 (回)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
公制螺纹 Metric thread 60°	外螺纹 External thread	1.00mm	16E R/L 6001	TNN32E R/L 6001	0.10	0.66	5	0.21	0.19	0.12	0.09	0.05														
		1.25mm	16E R/L 6001	TNN32E R/L 6001	0.10	0.85	6	0.25	0.21	0.15	0.12	0.07	0.05													
		1.50mm	16E R/L 6001	TNN32E R/L 6001	0.10	1.04	8	0.23	0.21	0.19	0.15	0.11	0.06	0.05	0.04											
			6002	6002	0.20	0.94	7	0.23	0.20	0.18	0.14	0.10	0.05	0.04												
		1.75mm	16E R/L 6001	TNN32E R/L 6001	0.10	1.23	9	0.25	0.22	0.20	0.17	0.14	0.09	0.07	0.05	0.04										
			6002	6002	0.20	1.13	8	0.25	0.22	0.20	0.16	0.14	0.07	0.05	0.04											
		2.00mm	16E R/L 6001	TNN32E R/L 6001	0.10	1.43	11	0.25	0.22	0.20	0.16	0.14	0.12	0.10	0.08	0.06	0.05	0.04								
			6002	6002	0.20	1.32	10	0.25	0.22	0.20	0.16	0.14	0.12	0.08	0.07	0.04	0.04									
		2.50mm	16E R/L 6001	TNN32E R/L 6001	0.10	1.79	13	0.25	0.22	0.20	0.18	0.16	0.16	0.12	0.12	0.10	0.09	0.08	0.05	0.04						
			6002	6002	0.20	1.69	12	0.25	0.22	0.20	0.18	0.16	0.16	0.12	0.12	0.10	0.08	0.06	0.04							
	内螺纹 internal thread	0.75mm	11I R/L 60005	TNN22I R/L 60005	0.05	0.44	5	0.14	0.12	0.10	0.06	0.02														
		1.00mm	11I R/L 60005	TNN22I R/L 60005	0.05	0.60	6	0.18	0.15	0.10	0.08	0.05	0.04													
		1.25mm	11I R/L 60005	TNN22I R/L 60005	0.05	0.76	7	0.18	0.15	0.12	0.10	0.10	0.07	0.04												
		1.50mm	11I R/L 60005	TNN22I R/L 60005	0.05	0.92	9	0.18	0.16	0.12	0.10	0.10	0.08	0.08	0.06	0.04										
			16I R/L 6001	TNN321 R/L 6001	0.10	0.87	8	0.18	0.16	0.12	0.10	0.10	0.08	0.08	0.05											
		1.75mm	16I R/L 6001	TNN321 R/L 6001	0.10	1.04	9	0.20	0.18	0.15	0.12	0.12	0.10	0.08	0.05	0.04										
		2.00mm	16I R/L 6001	TNN321 R/L 6001	0.10	1.20	11	0.20	0.18	0.15	0.12	0.12	0.10	0.10	0.08	0.06	0.05	0.04								
		2.50mm	16I R/L 6001	TNN321 R/L 6001	0.10	1.52	14	0.20	0.18	0.16	0.14	0.14	0.12	0.12	0.10	0.10	0.08	0.06	0.06	0.04						
			60015	60015	0.15	1.47	13	0.20	0.18	0.16	0.15	0.14	0.12	0.12	0.10	0.10	0.08	0.06	0.04	0.02						
管用平行螺纹锥度管螺纹 55°	外螺纹 External thread	28牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	0.61	5	0.20	0.16	0.12	0.08	0.05									0.02					
		19牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	0.95	7	0.22	0.20	0.16	0.14	0.10	0.08	0.05												
		14牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	1.34	10	0.24	0.20	0.18	0.16	0.13	0.10	0.10	0.10	0.08	0.05									
			5502	5502	0.20	1.22	9	0.24	0.20	0.18	0.16	0.11	0.10	0.10	0.08	0.05										
		11牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	1.73	13	0.25	0.22	0.22	0.20	0.18	0.14	0.12	0.10	0.10	0.08	0.05	0.05	0.02						
			5502	5502	0.20	1.62	12	0.25	0.22	0.22	0.20	0.18	0.14	0.12	0.10	0.08	0.05	0.04	0.02							
	内螺纹 internal thread	28牙/英寸	11I R/L 55005	TNN22I R/L 55005	0.05	0.67	7	0.18	0.15	0.12	0.08	0.06	0.05	0.03												
			16I R/L 5501	TNN32I R/L 5501	0.10	0.61	6	0.18	0.15	0.12	0.08	0.05	0.03													
		19牙/英寸	11I R/L 55005	TNN22I R/L 55005	0.05	1.01	8	0.20	0.18	0.16	0.14	0.12	0.08	0.08	0.05											
			16I R/L 5501	TNN32I R/L 5501	0.10	0.95	7	0.20	0.18	0.16	0.14	0.12	0.10	0.05												
		14牙/英寸	11I R/L 55005	TNN22I R/L 55005	0.05	1.39	11	0.20	0.18	0.16	0.14	0.14	0.12	0.12	0.10	0.10	0.08	0.05								
			16I R/L 5501	TNN32I R/L 5501	0.10	1.34	10	0.20	0.18	0.18	0.16	0.14	0.14	0.11	0.10	0.08	0.05										
			5502	5502	0.20	1.22	9	0.20	0.18	0.18	0.16	0.15	0.12	0.10	0.08	0.05										
		11牙/英寸	16I R/L 5501	TNN32I R/L 5501	0.10	1.73	12	0.25	0.20	0.18	0.18	0.16	0.16	0.14	0.12	0.12	0.10	0.07	0.05							
			5502	5502	0.20	1.62	11	0.25	0.20	0.18	0.18	0.16	0.16	0.14	0.12	0.11	0.07	0.05								
惠氏螺纹 Wyeth thread 55°	外螺纹 External thread	24牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	0.73	6	0.22	0.18	0.12	0.09	0.07	0.05													
		20牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	0.90	6	0.22	0.18	0.17	0.16	0.12	0.05													
		18牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	1.01	7	0.24	0.20	0.18	0.16	0.10	0.08	0.05												
		16牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	1.15	9	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.06	0.05										
			5502	5502	0.20	1.04	8	0.24	0.20	0.16	0.14	0.10	0.08	0.07	0.05											
		14牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	1.34	10	0.24	0.20	0.18	0.16	0.13	0.10	0.10	0.10	0.08	0.05									
			5502	5502	0.20	1.22	9	0.24	0.20	0.18	0.16	0.11	0.10	0.10	0.08	0.05										
		12牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	1.58	12	0.25	0.20	0.18	0.16	0.15	0.14	0.12	0.10	0.08	0.08	0.07	0.05							
			5502	5502	0.20	1.46	11	0.25	0.20	0.18	0.16	0.15	0.14	0.12	0.08	0.08	0.07	0.05								
		11牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	1.73	12	0.25	0.20	0.18	0.18	0.16	0.16	0.14	0.12	0.12	0.10	0.07	0.05							
			5502	5502	0.20	1.62	11	0.25	0.20	0.18	0.18	0.16	0.16	0.14	0.12	0.10	0.08	0.05								
		10牙/英寸	16E R/L 5501	TNN32E R/L 5501	0.10	1.92	14	0.25	0.23	0.23	0.20	0.18	0.16	0.12	0.12	0.10	0.10	0.08	0.08	0.05						
			5502	5502	0.20	1.80	13	0.25	0.23	0.23	0.20	0.18	0.16	0.12	0.10	0.10	0.08	0.08	0.05	0.02						
		9牙/英寸	16E R/L 5502	TNN32E R/L 5502	0.20	2.03	14	0.25	0.23	0.23	0.20	0.20	0.18	0.16	0.12	0.12	0.10	0.08	0.08	0.06						
	内螺纹 internal thread	24牙/英寸	11I R/L 55005	TNN22I R/L 55005	0.05	0.71	7	0.18	0.15	0.12	0.10	0.08	0.05	0.03												
			16I R/L 5501	TNN32I R/L 5501	0.10	0.65	6	0.18	0.15	0.12	0.10	0.07	0.03													
		20牙/英寸	11I R/L 55005	TNN22I R/L 55005	0.05	0.87	8	0.18	0.16	0.14	0.12	0.10	0.06	0.06	0.05											
			16I R/L 5501	TNN32I R/L 5501	0.10	0.81	7	0.18	0.16	0.14	0.12	0.10	0.06	0.05							0.02					
		18牙/英寸	11I R/L 55005	TNN22I R/L 55005	0.05	0.97	8	0.20	0.18	0.16	0.14	0.10	0.08	0.06	0.05											
			16I R/L 5501	TNN32I R/L 5501	0.10	0.91	7	0.20	0.18	0.16	0.14	0.10	0.08	0.05							0.02					
		16牙/英寸	11I R/L 55005	TNN22I R/L 55005	0.05	1.09	9	0.20	0.18	0.16	0.14	0.10	0.10	0.08	0.08	0.05										
			161 R/L 5501	TNN32I R/L 5501	0.10	1.04	8	0.20	0.18	0.16	0.15	0.12	0.10	0.08	0.05											
			5502	5502	0.20	0.92	7	0.20	0.18	0.16	0.15	0.10	0.08	0.05												
		14牙/英寸	11I R/L 55005	TNN22I R/L 55005	0.05	1.26	10	0.20	0.18	0.16	0.14	0.13	0.12	0.10	0.10	0.08	0.05									
			16I R/L 5501	TNN32I R/L 5501	0.10	1.20	9	0.20	0.18	0.17	0.16	0.14	0.12	0.10	0.08	0.05										
			5502	5502	0.20	1.08	8	0.20	0.18	0.18	0.16	0.13	0.10	0.08	0.05											
		12牙/英寸	16I R/L 5501	TNN32I R/L 5501	0.10	1.42	10	0.25	0.20	0.18	0.16	0.14	0.14	0.12	0.10	0.08	0.05									
			5502	5502	0.20	1.30	9	0.25	0.22	0.18	0.16	0.14	0.12	0.10	0.08	0.05										
		11牙/英寸	16I R/L 5501	TNN32I R/L 5501	0.10	1.56	11	0.25	0.20	0.18	0.16	0.16	0.14	0.12	0.12	0.10	0.08	0.05								
			5502	5502	0.20	1.44	10	0.25	0.20	0.18	0.16	0.16	0.14	0.12	0.10	0.08	0.05									

(注意) 1) 根据螺距不同，选择具有合适的刀尖圆弧半径R(rε)的刀片。 2) 第一次进刀时，切深请勿超过0. 3mm。
3) 最后精加工时的切深，请设定在0. 02～0. 05mm之间。 4) 为防止第1次过刀时刀片崩刃，请在加工件上作C0. 3～C0. 5的倒角加工。
5) 推荐湿式加工。

舍弃式快速钻头技术信息

Discard-style fast-Bit Technical Information

切削速度（Vc）

$$Vc = \frac{Dc \times \pi \times n}{1000}$$

Vc(m/min): 切削速度
Dc(mm): 钻头直径
n(rev/min): 转速

实例

主轴转速为1600rev/min，钻头直径为Φ20mm，其切削速度为：

$$Vc = \frac{Dc \times \pi \times n}{1000} = \frac{20 \times 3.14 \times 1600}{1000} = 100\,(m/min)$$

进给速度

$$Vf = fr \times n$$

Vf(mm/min): 进给速度
Fr(mm/rev): 每转进给量
n(rev/min): 主轴转速

实例

主轴转速为1500rev/min，每转进给量为0.1mm/rev，其进给速度为：

$$Vf = fr \times n = 0.1 \times 1500 = 150\ (mm/min)$$

孔加工时间

$$Tc = \frac{Id \times i}{n \times f}$$

Tc(min): 加工时间　Fr(mm/rev): 每转进给量　i: 孔数量
Id (mm): 钻孔深　n(rev/min): 主轴转速

实例

钻一个直径为Φ20mm，深为40mm的孔，切削速度为100m/min，
每转进给量为0.1mm/rev，求钻削时间。

$$n = \frac{Vc \times 1000}{Dc \times \pi} = \frac{100 \times 1000}{20 \times 3.14} = 1600(rev/min)$$

$$Tc = \frac{Id \times i}{n \times f} = \frac{40 \times 1}{1600 \times 0.1} = 0.25(min)$$

金属去除率

$$Q = \frac{Vf \times \pi \times Dc^2}{4 \times 1000}$$

Q(cm³/min): 金属去除率
Dc(mm): 钻头直径
Vf(mm/min): 进给速度

实例

一个直径为Φ20mm的钻头，加工时的进给速度为160mm/rev，其金属去除率为：

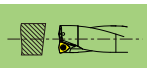
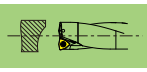
$$Q = \frac{Vf \times \pi \times Dc^2}{4 \times 1000} = \frac{160 \times 3.14 \times 20^2}{4 \times 1000} = 50.24\,(cm^3/min)$$

快速钻加工相关参数计算方法

Related to the processing parameters of shallow hole drilling method of calculation

钻头的钻入 钻头的钻入是钻削成功的重要因素。保证良好的孔质量的方法之一是保证工件的钻入表面与钻头的中心轴垂直。此外，可转位浅孔钻还可以通过调整进给，来加工凸的、凹的、倾斜的和不规则的钻入表面。

Drill drill into Drill drill into is an important factor in the success of drilling. To ensure good quality of the hole one of the ways is to ensure that the workpiece surface and drill drill into the center ofThe vertical axis. In addition, indexable drill shallow holes can also adjust the feed, to process convex, concave, and sloping and irregular drill into the surface.

加工表面情况 Surface conditions	应对措施 Response
	对于凸的表面，其加工条件相对较好，并且钻心能理想地首先与工件接触，因而可采用正常进给。
	被钻削的零件表面为倾斜表面，切削刃受到不均匀的负荷会使切削刃过早的磨损。如果倾斜表面的角度超过2°，进给应减小到推荐值的1/3。
	在钻入凹的表面时，通常会造成钻头轴心偏离中心，对于这种情况进给应减小到推荐值的1/3。
	在钻入不对称的曲面时，由于是钻入倾斜表面，所以钻头可能会偏离中心，此时进给的选择比钻入凹表面时应更小。
	在钻入不规则表面时，会出现刀片崩刃的危险，在开始钻削时必须减小进给量，同时在钻头钻通时也可能会出现这种情况，因此也必须减小进给。

※一般注意事项：

◇强烈推荐使用高压中心内冷方式切削，内冷切削可以最大限度的发挥钻头的切削效能，有效避免切屑的堆积、刀片的破损和以及已加工内表面的破坏，保证加工的可靠性。
◇使用外冷方式钻削，钻深不要超过1.5D；必须钻深时，推荐采用啄钻方式加工。
◇为达最佳钻削效果：
1. 检测刀柄刚性；
2. 尽量减少刀具与主轴轴线偏差；
3. 采用推荐的切削方式；
◇钻深2D＆3D时冷却液压力最小4kg/cm²，钻深4D时冷却液压力最小5kg/cm² 以上。
◇加工孔径公差：通常情况下钻深为2D/3D时为0/+0.25；4D时为0/+0.40，但会随机床和加工条件不同而变化。
◇避免在超过6°的斜面、中凹面、凹凸不平面上开始钻孔，这样很容易使钻头偏离中心或使钻头崩刃，如果必须这样做则钻削进给量必须减小到推荐值的1/3。
◇如果零件上已有预钻孔，则该孔的孔径不得超过成品尺寸的1/4，否则会引偏钻头。
◇钻削有相贯孔的零件与或多层叠加在一起的板材时进给量必须减小到推荐值的1/3左右。

※车床使用注意事项(钻头不旋转)：

◇确保刀具轴线与主轴同心度小于0.03mm，必要时需要进行适当校正。
◇钻头的安装应使周边刀片的表面平行于机床X轴的运动方向，并使周边刀片靠刀塔外侧安装。
◇保证上述条件满足，沿机床X轴方向移动刀具轴线，可获得不同钻孔直径。
◇如果加工公差没有达到要求，请按上述项目逐项检查并适当调整切削参数，改善冷却条件。
◇请注意如果您的CNC车床有过撞机的经历，则很难保证刀具轴线与主轴同心的要求。
◇警告：钻穿工件时，工件底面将高速飞出一圆盘状废料，必须采取适当防护措施以保证安全。

快速钻头的推荐加工条件

Recommended cutting conditions

材料 Material	切削速度 (m/min) Cutting speed (m/min)	进给 (mm/rev) Feed (mm/rev)						
		Ø14-Ø22	Ø23-Ø29	Ø30-Ø36	Ø37-Ø43	Ø44-Ø50	Ø51-Ø54	Ø60-Ø70
低碳钢（~0.3%C） Low alloy steel	180-250	0.05~0.08	0.06~0.10	0.06~0.12	0.07~0.13	0.08~0.15	0.08~0.16	0.08~0.12
碳钢(0.3%C~) Carbon steel	160-220	0.06~0.12	0.08~0.15	0.10~0.18	0.12~0.22	0.12~0.24	0.13~0.25	0.12~0.18
低合金钢(~HRC32) Low carbon steel	150-220	0.06~0.12	0.08~0.14	0.10~0.18	0.12~0.22	0.12~0.23	0.13~0.24	0.10~0.18
高合金钢（HRC32~） High alloy steel	130-180	0.06~0.10	0.08~0.15	0.10~0.20	0.12~0.23	0.12~0.24	0.13~0.25	0.10~0.15
不锈钢 Stainless steel	170-240	0.05~0.10	0.06~0.12	0.08~0.15	0.09~0.16	0.10~0.17	0.11~0.19	0.08~0.15
铸铁 Cast Iron	180-250	0.06~0.12	0.08~0.16	0.12~0.20	0.15~0.25	0.16~0.28	0.18~0.30	0.15~0.22
球墨铸件 Ductile cast Iron	130-200	0.06~0.10	0.08~0.15	0.10~0.18	0.12~0.20	0.15~0.23	0.16~0.25	0.10~0.20
铝合金 Aluminium	330-380	0.06~0.14	0.08~0.15	0.10~0.20	0.12~0.22	0.14~0.23	0.15~0.26	0.15~0.25
钛合金 Ti6Al	30-60	0.05~0.10	0.06~0.14	0.08~0.18	0.11~0.22	0.14~0.23	0.15~0.24	0.12~0.16

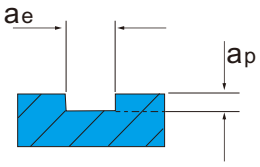
◇初始钻削时，推荐采用中间范围切削数值，之后(根据刀具磨损情况)调整切削参数以达到最佳切削效果。
◇上述切削参数，是针对2D，3D类型而言，如对4D类型的钻削参数应相应降低15%。
◇冷却方式仅采用外冷时，切削速度应降低10%。
◇对于奥氏体不锈钢加工，必需采用内冷却方式。
◇在斜面上开始钻孔或零件有预钻孔及相贯孔或钻削堆叠的多层板材时，进给量须减小到推荐值的1/3左右。

★ Initial drilling,to recommend the use of cutting conditions in the middle range,followedby (in accordance with wear) to adjust the cutting parametersto achieve the best cuttingeffect.
★ The above cutting parameters is for 3D,4D drilling tools,the cutting parameters need to decrease 15%.
★ Cooling mode using only cold outside,cutting speed should be reduced by 10%
★ It must adopt inner cooling mode for austenitic stainless steel maching.
★ Drilling on the slope or the parts have pre-drilling hole or intersection hole,The drilling feedrate must decrease to 1/3 of the recommended data.

铝合金加工通用系列平底铣刀切削参数

AL General Series flat-bottomed cutter cutting parameters

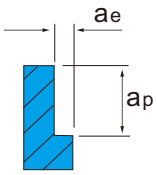
最大切削量



ap=0.5D

被切材料 Cut material	纯铝 1070		铝合金 Cu-Mg系 2014		铝合金 Si系 4032		铝合金 Mg系 5052		铝合金 Mg-Si系 6061		铝合金 Zn-Mg系 7075		铸造铝合金 Ac85	
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D3.0	30000	0.01	25000	0.01	2500	0.02	12000	0.01	20000	0.008	25000	0.008	15000	0.011
D4.0	22000	0.015	19000	0.018	1900	0.036	9500	0.018	15000	0.015	19000	0.015	11000	0.018
D5.0	18000	0.02	15000	0.022	1500	0.045	7500	0.022	12000	0.018	15000	0.018	9000	0.022
D6.0	15000	0.022	13000	0.026	1300	0.053	6000	0.026	10000	0.021	13000	0.021	7500	0.028
D8.0	11000	0.03	9500	0.035	950	0.108	5000	0.035	7500	0.028	9500	0.028	5500	0.042
D10.0	8500	0.05	7500	0.054	750	0.134	4000	0.054	6000	0.044	7500	0.044	4500	0.05
D12.0	7500	0.054	6000	0.065	600	0.14	3000	0.065	4500	0.052	6000	0.052	3500	0.06
D16.0	5500	0.06	5000	0.07	500	0.15	2500	0.07	3800	0.06	5000	0.06	2800	0.06
D20.0	4500	0.065	4000	0.08	400	0.18	2000	0.08	3000	0.06	4000	0.06	2500	0.06

最大切削量



ap=2.5D 以下时，ae=0.1D 以下

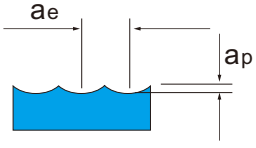
被切材料 Cut material	纯铝 1070		铝合金 Cu-Mg系 2014		铝合金 Si系 4032		铝合金 Mg系 5052		铝合金 Mg-Si系 6061		铝合金 Zn-Mg系 7075		铸造铝合金 Ac85	
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D3.0	30000	0.01	25000	0.01	2500	0.02	12000	0.01	20000	0.01	25000	0.01	15000	0.01
D4.0	22000	0.015	19000	0.018	1900	0.036	9500	0.018	15000	0.018	19000	0.015	11000	0.015
D5.0	18000	0.02	15000	0.022	1500	0.045	7500	0.022	12000	0.022	15000	0.018	9000	0.018
D6.0	15000	0.022	13000	0.026	1300	0.053	6000	0.026	10000	0.026	13000	0.022	7500	0.022
D8.0	11000	0.03	9500	0.035	950	0.108	5000	0.035	7500	0.035	9500	0.03	5500	0.03
D10.0	8500	0.05	7500	0.054	750	0.134	4000	0.054	6000	0.054	7500	0.036	4500	0.036
D12.0	7500	0.054	6000	0.065	600	0.14	3000	0.065	4500	0.065	6000	0.045	3500	0.045
D16.0	5500	0.06	5000	0.07	500	0.15	2500	0.07	3800	0.07	5000	0.06	2800	0.06
D20.0	4500	0.065	4000	0.08	400	0.18	2000	0.08	3000	0.08	4000	0.065	2500	0.065

- 初次使用本刀具时，进给速度依上述数据之50%试切削，切削状况稳定后再将切削速度、进给量逐一调升。
  请采用高精度高刚性与动态平衡较佳的夹头组，刀具偏摆精度超过0.01㎜时，请改善后再切削。
- The first time using this tool, the feed rate according to the above figures of 50% of the test cutting, cutting in stable condition after the cutting speed, feed rate raised one by one.
  Please use the high precision and high rigidity and dynamic equilibrium better chuck groups, tool runout accuracy of better than 0.01mm, please improve after cutting.

铝合金加工系列球头铣刀切削参数

AL Series of ball-end mill cutting parameters

最大切削量



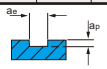
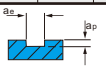
ap=0.1R 以下
ae=0.2R 以下

被切材料 Cut material	纯铝 1070		铝合金 2014 7075		纯铝 4032		铝合金 5052 Ac85		纯铝 6061		纯铝 C1100	
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
R1.0	50000	0.04	40000	0.04	4000	0.04	20000	0.04	32000	0.04	50000	0.03
R2.0	25000	0.08	20000	0.08	2000	0.08	10000	0.08	16000	0.08	25000	0.06
R2.5	20000	0.10	16000	0.10	1600	0.10	8000	0.10	12800	0.10	20000	0.08
R3.0	16000	0.12	13200	0.12	1320	0.12	6600	0.12	10500	0.12	16000	0.10
R4.0	12000	0.16	10000	0.16	1000	0.16	5000	0.16	8000	0.16	12000	0.12
R5.0	10000	0.19	8000	0.19	800	0.19	4000	0.19	6400	0.19	10000	0.15
R6.0	8000	0.24	6600	0.24	660	0.24	3300	0.24	4800	0.24	8000	0.18

- 初次使用本刀具时，进给速度依上述数据之50%试切削，切削状况稳定后再将切削速度、进给量逐一调升。
  请采用高精度高刚性与动态平衡较佳的夹头组，刀具偏摆精度超过0.01㎜时，请改善后再切削。
- The first time using this tool, the feed rate according to the above figures of 50% of the test cutting, cutting in stable condition after the cutting speed, feed rate raised one by one.
  Please use the high precision and high rigidity and dynamic equilibrium better chuck groups, tool runout accuracy of better than 0.01mm, please improve after cutting.

HRC50通用系列平底铣刀切削参数

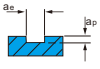
HRC50 General Series flat-bottomed cutter cutting parameters

被切材料 Cut material	碳素钢、合金钢 工具钢、模具钢 Carbonsteel、alloysteel Toolsteel、diesteel		合金钢、工具钢、模具钢、热处理钢 Alloy steel, tool steel, Die steel, heat treated steel		合金钢、工具钢、不锈钢 模具钢、热处理钢 Alloy steel, tool steel, stainless steel Die steel, heat treated steel		热处理钢 钛合金 Heat treated steel Titanium alloy		热处理钢 耐热合金、镍基合金 Heat treated steel Heat resistant alloy、nickel based alloy	
被切材料硬度	HRC30度以下		HRC30-35度		HRC35-40度		HRC40-45度		HRC45-50度	
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D1.0	20000	0.002	12500	0.002	11500	0.002	10000	0.002	4200	0.002
D2.0	12500	0.005	7500	0.005	6700	0.005	6000	0.005	2500	0.005
D3.0	9600	0.008	5900	0.008	5200	0.008	5000	0.008	2000	0.008
D4.0	8300	0.013	5000	0.013	4500	0.013	3900	0.013	1700	0.013
D5.0	7400	0.018	4500	0.018	4100	0.018	3600	0.018	1500	0.018
D6.0	6900	0.024	4200	0.024	3800	0.024	3300	0.024	1400	0.024
D8.0	5200	0.032	3200	0.032	2900	0.032	2500	0.032	1100	0.032
D10.0	4200	0.04	2500	0.04	2300	0.04	2000	0.04	900	0.04
D12.0	3400	0.05	2100	0.05	1900	0.05	1700	0.05	700	0.05
D16.0	2600	0.05	1600	0.05	1500	0.05	1300	0.05	550	0.05
D18.0	2300	0.05	1450	0.05	1300	0.05	1200	0.05	500	0.05
D20.0	2100	0.05	1250	0.05	1200	0.05	1000	0.05	450	0.05
最大切削量 Maximum Cutting Amount	 ae=3.0mm以下时，ap=0.15D以下 ae=3.0mm以上时，ap=0.25D以下						 ae=3.0mm以下时，ap=0.05D以下 ae=3.0mm以上时，ap=0.10D以下			
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D1.0	20000	0.0025	12500	0.0025	11500	0.0025	10000	0.0025	4200	0.0025
D2.0	12500	0.006	7500	0.006	6700	0.006	6000	0.006	2500	0.006
D3.0	9600	0.01	5900	0.01	5200	0.01	5000	0.01	2000	0.01
D4.0	8300	0.016	5000	0.016	4500	0.016	3900	0.016	1700	0.016
D5.0	7400	0.022	4500	0.022	4100	0.022	3600	0.022	1500	0.022
D6.0	6900	0.03	4200	0.03	3800	0.03	3300	0.03	1400	0.03
D8.0	5200	0.04	3200	0.04	2900	0.04	2500	0.04	1100	0.04
D10.0	4200	0.05	2500	0.05	2300	0.05	2000	0.05	900	0.05
D12.0	3400	0.06	2100	0.06	1900	0.06	1700	0.06	700	0.06
D16.0	2600	0.06	1600	0.06	1500	0.06	1300	0.06	550	0.06
D18.0	2300	0.06	1450	0.06	1300	0.06	1200	0.06	500	0.06
D20.0	2100	0.06	1250	0.06	1200	0.06	1000	0.06	450	0.06
最大切削量 Maximum Cutting Amount	 ap=1.5D以下时，ae=0.05D以下						 ap=1.5D以下时，ae=0.025D以下			

- 初次使用本刀具时，进给速度依上述数据之50%试切削，切削状况稳定后再将切削速度、进给量逐一调升。
  请采用高精度高刚性与动态平衡较佳的夹头组，刀具偏摆精度超过0.01mm时，请改善后再切削。
- The first time using this tool, the feed rate according to the above figures of 50% of the test cutting, cutting in stable condition after the cutting speed, feed rate raised one by one.
  Please use the high precision and high rigidity and dynamic equilibrium better chuck groups, tool runout accuracy of better than 0.01mm, please improve after cutting.

HRC50通用系列圆鼻铣刀切削参数

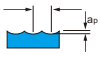
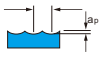
HRC50 General Series Round nose cutter cutting parameters

被切材料 Cut material	碳素钢、合金钢 工具钢、模具钢 Carbonsteel、alloysteel Toolsteel、diesteel		合金钢、工具钢、模具钢、热处理钢 Alloy steel, tool steel, Die steel, heat treated steel		合金钢、工具钢、不锈钢 模具钢、热处理钢 Alloy steel, tool steel, stainless steel Die steel, heat treated steel		热处理钢 钛合金 Heat treated steel Titanium alloy		热处理钢 耐热合金、镍基合金 Heat treated steel Heat resistant alloy、nickel based alloy	
被切材料硬度	HRC30度以下		HRC30-35度		HRC35-40度		HRC40-45度		HRC45-50度	
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D1.0	20000	0.002	12500	0.002	11500	0.002	10000	0.002	4200	0.002
D2.0	12500	0.005	7500	0.005	6700	0.005	6000	0.005	2500	0.005
D3.0	9600	0.008	5900	0.008	5200	0.008	5000	0.008	2000	0.008
D4.0	8300	0.012	5000	0.012	4500	0.012	3900	0.012	1700	0.012
D5.0	7400	0.018	4500	0.018	4100	0.018	3600	0.018	1500	0.018
D6.0	6900	0.024	4200	0.024	3800	0.024	3300	0.024	1400	0.048
D8.0	5200	0.032	3200	0.032	2900	0.032	2500	0.032	1100	0.062
D10.0	4200	0.04	2500	0.04	2300	0.04	2000	0.04	900	0.08
D12.0	3400	0.048	2100	0.048	1900	0.048	1700	0.048	700	0.08
最大切削量 Maximum Cutting Amount	 ap=0.25D以下									
被切材料 Cut material	碳素钢、合金钢 工具钢、模具钢 Carbonsteel、alloysteel Toolsteel、diesteel		合金钢、工具钢、模具钢、热处理钢 Alloy steel, tool steel, Die steel, heat treated steel		合金钢、工具钢、不锈钢 模具钢、热处理钢 Alloy steel, tool steel, stainless steel Die steel, heat treated steel		热处理钢 钛合金 Heat treated steel Titanium alloy		热处理钢 耐热合金、镍基合金 Heat treated steel Heat resistant alloy、nickel based alloy	
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D1.0	20000	0.0025	12500	0.0025	11500	0.0025	10000	0.0025	4200	0.0025
D2.0	12500	0.006	7500	0.006	6700	0.006	6000	0.006	2500	0.006
D3.0	9600	0.01	5900	0.01	5200	0.01	5000	0.01	2000	0.01
D4.0	8300	0.016	5000	0.016	4500	0.016	3900	0.016	1700	0.016
D5.0	7400	0.022	4500	0.022	4100	0.022	3600	0.022	1500	0.022
D6.0	6900	0.03	4200	0.03	3800	0.03	3300	0.03	1400	0.06
D8.0	5200	0.04	3200	0.04	2900	0.04	2500	0.04	1100	0.075
D10.0	4200	0.05	2500	0.05	2300	0.05	2000	0.05	900	0.094
D12.0	3400	0.06	2100	0.06	1900	0.06	1700	0.06	700	0.1
最大切削量	 ap=1.5D以下时，ae=0.05D以下									

- 初次使用本刀具时，进给速度依上述数据之50%试切削，切削状况稳定后再将切削速度、进给量逐一调升。
  请采用高精度高刚性与动态平衡较佳的夹头组，刀具偏摆精度超过0.01mm时，请改善后再切削。
- The first time using this tool, the feed rate according to the above figures of 50% of the test cutting, cutting in stable condition after the cutting speed, feed rate raised one by one.
  Please use the high precision and high rigidity and dynamic equilibrium better chuck groups, tool runout accuracy of better than 0.01mm, please improve after cutting.

HRC50通用系列球头铣刀切削参数

HRC50 General Series ball-end mill cutting parameters

被切材料 Cut material	碳素钢、合金钢、工具钢 Carbon Steel、Alloy Steel、Tool Steel				合金钢、工具钢、不锈钢、热处理钢 Alloy steel, tool steel, stainless steel、heat treated steel				热处理钢 Heat Treated Steel			
被切材料硬度	HRC30度以下				HRC30-45度				HRC40-50度			
立铣刀刃径	等高切削		曲面切削		等高切削		曲面切削		等高切削		曲面切削	
	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D0.5	45000	0.01	31000	0.01	35700	0.008	25000	0.008	19000	0.006	13000	0.006
D1.0	22000	0.02	15500	0.02	17800	0.016	12500	0.016	9500	0.011	6600	0.011
D1.5	15000	0.03	10600	0.03	12100	0.024	8500	0.024	6400	0.016	4500	0.016
D2.0	11400	0.04	8000	0.04	9100	0.035	6400	0.035	4800	0.028	3400	0.028
D2.5	9100	0.05	6400	0.05	7100	0.045	5000	0.045	3800	0.038	2700	0.038
D3.0	7600	0.06	5300	0.06	6000	0.056	4200	0.056	3200	0.047	2200	0.047
D4.0	5700	0.1	4000	0.1	4600	0.086	3200	0.086	2300	0.07	1600	0.07
D5.0	4600	0.12	3200	0.12	3600	0.1	2500	0.1	1900	0.087	1300	0.087
D6.0	3900	0.13	2700	0.13	3000	0.12	2100	0.12	1600	0.097	1100	0.097
D8.0	2900	0.16	2000	0.16	2300	0.146	1600	0.146	1100	0.12	770	0.12
D10.0	2300	0.18	1600	0.18	1900	0.17	1300	0.17	950	0.13	660	0.13
最大切削量	 ap=0.06R以下 粗铣削时， H=0.2R以下，P=0.5R以下 e=0.10R以下 转速以60%进行，进给速度以40%进行						 ap=0.03R以下 ae=0.05R以下			

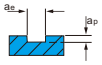
- 初次使用本刀具时，进给速度依上述数据之50%试切削，切削状况稳定后再将切削速度、进给量逐一调升。
  请采用高精度高刚性与动态平衡较佳的夹头组，刀具偏摆精度超过0.01mm时，请改善后再切削。
- The first time using this tool, the feed rate according to the above figures of 50% of the test cutting, cutting in stable condition after the cutting speed, feed rate raised one by one.
  Please use the high precision and high rigidity and dynamic equilibrium better chuck groups, tool runout accuracy of better than 0.01mm, please improve after cutting.

HRC60系列平底铣刀切削参数

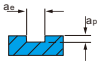
HRC60 Series of flat-bottomed cutter cutting parameters

被切材料 Cut material	碳素钢、合金钢 工具钢、模具钢 Carbonsteel、alloysteel Toolsteel、diesteel		合金钢、工具钢、模具钢、热处理钢 Alloy steel, tool steel, Die steel, heat treated steel		合金钢、工具钢、不锈钢 模具钢、热处理钢 Alloy steel, tool steel, stainless steel Die steel, heat treated steel		热处理钢 钛合金 Heat treated steel Titanium alloy		热处理钢 耐热合金、镍基合金 Heat treated steel Heat resistant alloy、nickel based alloy	
被切材料硬度	HRC30度以下		HRC30-35度		HRC35-40度		HRC40-50度		HRC50-65度	
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D1.0	20000	0.002	12500	0.002	11500	0.002	10000	0.002	4200	0.002
D2.0	12500	0.005	7500	0.005	6700	0.005	6000	0.005	2500	0.005
D3.0	9600	0.008	5900	0.008	5200	0.008	5000	0.008	2000	0.008
D4.0	8300	0.013	5000	0.013	4500	0.013	3900	0.013	1700	0.013
D5.0	7400	0.018	4500	0.018	4100	0.018	3600	0.018	1500	0.018
D6.0	6900	0.024	4200	0.024	3800	0.024	3300	0.024	1400	0.024
D8.0	5200	0.032	3200	0.032	2900	0.032	2500	0.032	1100	0.032
D10.0	4200	0.04	2500	0.04	2300	0.04	2000	0.04	900	0.04
D12.0	3400	0.05	2100	0.05	1900	0.05	1700	0.05	700	0.05
D16.0	2600	0.05	1600	0.05	1500	0.05	1300	0.05	550	0.05
D20.0	2100	0.05	1250	0.05	1200	0.05	1000	0.05	450	0.05

最大切削量 Maximum Cutting Amount



ae=3.0mm以下时，ap=0.15D以下
ae=3.0mm以上时，ap=0.25D以下



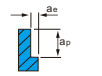
ae=3.0mm以下时，ap=0.02D以下
ae=3.0mm以上时，ap=0.05D以下

立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D1. 0	20000	0.0025	12500	0.0025	11500	0.0025	10000	0.0025	4200	0.0025
D2. 0	12500	0.006	7500	0.006	6700	0.006	6000	0.006	2500	0.006
D3. 0	9600	0.01	5900	0.01	5200	0.01	5000	0.01	2000	0.01
D4. 0	8300	0.016	5000	0.016	4500	0.016	3900	0.016	1700	0.016
D5. 0	7400	0.022	4500	0.022	4100	0.022	3600	0.022	1500	0.022
D6. 0	6900	0.03	4200	0.03	3800	0.03	3300	0.03	1400	0.03
D8. 0	5200	0.04	3200	0.04	2900	0.04	2500	0.04	1100	0.04
D10. 0	4200	0.05	2500	0.05	2300	0.05	2000	0.05	900	0.05
D12. 0	3400	0.06	2100	0.06	1900	0.06	1700	0.06	700	0.06
D16. 0	2600	0.06	1600	0.06	1500	0.06	1300	0.06	550	0.06
D20. 0	2100	0.06	1250	0.06	1200	0.06	1000	0.06	450	0.06

最大切削量 Maximum Cutting Amount



ap=1.5D以下时，ae=0.05D以下



ap=1D以下时，ae=0.02D以下

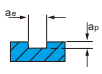
- 初次使用本刀具时，进给速度依上述数据之50%试切削，切削状况稳定后再将切削速度、进给量逐一调升。
  请采用高精度高刚性与动态平衡较佳的夹头组，刀具偏摆精度超过0. 01mm时，请改善后再切削。
- The first time using this tool, the feed rate according to the above figures of 50% of the test cutting, cutting in stable condition after the cutting speed, feed rate raised one by one.
  Please use the high precision and high rigidity and dynamic equilibrium better chuck groups, tool runout accuracy of better than 0.01mm, please improve after cutting.

HRC60系列圆鼻铣刀切削参数

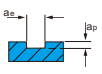
HRC60 Series of round nose cutter cutting parameters

被切材料 Cut material	碳素钢、合金钢 工具钢、模具钢 Carbonsteel、alloysteel Toolsteel、diesteel		合金钢、工具钢、模具钢、热处理钢 Alloy steel, tool steel, Die steel, heat treated steel		合金钢、工具钢、不锈钢 模具钢、热处理钢 Alloy steel, tool steel, stainless steel Die steel, heat treated steel		热处理钢 钛合金 Heat treated steel Titanium alloy		热处理钢 耐热合金、镍基合金 Heat treated steel Heat resistant alloy、nickel based alloy	
被切材料硬度	HRC30度以下		HRC30-35度		HRC35-40度		HRC40-50度		HRC50-65度	
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D1.0	20000	0.002	12500	0.002	11500	0.002	10000	0.002	4200	0.002
D2.0	12500	0.005	7500	0.005	6700	0.005	6000	0.005	2500	0.005
D3.0	9600	0.008	5900	0.008	5200	0.008	5000	0.008	2000	0.008
D4.0	8300	0.012	5000	0.012	4500	0.012	3900	0.013	1700	0.013
D5.0	7400	0.018	4500	0.018	4100	0.018	3600	0.018	1500	0.018
D6.0	6900	0.024	4200	0.024	3800	0.024	3300	0.024	1400	0.048
D8.0	5200	0.032	3200	0.032	2900	0.032	2500	0.032	1100	0.062
D10.0	4200	0.04	2500	0.04	2300	0.04	2000	0.04	900	0.08
D12.0	3400	0.048	2100	0.048	1900	0.048	1700	0.04	700	0.08

最大切削量 Maximum Cutting Amount



ap=0.25D以下 ae=0.1D以下，进给可以双倍



ap=0.1D以下

被切材料 Cut material	碳素钢、合金钢 工具钢、模具钢 Carbonsteel、alloysteel Toolsteel、diesteel		合金钢、工具钢、模具钢、热处理钢 Alloy steel, tool steel, Die steel, heat treated steel		合金钢、工具钢、不锈钢 模具钢、热处理钢 Alloy steel, tool steel, stainless steel Die steel, heat treated steel		热处理钢 钛合金 Heat treated steel Titanium alloy		热处理钢 耐热合金、镍基合金 Heat treated steel Heat resistant alloy、nickel based alloy	
立铣刀刃径	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm /齿	转/分	mm /齿
D1.0	20000	0.0025	12500	0.0025	11500	0.0025	10000	0.0025	4200	0.0025
D2.0	12500	0.006	7500	0.006	6700	0.006	6000	0.006	2500	0.006
D3.0	9600	0.01	5900	0.01	5200	0.01	5000	0.01	2000	0.01
D4.0	8300	0.016	5000	0.016	4500	0.016	3900	0.016	1700	0.016
D5.0	7400	0.022	4500	0.022	4100	0.022	3600	0.022	1500	0.022
D6.0	6900	0.03	4200	0.03	3800	0.03	3300	0.03	1400	0.06
D8.0	5200	0.04	3200	0.04	2900	0.04	2500	0.04	1100	0.075
D10.0	4200	0.05	2500	0.05	2300	0.05	2000	0.05	900	0.094
D12.0	3400	0.06	2100	0.06	1900	0.06	1700	0.06	700	0.1

最大切削量 Maximum Cutting Amount



ap=1.0D以下时， ae=0.05D以下 ap=1.0D以下时， ae=0.025D以下，进给可以双倍

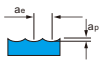
- 初次使用本刀具时，进给速度依上述数据之50%试切削，切削状况稳定后再将切削速度、进给量逐一调升。
  请采用高精度高刚性与动态平衡较佳的夹头组，刀具偏摆精度超过0. 01mm时，请改善后再切削。
- The First Time Using This Tool, The Feed Rate According To The Above Figures Of 50% Of The Test Cutting, Cutting In Stable Condition After The Cutting Speed, Feed Rate Raised One By One.
  Please use the high precision and high rigidity and dynamic equilibrium better chuck groups, tool runout accuracy of better than 0.01mm, please improve after cutting.

HRC60系列球头铣刀切削参数

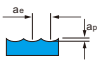
HRC60 Series of ball-end mill cutting parameters

被切材料	碳素钢、合金钢、工具钢 Carbon Steel、Alloy Steel、Tool Steel				合金钢、工具钢、不锈钢、热处理钢 Alloy steel, tool steel, stainless steel, heat treated steel				热处理钢 Heat Treated Steel			
被切材料硬度	HRC30度以下				HRC30-45度				HRC40-65度			
立铣刀刃径	等高切削		曲面切削		等高切削		曲面切削		等高切削		曲面切削	
	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给	转速	进给
mm	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿	转/分	mm/齿
D0. 5	50000	0.022	35000	0.022	50000	0.02	35000	0.02	32000	0.018	22400	0.018
D1. 0	25000	0.044	17500	0.044	24500	0.04	17000	0.04	17000	0.035	11900	0.035
D1. 5	16500	0.066	11600	0.066	16000	0.062	11200	0.062	11500	0.052	8000	0.052
D2. 0	15500	0.09	10800	0.09	15000	0.072	10500	0.072	11000	0.068	7700	0.068
D2. 5	15000	0.11	10500	0.11	14000	0.082	9800	0.082	10000	0.084	7000	0.084
D3. 0	13500	0.125	9500	0.125	11500	0.095	8000	0.095	9500	0.095	6600	0.095
D4. 0	10000	0.125	7000	0.125	9000	0.095	6300	0.095	7100	0.095	5000	0.095
D5. 0	8200	0.125	5700	0.125	7200	0.095	5000	0.095	5700	0.095	4000	0.095
D6. 0	6800	0.125	4700	0.125	6000	0.095	4200	0.095	4800	0.095	3300	0.095
D8. 0	5100	0.125	3600	0.125	4500	0.095	3200	0.095	3600	0.095	2500	0.095
D10. 0	4100	0.125	2900	0.125	3600	0.095	2500	0.095	2900	0.095	2000	0.095

最大切削量 Maximum Cutting Amount



ap=0.03R以下
ae=0.05R以下



ap=0.015R以下
ae=0.025R以下

- 初次使用本刀具时，进给速度依上述数据之50%试切削，切削状况稳定后再将切削速度、进给量逐一调升。
  请采用高精度高刚性与动态平衡较佳的夹头组，刀具偏摆精度超过0. 01mm时，请改善后再切削。
- The first time using this tool, the feed rate according to the above figures of 50% of the test cutting, cutting in stable condition after the cutting speed, feed rate raised one by one.
  Please use the high precision and high rigidity and dynamic equilibrium better chuck groups, tool runout accuracy of better than 0.01mm, please improve after cutting.

铣削加工切削条件的选择方法
How to select cutting conditions for milling

● 切削速度(Vc) Cutting Speed

$$Vc=\frac{\pi\times D\times n}{1000}\ (m/min)$$

转速(n) Revolution

$$n=\frac{1000\times Vc}{\pi\times D}\ (min^{-1})$$

Vc：切削速度 m/min cutting speed
D ：刀径 mm cutter diameter
n ： 转速 min^{-1} RPM
π ：圆周率 3.1416 Circumference ratio

● 进给速度(Vf) Feed rate

Vf=fz×Z×n(mm/min)

每刃进给 (fz) Feed rate per tooth

$$fz=\frac{Vf}{Z\times n}\ (mm/tooth)$$

Vf ：进给速度 m/min Feed rate
Z ： 刃数 Number of flutes
n ： 转速 min^{-1} RPM
fz ：每刃进给 mm/tooth feed per tooth

● 加工时间(Tc)

$$Tc=\frac{L}{Vf}\ (min)$$

Tc ： 加工时间 min cutting time
Vf ：每分钟的工作台进给速 Feed rate per minute of table
L ：转工作台总进给长度(工件长度+铣刀直径) mm Overall table feed length(workpiece length+grinder dia.)

● 切削重力(Ne)Feed rate

$$Ne=\frac{ap\times ae\times Vf\times Ks}{60\times 10^{6}\times\eta}\ (KW)$$

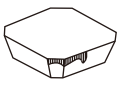
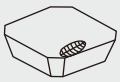
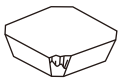
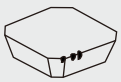
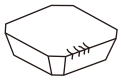
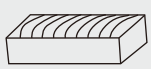
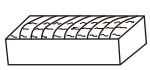
Ne: 切削动力 kw Cutting power(horsepower)
ae: 切削宽度 mm Cutting width
η： 机械效率(0.6~0.8) Mechanical effciency
ap: 切削深度 mm Cutting depth
Vf: 进给速度 mm/min Feed rate
Ks:比切削阻力 kg/mm2 Relative cutting resistance
(参照下表 Refer to table below)

KS(比切削阻力) Specific cutting resistance

工件材料 Work materials	被拉伸强度 (N/mm^2)及硬度 Tensile stength (N/m^2) or hardness	对于每刃进给的比切削阻力(N/mm^2) ks ks:Specific cutting resistance(N/mm^2) for feed tooth				
		0.1mm /tooth	0.2mm /tooth	0.3mm /tooth	0.4mm /tooth	0.6mm /tooth
软钢 Mild steels	520	2200	1950	1820	1700	1580
中碳钢 Medium steels	620	1980	1800	1730	1600	1570
硬钢 Hard steels	720	2520	2200	2040	1850	1740
工具钢 Tool steels	670	1980	1800	1730	1700	1600
	770	2030	1800	1750	1700	1580
铬锰钢 Chrome molybdenum steels	770	2300	2000	1880	1750	1660
	630	2750	2300	2060	1800	1780
铬钼钢 Chrome molybdenum steels	730	24540	2250	2140	2000	1800
	600	2180	2000	1860	1800	1670
镍铬钼钢 Nickel chrome molybdenum steels	940	2000	1800	1680	1600	1500
	352HB	2100	1800	1760	1700	1530
铸钢 Cast steels	520	2800	2500	2320	2200	2040
硬质铸钢 Hard cast steels	46HRC	3000	2700	2500	2400	2200
米汉纳铸铁 Meehanite cast steels	360	2180	2000	1750	1600	1470
灰铸铁 Gray cast steels	200HB	1750	1400	1240	1050	970
黄铜 Yellow coper	500	1150	950	800	700	630
轻合金(Al-Mg) Light alloy(Al-Mg)	160	580	480	400	350	320
轻合金(Al-Si) Light alloy(Al-Si)	200	700	600	490	450	390

铣削加工时的故障及其原因、对策
Cutting condition formula (milling) and trouble shooting

<对策> < Countermeasurs >
○:效果好 Very Effective
●:有效果 Effective
▼:效果相反 Not Effective
⬆:增加、增大 Increase,Make it Large
⬇:减少、减小 Reduce,Make it Small

故障项目 Troubles	刀片材料 Insert Grade				刀具形状 Tool Shape								切削条件 Cutting Condition				
	使用韧性高的材料 Use Tough Grade	使用耐磨损性的高的材料 Use Abrasion Resistant Grade	使用金属陶瓷 Use Cermet Material	使用涂层材料 Use coated Grode	改变研磨量 Change The Honing	改变前角 Change Rake	改变后角 Change Relief Angle	加厚刀片 Make Insert Thicker	加大R角 Increase Corner R	使用精密级刀片 Use Precision Class Inserts	改变刃数 Use Inserts of Different Flute Number	安装修刀刃 Attach Flat Drag	改变切削速度 Change Cutting Speed	改变进给量 Change The Feed Rate	改变切削深度 Change Cut-In Amount	使用切削液 Splash Cutting Fluid	减小接触角 Reduce The Engage Angle
 后隙面磨损（侧面） Abraded Relief Surface (Fland)		○		○	● ⬇		⬆ ●		●				● ⬇				
 前刀面磨损（月牙洼） Abraded Rake Surface (Crater)		●	●	●		⬆ ●							● ⬇	● ⬇		●	
 冲击性崩裂 Shoch Chipping	○				⬆ ○	● ⬇	● ⬇	●	●					● ⬇			●
 熔着性崩裂 Welding Chipping	●		●	○	● ⬇	⬆ ●							⬆ ○			○	
 热裂 Thermal Crack	●							●					● ⬇			▼	
 精加工面 Finish Surface			○		● ⬇	⬆ ●	⬆ ●			○		○	⬆ ●	● ⬇	● ⬇	○	
 颤动 Chattering Vibration					● ⬇	⬆ ●	⬆ ●				● ⬇		● ⬇	● ⬇	● ⬇		
 精刃带缺损•毛刺 Edge Chipping Burr					● ⬇	⬆ ●	⬆ ●		●		⬆ ●			● ⬇	● ⬇		●

超级纵横 ASJ型

<肩切削> Side milling

工件材料 Work	刀片材料 Grade	切削材料 Gutting Speed m/min	使用机床 Spindle of Machine	每刀进给量 Feed rate mm/t	φ16 转速 Min⁻¹	φ16 进给速度 mm/min	φ16 切削排出量 Cm³/min	φ20 转速 Min⁻¹	φ20 进给速度 mm/min	φ20 切削排出量 Cm³/min	φ25 转速 Min⁻¹	φ25 进给速度 mm/min	φ25 切削排出量 Cm³/min	φ32 转速 Min⁻¹	φ32 进给速度 mm/min	φ32 切削排出量 Cm³/min	φ35 转速 Min⁻¹	φ35 进给速度 mm/min	φ35 切削排出量 Cm³/min	φ40 转速 Min⁻¹	φ40 进给速度 mm/min	φ40 切削排出量 Cm³/min	φ50 转速 Min⁻¹	φ50 进给速度 mm/min	φ50 切削排出量 Cm³/min
普通结构用钢 Mild Steels (200HB 以下)	ZP152	150~220	BT40	0.1~0.25	4,380	1000	14.4	3,500	1050	18.9	2,800	840	18.9	2,190	660	19	2,000	600	18.9	1,750	525	18.9	1,400	420	18.9
					Vc=220m/min fz=0.15mm/t ap=3mm ae=0.3Dc									Vc=220m/min fz=0.15mm/t ap=3mm ae=0.3Dc						Vc=220m/min fz=0.15mm/t ap=3mm ae=0.3Dc					
			BT50		3980	900	21.6	3180	1270	38.1	2550	1020	38.3	1990	800	38.4	1820	730	38.3	1590	640	38.4	1270	510	38.3
					Vc=200m/min fz=0.15mm/t ap=3mm ae=0.3Dc									Vc=200m/min fz=0.2mm/t ap=3mm ae=0.5Dc						Vc=200m/min fz=0.2mm/t ap=3mm ae=0.5Dc					
碳素钢、合金钢 Carbon Steels Alloy Steels (30HRC 以下)	ZP152	120~200	BT40	0.1~0.25	3980	900	13	3180	955	17.2	2550	765	17.2	1990	600	17.3	1820	550	17.3	1590	480	17.3	1270	380	17.1
					Vc=200m/min fz=0.15mm/t ap=3mm ae=0.3Dc									Vc=200m/min fz=0.15mm/t ap=3mm ae=0.3Dc						Vc=200m/min fz=0.15mm/t ap=3mm ae=0.3Dc					
			BT50		3580	800	19.2	2865	1145	34.4	2290	920	34.5	1790	720	34.6	1640	660	34.7	1430	570	34.2	1145	460	34.5
					Vc=180m/min fz=0.2mm/t ap=3mm ae=0.5Dc									Vc=180m/min fz=0.2mm/t ap=3mm ae=0.5Dc						Vc=180m/min fz=0.2mm/t ap=3mm ae=0.5Dc					
碳素钢、合金钢 Carbon Steels Alloy Steels (30~40HRC)	ZP152	60~120	BT40	0.08~0.2	2390	380	5.5	1910	380	6.8	1530	310	6.9	1190	240	6.9	1090	220	6.9	800	240	14.4	635	190	14.3
					Vc=120m/min fz=0.1mm/t ap=3mm ae=0.3Dc									Vc=120m/min fz=0.1mm/t ap=3mm ae=0.3Dc						Vc=100m/min fz=0.15mm/t ap=3mm ae=0.5Dc					
			BT50		1990	320	7.7	1590	480	14.4	1270	380	14.2	995	300	14.4	910	275	14.4	950	190	6.8	765	155	6.9
					Vc=100m/min fz=0.15mm/t ap=3mm ae=0.5Dc									Vc=100m/min fz=0.15mm/t ap=3mm ae=0.5Dc						Vc=120m/min fz=0.1mm/t ap=3mm ae=0.3Dc					
碳素钢、合金钢 Carbon Steels Alloy Steels (40~45HRC)	ZP152	50~100	BT40	0.05~0.2	1690	270	2.6	1350	270	3.2	1080	220	3.3	850	170	3.3	770	155	3.3	680	140	3.3	540	110	3.3
					Vc=85m/min fz=0.1mm/t ap=2mm ae=0.3Dc									Vc=85m/min fz=0.1mm/t ap=2mm ae=0.3Dc						Vc=85m/min fz=0.1mm/t ap=2mm ae=0.3Dc					
			BT50		1390	220	3.5	1110	335	6.7	890	270	6.8	700	210	3.7	640	190	6.7	560	170	6.8	445	135	6.8
					Vc=70m/min fz=0.15mm/t ap=2mm ae=0.5Dc									Vc=70m/min fz=0.15mm/t ap=2mm ae=0.5Dc						Vc=70m/min fz=0.15mm/t ap=2mm ae=0.5Dc					
不锈钢 Stainless Steels SUS	ZP152	120~220	BT40	0.08~0.25	4,380	1000	14.4	3,500	1050	18.9	2,800	840	18.9	2190	660	19	2000	600	18.9	1750	525	18.9	1400	420	18.9
					Vc=220m/min fz=0.15mm/t ap=3mm ae=0.3Dc									Vc=220m/min fz=0.15mm/t ap=3mm ae=0.3Dc						Vc=220m/min fz=0.15mm/t ap=3mm ae=0.3Dc					
			BT50		3980	900	21.6	3180	1270	38.1	2550	1020	38.3	1990	800	38.4	1820	730	38.3	1590	640	38.4	1270	510	38.3
					Vc=200m/min fz=0.2mm/t ap=3mm ae=0.5Dc									Vc=200m/min fz=0.2mm/t ap=3mm ae=0.5Dc						Vc=200m/min fz=0.2mm/t ap=3mm ae=0.5Dc					
铸铁 Cast Iron FC.FCD	ZK50	120~180	BT40	0.08~0.25	3580	720	10.4	2865	860	15.5	2290	690	15.5	1790	540	15.5	1640	490	15.5	1430	430	15.5	1145	345	15.5
					Vc=180m/min fz=0.15mm/t ap=3mm ae=0.3Dc									Vc=180m/min fz=0.15mm/t ap=3mm ae=0.3Dc						Vc=180m/min fz=0.15mm/t ap=3mm ae=0.3Dc					
			BT50		3180	640	15.4	2550	1020	30.6	2040	820	30.7	1590	640	30.7	1455	585	30.7	1275	510	30.6	1020	410	30.8
					Vc=160m/min fz=0.2mm/t ap=3mm ae=0.5Dc									Vc=160m/min fz=0.2mm/t ap=3mm ae=0.5Dc						Vc=160m/min fz=0.2mm/t ap=3mm ae=0.5Dc					

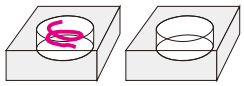
<侧铣> Side milling

工件材料 Work	刀片材料 Grade	切削材料 Gutting Speed m/min	使用机床 Spindle of Machine	每刀进给量 Feed rate mm/t	φ16 转速 Min⁻¹	φ16 进给速度 mm/min	φ16 切削排出量 Cm³/min	φ20 转速 Min⁻¹	φ20 进给速度 mm/min	φ20 切削排出量 Cm³/min	φ25 转速 Min⁻¹	φ25 进给速度 mm/min	φ25 切削排出量 Cm³/min	φ32 转速 Min⁻¹	φ32 进给速度 mm/min	φ32 切削排出量 Cm³/min	φ35 转速 Min⁻¹	φ35 进给速度 mm/min	φ35 切削排出量 Cm³/min	φ40 转速 Min⁻¹	φ40 进给速度 mm/min	φ40 切削排出量 Cm³/min	φ50 转速 Min⁻¹	φ50 进给速度 mm/min	φ50 切削排出量 Cm³/min
普通结构用钢 Mild Steels (200HB 以下)	ZP152	150~220	BT40	0.05~0.25	4.380	700	25.1	3,500	560	31.4	2,800	450	39.4	2,190	440	45.1	2,000	400	49	1,750	520	49.9	1,400	420	63
					Vc=220m/min fz=0.08mm/t ap=Dc ae=0.14Dc									Vc=220m/min fz=0.1mm/t ap=Dc ae=0.1Dc						Vc=220m/min fz=0.15mm/t ap=Dc ae=0.06Dc					
			BT50		3.980	800	41	3,180	640	51.2	2,550	510	63.8	1,990	600	92.2	1,820	550	101	1,590	640	102.4	1,270	510	127.5
					Vc=200m/min fz=0.1mm/t ap=Dc ae=0.2Dc									Vc=200m/min fz=0.15mm/t ap=Dc ae=0.15Dc						Vc=200m/min fz=0.2mm/t ap=Dc ae=0.1Dc					
碳素钢、合金钢 Carbon Steels Alloy Steels (30HRC 以下)	ZP152	120~200	BT40	0.05~0.25	3.980	640	23	3,180	510	28.6	2,550	410	35.9	1,990	400	41	1,820	365	44.7	1,590	480	46.1	1,270	380	57
					Vc=200m/min fz=0.08mm/t ap=Dc ae=0.14Dc									Vc=200m/min fz=0.1mm/t ap=Dc ae=0.1Dc						Vc=200m/min fz=0.15mm/t ap=Dc ae=0.06Dc					
			BT50		3.580	720	36.9	2,865	570	45.6	2,290	460	57.5	1,790	540	82.9	1,640	490	90	1,430	570	91.2	1,145	460	115
					Vc=180m/min fz=0.1mm/t ap=Dc ae=0.2Dc									Vc=180m/min fz=0.15mm/t ap=Dc ae=0.15Dc						Vc=180m/min fz=0.2mm/t ap=Dc ae=0.1Dc					
碳素钢、合金钢 Carbon Steels Alloy Steels (30~40HRC)	ZP152	60~120	BT40	0.05~0.25	2.390	380	9.7	1,910	305	12.2	1,530	245	15.3	1,190	240	19.7	1,090	220	21.6	950	285	22.8	765	230	28.8
					Vc=120m/min fz=0.08mm/t ap=Dc ae=0.1Dc									Vc=120m/min fz=0.1mm/t ap=Dc ae=0.08Dc						Vc=120m/min fz=0.15mm/t ap=Dc ae=0.05Dc					
			BT50		1.990	400	15.4	1,590	320	19.2	1,270	255	23.9	995	300	39.9	910	270	43	800	320	51.2	635	255	63.8
					Vc=100m/min fz=0.1mm/t ap=Dc ae=0.15Dc									Vc=100m/min fz=0.15mm/t ap=Dc ae=0.13Dc						Vc=100m/min fz=0.2mm/t ap=Dc ae=0.1Dc					
碳素钢、合金钢 Carbon Steels Alloy Steels (40~45HRC)	ZP152	50~100	BT40	0.05~0.25	1.690	270	5.5	1,350	220	7	1,080	175	8.8	850	170	13.9	770	155	15.2	680	200	16	540	160	20
					Vc=85m/min fz=0.08mm/t ap=Dc ae=0.08Dc									Vc=85m/min fz=0.1mm/t ap=Dc ae=0.05Dc						Vc=85m/min fz=0.15mm/t ap=Dc ae=0.05Dc					
			BT50		1.390	280	10.8	1,110	220	13.2	890	180	16.9	700	210	27.9	640	190	30.3	560	225	36	445	180	45
					Vc=70m/min fz=0.18mm/t ap=Dc ae=0.15Dc									Vc=70m/min fz=0.15mm/t ap=Dc ae=0.13Dc						Vc=70m/min fz=0.2mm/t ap=Dc ae=0.1Dc					
不锈钢 Stainless Steels SUS	ZP152	120~220	BT40	0.14~0.3	4.380	700	25.1	3,500	560	31.4	2,800	450	39.4	2,190	440	45.1	2,000	400	49	1,750	520	49.9	1,400	420	63
					Vc=220m/min fz=0.08mm/t ap=Dc ae=0.14Dc									Vc=220m/min fz=0.1mm/t ap=Dc ae=0.1Dc						Vc=200m/min fz=0.15mm/t ap=Dc ae=0.06Dc					
			BT50	0.1~0.25	3.980	800	41	3,180	640	51.2	2,550	510	63.8	1,990	600	92.2	1,820	550	101	1,590	640	102.4	1,270	510	127.5
					Vc=200m/min fz=0.1mm/t ap=Dc ae=0.2Dc									Vc=220m/min fz=0.1mm/t ap=Dc ae=0.1Dc						Vc=200m/min fz=0.2mm/t ap=Dc ae=0.1Dc					
铸铁 Cast Iron FC.FCD	ZK50	120~180	BT40	0.05~0.25	3.580	570	20.4	2,865	460	25.8	2,290	365	31.9	1,790	360	36.9	1,640	330	40.4	1,430	430	41.3	1,145	345	51.8
					Vc=180m/min fz=0.08mm/t ap=Dc ae=0.14Dc									Vc=180m/min fz=0.1mm/t ap=Dc ae=0.1Dc						Vc=180m/min fz=0.15mm/t ap=Dc ae=0.06Dc					
			BT50		3.180	640	32.8	2,550	510	40.8	2,040	410	51.3	1,590	480	73.7	1,455	440	80.9	1,275	510	81.6	1,020	410	102.5
					Vc=160m/min fz=0.1mm/t ap=Dc ae=0.2Dc									Vc=160m/min fz=0.15mm/t ap=Dc ae=0.15Dc						Vc=160m/min fz=0.2mm/t ap=Dc ae=0.1Dc					

<钻孔加工> Drilling

务必采用分级进给。Please use only step-feed.

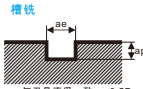




工件材料 Work	刀片材料 Grade	切削材料 Gutting Speed m/min	每刀进给量 Feed rate mm/t	φ16 转速 Min⁻¹	φ16 进给速度 mm/min	φ20 转速 Min⁻¹	φ20 进给速度 mm/min	φ25 转速 Min⁻¹	φ25 进给速度 mm/min	φ32 转速 Min⁻¹	φ32 进给速度 mm/min	φ35 转速 Min⁻¹	φ35 进给速度 mm/min	φ40 转速 Min⁻¹	φ40 进给速度 mm/min	φ50 转速 Min⁻¹	φ50 进给速度 mm/min
普通结构用钢 Mild Steels (200HB 以下)	ZP152	150~220	0.03~0.08	4,380	440	3,500	350	2,800	280	2,190	220	2,000	200	1,750	180	1,400	140
				Vc=220m/min fz=0.05mm/t 分级进给量 step feed=0.3mm								Vc=220m/min fz=0.05mm/t 分级进给量 step feed=0.3mm					
碳素钢、合金钢 Carbon Steels Alloy Steels (30HRC 以下)	ZP152	120~220	0.03~0.08	3,980	400	3,180	320	2,550	250	1,990	200	1,820	180	1,590	160	1,270	130
				Vc=200m/min fz=0.05mm/t 分级进给量 step feed=0.5mm								Vc=200m/min fz=0.05mm/t 分级进给量 step feed=0.5mm					
不锈钢 Stainless Steels SUS	ZP152	120~220	0.03~0.06	3,980	400	3,180	320	2,550	250	1,990	200	1,820	180	1,590	160	1,270	130
				Vc=200m/min fz=0.05mm/t 分级进给量 step feed=0.3mm								Vc=200m/min fz=0.05mm/t 分级进给量 step feed=0.3mm					
铸铁 Cast Iron FC.FCD	ZK50	120~180	0.03~0.1	3,180	510	5,550	410	2,040	330	1,590	250	1,460	230	1,270	200	1,020	160
				Vc=160m/min fz=0.08mm/t 分级进给量 step feed=1mm								Vc=160m/min fz=0.08mm/t 分级进给量 step feed=1mm					

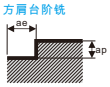
玉米型铣削刀具 Indexable corn milling cutter

槽铣



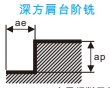
ae与刀具直径一致aps≤0.5D

方肩台阶铣



aes≤0.5D aps≤1.2D

深方肩台阶铣



aes≤0.2D ap小于切削刃长

UEX标准切削条件

UEX standard cutting conditions

工件材料 Work	刀片材料 Grade	适用刀片 Inserts	切削速度vt Cutting speed vt (m/min)	外径 Dc Tool diameter φ16 转速 Revolutions Min⁻¹	φ16 进给速度 Table Speed mm/min	φ20 转速 Revolutions Min⁻¹	φ20 进给速度 Table Speed mm/min	φ25 转速 Revolutions Min⁻¹	φ25 进给速度 Table Speed mm/min	φ30 转速 Revolutions Min⁻¹	φ30 进给速度 Table Speed mm/min	φ35 转速 Revolutions Min⁻¹	φ35 进给速度 Table Speed mm/min	φ40 转速 Revolutions Min⁻¹	φ40 进给速度 Table Speed mm/min	φ50 转速 Revolutions Min⁻¹	φ50 进给速度 Table Speed mm/min
软钢 Mild Steels (200HB 以下)	ZP151	AP:T12020□SR AD:T16030□SR	180	3,580	180	2,860	290	2,290	370	1,910	370	1,640	490	1,430	490	1,150	510
	ZP152		140	2,780	220	2,230	360	1,780	360	1,490	360	1,270	460	1,110	460	890	500
碳素钢、合金钢 Carbon Steels Alloy Steels (30HRC 以下)	ZP152		150	2,980	150	2,390	240	1,910	310	1,590	310	1,360	410	1,190	410	950	420
	ZP153		100	1,990	160	1,590	250	1,270	250	1,060	250	910	330	800	330	640	350
碳素钢、合金钢 Carbon Steels Alloy Steels (30~40HRC)	ZP152		50	990	80	800	130	640	130	530	130	450	160	400	160	320	170
	ZP153		80	1,590	130	1,270	200	1,020	200	850	200	730	260	640	260	510	290
不锈钢 Stainless Steels	ZP152		100	1,990	160	1,590	250	1,270	250	1,060	250	910	330	800	330	640	360
	ZP153		125	2,490	200	1,990	320	1,590	320	1,330	320	1,140	410	990	410	800	450
铸铁 Cast Iron	ZK50	AP:T12020□ER AD:T16030□ER	80	1,590	160	1,270	250	1,020	250	850	250	730	330	640	330	510	350
	ZK501		80	1,590	190	1,270	300	1,020	300	850	300	730	390	640	390	510	400
铝合金、铜 Aluminum Alloy (SiC15%以下) 石墨 Graphite (65HS)	ZK10	APET120202FR ADET160302FR	350	6,960	1,040	5,570	1,670	4,460	1,340	3,710	1,110	3,180	1,430	2,790	1,260	2,230	1,340

【注意】
①采用B型(下切型)刀身时，请设定为上述条件的70%。
②为了防止切屑卡住，推荐采用吹气清除切屑。

【Note】
③In case of B type body (under cut type). Apply 70% of the above listed values.
②Blow residing chips with the air,to prevent clogging of cutting dege.

可转位三面刃铣削刀具

Indexable three-sided milling cutter

被加工材料	硬度HB	刀片牌号	切削用量 V (m/min)	切削用量 f (mm/z)
低碳钢、软钢	≤180	ZP152	180(100-250)	0.1(0.08-0.25)
		ZP153	150(100-200)	0.15(0.1-0.3)
高碳钢、合金钢	180-280	ZP152	150(80-250)	0.1(0.08-0.25)
		ZP153	120(80-200)	0.15(0.1-0.3)
合金工具钢	280-350	ZP152	120(80-250)	0.1(0.08-0.25)
		ZP153	100(80-200)	0.15(0.1-0.3)
不锈钢	≤270	ZP152	120(80-250)	0.1(0.05-0.15)
		ZP153	100(80-200)	0.08(0.05-0.15)
铸铁	180-250	ZK50	100(80-250)	0.1(0.05-0.15)
		ZK501	150(100-250)	0.08(0.05-0.15)

被加工材料	硬度HB	刀片牌号	切削用量 Cutting amount 方肩台阶铣 Square shoulder milling V (m/min)	f (mm/z) -PF	-PM	-PR
低碳钢、软钢	≤180	ZP151 ZP152 ZP153	270(240-350)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP151	220(180-300)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP152	270(200-360)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP153	240(180-350)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
高碳钢、合金钢	180-280	ZP151 ZP152 ZP153	240(210-320)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP151	200(160-280)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP152	240(180-360)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP153	220(150-330)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
合金工具钢	280-350	ZP151 ZP152 ZP153	220(180-300)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP151	180(150-250)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP152	220(160-340)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP153	200(120-300)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
不锈钢	≤270	ZP151	170(120-240)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP152	160(150-270)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP153	150(110-270)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
		ZP163	140(100-250)	0.1(0.08-0.2)	0.2(0.1-0.3)	0.25(0.2-0.35)
铸铁	180-250	ZK50	200(120-240)	0.1(0.08-0.2)	0.2(0.1-0.3)	
		ZK501	180(120-300)	0.1(0.08-0.2)	0.2(0.1-0.3)	
				-LH		
铝合金	---	ZK10	300-	0.2(0.08-0.4)		
		ZK01	300-	0.2(0.08-0.4)		

BAP推荐切削条件 Recommend Cutting Conditions

工件材料 Cat. No.		硬度 Hardness	刀片材料 Balde No.	加工形态	对应断屑槽	切削速度 (m/min)	每刃进给量 (mm/tooth)
P	软钢（SS400，S10C等）	≤HB180	ZP151	精加工切削	H	160(120-180)	0.1(0.05-0.15)
			ZP152	一般切削	M	180(150-200)	0.15(0.1-0.2)
	碳钢，合金钢（S45C，SCM440等）	HB180-280	ZP151	精加工切削	H	120(100-160)	0.08(0.05-0.1)
			ZP152	一般切削	M	150(120-200)	0.15(0.1-0.2)
			ZP153	一般切削	H	120(100-160)	0.2(0.1-0.25)
			ZP163	不稳定切削	H	120(100-160)	0.15(0.1-0.2)
		HB280-350	ZP152	精加工切削	H	100(80-120)	0.08(0.05-0.1)
			ZP153	一般切削	M	140(120-160)	0.15(0.1-0.2)
			ZP152	不稳定切削	H	100(80-120)	0.2(0.1-0.25)
M	不锈钢（SUS304等）	≤HB200	ZP152	一般切削	M	140(120-160)	0.15(0.1-0.2)
			ZP153	一般切削	H	120(80-140)	0.1(0.05-0.15)
			ZP163	不稳定切削	H	120(80-140)	0.2(0.1-0.25)
K	灰铸铁（FCD250等）	抗拉强度 ≤ 350MPa	ZK50	一般切削	M	140(120-160)	0.15(0.1-0.2)
			ZK501	一般切削	H	120(100-140)	0.2(0.1-0.25)
	球墨铸铁（≤ FCD450）	抗拉强度 ≤ 450MPa	ZK50	一般切削	M	120(100-140)	0.15(0.1-0.2)
			ZK501	一般切削	H	100(80-120)	0.2(0.1-0.25)
	球墨铸铁（≥ FCD500）	抗拉强度 500-800MPa	ZK50	一般切削	M	100(80-120)	0.1(0.05-0.15)
			ZK501	一般切削	H	80(60-100)	0.15(0.1-0.2)
N	铝合金	-	ZK10	一般切削	G	500(200-1000)	0.2(0.1-0.3)
S	钛合金	≧HB350	ZP163	一般切削	G	40(30-60)	0.2(0.1-0.3)
	耐热合金	-	ZP163	一般切削	M	30(20-40)	0.15(0.1-0.2)
H	高硬度钢	≧HRC40	ZP163	一般切削	M	70(50-100)	0.1(0.05-0.15)

● 刀具转速（min^{-1}）=（1000x切削速度）÷（3. 14x刀具切削刃直径）　●机床工作台进给量（mm/min）=每刃进给量x刀具刃数x刀具转速

超快削立铣刀 AHU型 Ultra-fast cutting milling cutter AHU type

标准切削条件 Recommended cutting conditions

工件材料 Work	刀片材料 Grade	切削条件 Cutting condition		外径 Dc Tool diameter AHU/AHUM 10型 Type φ16	φ20~35	AHU/AHUB/AHUM 15型 Type φ25~50	φ63~80	φ63~80
普通结构用钢 Mild Steels SS	ZP152	切削速度 Vc(m/min)	Cutting speed	120~200	120~180	120~180	120~180	120~180
		每刃进给量 fz(mm/t)	Feed rate	0.06~0.12	0.1~0.2	0.15~0.25	0.15~0.25	0.15~0.25
碳素钢、合金钢 Carbon Steels Alloy Steels S-C SCM	ZP152 ZP153	切削速度 Vc(m/min)	Cutting speed	120~200	120~180	120~180	120~180	120~180
		每刃进给量 fz(mm/t)	Feed rate	0.05~0.1	0.08~0.2	0.15~0.25	0.15~0.25	0.15~0.25
模具钢(300HB以下) Die Steel SKD SKT	ZP152 ZP153	切削速度 Vc(m/min)	Cutting speed	120~180	120~160	120~160	120~160	120~160
		每刃进给量 fz(mm/t)	Feed rate	0.05~0.1	0.08~0.2	0.1~0.2	0.1~0.2	0.1~0.2
预硬化钢 (30~40HRC) Pre-Harden Steel	ZP152 ZP153	切削速度 Vc(m/min)	Cutting speed	120~180	80~120	80~120	80~120	80~120
		每刃进给量 fz(mm/t)	Feed rate	0.05~0.1	0.08~0.2	0.1~0.2	0.1~0.2	0.1~0.2
不锈钢 Stainless Steels SUS	ZP152 ZP153 ZP163	切削速度 Vc(m/min)	Cutting speed	200~300	200~300	200~300	200~300	200~280
		每刃进给量 fz(mm/t)	Feed rate	0.1~0.15	0.15~0.2	0.15~0.25	0.15~0.25	0.15~0.25
不锈钢(湿式切削) Stainless Steel(wet condition) SUS	ZP152 ZP153 ZP163	切削速度 Vc(m/min)	Cutting speed	80~120	80~120	80~120	80~120	80~120
		每刃进给量 fz(mm/t)	Feed rate	0.1~0.15	0.15~0.2	0.15~0.25	0.15~0.25	0.15~0.25
铸铁 Cast Iron FC.FCD	ZK50 ZK501	切削速度 Vc(m/min)	Cutting speed	120~180	120~160	120~160	120~160	120~160
		每刃进给量 fz(mm/t)	Feed rate	0.06~0.12	0.1~0.2	0.15~0.25	0.15~0.25	0.15~0.25
钛合金(湿式切削) Titanium Alloy (wet condition) Ti-6Al-4V	ZP152 ZP153 ZP163	切削速度 Vc(m/min)	Cutting speed	30~60	30~60	30~60	30~60	30~50
		每刃进给量 fz(mm/t)	Feed rate	0.08~0.1	0.1~0.2	0.1~0.2	0.1~0.2	0.1~0.2
铝合金(湿式切削) Aluminum Alloy (wet condition)	ZK10	切削速度 Vc(m/min)	Cutting speed	200~500	200~600	200~600	200~800	200~800
		每刃进给量 fz(mm/t)	Feed rate	0.1~0.15	0.1~0.2	0.1~0.25	0.1~0.25	0.1~0.25

【注意】
①此标准切削条件表中的数值为切削条件的其准值。实际加工时，请考虑加工形状，目的，使用机床等因素，对切削条件进行调整。
②槽切削时，请将进给速度设定为约70%。
③应尽早更换刀片，以防过度使用而造成破损。
④排出的切屑可能会四处飞溅，割伤或烫伤操作人员，也可能会溅入眼睛而导致受伤。故大使用时应在其周围安装防护罩，操作人员应穿戴防护镜等防护用具，确保在安全的环境下作业。
⑤请勿使用非水溶性切削液，以免造成火灾。
⑥使用SD5010铝合金的切削条件请参考下一页。

【Note】
①These conditions are for general guidance;in actual machining conditions adjust the parameters according to your actual machine and work-piece conditions.
②Please reduce feed rate 30% from above table for slotting.
③The steel chips of insert breakge,please change insert earlier.
④The steel chips may cause cuts,burns or damages to eyes.Be sure to install the safi cover around the tool and wear the safty glasses when carring out any works. Please don't use cutting oil as coolant.(It may be cause of fire.)
⑤For cutting conditions for cutting aluminum alloy using.
⑥SD5010,refer to the next page.

倾斜切削 Ramping

由于刃口未及中心，故倾斜角度受到限制。但若采用下图所示的倾斜切削或螺旋切削，即使无导孔，也可进行直接刻模加工。

Although ramp angle is limited due to cutting edge design,direct milling is possible without pre-drill-hole with ramping and helical milling methods like next pictures.



❶ AHU(L)/AHUM 10型 type (mm)

外径 Dc Tool diameter	φ16	φ20	φ21	φ25	φ26	φ30	φ32	φ35
倾斜角θ Ramp Angleθ	4°	3°	3°	2.5°	2.5°	2°	2°	1.5°
螺旋孔径 Hole Dia.	21~29	29~37	31~39	39~47	41~49	49~56	53~61	59~66

❷ AHU(L)/AHUM 15型 type (mm)

外径 Dc Tool diameter	φ25	φ30	φ32	φ35	φ40	φ50
倾斜角θ Ramp Angleθ	5°	4°	4°	3.5°	3°	2°
螺旋孔径 Hole Dia.	34~47	43~56	47~60	54~66	64~76	73~96

【注意】
①倾斜角θ的设定不要超出上述范围。推荐在1°以下使用。 ②孔径超出上述范围时，请钻导孔后进行加工。
【Note】①The ramp angle θ should be set within the ranges listed above. Use at ramp angles of 1° of less is recommended.
②For hole diameters outside the ranges listed above,a pilot hole should be drilled before milling.

High-Feed Ultra End Mill AHU

使用SD5010铝合金和铜的切削条件

Cutting conditions for cutting aluminum alloy and copper using SD5010

<肩切削> Shoulder cutting: ***ae=0.5Dc***

工件材料 Work	切削条件 Cutting condition	AHU/AHUM 10型 Type φ16	φ20	φ25	φ32	φ35	AHU/AHUB/AHUM 15型 Type φ25	φ32	φ35	φ40	φ50	φ63	φ80	φ100
铝合金伸展材料 Expanded aluminum alloy material A5052、A7075等 etc, (吹气或湿式：水溶性) (Air-blow or wet:Water-soluble agent)	转速 n(min⁻¹)	15,900	15,900	12,700	11,900	10,910	12,000	9,950	9,090	9,500	7,640	6,060	5,970	4,770
	进给速度 Vf(mm/min)	4,770	7,150	7,620	8,920	8,180	4,800	5,970	5,450	7,600	7,640	7,270	8,360	7,630
	每刃进给量 fz(mm/t)	0.15	0.15	0.15	0.15	0.15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	切削速度 Vc(m/min)	800	1,000	1,000	1,200	1,200	950	1,000	1,000	1,200	1,200	1,200	1,500	1,500
	轴方向切削 ap(mm)	3	3	3	3	3	3	5	5	5	5	5	5	5
铝合金铸件 Cast aluminum alloy material AC4A、ADC12等etc, (吹气或湿式：水溶性) (Air-blow or wet:Water-soluble agent)	转速 n(min⁻¹)	12,700	12,700	10,160	9,520	8,730	9,600	7,960	7,270	7,600	6,110	4,850	4,780	3,820
	进给速度 Vf(mm/min)	3,820	5,720	6,100	7,140	6,550	3,840	4,780	4,360	6,080	6,110	5,820	6,690	6,100
	每刃进给量 fz(mm/t)	0.15	0.15	0.15	0.15	0.15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	切削速度 Vc(m/min)	640	800	800	960	960	760	800	800	960	960	960	1,200	1,200
	轴方向切削 ap(mm)	3	3	3	3	3	5	5	5	5	5	5	5	5
纯铜 Pure copper C1100、C1020等 etc, (湿式：水溶性) (Wet:Water-soluble agent)	转速 n(min⁻¹)	5,970	4,770	3,820	2,980	2,730	3,820	2,980	2,730	2,390	1,910	1,520	1,190	955
	进给速度 Vf(mm/min)	1,790	2,150	2,290	2,240	2,050	1,530	1,790	1,640	1,910	1,910	1,820	1,670	1,530
	每刃进给量 fz(mm/t)	0.15	0.15	0.15	0.15	0.15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	切削速度 Vc(m/min)	300	300	300	300	300	300	300	300	300	300	300	300	300
	轴方向切削 ap(mm)	3	3	3	3	3	5	5	5	5	5	5	5	5

【注意】
①此标准切削条件表中的数值为切削条件的其准值。实际加工时，请考虑加工形状，目的，使用机床等因素，对切削条件进行调整。
②使用干槽切削时请将进给速度降低30%（0. 7倍）。
③在L/D=4以上时使用，请将转速与进给速度降至60%（0. 4倍）。
④请在安装有防溅挡板的机床上使用，并请使用时务必穿戴防护眼镜等防护用具，确保在安全的环境中进行作业。
⑤若机床不能达到上表中的转速，请为其设定使用可能的转速，并用f z值计算出进给速度。
⑥请在所使用的铣夹头的允许转速以内使用。若允许转速未达到上表中的转速，请为其设定使用可能的转速，并用f z值计算出进给速度。

【Note】
①These conditions are for general guidance;in actual machining conditions adjust the parameters according to your actual machine and work-piece conditions.
②When cutting grooves,reduce the feed rate by 30%(set it to 0.7 times the value show above).
③When L/D=4 or higher,reduce the rotation speed and feed rate by 60% (set them to 0.4 times the values shown above).
④Use on a machine equipped with spiashguards.During use,be sure to wear protective equipment such as safety glasses,and always perform work in a safe environment.
⑤When using a machine that cannot provide the rotation speed shown above,set the highest rotation speed possible and calculate the feed rate using the fz value.
⑥Be sure to use this tool at rotation speeds with in acceptable range for the milling chuck being used.If the acceptable rotaion speed range is below the rotation speed shown above,set the highest acceptable rotation speed and calculate the feed rate using the value.

使用HD7010刀片的石墨及铝合金铸件的切削条件

Cutting conditions for cutting graphite and cast aluminium alloy

工件材料 Work	刀片材料 Grade	切削条件 Cutting condition		AHU/AHUM 10型 Type Ø16	Ø20~35	AHU/AHUM 15型 Type Ø25~50	Ø63~80	Ø100
石墨 Graphite	ZK10	切削速度 Vc Cutting speed	m/min	150~300	150~300	150~300	150~300	150~300
		每刃进给量 f z Feed rate	mm/t	0.10~0.20	0.10~0.20	0.10~0.25	0.10~0.25	0.10~0.25
铝合金铸件 Cast aluminum alloy material AC4A、ADC12等 (吹气或湿式：水溶性) (Air-blow or wet:Water-soluble agent)	ZK10	切削速度 Vc Cutting speed	m/min	200~500	200~500	200~600	200~600	200~600
		每刃进给量 f z Feed rate	mm/t	0.10~0.20	0.10~0.20	0.10~0.25	0.10~0.25	0.10~0.25

【注意】
①此标准切削条件表中的数值为切削条件的其准值。实际加工时，请考虑加工形状，目的，使用机床等因素，对切削条件进行调整。
②本刀具在使用时有可能会发生破损，故必须安装护盖，使用保护镜、安全靴等。

【Note】
①These conditions are for general guidance;in actual machining conditions adjust the parameters according to your actual machine and work-piece conditions.
②Since there is a danger of breakage when using this tools,be sure to use the cutting area cover,protective goggles,safety shoes,etc.

T217. 69/TE90/EPX3000推荐切削条件 Recommend Cutting Conditions

工件材料 Cat. No.		硬度 Hardness	刀片材料 Balde No.	切削速度 vc (m/min)	切削宽度 ae (mm)	Ø12-Ø16 每刃进给量 fz (mm/tooth)	Ø12-Ø16 切削深度 ap (mm)	Ø18-Ø25 每刃进给量 fz (mm/tooth)	Ø18-Ø25 切削深度 ap (mm)	Ø28-Ø100 每刃进给量 fz (mm/tooth)	Ø28-Ø100 切削深度 ap (mm)
P	软钢 (SS400，S10C等)	≤HB180	ZP152 M断屑槽	230 (180-270)	-0.25D	0-4 4-7 - -	0.15 0.10 - -	0-5 5-7 7-8.5 8.5-10	0.25 0.20 0.15 0.10	0-5 5-7 7-8.5 8.5-10	0.20 0.15 0.10 0.07
				220 (170-260)	-0.5D	0-2 2-5 - -	0.15 0.10 - -	0-3 3-5.5 5.5-8 8-10	0.25 0.20 0.15 0.10	0-3 3-5.5 5.5-8 8-10	0.20 0.15 0.10 0.07
				180 (140-210)	-0.75D	0-4 -	0.10 -	0-4 4-10	0.15 0.10	0-3 3-7	0.10 0.07
	碳钢，合金钢 (S45C，SCM440等)	HB180-350	ZP152 M断屑槽	180 (140-210)	-0.25D	0-4 4-7 - -	0.15 0.10 - -	0-5 5-7 7-8.5 8.5-10	0.25 0.20 0.15 0.10	0-5 5-7 7-8.5 8.5-10	0.20 0.15 0.10 0.07
				170 (130-200)	-0.5D	0-2 2-5 - -	0.15 0.10 - -	0-3 3-5.5 5.5-8 8-10	0.25 0.20 0.15 0.10	0-3 3-5.5 5.5-8 8-10	0.20 0.15 0.10 0.07
				140 (110-160)	-0.75D	0-4 -	0.10 -	0-4 4-10	0.15 0.10	0-3 3-7	0.10 0.07
M	不锈钢（SUS304等）	≤HB270	ZP153 M断屑槽	180 (140-210)	-0.25D	0-4 4-7 - -	0.15 0.10 - -	0-5 5-7 7-8.5 8.5-10	0.20 0.15 0.10 0.07	0-5 5-7 7-8.5 8.5-10	0.20 0.15 0.10 0.07
				170 (130-200)	-0.5D	0-2 2-5 - -	0.15 0.10 - -	0-3 3-5.5 5.5-8 8-10	0.20 0.15 0.10 0.07	0-3 3-5.5 5.5-8 8-10	0.20 0.15 0.10 0.07
				140 (110-160)	-0.75D	0-4 -	0.10 -	0-4 4-10	0.10 0.07	0-3 3-7	0.10 0.07
K	灰铸铁 (FC300等)	抗拉强度 ≤350MPa	ZK50 H断屑槽	250 (200-300)	-0.25D	0-4 4-7 - -	0.15 0.10 - -	0-5 5-7 7-8.5 8.5-10	0.25 0.20 0.15 0.10	0-5 5-7 7-8.5 8.5-10	0.20 0.15 0.10 0.07
				240 (190-290)	-0.5D	0-2 2-5 - -	0.15 0.10 - -	0-3 3-5.5 5.5-8 8-10	0.25 0.20 0.15 0.10	0-3 3-5.5 5.5-8 8-10	0.20 0.15 0.10 0.07
				210 (160-260)	-0.75D	0-4 -	0.10 -	0-4 4-10	0.15 0.10	0-3 3-7	0.10 0.07
	球墨铸铁 (FCD450等)	抗拉强度 ≤800MPa	ZK501 H断屑槽	130 (100-150)	-0.25D	0-4 4-7 - -	0.10 0.07 - -	0-5 5-7 7-8.5 8.5-10	0.20 0.15 0.10 0.07	0-5 5-7 7-8.5 8.5-10	0.20 0.15 0.10 0.07
				120 (90-140)	-0.5D	0-2 2-5 - -	0.10 0.07 - -	0-3 3-5.5 5.5-8 8-10	0.20 0.15 0.10 0.07	0-3 3-5.5 5.5-8 8-10	0.20 0.15 0.10 0.07
				100 (80-120)	-0.75D	0-4 -	0.07 -	0-4 4-10	0.10 0.07	0-3 3-7	0.10 0.07
N	铝合金	-	ZK10 GM断屑槽	500 (200-1000)	-0.25D	0-4 4-7	0.15 0.10	0-4 4-7	0.25 0.15	0-4 4-7	0.07 0.20
				500 (200-1000)	-0.5D	0-4 4-7	0.15 0.10	0-4 4-7	0.20 0.10	0-4 4-7	0.10 0.20
				500 (200-1000)	-0.75D	0-5 0-5	0.10 0.10	0-5 0-5	0.15 0.15	0-5 0-5	0.10 0.10
H	高硬度钢 (SKD等)	HRC40-55	ZP163 H断屑槽	90 (70-100)	-0.25D	0-4 4-7 -	0.10 0.07 -	0-5 5-7 7-8.5	0.15 0.10 0.07	0-5 5-7 -	0.10 0.15 0.10
				85 (60-100)	-0.5D	0-2 2-5	0.10 0.07	0-3 3-5.5	0.15 0.10	0-3 -	0.15 -
				70 (50-80)	-0.75D	0-4 0-4	0.07 0.07	0-4 0-4	0.07 0.07	0-3 0-3	0.07 0.07
P	(槽加工)软钢 (SS400 , S10C等)	≤HB180	ZP151 H断屑槽	180 (140-210)	D	0-3 0-3	0.10 0.10	0-4 4-7	0.10 0.07	0-3 3-5	0.10 0.07
	(槽加工)碳钢，合金钢 (S45C , SCM440等)	HB180-350	ZP152 H断屑槽	140 (110-160)	D	0-3 0-3	0.10 0.10	0-4 4-7	0.10 0.07	0-3 3-5	0.10 0.07
M	(槽加工)不锈钢（SUS304等）	≤HB270	ZP152 M断屑槽	140 (110-160)	D	0-3 0-3	0.10 0.10	0-4 4-7	0.10 0.07	0-3 3-5	0.10 0.07
K	(槽加工)灰铸铁 (FC300等)	抗拉强度 ≤350MPa	ZK50 H断屑槽	140 (110-160)	D	0-3 0-3	0.10 0.10	0-4 4-7	0.10 0.07	0-3 3-5	0.10 0.07
	(槽加工)球墨铸铁 (FCD450等)	抗拉强度 ≤800MPa	ZK501 H断屑槽	100 (80-120)	D	0-3 0-3	0.07 0.07	0-4 4-7	0.10 0.07	0-3 3-5	0.10 0.07
N	(槽加工)铝合金	-	ZK10 GM断屑槽	500 (200-1000)	D	0-5 0-5	0.10 0.10	0-5 0-5	0.20 0.20	0-5 0-5	0.15 0.15
H	(槽加工)高硬度钢 (SKD等)	HRC40-55	ZP163 H断屑槽	70 (50-80)	D	0-3 0-3	0.07 0.07	0-4 0-4	0.07 0.07	0-3 0-3	0.07 0.07

斜面加工，螺旋加工条件 Bevel processing, spiral processing conditions

刀具直径 D1 (mm)	斜面加工		盲孔，平底的螺旋加工					
	最大加工斜面角 α°	最小距离 L ○1 (mm)	最大加工直径 DH max. ○2 (mm)	最大螺距 P max. (mm)	最小加工直径 DH min. (mm)	最大螺距 P max. (mm)	最小加工直径 DH min. (mm)	最大螺距 P max. (mm)
12	6	95	22	2.5	20.5	2	14	0.5
14	6	95	26	2.5	24.5	2	18	1
16	15	37	30	9	28	7	21	2
18	11	51	34	5	32	4.5	25	2
20	9	63	38	5	36	4.5	29	2
22	7	81	42	5	40	4.5	33	2
25	6	95	48	6	46	5	39	3
28	4	143	54	4.5	52	4	45	2
30	4	143	58	4.5	56	4	49	2
32	3	190	62	4.5	60	4	53	2
35	3	190	68	4	66	3.5	59	2
40	2	286	78	4	76	3.5	69	2
50	1	572	98	2	96	2	89	2
63	1	572	124	2	122	2	115	2
80	1	572	158	2	156	2	149	2
100	0.5	1145	198	1	196	1	189	1

注 用上表的斜面角加工延展性大的工件材料时，切削有可能不折断。这时请减小斜面角或每刃进给量。

○1 L由最大斜面角和最大切削深度10计算得出（L=10/tan α）.

○2 盲孔，平底的最大加工直径是圆弧半径R=0.8的情况，其他情况请按照下式计算{(刃径D)-(圆弧半径R)-0.2}x2

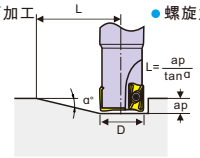
注1 本切削条件是标准带柄型、无柄型产品的标准值。
条件的设定以机床刚性及工件刚性高，
不发生高频振动为前提，
若加工中发生高频振动或刀片崩刃等情况，
请根据情况改变切削条件。

注2 下面是容易产生振动的几种情况，
振动发生时请降低切削深度等切削条件：
1. 使用长柄型，超长柄型刀具时；
2. 标准带柄型，无柄型铣刀的悬伸量过大时；
3. 机床刚性，工件夹紧刚性低时.

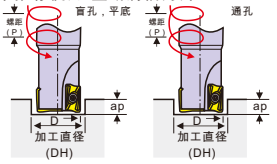
注3 刃数不同的类型时，减少刃数可以有效防止振动的发生.
(例Ø25的4刃铣刀→Ø25的3刃铣刀或2刃铣刀
Ø20的3刃铣刀→Ø20的2刃铣刀)

注4 强断续切削或不稳定切削中推荐使用H型断屑槽刀片.

● 斜面加工

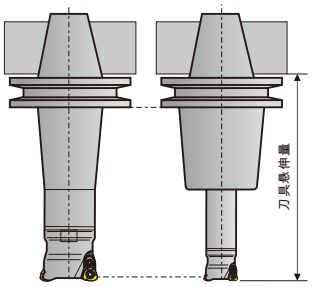


● 螺旋加工



AJX 快进给铣刀 Ajx Fast Feed Milling Cutter

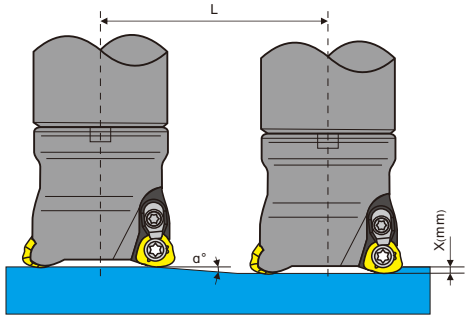
工件材料 Cat. No.		硬度 Hardness	刀片材料 Balde No.	切削速度 (m/min)	Ø16/Ø17 悬伸量 (mm)	Ø16/Ø17 轴向切削深度 (mm)	Ø16/Ø17 每刃进给量 (mm/tooth)	Ø20-Ø22 悬伸量 (mm)	Ø20-Ø22 轴向切削深度 (mm)	Ø20-Ø22 每刃进给量 (mm/tooth)	Ø25-Ø28 悬伸量 (mm)	Ø25-Ø28 轴向切削深度 (mm)	Ø25-Ø28 每刃进给量 (mm/tooth)	Ø30-Ø35 悬伸量 (mm)	Ø30-Ø35 轴向切削深度 (mm)	Ø30-Ø35 每刃进给量 (mm/tooth)	Ø40(Ø32刀柄) 悬伸量 (mm)	Ø40(Ø32刀柄) 轴向切削深度 (mm)	Ø40(Ø32刀柄) 每刃进给量 (mm/tooth)	Ø40(Ø42刀柄) 悬伸量 (mm)	Ø40(Ø42刀柄) 轴向切削深度 (mm)	Ø40(Ø42刀柄) 每刃进给量 (mm/tooth)	Ø50/Ø63带柄 悬伸量 (mm)	Ø50/Ø63带柄 轴向切削深度 (mm)	Ø50/Ø63带柄 每刃进给量 (mm/tooth)	Ø50/Ø63无柄 悬伸量 (mm)	Ø50/Ø63无柄 轴向切削深度 (mm)	Ø50/Ø63无柄 每刃进给量 (mm/tooth)	Ø80-Ø160无柄 悬伸量 (mm)	Ø80-Ø160无柄 轴向切削深度 (mm)	Ø80-Ø160无柄 每刃进给量 (mm/tooth)
P	软钢 (SS400, S10C等)	≤HB180	ZP152	170 (120-220)	140	0.8	0.8	160	1.0	1.0	170	1.0	1.2	180	1.2	1.4	180	1.2	1.4	180	1.2	1.5	180	1.4	1.5	150	1.5	1.5	170	1.5	1.5
					180	0.8	0.6	210	0.8	0.8	230	0.8	1.0	230	1.0	1.2	240	1.0	1.2	240	1.0	1.3	240	1.2	1.3	250	1.3	1.3	300	1.3	1.3
					210	0.4	0.4	240	0.6	0.6	290	0.6	0.8	290	0.8	1.0	300	0.8	1.0	300	0.8	1.1	-	-	-	350	1.1	1.1	450	1.0	1.0
	碳钢 (S55C等)	HB180-280	ZP152	150 (100-200)	140	0.7	0.8	160	0.8	1.0	170	0.8	1.2	180	1.0	1.4	180	1.0	1.4	180	1.0	1.5	180	1.2	1.5	150	1.3	1.5	170	1.3	1.5
					180	0.5	0.6	210	0.6	0.8	230	0.6	1.0	230	0.8	1.2	240	0.8	1.2	240	0.8	1.3	240	1.0	1.3	250	1.1	1.3	300	1.1	1.3
					210	0.3	0.4	240	0.4	0.6	290	0.4	0.8	290	0.6	1.0	300	0.6	1.0	300	0.6	1.1	-	-	-	350	0.9	1.1	450	0.8	1.0
	合金钢 (SCM440等)	HB280-350	ZP152	130 (80-180)	140	0.7	0.8	160	0.8	1.0	170	0.8	1.2	180	1.0	1.4	180	1.0	1.4	180	1.0	1.5	180	1.2	1.5	150	1.3	1.5	170	1.3	1.5
	合金工具钢 (SKD, SKT等)	≤HB350			180	0.5	0.6	210	0.6	0.8	230	0.6	1.0	230	0.8	1.2	240	0.8	1.2	240	0.8	1.3	240	1.0	1.3	250	1.1	1.3	300	1.1	1.3
					210	0.3	0.4	240	0.4	0.6	290	0.4	0.8	290	0.6	1.0	300	0.6	1.0	300	0.6	1.1	-	-	-	350	0.9	1.1	450	0.8	1.0
	预硬钢 (NAK80, PX-5等)	≤HRC35	ZP153	120 (80-160)	140	0.7	0.7	160	0.8	0.8	170	0.8	1.0	180	1.0	1.2	180	1.0	1.2	180	1.0	1.3	180	1.2	1.3	150	1.3	1.3	170	1.3	1.3
		HB280-350	ZP163	100 (70-130)	180	0.5	0.5	210	0.6	0.6	230	0.6	0.8	230	0.8	1.0	240	0.8	1.0	240	0.8	1.1	240	1.0	1.1	250	1.1	1.1	300	1.1	1.1
					210	0.3	0.3	240	0.4	0.4	290	0.4	0.6	290	0.6	0.8	300	0.6	0.8	300	0.6	0.9	-	-	-	350	0.9	0.9	450	0.8	0.8
M	不锈钢 (SUS304等)	≤HB270	ZP152	120 (80-160)	140	0.8	0.7	160	1.0	0.8	170	1.0	1.0	180	1.2	1.2	180	1.2	1.2	180	1.2	1.3	180	1.4	1.3	150	1.5	1.3	170	1.5	1.3
					180	0.6	0.5	210	0.8	0.6	230	0.8	0.8	230	1.0	1.0	240	1.0	1.0	240	1.0	1.1	240	1.2	1.1	250	1.3	1.1	300	1.3	1.1
					210	0.4	0.3	240	0.6	0.4	290	0.6	0.6	290	0.8	0.8	300	0.8	0.8	300	0.8	0.9	-	-	-	350	1.1	0.9	450	1.0	0.8
K	灰铸铁 (FC300等)	抗拉强度 ≤350MPa	ZK50	150 (100-200)	140	0.8	1.0	160	1.0	1.2	170	1.0	1.4	180	1.2	1.6	180	1.2	1.6	180	1.2	1.7	180	1.4	1.7	150	1.5	1.7	170	1.5	1.7
					180	0.6	0.8	210	0.8	1.0	230	0.8	1.2	230	1.0	1.4	240	1.0	1.4	240	1.0	1.5	240	1.2	1.5	250	1.3	1.5	300	1.3	1.5
					210	0.4	0.6	240	0.6	0.8	290	0.6	1.0	290	0.8	1.2	300	0.8	1.2	300	0.8	1.3	-	-	-	350	1.1	1.3	450	1.0	1.2
	球墨铸铁 (FCD700等)	抗拉强度 ≤800MPa	ZK501	120 (80-160)	140	0.7	0.8	160	0.8	1.0	170	0.8	1.2	180	1.0	1.4	180	1.0	1.4	180	1.0	1.5	180	1.2	1.5	150	1.3	1.5	170	1.3	1.5
					180	0.5	0.6	210	0.6	0.8	230	0.6	1.0	230	0.8	1.2	240	0.8	1.2	240	0.8	1.3	240	1.0	1.3	250	1.1	1.3	300	1.1	1.3
					210	0.3	0.4	240	0.4	0.6	290	0.4	0.8	290	0.6	1.0	300	0.6	1.0	300	0.6	1.1	-	-	-	350	0.9	1.1	450	0.8	1.0
H	高硬度钢	HRC43-55	ZP163	70 (50-90)	140	0.5	0.5	160	0.5	0.6	170	0.5	0.8	180	0.6	1.0	180	0.6	1.0	180	0.6	1.1	180	0.8	1.1	150	0.9	1.1	170	0.9	1.1
					180	0.4	0.3	210	0.4	0.4	230	0.4	0.6	230	0.5	0.8	240	0.5	0.8	240	0.5	0.9	240	0.6	0.9	250	0.7	0.9	300	0.7	0.9
					210	0.3	0.2	240	0.3	0.2	290	0.3	0.4	290	0.4	0.6	300	0.4	0.6	300	0.4	0.7	-	-	-	-	-	-	-	-	-



① 刀具悬伸量
② 主轴转速
n（min⁻¹）=（推荐切削速度x1000÷（刀具直径x3. 14）
③ 工作台进给速度
vf（mm/min）=nx每刃进给量 x 刃数
④ 径向切削深度（ae）：推荐是刀具直径的60%以上
⑤ 上表切削条件是使用BT50机床的标准，在使用BT40或HSK63的机床时，推荐使用刀具直径在Ø35以下，并且轴方向的切削深度和工作台进给量应有所下调。
⑥ 在进行带孔材料等断续切削部位多的加工时，请使用刀刃强化型刀片（ST断屑槽）ST断屑槽未设定的06/08/09号，在不考虑工件材质的情况下首选ZK96MO
⑦ 刀具悬伸量大的不稳定切削时，推荐使用标准刃数型刀体。
⑧ 需要降低切削动力或增大刀具悬伸量时，请使用重视切削锋利性的JM断屑槽刀片。
⑨ AJX在切削过程中产生大而重的切屑。为防止因切屑干扰产生的问题，请使用风冷去除切屑。

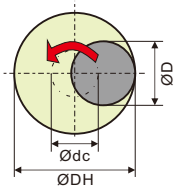
不同形态加工界限 Different forms of processing limit

斜面加工



- 斜面，螺旋加工时，应降低进给速度。（按小于算出进给速度的60%）。
- 钻孔加工时，轴方向的进给速度应小于0. 2mm/rev。
- 钻孔加工时，连续且长的切削屑可能飞散，要注意安全。

螺旋孔加工



- 刀具中心轨迹的设定方法

$$Ødc = ØDH - ØD$$

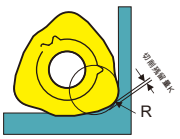
Ødc 刀具中心轨迹　ØDH 加工孔径　ØD 刀具切削刃直径

- 注意每转的切削深度不应超过最大切削深度a_p。
- 设定刀具公转方向，使切削呈顺铣形态。

刀具形式	刀片大小	刀具直径 D（mm）	平面加工直径（mm）	最大切削深度 ap（mm）	斜面加工 最大角度	斜面加工 达到深度Xmm所必要的移距L（mm） X=1	X=1.5	X=2	螺旋孔加工 最小孔 DHmin.（mm）	螺旋孔加工 最大孔 DHmax.（mm）	最大钻孔深度 A2（mm）
带柄型/可换式铣刀头型	06	16（2刃）	8	1. 0	3°	19. 1	-	-	23	29	0. 3
		17（2刃）	9	1. 0	2° 30'	22. 9	-	-	25	31	0. 3
		20（3刃）	12	1. 0	1° 30'	38. 2	-	-	31	37	0. 3
		22（3刃）	14	1. 0	1°	57. 3	-	-	35	41	0. 3
	08	20（2刃）	11	1. 5	3° 30'	16. 3	24. 5	-	27	36	0. 5
		22（2刃）	13	1. 5	3°	19. 1	28. 6	-	31	40	0. 5
		25（3刃）	16	1. 5	2°	28. 6	43. 0	-	37	46	0. 5
		28（3刃）	19	1. 5	1° 42'	33. 7	50. 5	-	43	52	0. 5
	09	25（2刃）	14	2. 0	4°	14. 3	21. 5	28. 6	33	46	1. 0
		28（2刃）	17	2. 0	3°	19. 1	28. 6	38. 1	39	52	1. 0
		30（3刃）	19	2. 0	2° 42'	21. 2	31. 8	42. 4	43	56	1. 0
		32（3刃）	21	2. 0	2° 30'	22. 9	34. 4	45. 8	47	60	1. 0
		35（3刃）	24	2. 0	2°	28. 6	43. 0	57. 3	53	66	1. 0
		40（4刃）	29	2. 0	1° 30'	38. 2	57. 3	76. 4	63	76	1. 0
	12	30（2刃）	18	2. 0	4° 30'	12. 7	19. 0	25. 4	39	56	1. 5
		32（2刃）	20	2. 0	4°	14. 3	21. 4	28. 6	41	60	1. 5
		35（2刃）	23	2. 0	3° 30'	16. 3	24. 5	32. 7	47	66	1. 5
		40（2刃）	28	2. 0	3°	19. 1	28. 6	38. 2	57	76	1. 5
		40（3刃）	28	2. 0	3°	19. 1	28. 6	38. 2	57	76	1. 5
	14	50（3刃）	38	2. 0	4° 12'	13. 6	20. 4	27. 2	72	96	2. 0
		63（4刃）	51	2. 0	2° 48'	20. 4	30. 7	40. 9	98	122	2. 0
无柄型	09	50	40	2. 0	1° 06'	52. 1	78. 1	104. 2	83	96	1. 0
	12	50	38	2. 0	2°	28. 6	43. 0	57. 3	77	96	1. 5
		63	51	2. 0	1° 30'	38. 2	57. 3	76. 4	103	122	1. 5
		80	68	2. 0	1° 06'	52. 1	78. 1	104. 2	137	156	1. 5
		100	88	2. 0	0° 48'	71. 6	107. 4	143. 2	177	196	1. 5
	14	63	51	2. 0	2° 48'	20. 4	30. 7	40. 9	98	122	2. 0
		80	68	2. 0	1° 48'	31. 8	47. 7	63. 6	132	156	2. 0
		100	88	2. 0	1° 12'	47. 7	71. 6	95. 5	172	196	2. 0
		125	113	2. 0	0° 48'	71. 6	107. 4	143. 2	222	246	2. 0
		160	148	2. 0	0° 30'	114. 6	17. 9	229. 2	292	316	2. 0

- 刀具转速（min^{-1}）=（1000x切削速度）÷（3. 14x刀具切削刃直径）
- 机床工作台进给量（mm/min）=每刃进给量x刀具刃数x刀具转速

加工程序上的注意事项

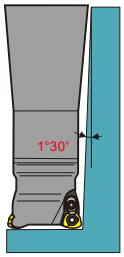


编程CAM程序时，请将AJX设为圆弧头铣刀。
此时的近似刀尖圆弧半径R值及切削残余量如下表所示。

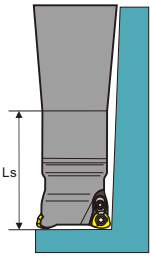
使用刀片	近似R（mm）	切削残余量K（mm）
JOM.06T215ZZSR-..	2.0	0.33
JOM.080320ZZSR-..	2.5	0.46
JOM.09T320ZDSR-..	3.0	0.47
JDM.120420ZDSR-..	3.0	0.63
JDM.140520ZDSR-..	3.0	0.64

注　在不同的加工条件下，切削残留量有可能会有所变化。

高级使用方法



AJX专用刀座由于采用锥型设计，在起模锥度1° 30'的壁面上时不会发生干涉，请放心使用。



加工深度在Ls以下时，也可以进行直角壁面的深挖加工。

SKS 新干线可换刀头 SKS Shinkansen Interchangeable Cutter Head

被加工材料	刀片材质	刀具直径（mm） 16/17 刃数2N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	20/21/22 刃数2N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	刃数3N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	25/26/28 刃数2N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)
碳素钢 (S50C,S55C) 硬度250HB以下	ZP151 ZP152 ZP153	70	0.4	3580	6400	70	0.6	2850	5700	70	0.5	2850	7700	90	0.7	2300	5500
		120	0.3	3180	5090	120	0.5	2600	5200	120	0.4	2600	7000	140	0.5	2300	5100
		160	0.2	2980	4760	190	0.3	2400	4800	190	0.3	2400	6500	210	0.3	1900	3800
预硬钢 (HPM7,PX5,ANK80,P20) 硬度30~43HRC	ZP152 ZP153 ZP163	70	0.4	3180	5720	70	0.5	2850	5700	70	0.5	2850	7700	90	0.7	2300	5500
		120	0.3	3180	5090	120	0.4	2600	5200	120	0.4	2600	7000	140	0.5	2300	5100
		160	0.2	2980	4760	190	0.3	2400	4800	190	0.3	2400	6500	210	0.3	1900	3800
模具钢 (SKD60,SKD11) 硬度255HB以下	ZP152 ZP153 ZP163	70	0.4	3180	5720	70	0.5	2850	5700	70	0.5	2850	7700	90	0.7	2300	5500
		120	0.3	3180	5090	120	0.4	2600	5200	120	0.4	2600	7000	140	0.5	2300	5100
		160	0.2	2980	4760	190	0.3	2400	4800	190	0.3	2400	6500	210	0.3	1900	3800
不锈钢 (SUS304) 硬度250HB以下	ZP152 ZP153 ZP163	70	0.3	3180	5720	70	0.5	2500	5000	70	0.5	2500	6800	90	0.7	2000	4400
		120	0.3	2980	4760	120	0.4	2400	4800	120	0.4	2400	6500	140	0.5	2000	4000
		160	0.2	2980	4760	190	0.3	2400	4800	190	0.3	2400	6500	210	0.3	1900	3800
淬火钢 (SKD61,DAC,DHA) 硬度40~50HRC	ZP153 ZP163	70	0.2	2380	2610	70	0.4	1300	1600	70	0.3	1300	2300	90	0.6	1100	1500
		120	0.2	2380	2380	120	0.3	1200	1400	120	0.3	1200	2000	140	0.4	1000	1400
		160	-	-	-	190	-	-	-	190	-	-	-	210	-	-	-
灰铸铁—球墨铸铁 (FC,FCD) 硬度300HB以下	ZK50 ZK501	70	0.5	6550	6550	70	0.6	2400	5800	70	0.6	2400	8000	90	1.0	1900	4500
		120	0.4	5960	5960	120	0.5	2400	5300	120	0.5	2400	7200	140	0.8	1900	4300
		160	0.3	5000	5000	190	0.4	2000	4800	190	0.4	2000	6000	210	0.5	1600	3800

ℓ端铣刨悬长，ap：切深，ae:切宽，n:主轴转速，Vf:主轴进给

■ MSH 型可换式刀头+超强硬杆标准切削条件

MSH type replaceable cutter head + super hard rod standard cutting conditions

被加工材料	刀片材质	刀具直径（mm） 25/26/28 刃数3N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	30 刃数2N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	刃数3N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	32/33/35 刃数2N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)
碳素钢 (S50C,S55C) 硬度250HB以下	ZP151 ZP152 ZP153	90	0.6	2300	6900	100	0.7	1900	4600	100	0.6	2000	6000	100	0.8	1800	4600
		140	0.5	2300	6900	150	0.5	1900	4300	150	0.5	1900	5700	150	0.6	1800	4300
		210	0.3	1900	5700	210	0.3	1600	3900	210	0.3	1600	4800	210	0.4	1500	3900
预硬钢 (HPM7,PX5,ANK80,P20) 硬度30~43HRC	ZP152 ZP153 ZP163	90	0.6	2300	6900	100	0.7	1900	4600	100	0.6	2000	6000	100	0.8	1800	4600
		140	0.5	2300	6900	150	0.5	1900	4300	150	0.5	1900	5700	150	0.6	1800	4300
		210	0.3	1900	5700	210	0.3	1600	3900	210	0.3	1600	4800	210	0.4	1500	3900
模具钢 (SKD60,SKD11) 硬度255HB以下	ZP152 ZP153 ZP163	90	0.6	2300	6900	100	0.7	1900	4600	100	0.6	2000	6000	100	0.8	1800	4600
		140	0.5	2300	6900	150	0.5	1900	4300	150	0.5	1900	5700	150	0.6	1800	4300
		210	0.3	1900	5700	210	0.3	1600	3900	210	0.3	1600	4800	210	0.4	1500	3900
不锈钢 (SUS304) 硬度250HB以下	ZP152 ZP153 ZP163	90	0.6	2000	6000	100	0.7	1700	3800	100	0.6	1800	5400	100	0.8	1600	3800
		140	0.5	2000	6000	150	0.5	1700	3500	150	0.5	1700	5100	150	0.6	1600	3500
		210	0.3	1900	5700	210	0.3	1600	3000	210	0.3	1600	4800	210	0.4	1500	3000
淬火钢 (SKD61, DAC, DHA) 硬度40~50HRC	ZP153 ZP163	90	0.5	1100	2000	100	0.6	850	1600	100	0.5	8520	1550	100	0.8	800	1600
		140	0.4	1000	1800	150	0.4	750	1400	150	0.4	750	1350	150	0.6	700	1400
		210	-	-	-	210	0.2	650	1200	210	0.2	650	1200	210	0.3	600	1200
灰铸铁—球墨铸铁 (FC,FCD) 硬度300HB以下	ZK50 ZK501	90	0.8	1900	6900	100	1.0	1600	4200	100	0.8	1600	5800	100	1.2	1500	4200
		140	0.6	1900	6300	150	0.8	1600	3900	150	0.6	1600	5300	150	1.0	1500	3900
		210	0.5	1600	5300	210	0.5	1350	3000	210	0.5	1350	4500	210	0.6	1250	3000

ℓ端铣刨悬长，ap：切深，ae:切宽，n:主轴转速，Vf:主轴进给

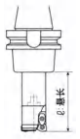
被加工材料	刀片材质	刀具直径（mm） 32 刃数4N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	32/33/35 刃数3N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	40 刃数5N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)
碳素钢 (S50C,S55C) 硬度250HB以下	ZP151 ZP152 ZP153	100	0.6	1900	7600	100	0.7	1800	6000	100	0.6	1500	7500
		150	0.5	1800	7200	150	0.5	1800	5400	150	0.5	1400	7000
		210	0.3	1500	6000	210	0.3	1500	4500	210	0.3	1200	6000
预硬钢 (HPM7,PX5,ANK80,P20) 硬度30~43HRC	ZP152 ZP153 ZP163	100	0.6	1900	7600	100	0.7	1800	6000	100	0.6	1500	7500
		150	0.5	1800	7200	150	0.5	1800	5400	150	0.5	1400	7000
		210	0.3	1500	6000	210	0.3	1500	4500	210	0.3	1200	6000
SKD60,SKD11) 255HB	ZP152 ZP153 ZP163	100	0.6	1900	7600	100	0.7	1800	6000	100	0.6	1500	7500
		150	0.5	1800	7200	150	0.5	1800	5400	150	0.5	1400	7000
		210	0.3	1500	6000	210	0.3	1500	4500	210	0.3	1200	6000
不锈钢 (SUS304) 硬度250HB以下	ZP152 ZP153 ZP163	100	0.6	1700	6800	100	0.7	1600	5200	100	0.6	1350	6800
		150	0.5	1600	6400	150	0.5	1600	4800	150	0.5	1300	6500
		210	0.3	1500	6000	210	0.3	1500	4500	210	0.3	1200	6000
淬火钢 (SKD61, DAC, DHA) 硬度40~50HRC	ZP153 ZP163	100	0.5	800	1900	100	0.6	800	2200	100	0.5	640	1900
		150	0.4	700	1700	150	0.4	700	1900	150	0.4	560	1700
		210	0.2	600	1500	210	0.2	600	1500	210	0.2	480	1450
灰铸铁—球墨铸铁 (FC,FCD) 硬度300HB以下	ZK50 ZK501	100	0.8	1500	7200	100	1.0	1500	5200	100	0.8	1200	7200
		150	0.6	1500	6600	150	0.8	1500	5000	150	0.6	1200	6600
		210	0.5	1250	5500	210	0.5	1250	4000	210	0.5	1000	5500

ℓ端铣刨悬长，ap：切深，ae:切宽，n:主轴转速，Vf:主轴进给

●使用注意事项

(1)表中数据请根据机床和工件的刚性情况进行适当调整（上述条件以BT50为基础）；
(2)万一发生振动，推荐降低切深或主轴转速，但请不要改变每刃的进给量；
(3)如果机械动力不足，首先推荐降低切深，然后再降低主轴转速以及进给；
(4)使用风冷以收走切屑，特别是立式加工深型腔时，请充分注意切屑的处理；
(5)淬火钢若硬度为50-55HRC，推荐将以上切深、主轴转速和进给速度降低30%。

(6)刀体悬长在250mm以上及带孔零件的强断续切削，推荐使用强化刃口10形刀片。



■ MSH 型刀片材质选择

被加工材料	碳素钢 (S50C,S55C) 硬度250HB以下		预硬钢 (HPM7, PX5, KPM30) 硬度30~36HRC		预硬钢 (NAK80, HPM1) 硬度30~43HRC		模具钢 (SKD61, SKD11) 硬度255HB以下		灰铸铁 (FC250, FC300) 硬度300HB以下			球墨铸铁 (FCD500, FCD700) 硬度300HB以下		不锈钢 (SUS304) 硬度250HB以下		淬火钢 (SKD61, DAC, DHA) 硬度40~60HRC	
型号 / 材质	JC5040	JC8050	JC730U	JC5118	JC8050	JC5118	JC8050	JC5040	JC8050	JC5118	JC8015	JC600	JC5118	JC8015	JC8050	JC5118	JC5118	JC8015
WOMW04T215ZER	◎	○		◎	●	◎	○	◎	○	◎	○		◎	○	●	○	◎	○
WOMT04T215ZER		☆	☆	☆	☆	☆	☆		☆	☆	☆	○	☆	☆	◎		X	X
WDM(H)W050316ZTR	◎	○		○		○	○	◎	○	●	○		●	○			●	○
WDMW050316ZER		●		◎		◎			●	◎			◎		●	○	◎	
WDMT050316ZER		☆	☆	☆	☆	☆			☆	☆	☆	○	☆	☆	◎		X	X
WDM(H)W06T320ZTR	◎	○		○	●	○	○	◎	○	●	○		●	○			●	○
WDMW06T320ZER		●		◎		◎			●	◎			◎		●	○	◎	
WDMT06T320ZER		☆	☆	☆	☆	☆			☆	☆	☆	○	☆	☆	◎		X	X
WDM(H)W080520ZTR	◎	○		○	●	○	○	◎	○	●	○		●	○			●	○
WDMW080520ZER		●		◎		◎			●	◎			◎		●	○	◎	
WDMT080520ZER		☆	☆	☆	☆	☆			☆	☆	☆	○	☆	☆	◎		X	X

WD(0)MW形/WDHW形：无断悄屑槽　WDMT形：有断屑槽　◎最适合 ○适合 ●不稳定切削 ☆轻负荷切削 X不推荐

■ SKS型标准切削条件 端铣型

SKS Type Standard Cutting Conditions End Milling Type

被加工材料	刀片材质	刀具直径（mm） 16/17 刃数2N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	20/21/22 刃数2N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	25/26/28 刃数2N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	30/32/33/35 刃数2N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)
碳素钢 (S50C,S55C) 硬度250HB以下	ZP151 ZP152 ZP153	30	0.6	3580	3580	70	0.7	2850	4600	70	0.7	2300	4600	70	0.8	1800	3600
		70	0.5	2980	2380	120	0.5	2400	3800	120	0.5	1900	3800	120	0.6	1000	3000
		100	0.4	2580	1550	190	0.3	1250	1500	220	0.3	1000	1600	220	0.4	500	2000
预硬钢 (HPM7,PX5,ANK80,P20) 硬度30~43HRC	ZP152 ZP153 ZP163	30	0.6	3580	3580	70	0.7	2850	4600	70	0.7	2300	4600	70	0.8	1800	3600
		70	0.5	2980	2380	120	0.5	2400	3800	120	0.5	1900	3800	120	0.6	1000	3000
		100	0.4	2580	1550	190	0.3	1250	1500	220	0.3	1000	1600	220	0.3	500	2000
模具钢 (SKD61, SKD11) 硬度255HB以下	ZP152 ZP153 ZP163	30	0.6	3580	3580	70	0.7	2850	4600	70	0.7	2300	4600	70	0.8	1800	3600
		70	0.5	2980	2380	120	0.5	2400	3800	120	0.5	1900	3800	120	0.6	1000	3000
		100	0.4	2580	1550	190	0.3	1250	1500	220	0.3	1000	1600	220	0.3	500	2000
不锈钢 (SUS304) 硬度250HB以下	ZP152 ZP153 ZP163	30	0.5	3580	2980	70	0.7	2400	3840	70	0.7	1900	3800	70	0.8	1500	3600
		70	0.3	2980	2380	120	0.5	2400	3800	120	0.5	1900	3800	120	0.6	1250	3000
		100	0.3	2580	1550	190	0.3	1250	1500	220	0.3	1000	1600	220	0.3	600	1800
淬火钢 (SKD61, DAC, DHA) 硬度40~50HRC	ZP153 ZP163	30	0.3	2380	2380	70	0.5	1100	1100	70	0.6	1000	1400	70	0.8	800	1300
		70	0.2	2380	1900	120	0.3	1100	1100	120	0.4	1000	1200	120	0.6	700	1100
		100	-	-	-	190	-	-	-	220	-	-	-	220	0.3	500	800
灰铸铁—球墨铸铁 (FC,FCD) 硬度300HB以下	ZK50 ZK501	30	0.7	3580	3580	70	0.8	1900	3000	70	1.0	1650	3300	70	1.2	1300	3900
		70	0.6	2980	2380	120	0.6	1750	2800	120	0.8	1400	2800	120	1.0	1100	3300
		100	0.5	2580	1550	190	0.4	1400	2200	220	0.5	1150	2300	220	0.6	900	2200

被加工材料	刀片材质	刀具直径（mm） 32/33 刃数3N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	40(柄32) 刃数3N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	40/44(柄42) 刃数3N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)	50 刃数3N ℓ(mm)	ap(mm)	n(min⁻¹)	Vf(mm/min)
碳素钢 (S50C,S55C) 硬度250HB以下	ZP151 ZP152 ZP153	70	0.7	1800	4300	70	0.8	1400	4300	70	1.0	1400	5100	70	1.0	1150	4100
		120	0.5	1500	3600	120	0.6	1000	3700	120	0.8	1200	4300	120	0.8	950	3400
		220	0.3	900	2160	220	0.4	800	2900	220	0.6	1200	4300	220	0.6	950	3400
预硬钢 (HPM7, PX5, ANK80, P20) 硬度30~43HRC	ZP152 ZP153 ZP163	70	0.7	1800	4300	70	0.8	1400	4300	70	1.0	1400	5100	70	1.0	1150	4100
		120	0.5	1500	3600	120	0.6	1000	3700	120	0.8	1200	4300	120	0.8	950	3400
		220	0.3	900	2160	220	0.4	800	2900	220	0.6	1200	4300	220	0.6	950	3400
模具钢 (SKD61, SKD11) 硬度255HB以下	ZP152 ZP153 ZP163	70	0.7	1800	4300	70	0.8	1400	4300	70	1.0	1400	5100	70	1.0	1150	4100
		120	0.5	1500	3600	120	0.6	1000	3700	120	0.8	1200	4300	120	0.8	950	3400
		220	0.3	900	2160	220	0.4	800	2900	220	0.6	1200	4300	220	0.6	950	3400
不锈钢 (SUS304) 硬度250HB以下	ZP152 ZP153 ZP163	70	0.7	1500	4000	70	0.8	1200	3600	70	1.0	1200	4300	70	1.0	1000	3600
		120	0.5	1250	3400	120	0.6	1000	3000	120	0.8	1200	3600	120	0.8	950	3400
		220	0.3	600	1800	220	0.4	800	2900	220	0.6	1000	3000	220	0.6	830	3000
淬火钢 (SKD61, DAC, DHA) 硬度40~50HRC	ZP153 ZP163	70	0.6	800	1680	70	0.8	640	1500	70	0.8	640	1900	70	0.8	500	1500
		120	0.4	700	1260	120	0.6	480	1100	120	0.6	480	1400	120	0.6	380	1100
		220	0.2	500	900	220	0.4	480	1100	220	0.5	480	1400	220	0.5	380	1100
灰铸铁—球墨铸铁 (FC,FCD) 硬度300HB以下	ZK50 ZK501	70	1.0	1300	4300	70	1.2	1000	4600	70	1.5	1000	5500	70	1.5	1300	4500
		120	0.8	1100	3600	120	1.0	720	3200	120	1.2	720	3900	120	1.2	570	3100
		220	0.5	900	2500	220	0.6	720	3200	220	0.8	720	4300	220	0.8	570	3400

:端铣刨悬长，ap：切深，ae:切宽，n:主轴转速，Vf:主轴进给

■ SKS型标准切削条件 端铣型

SKS Type Standard Cutting Conditions End Milling Type

被加工材料	刀片材质	ℓ(mm)	刀具直径（mm） 40 刃数3N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	50/52 刃数3N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	刃数4N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	刃数5N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	63 刃数3N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	63/66 刃数4N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	刃数5N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	80 刃数5N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	80 刃数6N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	100 刃数6N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	125 刃数6N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)	160 刃数7N ap(mm)	n(min⁻¹)	Vf(mm/min)	Pc(kw)
碳素钢 (S50C,S55C) 硬度250HB以下	ZP151 ZP152	150	0.8	1200	3600	4.0	1.2	830	3730	8.0	1.2	830	4970	10.7	1	950	6500	11.2	1.2	760	5400	14.6	1.0	830	7000	15.2	1.2	760	5400	18.5	1.0	720	6900	19.1	1.2	570	5130	22.0	1.5	460	4140	27.7	1.5	360	3780	32.4
		200	0.6	800	3000	2.5	1.0	700	3150	5.6	1.0	700	4200	7.5	0.8	950	6000	8.3	1.2	680	3060	9.0	1.2	680	4090	11.0	1.0	830	6200	13.5	1.2	600	4500	15.4	1.0	720	6400	17.7	1.2	480	4320	18.5	1.5	460	4140	27.7	1.5	360	3780	32.4
		250	0.4	600	2700	1.5	1.0	570	2570	4.6	1.0	570	3420	6.1	0.6	830	5240	5.4	1.0	600	2700	6.1	1.0	600	3600	8.1	0.8	830	6200	10.8	1.2	520	3900	13.4	0.8	720	6400	14.1	1.2	420	3730	16.0	1.5	400	3600	24.1	1.5	360	3780	32.4
		300	-	-	-	-	0.6	570	3420	3.7	0.6	570	3990	4.3	0.4	760	4800	3.3	1.0	460	2050	5.1	1.0	460	2730	6.8	0.6	610	4560	5.9	1.0	440	3300	9.4	0.6	480	4270	7.1	1.0	350	3150	11.3	1.5	380	3420	22.9	1.5	320	3360	28.8
		350	-	-	-	-	0.4	570	3420	2.5	0.4	570	3990	2.9	0.3	760	4800	2.5	0.8	460	2390	4.3	0.8	460	3190	5.7	0.5	610	4560	5.0	1.0	360	2700	7.7	0.5	480	4270	5.9	1.0	290	2610	9.3	1.2	380	3420	18.3	1.5	300	3150	27.0
		400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	460	2730	2.5	0.4	460	3640	3.3	0.3	610	4560	3.0	0.6	360	2700	4.6	0.3	480	4270	3.5	0.6	290	2610	5.6	1.0	380	3420	15.3	1.2	300	3150	21.6
预硬钢 (HPM7,PX5,ANK80,P20) 硬度30~43HRC	ZP152 ZP153 ZP163	150	0.8	1200	3600	4.4	1.2	830	3730	8.6	1.2	830	4980	11.5	1	950	6500	12.5	1.2	760	5420	9.9	1.2	760	4560	13.3	1.0	830	6200	15.0	1.2	600	4500	16.6	1.0	720	6400	19.7	1.2	480	4320	19.9	1.5	400	3000	21.6	1.5	320	2800	25.8
		200	0.6	800	3000	2.8	1.0	700	3150	6.1	1.0	700	4200	8.1	0.8	950	6000	9.2	1.2	680	3060	8.9	1.2	680	4080	11.9	1.0	830	6200	15.0	1.2	520	3900	14.4	1.0	720	6400	19.7	1.2	420	3780	17.4	1.5	400	3000	21.6	1.5	320	2800	25.8
		250	0.3	600	2700	1.2	0.8	570	2570	4.0	0.8	570	3420	5.3	0.6	830	5240	6.0	1.0	600	2700	6.5	1.0	600	3600	8.7	0.8	830	6200	12.0	1.2	440	3300	12.2	0.8	720	6400	15.8	1.2	350	3150	14.5	1.5	380	2850	20.5	1.5	320	2800	25.8
		300	-	-	-	-	0.5	570	2900	2.8	0.5	570	3420	3.3	0.4	760	4800	3.7	0.8	460	2050	4.0	0.8	460	2730	5.3	0.6	610	4560	6.6	1.0	360	2700	8.3	0.6	480	4270	7.9	1.0	290	2610	10.0	1.2	350	2850	15.2	1.5	280	2450	22.6
		350	-	-	-	-	0.3	570	2900	1.7	0.3	570	3420	2.0	0.3	760	4800	2.8	0.6	460	2390	3.5	0.6	460	3090	4.5	0.5	610	4560	5.5	0.8	360	2700	6.6	0.5	480	4270	6.6	0.8	290	2610	8.0	1.0	350	2850	12.6	1.5	280	2450	18.1
		400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	460	2390	2.3	0.4	460	3090	3.0	0.3	610	4560	3.3	0.6	360	2700	5.0	0.3	480	4270	3.9	0.6	290	2610	6.0	0.8	350	2850	10.1	1.2	280	2450	15.1
模具钢 (SKD61,SKD11) 硬度255HB以下	ZP152 ZP153 ZP163	150	0.8	1200	3600	4.1	1.2	830	3730	8.0	1.2	830	4980	10.7	1.0	950	6500	11.6	1.2	760	3420	9.2	1.2	760	4560	12.3	1.0	830	6200	14.0	1.2	600	4500	15.4	1.0	720	6900	19.7	1.2	480	4320	18.5	1.5	400	3000	20.1	1.0	320	2800	24.0
		200	0.6	800	3000	2.6	1.0	700	3150	5.6	1.0	700	4200	7.5	0.8	950	6000	8.6	1.2	680	3060	8.3	1.2	680	4080	11.0	1.0	830	6200	14.0	1.2	520	3900	13.4	1.0	720	6400	18.3	1.2	420	3780	16.2	1.5	400	3000	20.1	1.5	320	2800	24.0
		250	0.3	600	2700	1.2	0.8	570	2570	3.7	0.8	570	3420	4.9	0.6	830	5240	5.6	1.0	600	2700	6.1	1.0	600	3600	8.1	0.8	830	6200	11.2	1.2	440	3300	11.3	0.8	720	6400	14.6	1.2	350	3150	13.5	1.5	380	2850	19.1

高进给圆弧铣到ASR多刃型

High feed arc milling to ASR multi-blade

标准切削条件①直柄型

Standard cutting condition 1 straight shank type

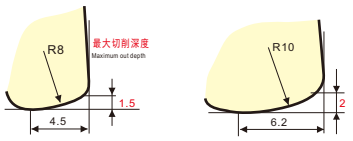
工件材料 Work	红字为第一推荐材料 Red indicates primary recommended material types.	刀径Dc Cutter diameter	φ16（2刃）2Flutes		φ20（3刃）2Flutes		φ25（3刃）2Flutes		φ32（3刃）2Flutes		φ40（3刃）2Flutes	
		突出比例 Overhang ratio	<3Dc		<3Dc		<3Dc		<3Dc		<3Dc	
			通用 General Purpose	高速加工 High-speed Processing	通用 General Purpose	高速加工 High-speed Processing	通用 General Purpose	高速加工 High-speed Processing	通用 General Purpose	高速加工 High-speed Processing	通用 General Purpose	高速加工 High-speed Processing
碳素钢 Carbon Steels 合金钢 Alloy Steels <30HRC	ZP152 ZP153	n(min)	1800	3590	1440	2870	110	2300	900	1800	720	1440
		Vc(m/min)	90	180	90	180	80	180	90	180	90	180
		Vf(mm/min)	2880	10060	3460	12060	4600	14720	4500	14400	4320	13830
		fz(mm/t)	0.8	1.4	0.8	1.4	1.0	1.6	1.0	1.6	1.0	1.6
		ap(mm)	0.8	0.6	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5
		ae(mm)	13	13	16	16	20	20	25	25	32	32
		Q(c m3/min	30	78	55	96	82	147	113	180	138	221
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 30~40HRC	ZP152 ZP153	n(min)	1800	3590	1440	2870	1150	2300	900	1800	720	1440
		Vc(m/min)	90	180	90	180	90	180	90	180	90	180
		Vf(mm/min)	2880	10060	3460	12060	4600	14720	4500	14400	4320	13830
		fz(mm/t)	0.8	1.4	0.8	1.4	1.0	1.6	1.0	1.6	1.0	1.6
		ap(mm)	0.8	0.6	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5
		ae(mm)	13	13	16	16	20	20	25	25	32	32
		Q(c m3/min)	30	78	55	96	92	147	113	180	138	221
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 40~50HRC	ZP153 ZP152	n(min)	1800	2590	1440	2080	1150	1660	900	1300	720	1040
		Vc(m/min)	90	130	90	130	90	130	90	130	90	130
		Vf(mm/min)	2160	6220	2600	7490	2760	7970	2700	7800	2600	7490
		fz(mm/t)	0.6	1.2	0.6	1.2	0.6	1.2	0.5	1.2	0.6	1.2
		ap(mm)	0.5	0.35	0.6	0.35	0.6	0.35	0.	0.35	0.6	0.35
		ae(mm)	13	13	16	16	20	20	25	25	32	32
		Q(c m3/min)	14	28	25	42	33	56	41	68	50	84
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 50~55HRC	ZP153 ZP163 ZP152	n(min)	1600	2390	1280	1920	1020	1530	800	1200	640	960
		Vc(m/min)	80	120	80	120	80	120	80	120	80	120
		Vf(mm/min)	640	960	770	1160	820	1230	800	1200	770	1160
		fz(mm/t)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		ap(mm)	0.4	0.25	0.4	0.25	0.4	0.25	0.4	0.25	0.4	0.25
		ae(mm)	13	13	16	16	20	20	25	25	32	32
		Q(c m3/min	3	3	5	5	7	6	8	8	10	9
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 58~62HRC	ZP163	n(min)	1200	2000	960	1600	770	1280	600	1000	480	800
		Vc(m/min)	60	100	60	100	60	100	60	100	60	100
		Vf(mm/min)	120	200	150	240	160	260	150	250	150	240
		fz(mm/t)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		ap(mm)	0.5	0.3	0.5	0.3	0.5	0.3	0.5	0.3	0.5	0.3
		ae(mm)	13	13	16	16	20	20	25	25	32	32
		Q(c m3/min	0.8	0.8	1.2	1.2	1.6	1.6	1.9	1.9	2.4	2.3
不锈钢 Stainless Steels SUS	ZP153 (ZP152)	n(min)	1800	3590	1440	2870	1150	2300	900	1800	720	1440
		Vc(m/min)	90	180	90	180	90	180	90	180	90	180
		Vf(mm/min)	1800	7180	2160	8610	2300	9200	2250	9000	2160	8640
		fz(mm/t)	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0
		ap(mm)	0.8	0.6	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5
		ae(mm)	13	13	16	16	20	20	25	25	32	32
		Q(c m3/min	19	56	35	69	46	92	56	113	69	138
铸铁 Cast Iron FC FCD	ZK50	n(min)	1800	3590	1440	2870	1150	2300	900	1800	720	1440
		Vc(m/min)	90	180	90	180	90	180	90	180	90	180
		Vf(mm/min)	4320	11490	6050	15500	6440	16560	6300	16200	6050	15560
		fz(mm/t)	1.2	1.6	1.4	1.8	1.4	1.8	1.4	1.8	1.4	1.8
		ap(mm)	1.0	0.8	1.25	1.0	1.25	1.0	1.25	1.0	1.25	1.0
		ae(mm)	13	13	16	16	20	20	25	25	32	32
		Q(c m3/min	56	119	121	248	161	331	197	405	242	498
最大 Maximum fz(mm/t)			<1.8（通用fz<1.0） General Purpose		<1.8（通用fz<1.0） General Purpose		<1.8（通用fz<1.0） General Purpose		<1.8（通用fz<1.0） General Purpose		<1.8（通用fz<1.0） General Purpose	
最大 Maximum ap(mm)			<1.25（通用ap<1.0） General Purpose		<1.25（通用ap<1.0） General Purpose		<1.5（通用ap<1.0） General Purpose		<1.5（通用ap<1.0） General Purpose		<1.5（通用ap<1.0） General Purpose	

标准切削条件②硬质合金刀柄型

工件材料 Work	红字为第一推荐材料 Red indicates primary recommended material types.	刀径Dc Cutter diameter	φ16（2刃）2Flutes			φ20（3刃）2Flutes			φ25（3刃）4Flutes			φ32（5刃）5Flutes			φ32（6刃）6Flutes		
		突出比例 Overhang ratio	硬质合金刀柄 Modular Carbide Shank			硬质合金刀柄 Modular Carbide Shank			硬质合金刀柄 Modular Carbide Shank			硬质合金刀柄 Modular Carbide Shank			硬质合金刀柄 Modular Carbide Shank		
			3Dc-5Dc	5Dc-7Dc	>7Dc	3Dc-5Dc	5Dc-7Dc	>7Dc	3Dc-5Dc	5Dc-7Dc	>7Dc	3Dc-5Dc	5Dc-7Dc	>7Dc	3Dc-5Dc	5Dc-7Dc	>7Dc
碳素钢 Carbon Steels 合金钢 Alloy Steels <30HRC	ZP152 ZP153	n(min)	2590	2590	1800	2080	2080	1440	1660	1660	1150	1300	1300	900	1040	1040	720
		Vc(m/min)	130	130	90	130	130	90	130	130	90	130	130	90	130	130	90
		Vf(mm/min)	4150	4150	2880	5000	5000	3460	6640	6640	4600	6500	6500	4500	6240	6240	4320
		fz(mm/t)	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		ap(mm)	0.6	0.5	0.4	0.8	0.5	0.4	0.8	0.5	0.4	0.8	0.5	0.4	0.8	0.5	0.4
		ae(mm)	13	13	13	16	16	16	20	20	20	25	25	25	32	32	32
		Q(c m3/min)	32	27	15	64	40	22	106	66	37	130	81	45	160	100	55
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 30~40HRC	ZP152 ZP153	n(min)	2590	2590	1800	2080	2080	1440	1660	1660	1150	1300	1300	900	1040	1040	720
		Vc(m/min)	130	130	90	130	130	90	130	130	90	130	130	90	130	130	90
		Vf(mm/min)	4150	4150	2880	5000	5000	3460	6640	6640	4600	6500	6500	4500	6240	6240	4320
		fz(mm/t)	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		ap(mm)	0.6	0.5	0.4	0.8	0.5	0.4	0.8	0.2	0.4	0.8	0.5	0.4	0.8	0.5	0.4
		ae(mm)	13	13	13	16	16	16	20	20	20	25	25	25	32	32	32
		Q(c m3/min)	32	27	15	64	40	22	106	66	37	130	81	45	160	100	55
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 40~50HRC	ZP153 ZP152	n(min)	1800	1800	1800	1440	1440	1440	1150	1150	1150	900	900	900	720	720	750
		Vc(m/min)	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
		Vf(mm/min)	2160	2160	2160	2600	2600	2600	2760	2760	2760	2700	2700	2700	2600	2600	2600
		fz(mm/t)	0.6	0.6	0.6	0.6	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6
		ap(mm)	0.5	0.4	0.3	0.5	0.4	0.3	0.5	0.4	0.3	0.5	0.4	0.3	0.5	0.4	0.3
		ae(mm)	13	13	13	16	16	16	20	20	20	25	25	25	32	32	32
		Q(c m3/min	14	11	8	21	17	12	28	22	17	34	27	20	42	33	25
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 50~55HRC	ZP153 ZP163 ZP152	n(min)	1600	1600	1600	1280	1280	1280	1020	1020	1020	800	800	800	640	640	640
		Vc(m/min)	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		Vf(mm/min)	640	640	640	770	770	770	820	820	820	800	800	800	770	770	770
		fz(mm/t)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		ap(mm)	0.35	0.25	0.15	0.35	0.25	0.15	0.35	0.25	0.15	0.35	0.25	0.15	0.25	0.25	0.15
		ae(mm)	13	13	13	16	16	16	20	20	20	25	25	25	32	32	32
		Q(c m3/min	3	2	1	4	3	2	6	4	2	7	5	3	6	6	4
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 58~62HRC	ZP163	n(min)	1200	1200	1200	960	960	960	770	770	770	600	600	600	480	480	480
		Vc(m/min)	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
		Vf(mm/min)	120	120	120	150	150	150	160	160	160	150	150	150	150	150	150
		fz(mm/t)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		ap(mm)	0.5	0.3	0.2	0.5	0.3	0.2	0.5	0.3	0.2	0.5	0.3	0.2	0.3	0.3	0.2
		ae(mm)	13	13	13	16	16	16	20	20	20	25	25	25	32	32	32
		Q(c m3/min	0.8	0.5	0.3	1.2	0.7	0.5	1.6	1.0	0.6	1.9	1.1	0.8	2.4	1.4	1.0
不锈钢 Stainless Steels SUS	ZP153 (ZP152)	n(min)	2990	1800	1800	2390	1440	1440	1920	1150	1150	1500	900	900	1200	720	720
		Vc(m/min)	150	90	90	150	90	90	150	90	90	150	90	90	150	90	90
		Vf(mm/min)	2990	1800	1800	3590	2160	2160	3840	2300	2300	3750	2250	2250	3600	2160	2160
		fz(mm/t)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
		ap(mm)	0.6	0.5	0.4	0.8	0.5	0.4	0.8	0.5	0.4	0.8	0.5	0.4	0.8	0.5	0.4
		ae(mm)	13	13	13	16	16	16	20	20	20	25	25	25	32	32	32
		Q(c m3/min	23	12	9	46	17	14	61	23	18	75	28	23	92	35	28
铸铁 Cast Iron FC FCD	ZK50	n(min)	2590	2590	1800	2080	2080	1440	1660	1660	1150	1300	1300	900	1040	1040	720
		Vc(m/min)	130	130	90	130	130	90	130	130	90	130	130	90	130	130	90
		Vf(mm/min)	6220	6220	4320	8740	8740	6050	9300	9300	6440	9100	9100	6300	8740	8740	6050
		fz(mm/t)	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
		ap(mm)	0.8	0.6	0.5	0.8	0.6	0.4	0.8	0.6	0.4	0.8	0.6	0.4	0.8	0.6	0.4
		ae(mm)	13	13	13	16	16	16	20	20	20	25	25	25	32	32	32
		Q(c m3/min	65	49	28	112	84	39	149	112	52	182	137	63	224	168	77
最大 Maximum fz(mm/t)			<1.8（通用fz<1.0） General Purpose			<1.8（通用fz<1.0） General Purpose			<1.8（通用fz<1.0） General Purpose			<1.8（通用fz<1.0） General Purpose			<1.8（通用fz<1.0） General Purpose		
最大 Maximum ap(mm)			<1.25（通用ap<1.0） General Purpose			<1.25（通用ap<1.0） General Purpose			<1.5（通用ap<1.0） General Purpose			<1.5（通用ap<1.0） General Purpose			<1.5（通用ap<1.0） General Purpose		

标准切削条件③刀盘型 Recommended Cutting Conditions for Bore Type

工件材料 Work	红字为第一推荐材料 Red indicates primary recommended material types.	刀径Dc Cutter diameter	φ50（5刃）5Flutes ASR3050R(M)-5					φ52（7刃）7Flutes ASR2052R(M)-7					φ63（6刃）6Flutes ASR3063R(M)-6					φ66（8刃）8Flutes ASR2066R(M)-8				
		突出比例 Overhang ratio	>3Dc		3Dc-5Dc	5Dc-7Dc	>7Dc	>3Dc		3Dc-5Dc	5Dc-7Dc	>7Dc	>3Dc		3Dc-5Dc	5Dc-7Dc	>7Dc	>3Dc		3Dc-5Dc	5Dc-7Dc	>7Dc
			通用 General Purpose	高速加工 High-speed Processing				通用 General Purpose	高速加工 High-speed Processing				通用 General Purpose	高速加工 High-speed Processing				通用 General Purpose	高速加工 High-speed Processing			
碳素钢 Carbon Steels 合金钢 Alloy Steels <30HRC	ZP152 ZP153	n(min)	580	1150	830	830	580	560	1110	800	800	560	460	910	660	660	460	440	870	630	630	440
		Vc(m/min)	90	180	130	130	90	90	180	130	130	90	90	180	130	130	90	90	180	130	130	90
		Vf(mm/min)	3770	9200	4150	4150	2900	3920	12440	5600	5600	3920	3590	8740	3960	3960	2760	3520	11140	5040	5040	3520
		fz(mm/t)	1.3	1.6	1.0	1.0	1.0	1.0	1.6	1.0	1.0	1.0	1.3	1.6	1.0	1.0	1.0	1.0	1.6	1.0	1.0	1.0
		ap(mm)	1.0	0.8	1.0	0.7	0.5	1.0	0.5	0.8	0.5	0.4	1.0	0.8	1.0	0.7	0.5	1.0	0.5	0.8	0.5	0.4
		ae(mm)	40	40	40	40	40	40	40	40	40	40	50	50	50	50	50	50	50	50	50	50
		Q(c m3/min	151	294	166	116	58	157	249	179	112	63	180	350	198	139	69	176	279	202	126	70
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 30~40HRC	ZP152 ZP153	n(min)	580	1150	830	830	580	560	1110	800	800	560	460	910	660	660	460	440	870	630	630	440
		Vc(m/min)	90	180	130	130	90	90	180	130	130	90	90	180	130	130	90	90	180	130	130	90
		Vf(mm/min)	3770	9200	4150	4150	2900	3920	12440	5600	5600	3920	3590	8740	3960	3960	2760	3520	11140	5040	5040	3520
		fz(mm/t)	1.3	1.6	1.0	1.0	1.0	1.0	1.6	1.0	1.0	1.0	1.3	1.6	1.0	1.0	1.0	1.0	1.6	1.0	1.0	1.0
		ap(mm)	1.0	0.8	1.0	0.7	0.5	1.0	0.5	0.8	0.5	0.4	1.0	0.8	1.0	0.7	0.5	1.0	0.5	0.8	0.5	0.4
		ae(mm)	40	40	40	40	40	40	40	40	40	40	50	50	50	50	50	50	50	50	50	50
		Q(c m3/min	151	294	166	116	58	157	249	179	112	63	180	350	198	139460	69	176	279	202	126	70
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 40~50HRC	ZP153 ZP152	n(min)	580	830	580	580	580	560	800	560	560	560	460	660	460	460	460	440	630	440	440	440
		Vc(m/min)	90	130	90	90	90	90	130	90	90	90	90	130	90	2210	90	90	130	90	90	90
		Vf(mm/min)	2320	3320	2320	2320	2320	2360	6720	2360	2360	2360	2210	3170	2210	0	2210	2120	6050	2120	2120	2120
		fz(mm/t)	0.8	0.8	0.8	0.8	0.8	0.6	1.2	0.6	0.5	0.6	0.8	0.8	0.8	0.7	0.8	0.6	1.2	0.6	0.6	0.6
		ap(mm)	1.0	1.0	1.0	0.7	0.5	0.6	0.35	0.5	0.4	0.3	1.0	1.0	1.0	50	0.5	0.6	0.35	0.5	0.4	0.3
		ae(mm)	40	40	40	40	40	40	40	40	40	40	50	50	50	77	50	50	50	50	50	50
		Q(c m3/min	93	133	93	65	46	57	94	47	38	28	111	159	111	410	55	64	106	53	42	32
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 50~55HRC	ZP153 ZP163 ZP152	n(min)	570	770	510	510	510	490	740	490	490	490	410	610	410	80	410	390	580	390	390	390
		Vc(m/min)	80	120	80	80	80	80	120	80	80	80	80	120	80	500	80	80	120	80	80	80
		Vf(mm/min)	510	770	540	510	510	690	1040	690	690	690	500	740	500	0.2	500	630	930	630	630	630
		fz(mm/t)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.2	0.2	0.2	0.2	0.2	0.2
		ap(mm)	1.0	1.0	1.0	0.7	0.5	0.4	0.25	0.35	0.25	0.15	1.0	1.0	1.0	50	0.5	0.4	0.25	0.35	0.25	0.15
		ae(mm)	40	40	40	40	40	40	40	40	40	40	50	50	18	50	50	50	50	50	50	50
		Q(c m3/min	20	31	20	14	10	11	10	10	7	4	25	37	25	310	13	13	12	11	8	5
预硬化钢 Pre-Harden Steels 合金钢 Alloy Steels 58~62HRC	ZP163	n(min)	390	640	390	390	390	370	620	370	370	370	310	510	310	60	310	290	490	290	290	290
		Vc(m/min)	60	100	60	60	60	60	100	60	60	60	60	100	60	100	60	60	100	60	60	60
		Vf(mm/min)	100	160	100	100	100	130	220	130	130	130	100	160	100	0.05	100	120	200	120	120	120
		fz(mm/t)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		ap(mm)	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.3	0.2	0.5	0.5	0.5	50	0.5	0.5	0.3	0.5	0.3	0.2
		ae(mm)	40	40	40	40	40	40	40	40	40	40	50	50	2.5	50	50	50	50	50	50	50
		Q(c m3/min	2.0	3.2	2.0	2.0	2.0	2.6	2.6	2.6	1.6	1.0	2.5	4.0	2.5	460	2.5	3.0	3.0	3.0	1.8	1.2
不锈钢 Stainless Steels SUS	ZP153 ZP152	n(min)	580	1150	960	580	580	560	1110	920	560	560	460	910	760	90	460	440	870	730	440	440
		Vc(m/min)	90	180	150	90	90	90	180	150	90	90	90	180	150	1380	90	90	180	150	90	90
		Vf(mm/min)	1450	5750	2400	1450	1450	1960	7770	3220	1960	1960	1380	5460	2280	0.5	1380	1760	6960	2920	1760	1760
		fz(mm/t)	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0.7	0.5	0.5	1.0	0.5	0.5	0.5
		ap(mm)	1.0	0.8	1.0	0.7	0.5	1.0	0.5	0.8	0.5	0.4	1.0	0.8	1.0	50	0.5	0.5	1.0	0.5	0.8	50
		ae(mm)	40	40	40	40	40	40	40	40	40	40	50	50	50	48.3	50	50	50	50	44.0	50
		Q(c m3/min	58.0	1840	96.0	40.6	29.0	78.4	155.4	103.0	39.2	31.4	69.0	2184	1140	660	34.5	88.0	1740	1168	630	35.0
铸铁 Cast Iron FC FCD	ZK50	n(min)	580	1150	830	830	580	560	1110	800	800	560	460	910	660	130	460	440	870	630	130	440
		Vc(m/min)	90	180	130	130	90	90	180	130	130	90	90	180	130	5940	90	90	180	130	7060	90
		Vf(mm/min)	4350	10350	6230	6230	4350	5490	13990	7840	7840	5490	4140	9830	5940	1.5	4140	4930	12530	7060	1.4	4930
		fz(mm/t)	1.5	1.8	1.5	1.5	1.5	1.4	1.8	1.4	1.4	1.4	1.5	1.8	1.5	1.0	1.5	1.4	1.8	1.4	0.5	1.4
		ap(mm)	1.5	1.5	1.5	1.0	0.7	1.25	1.0	0.8	0.6	0.4	1.5	1.5	1.5	50	0.7	1.25	1.0	0.8	50	0.4
		ae(mm)	40	40	40	40	40	40	40	40	40	40	50	50	50	297	50	50	50	50	212	50
		Q(c m3/min	261	621	374	249	122	275	560	251	188	88	311	737	446		145	308	627	282		99
最大 Maximum fz(mm/t)			<2.0（通用fz<1.0） General Purpose					<1.8（通用fz<1.0） General Purpose					<2.0（通用fz<1.0） General Purpose					<1.8（通用fz<1.0） General Purpose				
最大 Maximum ap(mm)			<2.0（通用ap<1.5） General Purpose					<1.5（通用ap<1.0） General Purpose					<2.0（通用ap<1.5） General Purpose					<1.5（通用ap<1.0） General Purpose				



EPNW(MT)0603TN-8(近似R:R2.0)
EPMT0603EN-8LF Approximate R:R2.0
适用刀具ASR S/L/M20∴(S∴)R-∴
Applicable cutter

EPNW(MT)12T3TN-10
(近似R3.0) Approximate R:R3.0
适用刀具ASR30∴(R(M)-∴

程序中的刀刃形状定义方法请参考下图作为近似的圆角R

When setting the definition of blade tip shape for programming, please refer to the approximate R in the diagram below.

(mm)

产品型号 Item Code	近似R Approximate Liquid Corner R	过切量 Over Cut	残余量 Remains
刀片 Insert EPNW(MT)0603TN-8 EPMT0603EN-BLF 刀体 Body: ASRS/L∴(S∴)R-∴ ASR20∴R(M)-∴	**R2.0**	**0**	**0.497**
	R2.5	0.075	0.349
	R3.0	0.216	0.236
	R3.5	0.419	0.108
	R4.0	0.612	0.03
刀片 Insert: EPNW

超级迷你小径铣刀ASM型 Super Mini Path Milling ASM

EDMT型刀片肩削标准切削条件：高进给低切削

Side Milling standard cutting conditions for EDMT-type inserts:Low cutting depth, high feed rate

工件材料 Work material	红字为第一推荐材料 Red indicates primary recommended material types.	外径Dc Tool diameter	φ8（1刃）1Flutes	φ10（2刃）2Flutes	φ12（3刃）3Flutes	φ14（3刃）3Flutes	φ16（4刃）4Flutes	φ20（5刃）5Flutes	φ25（6刃）6Flutes	φ32（8刃）8Flutes
碳素钢 合金钢 模具钢 S-C SCM SKD SKT <30HRC Carbon Steels Alloy Steels Die Tool Steels	ZP152 (Vc=100~180)	n(min)	4780	3820	3180	2730	2390	1910	1530	1190
		Vc(m/min)	120	120	120	120	120	120	120	120
		Vf(mm/min)	~2870	~4590	~5730	~6550	~7640	~7640	~7340	~7640
		fz(mm/t)	~0.6	~0.6	~0.6	~0.8	~0.8	~0.8	~0.8	~0.8
		ap(mm)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		ae(mm)	~3	~5	~7	~8	~10	~11	~17	~2
		Q(c m3)/min	3	7	12	16	23	25	37	50
预硬化钢 合金钢 模具钢 SCM SKD SKT 30~40HRC Pre-Harden Steels Alloy Steels Die Tool Steels	ZP152 (Vc=100~160)	n(min)	4380	3500	2920	2500	2190	1750	1400	1090
		Vc(m/min)	110	110	110	110	110	110	110	110
		Vf(mm/min)	~2630	~4200	~5260	~6010	~7010	~7010	~6730	~7010
		fz(mm/t)	~0.6	~0.6	~0.6	~0.8	~0.8	~0.8	~0.8	~0.8
		ap(mm)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		ae(mm)	~3	~5	~7	~8	~10	~11	~17	~22
		Q(c m3)/min	2	6	11	14	21	23	34	46
预硬化钢 合金钢 模具钢 SCM SKD SKT 40~50HRC Pre-Harden Steels Alloy Steels Die Tool Steels	ZP152 (Vc=60~120)	n(min)	3580	2870	2390	2050	1790	1430	1150	900
		Vc(m/min)	90	90	90	90	90	90	90	90
		Vf(mm/min)	~1430	~2290	~2870	~3690	~4300	~4300	~4130	~4300
		fz(mm/t)	~0.4	~0.4	~0.4	~0.6	~0.6	~0.6	~0.6	~0.6
		ap(mm)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		ae(mm)	~3	~5	~7	~8	~10	~11	~17	~22
		Q(c m3)/min	1	3	6	9	13	14	21	28
不锈钢 Stainless Steels SUS	ZP152 ZP153 (Vc=80~120)	n(min)	3580	2870	2390	2050	1790	1430	1150	900
		Vc(m/min)	90	90	90	90	90	90	90	90
		Vf(mm/min)	~1430	~2290	~2870	~3690	~4300	~4300	~4130	~4300
		fz(mm/t)	~0.4	~0.4	~0.4	~0.6	~0.6	~0.6	~0.6	~0.6
		ap(mm)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		ae(mm)	~3	~5	~7	~8	~10	~11	~17	~22
		Q(c m3)/min	1	3	6	9	13	14	21	28
铸铁 Cast Iron FC.FCD	ZK50 (Vc=120~220)	n(min)	5970	4780	3980	3410	2990	2390	1910	1490
		Vc(m/min)	150	150	150	150	150	150	150	150
		Vf(mm/min)	3580	~5730	~7170	~8190	~9550	~9550	~9170	~9550
		fz(mm/t)	~0.6	~0.6	~0.6	0.8	~0.8	~0.8	~0.8	~0.8
		ap(mm)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		ae(mm)	~3	~5	~7	~8	~10	~11	~17	~22
		Q(c m3)/min	3	9	15	20	29	32	47	63
淬火钢 (50~60HRC) Hardened Steels	ZP163 (Vc=60~100)	n(min)	2390	1910	1590	1360	1190	950	760	600
		Vc(m/min)	60	60	60	60	60	60	60	60
		Vf(mm/min)	~720	~1150	~1430	~1630	~1900	~1900	~1820	~1900
		fz(mm/t)	~0.3	~0.3	~0.3	~0.4	~0.4	~0.4	~0.4	~0.4
		ap(mm)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		ae(mm)	~3	~5	~7	~8	~10	~11	~17	~22
		Q(c m3)/min	0.4	1	2	2	3	3	6	8

JDMT型刀片的肩削标准切削条件

Side Milling standard cutting conditions for JDMT-type inserts

推荐使用下一页【刀具突出量（OH）和切削割区】的切削长度ae及切削宽度ae

It is make standard that the depth cut ae and the cutting width ae be as shown in Tool Overhang (OH) and Cutting Region on the facing page(A257)

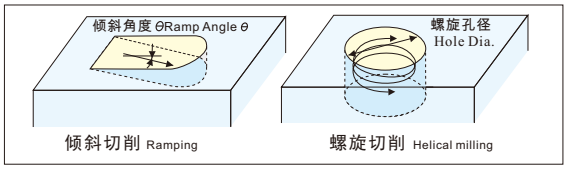
工件材料 Work material	红字为第一推荐材料 Red indicates primary recommended material types.	切削速度Vc Cutting speed Vc (m/min) 每刃进给量fz Feed rate per flute fz (mm/t)	外径Dc Tool diameter	φ8（1刃）1Flutes	φ10（2刃）2Flutes	φ12（3刃）3Flutes	φ14（3刃）3Flutes	φ16（4刃）4Flutes	φ20（5刃）5Flutes	φ25（6刃）6Flutes	φ32（8刃）8Flutes
碳素钢 合金钢 S-C SCM ~30HRC Carbon Steels Alloy Steels	ZP152 ZP153	vc=150~200	n(min)	7170	5730	4780	4090	3580	2870	2290	1790
			Vc(m/min)	180	180	180	180	180	180	180	180
		fz-0.04~0.09	Vf(mm/min)	500	800	1000	860	1000	1000	960	1000
			fz(mm/t)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
模具钢 SKD SKT ~30HRC Die Tool Steels	ZP152 ZP153	vc=130~180	n(min)	5970	4780	3980	3410	2990	2390	1910	1490
			Vc(m/min)	150	150	150	150	150	150	150	150
		fz-0.04~0.07	Vf(mm/min)	360	570	720	610	720	720	690	720
			fz(mm/t)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
预硬化钢 合金钢,模具钢 SCM SKD SKT 30~40HRC Pre-Harden Steels Alloy Steels,Die Tool Steels	ZP152 ZP153	vc=100~150	n(min)	4780	3820	3180	2730	2390	1910	1530	1190
			Vc(m/min)	120	120	120	120	120	120	120	120
		fz-0.04~0.07	Vf(mm/min)	290	460	570	490	570	570	550	570
			fz(mm/t)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
预硬化钢 合金钢,模具钢 SCM SKD SKT 40~50HRC Pre-Harden Steels Alloy Steels,Die Tool Steels	ZP163 ZP153	vc=80~120	n(min)	3580	2860	2390	2050	1790	1430	1150	900
			Vc(m/min)	90	90	90	90	90	90	90	90
		fz-0.04~0.07	Vf(mm/min)	220	340	430	370	430	430	410	430
			fz(mm/t)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			n(min)	2	2	2	2	2	2	2	2
			Vc(m/min)	0.05Dc	0.05Dc	0.05Dc	0.05Dc	0.05Dc	0.05Dc	0.05Dc	0.05Dc
不锈钢 Stainless Steels SUS	ZP152 ZP153 ZP163	vc=100~150	Vf(mm/min)	4780	3820	3180	2730	2390	1910	1530	1190
			fz(mm/t)	120	120	120	120	120	120	120	120
		fz-0.04~0.09	n(min)	290	460	570	490	570	570	550	570
			Vc(m/min)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
铸铁 Cast Iron FC.FCD	ZK50	vc=130~180	Vf(mm/min)	5970	4780	3980	3410	2990	2390	1910	1490
			fz(mm/t)	150	150	150	150	150	150	150	150
		fz-0.04~0.10	n(min)	420	670	840	720	840	840	800	840
			Vc(m/min)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
淬火钢 (50~60HRC) Hardened Steels	ZP163	vc=60~100	Vf(mm/min)	2390	1910	1590	1360	1190	950	760	600
			fz(mm/t)	60	60	60	60	60	60	60	60
		fz-0.04~0.07	n(min)	140	230	290	240	290	290	270	290
			Vc(m/min)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
			Vf(mm/min)	2	2	2	2	2	2	2	2
			fz(mm/t)	0.05Dc	0.05Dc	0.05Dc	0.05Dc	0.05Dc	0.05Dc	0.05Dc	0.05Dc
铝合金 (湿式) Aluminum Alloy (wet condition)	ZK10	vc=200~500	n(min)	11940	9950	7960	6820	5970	4780	3820	2990
			Vc(m/min)	300	300	300	300	300	300	300	300
		fz-0.04~0.12	Vf(mm/min)	960	1530	1910	1640	1910	1910	1830	1910
			fz(mm/t)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

[注意] ①根据工件材料，加工形状，请使用合适的冷却液。
②此标准切削条件表中的数值为切削条件的基本值，实际加工时，请考虑加工形状，目的，使用机床等因素，对切削条件进行调整。
③槽切削，倾斜切削时，请将进给量设定为约70%
④刀片应尽早更换，以防过度使用造成破损
⑤排出的切屑可能会四处飞溅，割伤或烫伤操作人员，也可能会溅入眼睛而导致受伤。故在使用时应在其周围安装防护罩，操作人员应穿戴防护镜等防护用具，确保在安全的环境下作业。

EDMT型刀片的倾斜切削 Ramping with EDMT-type inserts

由于刃口未及中心，故倾斜角度和孔径受到限制，但若采用下图所示的倾斜切削或螺旋切削，及时无导孔，也可进行直接刻模加工。

Sine the cutting flute to not extend to the center. There are limitations on the ramp angle and hole diameter. But as shown below. Processing by direct milling without a pilot hole is possible for ramping and helical milling.



使用刀片 Inserts	EDMT0702 ◇◇									
外径 Dc Tool diameter	φ8	φ10	φ12	φ14	φ16	φ17	φ20	φ21	φ25	φ32
倾斜角θ Maximum Ramp Angleθ	6.4°	6.6°	4.1°	2.9°	2.2°	2.0°	1.4°	1.3°	1°	0.8°
螺旋孔径 Hole Dia.	10~15	13~19	17~23	21~27	25~31	27~33	33~39	35~41	43~49	57~63

[注意]①倾斜度θ的设定不要超出上述范围，推荐在0.5°以下使用。
②孔径超出上述范围时，请钻导孔后再进行加工。

使用刀片 Inserts

Fig-3
JDMT07020 R
刃长5mm的肩削加工刀片
Insert with 5mm outing edge for shoulder cutting (apmax=5.0mm)

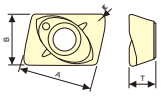
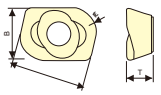


Fig-4
JDMT070220 R(T)
角2.0mm小切深高进给刀片
Insert with 2.0mm comer R for small-depth.high-feed-rate cutting (apmax=0.3mm)



		JP涂层 JP Coated NEW		JM涂层 JM Coated NEW	JX涂层 JX Coated	TH涂层 TH Coated	DLC涂层 DLC Coated	尺寸 Size(mm)				形状 Shape
产品代码 Item Code	精度 Tolerance Class	ZP150	ZP153	ZP151	ZP152	ZP160	ZP163	A	B	re	T	
JDMT070202R	M级 M class	★	●	★	●	●	●	6.4	4.3	0.2	2.45	Fig-3
JDMT070204R		★	●	★	●	●	●	6.4	4.3	0.4	2.45	
JDMT070208R		★	●	★	●	●	●	6.4	4.3	0.8	2.45	
EDMT070220R-T		★	●	★	●			6.4	4.3	2	2.5	Fig-4 标准型 Standard type
EDMT070220R		★	●	★	●			6.4	4.3	2	2.5	Fig-4 低阻力型 Low-Resistance type

P	钢 Carbon steels		■	一般切削 第一推荐 General cutting First recommended
M	SUS等 SUS.etc	■	□	一般切削 第二推荐 General cutting Second recommended
K	FC.FCD			
H	高硬度材料 Hardened steels	■	□	
N	铝合金 Aluminum Alloy			

★：新产品的标准库存品　★：标准库存品　无标记，订单生产品

零件号 Parts

★：Stocked Items of New products　★：Stocked Items　No Mark: Manufactured upon request only

零件名 Parts / 形状 Shape / 适用刀具 Cutter body	夹紧螺钉 Clamp screw	螺丝刀 Screw Driver	螺纹防卡剂 Screw burning protective agent
ASM(L)07□□□S□□□R-□ ASMM07□□□R-□	240-140	104-T6	P-37

实例说明 Field Data

No.	外径Dc (mm) Tool	刀具 Cutter	刀片 Insert	工件材料 Work material	使用条件 Test conditions	结果 Result
1	10	ASM0710S10R-2	EDMT070220R-T (Jx1020)	SCM	Vc=80m/min.vf-4,000mm/min Apxae=0.3×10mm(槽加工),Dry Slotting	与其他公司整体铣刀相比，寿命1.5倍 1.5× the tool life of solid end mills from other companies
2	12	ASM0712S12R-3	EDMT070220R (Jx1020)	SKT4 (HRC43)	Vc=110m/min.vf-3,600mm/min Apxae=0.3×4mm,Dry	寿命50 min良好 Good tool life of 50 min.
3	12	ASM0712S12R-3	EDMT07220R-T (Jx1020)	S55C	Vc=150m/min.vf-8,000mm/min Apxae=0.3×12mm(槽加工),Dry Slotting	与其他公司圆弧角铣刀相比效率可提升1.2倍 Efficiency increase of 1.2× compared to Radius tools from other companies is possible.
4	20	ASMM0720R-5	EDMT070220R=T (Jx1020)	SCM	Vc=150m/min.vf-7,200mm/min Apxae=0.3×12mm,Dry	切削抵抗低，BT30机床也可实现高效率加工 Cutting force is low, enabling High-efficient machining with BT30 machines
5	12	ASM0712S12R-3	JDMT070204R (PTH30E)	SUS304	Vc=120m/min.vf-670mm/min Apxae=1×8mm,Dry	与其他公司刀片相比，寿命1.5倍 1.5× the tool life of insert tools from competitor
6	20	ASMM0720R-5	EDMT070220R (Jp4020)	HPM-MAGIC	Vc=90m/min.vf-4,300mm/min Apxae=0.3×10mm,Dry	突出量为80mm，切削性能与寿命良好 Good cutting performance and good tool life with O.H.80mm
7	10	ASMM0710R-2	JDMT070208R (Sd5010)	GRAPHITE	Vc=1000m/min.vf-10,000mm/min Apxae=0.6×4.0mm,Dry	突出量为90mm，切削性能良好，寿命为以往产品的2倍 Good cutting performance with O.H.90mm 2× the tool life of conventional products.

EMR/EMRW圆鼻铣刀 EMR/EMRW round nose milling cutter

推荐切削条件 Recommended cutting conditions

■切削速度(m/min)

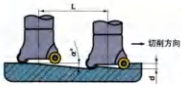
工件材料		硬度	涂层		硬质合金
			ZP153	ZP152	ZK10
P	软钢	≤HB180	250(200-300)	250(200-300)	150(100-200)
	碳钢、合金钢	HB180-280	180(130-220)	180(130-220)	140(100-170)
		HB280-380	160(110-190)	160(110-190)	100(70-120)
	预硬钢	HRC35-45	120(80-140)	120(80-140)	90(60-100)
	高合金钢	Hb300	130(90-160)	130(90-160)	100(70-120)
M	不锈钢	≤HB260	180(130-220)	180(130-220)	140(100-170)
K	灰铸铁	抗拉强度 ≤350MPa	-	170(130-220)	140(100-170)
	球墨铸铁	抗拉强度 360-500MPa	-	140(100-180)	120(80-140)
		抗拉强度 500-800MPa	-	110(80-140)	90(70-110)
H	高硬度钢	HRC45-60	-	60(50-100)	60(40-70)

■每刃进给量(mm/tooth) 注 粗体字为首选材料

形式	切削深度(mm)							
	1	2	3	4	5	6	7	8
R4	0.40	0.30	0.20	0.10	-	-	-	-
R5	0.40	0.35	0.30	0.20	0.10	-	-	-
R6	0.50	0.40	0.30	0.25	0.23	0.20	-	-
R8	0.60	0.50	0.45	0.40	0.33	0.30	0.25	0.20

斜面加工 Bevel processing

■倾斜角度和加工长度 Tilt angle and length



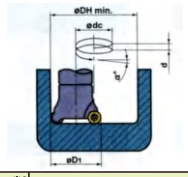
最大倾斜角度时,最大切削长度L的计算式

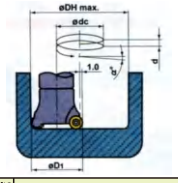
$$L=\frac{d}{\tan\alpha}\ (mm)$$

形式	刀具直径(φ)	最大倾斜角度 α°max.	tan α	最大倾斜角度时的最大切削长度L(㎜) ※				
				d=2mm	d=4mm	d=5mm	d=6mm(max.)	d=8mm(max.)
R4	12	5.02	0.088	22	45	-	-	-
	16	12.2	0.216	9	18	-	-	-
	20	14.52	0.259	7	15	-	-	-
	25	8.8	0.155	12	25	-	-	-
R5	16	4.52	0.079	25	50	63	-	-
	20	11.4	0.202	9	19	24	-	-
	25	14.4	0.257	7	15	19	-	-
	32	8.37	0.147	13	27	33	-	-
R6	32	15.91	0.285	7	14	17	21	-
	40	10.29	0.181	11	22	27	33	-
	50	7.12	0.125	16	32	40	48	-
	63	5.08	0.089	22	44	56	67	-
	80	3.69	0.064	31	62	77	93	-
R8	40	18.86	0.342	5	11	14	17	23
	50	11.91	0.211	9	18	23	28	37
	63	8.01	0.141	14	28	35	42	56
	80	5.60	0.098	20	40	50	61	81
	100	4.13	0.072	27	55	69	83	110

螺旋孔加工 Spiral hole machining

加工孔径与切削深度的关系 Relationship between machining aperture and depth of cut



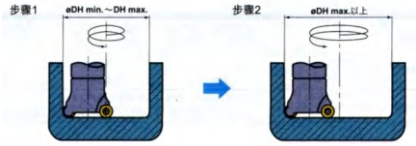


形式	刀具直径 φD1 (mm)	※1 φDH min.	※2 φdc	倾斜角度(a°) d=2mm	d=4mm	d=5mm	d=6mm	d=8mm	※1 φDH min.	※2 φdc	倾斜角度(a°) d=2mm	d=4mm	d=5mm	d=6mm	d=8mm
R4	12	16	4	d=1mm、α°=4.55°					22	10	3.64	–	–	–	–
	16	24	8	4.55	9.10	–	–	–	30	14	2.60	5.20	–	–	–
	20	32	12	3.04	6.08	–	–	–	38	18	2.03	4.05	–	–	–
	25	42	17	2.15	4.29	–	–	–	48	23	1.59	3.17	–	–	–
R5	16	22	6	d=1mm、α°=3.04°					30	14	2.60	5.20	6.50	–	–
	20	30	10	3.64	7.26	9.10	–	–	38	18	2.03	4.05	5.08	–	–
	25	40	15	2.43	4.85	6.08	–	–	48	23	1.59	3.17	3.98	–	–
	32	54	22	1.66	3.31	4.15	–	–	62	30	1.22	2.43	3.04	–	–
R6	32	52	20	1.82	3.64	4.55	5.45	–	62	30	1.22	2.43	3.04	3.64	–
	40	68	28	1.30	2.60	3.25	3.90	–	78	38	0.96	1.92	2.40	2.88	–
	50	88	38	0.96	1.92	2.40	2.88	–	98	48	0.78	1.52	1.90	2.28	–
	63	114	51	0.72	1.43	1.79	2.14	–	124	61	0.60	1.20	1.49	1.79	–
	80	148	68	0.54	1.07	1.34	1.61	–	158	78	0.47	0.94	1.17	1.40	–
R8	40	64	24	1.52	3.04	3.79	4.55	6.06	78	38	0.96	1.92	2.40	2.88	3.38
	50	84	34	1.07	2.14	2.68	3.22	4.28	98	48	0.76	1.52	1.90	2.28	3.04
	63	110	47	0.78	1.55	1.94	2.33	3.10	124	61	0.60	1.20	1.49	1.79	2.39
	80	144	64	0.57	1.14	1.42	1.71	2.28	158	78	0.47	0.94	1.17	1.40	1.87
	100	184	84	0.43	0.87	1.09	1.30	1.74	198	98	0.37	0.74	0.93	1.12	1.49

※1 DH=加工孔径:φ(mm) ※2 dc=刀具轨迹:φ(mm)

R4 DH min.(最小加工直径)=(D1-4)x2, DH min.(最大加工直径)=(D1-1)x2, d min.(最大加工直径)=4(mm)
R5 DH min.(最小加工直径)=(D1-5)x2, DH min.(最大加工直径)=(D1-1)x2, d min.(最大加工直径)=5(mm)
R6 DH min.(最小加工直径)=(D1-6)x2, DH min.(最大加工直径)=(D1-1)x2, d min.(最大加工直径)=6(mm)
R8 DH min.(最小加工直径)=(D1-8)x2, DH min.(最大加工直径)=(D1-1)x2, d min.(最大加工直径)=8(mm)
dc=(刀具轨迹)=DH-D

注意 超过DH max.时,推荐如下图那样,从外周侧扩孔加工。



R2.5/R3/R3.5铣刀

推荐切削条件 Recommended cutting conditions

*以下述切削条件为基准,使用时请根据实际切削状况调整各切削条件。
*使用ZP163加工HRC50以上的高硬度钢时,请注意以下事项。
- 请尽量减小悬伸量。
- 推荐使用硬质合金刀柄。
- 为防止破损,请需特别注意切削深度的设定。
- 加工HRC50以下的高硬度钢时的每一推荐材料为ZP153。

■台阶面加工、型腔加工、斜面加工、仿形加工 Step surface processing, cavity processing, bevel processing, profiling

工件材料 Workpiece material		硬度 hardness	刀片材料	切削速度 VC (m/min)	ARX25R○○○SA○○ S ARX25R○○○ M○○A○○ 切削深度 ap(mm)	ARX25R○○○SA○○ S ARX25R○○○ M○○A○○ 每刃进给量 fz(mm/tooth)	ARX30R○○○SA○○ S ARX30R○○○ M○○A○○ 切削深度 ap(mm)	ARX30R○○○SA○○ S ARX30R○○○ M○○A○○ 每刃进给量 fz(mm/tooth)	ARX35R○○○SA○○ S 切削深度 ap(mm)	ARX35R○○○SA○○ S 每刃进给量 fz(mm/tooth)
P	软钢(SS400、S10C等)	≤HB180	ZP152	180(150-220)	≤1.0	≤0.5	≤1.2	≤0.5	≤1.5	≤0.5
	碳钢、合金钢(S50C、SCM440等)	HB180-350	ZP152	160(120-200)	≤0.7	≤0.3	≤0.9	≤0.3	≤1.2	≤0.3
M	不锈钢(SUS304等)	≤HB270	ZP152	150(120-180)	≤0.7	≤0.3	≤0.9	≤0.3	≤1.2	≤0.3
K	灰铸铁(FC300等)	抗拉强度≤350MPa	ZK50	180(150-220)	≤1.0	≤0.5	≤1.2	≤0.5	≤1.5	≤0.5
	球墨铸铁(FCD450等)	抗拉强度≤800MPa	ZK501	120(80-160)	≤1.0	≤0.5	≤1.2	≤0.5	≤1.5	≤0.5
H	高硬度钢	< HRC50	ZP153	80(50-120)	≤0.5	≤0.2	≤0.7	≤0.2	≤1.0	≤0.2
		≥HRC50	ZP163	80(50-120)	≤0.3	≤0.2	≤0.4	≤0.2	≤0.5	≤0.2

■槽加工 Groove processing

工件材料		硬度	刀片材料	切削速度 VC (m/min)	ARX25R○○○SA○○ S ARX25R○○○ M○○A○○ 切削深度 ap(mm)	ARX25R○○○SA○○ S ARX25R○○○ M○○A○○ 每刃进给量 fz(mm/tooth)	ARX30R○○○SA○○ S ARX30R○○○ M○○A○○ 切削深度 ap(mm)	ARX30R○○○SA○○ S ARX30R○○○ M○○A○○ 每刃进给量 fz(mm/tooth)	ARX35R○○○SA○○ S 切削深度 ap(mm)	ARX35R○○○SA○○ S 每刃进给量 fz(mm/tooth)
P	软钢(SS400、S10C等)	≤HB180	ZP152	180(150-220)	≤1.0	≤0.4	≤1.2	≤0.4	≤1.5	≤0.4
	碳钢、合金钢(S50C、SCM440等)	HB180-350	ZP152	160(120-200)	≤0.7	≤0.2	≤0.9	≤0.2	≤1.2	≤0.2
M	不锈钢(SUS304等)	≤HB270	ZP152	150(120-180)	≤0.7	≤0.2	≤0.9	≤0.2	≤1.2	≤0.2
K	灰铸铁(FC300等)	抗拉强度≤350MPa	ZK50	180(150-220)	≤1.0	≤0.4	≤1.2	≤0.4	≤1.5	≤0.4
	球墨铸铁(FCD450等)	抗拉强度≤800MPa	ZK501	120(80-160)	≤1.0	≤0.4	≤1.2	≤0.4	≤1.5	≤0.4
H	高硬度钢	< HRC50	ZP153	80(50-120)	≤0.5	≤0.1	≤0.7	≤0.1	≤1.0	≤0.1
		≥HRC50	ZP163	80(50-120)	≤0.3	≤0.1	≤0.4	≤0.1	≤0.5	≤0.1

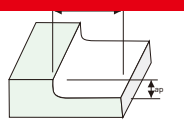
■切入加工 Plunge processing

工件材料 Workpiece material		硬度 hardness	刀片材料	切削速度 VC (m/min)	ARX25R○○○SA○○ S ARX25R○○○ M○○A○○ 切削宽度 ae(mm)	ARX25R○○○SA○○ S ARX25R○○○ M○○A○○ 每刃进给量 fz(mm/tooth)	ARX30R○○○SA○○ S ARX30R○○○ M○○A○○ 切削宽度 ae(mm)	ARX30R○○○SA○○ S ARX30R○○○ M○○A○○ 每刃进给量 fz(mm/tooth)	ARX35R○○○SA○○ S 切削宽度 ae(mm)	ARX35R○○○SA○○ S 每刃进给量 fz(mm/tooth)
P	软钢(SS400、S10C等)	≤HB180	ZP152	180(150-220)	≤2.5	≤0.3	≤3.0	≤0.3	≤3.5	≤0.3
	碳钢、合金钢(S50C、SCM440等)	HB180-350	ZP152	160(120-200)	≤2.5	≤0.2	≤3.0	≤0.2	≤3.5	≤0.2
M	不锈钢(SUS304等)	≤HB270	ZP152	150(120-180)	≤2.5	≤0.2	≤3.0	≤0.2	≤3.5	≤0.2
K	灰铸铁(FC300等)	抗拉强度≤350MPa	ZK50	180(150-220)	≤2.5	≤0.3	≤3.0	≤0.3	≤3.5	≤0.3
	球墨铸铁(FCD450等)	抗拉强度≤800MPa	ZK501	120(80-160)	≤2.5	≤0.3	≤3.0	≤0.3	≤3.5	≤0.3
H	高硬度钢	< HRC50	ZP153	80(50-120)	≤2.5	≤0.1	≤3.0	≤0.1	≤3.5	≤0.1
		≥HRC50	ZP163	80(50-120)	≤2.5	≤0.1	≤3.0	≤0.1	≤3.5	≤0.1

■螺旋孔加工 Spiral hole machining

工件材料		硬度	刀片材料	切削速度 VC (m/min)	ARX25R○○○SA○○ S ARX25R○○○ M○○A○○ 每转切削深度 ap(mm)	ARX25R○○○SA○○ S ARX25R○○○ M○○A○○ 每刃进给量 fz(mm/tooth)	ARX30R○○○SA○○ S ARX30R○○○ M○○A○○ 每转切削深度 ap(mm)	ARX30R○○○SA○○ S ARX30R○○○ M○○A○○ 每刃进给量 fz(mm/tooth)	ARX35R○○○SA○○ S 每转切削深度 ap(mm)	ARX35R○○○SA○○ S 每刃进给量 fz(mm/tooth)
P	软钢(SS400、S10C等)	≤HB180	ZP152	180(150-220)	≤1.0	≤0.3	≤1.0	≤0.3	≤1.0	≤0.3
	碳钢、合金钢(S50C、SCM440等)	HB180-350	ZP152	160(120-200)	≤0.7	≤0.2	≤0.9	≤0.2	≤1.0	≤0.2
M	不锈钢(SUS304等)	≤HB270	ZP152	150(120-180)	≤0.7	≤0.2	≤0.9	≤0.2	≤1.0	≤0.2
K	灰铸铁(FC300等)	抗拉强度≤350MPa	ZK50	180(150-220)	≤1.0	≤0.3	≤1.0	≤0.3	≤1.0	≤0.3
	球墨铸铁(FCD450等)	抗拉强度≤800MPa	ZK501	120(80-160)	≤1.0	≤0.3	≤1.0	≤0.3	≤1.0	≤0.3
H	高硬度钢	< HRC50	ZP153	80(50-120)	≤0.5	≤0.1	≤0.7	≤0.1	≤1.0	≤0.1
		≥HRC50	ZP163	80(50-120)	≤0.3	≤0.1	≤0.4	≤0.1	≤0.5	≤0.1

TRS圆弧铣刀切削参数 TRS Arc Milling Cutter Cutting Parameters



<肩切削> Side milling

工件材料 Work material	刀片材料 Grade	切削速度 Cutting Speed m/min	使用机床 Spindle of Machine	每刃进给量 Feed rate mm/t	Φ20（2刃2Flutes r4）			Φ25（2刃2Flutes r5）			Φ32（3刃2Flutes r5）			φ40(3刃 3Flutes r 6)			φ50(4刃 4Flutes r 6)			φ40(2刃 4Flutes r 8)			φ50(3刃 4Flutes r 8)			φ63(3刃 4Flutes r 8)		
					转速 Min⁻¹	进给速度 mm/min	Q值 Cm³/min	转速 Min⁻¹	进给速度 mm/min	Q值 Cm³/min	转速 Min⁻¹	进给速度 mm/min	Q值 Cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min
普通结构用钢 Mild Steels (200HB 以下)	ZP152 ZP151	150~250	BT40	0.3~0.8	3980	3180	28.6	3180	2540	28.6	2490	2990	43.1	1990	2990	71.8	1590	3180	95.4	1990	1990	47.8	1590	2390	71.7	1260	1890	71.4
					vc=250m/min fz=0.4mm/t ap=1.5mm ae=0.3dc									Vc=250m/min fz=0.5mm/t ap=2mm ae=0.3Dc						Vc=250m/min fz=0.5mm/t ap=2mm ae=0.3Dc						Vc=250m/min fz=0.5mm/t ap=2mm ae=0.3Dc		
			BT50		3980	3180	4707	3180	2540	47.5	2490	2990	71.3	1990	4780	191.2	1590	5090	254.5	1990	3180	159	1590	3820	238.8	1260	3020	237.8
					vc=250m/min fz=0.4mm/t ap=1.5mm ae=0.5dc									Vc=250m/min fz=0.8mm/t ap=2mm ae=0.5Dc						Vc=250m/min fz=0.8mm/t ap=2.5mm ae=0.5Dc						Vc=250m/min fz=0.8mm/t ap=2.5mm ae=0.5Dc		
碳素钢、合金钢 Carbon Steels Alloy Steels (30HRC 以下)	ZP152 ZP151	120~230	BT40	0.3~0.8	3180	2540	22.9	2550	2040	23	1990	2390	34.4	1590	1910	45.8	1270	2030	60.9	1590	1270	30.5	1270	1520	45.6	1010	1210	45.7
					vc=200m/min fz=0.4mm/t ap=1.5mm ae=0.3dc									Vc=200m/min fz=0.4mm/t ap=2mm ae=0.3Dc						Vc=200m/min fz=0.4mm/t ap=2mm ae=0.3Dc						Vc=200m/min fz=0.4mm/t ap=2mm ae=0.3Dc		
			BT50		3180	2540	38.1	2550	2040	38.3	1990	2390	57.4	1590	2860	114.4	1270	3050	152.5	1590	1910	95.5	1270	2290	143.1	1260	3020	237.8
					vc=200m/min fz=0.4mm/t ap=1.5mm ae=0.5dc									Vc=200m/min fz=0.6mm/t ap=2mm ae=0.5Dc						Vc=200m/min fz=0.6mm/t ap=2.5mm ae=0.5Dc						Vc=200mm/min fz=0.7mm/t ap=2.5mm ae=0.5Dc		
碳素钢、合金钢 Carbon Steels Alloy Steels (30~40HRC)	ZP152 ZP151	100~200	BT40	0.2~0.6	2390	960	8.6	1910	760	8.6	1490	890	12.8	1190	710	17	960	770	23.1	1190	480	11.5	960	580	17.4	760	460	17.4
					vc=150m/min fz=0.2mm/t ap=1.5mm ae=0.3dc									Vc=150m/min fz=0.2mm/t ap=2mm ae=0.3Dc						Vc=150m/min fz=0.2mm/t ap=2mm ae=0.3Dc						Vc=150m/min fz=0.2mm/t ap=2mm ae=0.3Dc		
			BT50		2390	1430	21.5	1910	1150	21.6	1490	1340	32.2	1190	1070	42.8	960	1150	57.5	1190	950	47.5	960	1150	71.9	760	910	71.7
					vc=150m/min fz=0.3mm/t ap=1.5mm ae=0.5dc									Vc=150m/min fz=0.3mm/t ap=2mm ae=0.5Dc						Vc=150m/min fz=0.4mm/t ap=2.5mm ae=0.5Dc						Vc=150m/min fz=0.4mm/t ap=2.5mm ae=0.5Dc		
碳素钢、合金钢 Carbon Steels Alloy Steels (40~45HRC)	ZP153 ZP152	60~150	BT40	0.15~0.3	1590	480	2.9	1270	380	2.9	990	450	4.3	800	360	6.5	640	380	8.6	800	240	4.3	640	290	6.5	760	910	71.7
					vc=100m/min fz=0.15mm/t ap=1mm ae=0.3dc									Vc=150m/min fz=0.3mm/t ap=1.5mm ae=0.3Dc						Vc=100m/min fz=0.15mm/t ap=1.5mm ae=0.3Dc						Vc=150m/min fz=0.4mm/t ap=2.5mm ae=0.5Dc		
			BT50		1590	640	6.4	1270	510	6.4	990	590	9.4	800	480	14.4	640	510	19.1	800	320	12.8	640	380	19	510	310	19.5
					vc=100m/min fz=0.2mm/t ap=1mm ae=0.5dc									Vc=100m/min fz=0.2mm/t ap=1.5mm ae=0.5Dc						Vc=100m/min fz=0.2mm/t ap=2mm ae=0.5Dc						Vc=100m/min fz=0.2mm/t ap=2mm ae=0.5Dc		
淬火钢 (45~50HRC) Hardened Steels	ZP163 ZP153	60~100	BT40	0.15~0.3	1270	380	2.3	1020	310	2.3	800	360	3.5	640	290	3.5	510	310	4.7	640	220	4	510	260	5.9	400	200	5.7
					vc=80m/min fz=0.15mm/t ap=1mm ae=0.3dc									Vc=80m/min fz=0.15mm/t ap=1mm ae=0.3Dc						Vc=80m/min fz=0.17mm/t ap=1.5mm ae=0.3Dc						Vc=80m/min fz=0.17mm/t ap=1.5mm ae=0.3Dc		
			BT50		1270	380	3.8	10250	310	3.9	800	360	5.8	640	290	3.5	510	310	4.7	640	220	4	510	260	5.9	400	200	5.7
					vc=80m/min fz=0.15mm/t ap=1mm ae=0.5dc									Vc=80m/min fz=0.15mm/t ap=1mm ae=0.3Dc						Vc=80m/min fz=0.17mm/t ap=1.5mm ae=0.3Dc						Vc=80m/min fz=0.17mm/t ap=1.5mm ae=0.3Dc		
淬火钢 (50~60HRC) Hardened Steels	ZP163 ZP160	50~100	BT40	0.05~0.2	1110	220	1.3	890	170	1.2	690	200	1.9	550	160	1.9	440	170	2.5	550	110	1.3	440	130	1.9	350	100	1.9
					vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.3dc									Vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.3Dc						Vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.3Dc						Vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.3Dc		
			BT50		1110	220	2.2	890	170	2.1	690	200	3.2	550	160	3.2	440	170	4.2	550	110	2.2	440	130	3.2	350	100	3.1
					vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.5dc									Vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.5Dc						Vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.5Dc						Vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.5Dc		
不锈钢 Stainless Steels SUS	ZP152 ZP153 ZP163	150~240	BT40	0.2~0.8	3180	1590	14.3	2550	1280	14.4	1990	1490	21.5	1590	1430	34.3	1270	1520	45.6	1590	950	22.8	1270	1140	34.2	1010	910	34.4
					vc=200m/min fz=0.4mm/t ap=1.5mm ae=0.3dc									Vc=200m/min fz=0.3mm/t ap=2mm ae=0.3Dc						Vc=200m/min fz=0.3mm/t ap=2mm ae=0.3Dc						Vc=200m/min fz=0.3mm/t ap=2mm ae=0.3Dc		
			BT50		2860	1716	25.7	2290	1370	25.7	1790	1610	38.6	1430	2150	86	1150	2300	115	1430	1720	86	1150	2070	129.4	910	1640	129.2
					vc=180m/min fz=0.3mm/t ap=1.5mm ae=0.5dc									Vc=180m/min fz=0.5mm/t ap=2mm ae=0.5Dc						Vc=180m/min fz=0.6mm/t ap=2mm ae=0.3Dc						Vc=180m/min fz=0.6mm/t ap=2.5mm ae=0.3Dc		
铸铁 Cast Iron FC,FCD	ZK50	100~220	BT40	0.3~1.0	2860	2290	20.6	2290	1830	20.6	1790	2150	31	1430	2150	51.6	1150	2300	69	1430	1430	34.3	1150	1730	51.9	910	1370	51.8
					vc=180m/min fz=0.4mm/t ap=1.5mm ae=0.3dc									Vc=180m/min fz=0.5mm/t ap=2mm ae=0.3Dc						Vc=180m/min fz=0.5mm/t ap=2mm ae=0.3Dc						Vc=180mm/min fz=0.5mm/t ap=2mm ae=0.3Dc		
			BT50		2860	2860	42.9	2290	2290	42.9	1790	2690	64.6	1430	3430	137.2	1150	3680	184	1430	2290	114.5	1150	2760	172.5	910	2180	171.7
					vc=180m/min fz=0.5mm/t ap=1.5mm ae=0.5dc									Vc=180m/min fz=0.8mm/t ap=2mm ae=0.5Dc						Vc=180m/min fz=0.8mm/t ap=2.5mm ae=0.3Dc						Vc=180mm/min fz=0.8mm/t ap=2.5mm ae=0.5Dc		

<侧铣> Side milling

工件材料 Work	刀片材料 Grade	切削速度 Cutting Speed m/min	使用机床 Spindle of Machine	每刃进给量 Feed rate mm/t	φ40(3刃 3Flutes r 5)			φ50(5刃 5Flutes r 5)			φ63(6刃 6Flutes r 5)			φ80(6刃 6Flutes r 5)			φ40(3刃 3Flutes r 6)			φ50(4刃 4Flutes r 6)			φ40(2刃 4Flutes r 8)			φ50(3刃 4Flutes r 8)			φ63(3刃 4Flutes r 8)		
					转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min	转速 min⁻¹	进给速度 mm/min	Q值 cm³/min
普通结构用钢 Mild Steels (200HB以下)	ZP152 ZP151	150~250	BT40	0.3~0.8	1990	2990	71.8	1590	3975	95.4	1260	3780	142.9	—	—	—	—	—	—	1260	1890	71.4	—	—	—	—	—	—	—	—	—
					Vc=250m/min fz=0.5mm/t ap=2mm ae=0.3Dc												Vc=250mm/min fz=0.5mm/t ap=2mm ae=0.3Dc														
			BT50		1990	4780	191.2	1590	6360	95.4	1260	6050	381.2	1000	4800	384	800	3200	320	1260	3020	237.8	1000	3200	320	800	3200	400	640	3070	479.7
					Vc=250mm/min fz=0.8mm/t ap=2mm ae=0.5Dc												Vc=250mm/min fz=0.5mm/t ap=2mm ae=0.3Dc						Vc=250mm/min fz=0.8mm/t ap=2.5mm ae=0.5Dc								
碳素钢、合金钢 Carbon&Alloy Steels (30HRC以下)	ZP152 ZP151	120~230	BT40	0.3~0.8	1590	1910	45.8	1270	2540	60.9	1010	2420	91.5	—	—	—	—	—	—	1010	1210	45.7	—	—	—	—	—	—	—	—	—
					Vc=200m/min fz=0.4mm/t ap=2mm ae=0.3Dc												Vc=200m/min fz=0.4mm/t ap=2mm ae=0.3Dc														
			BT50		1590	2860	114.4	1270	3810	152.5	1010	3640	229.3	800	2880	230.4	640	1920	192	1010	2120	167	800	2240	224	640	2240	280	510	2140	344.4
					Vc=200m/min fz=0.2mm/t ap=2mm ae=0.3Dc												Vc=200mm/min fz=0.6mm/t ap=2mm ae=0.5Dc						Vc=250m/min fz=0.8mm/t ap=2.5mm ae=0.5Dc								
碳素钢、合金钢 Carbon&Alloy Steels (30~40HRC)	ZP152 ZP151	100~200	BT40	0.2~0.6	1190	710	17	960	960	23.1	760	910	34.4	—	—	—	—	—	—	760	460	17.4	—	—	—	—	—	—	—	—	—
					Vc=150m/min fz=0.2mm/t ap=2mm ae=0.3Dc												Vc=150mm/min fz=0.2mm/t ap=2mm ae=0.3Dc						Vc=150m/min fz=0.2mm/t ap=2mm ae=0.3Dc								
			BT50		1190	1070	42.8	960	1440	57.5	760	1370	86.3	600	1.080	86.4	480	720	72	760	910	71.7	600	960	96	480	960	120	380	910	142.2
					Vc=150m/min fz=0.3mm/t ap=2mm ae=0.5Dc												Vc=150mm/min fz=0.3mm/t ap=2mm ae=0.5Dc						Vc=150m/min fz=0.4mm/t ap=2.5mm ae=0.5Dc								
碳素钢、合金钢 Carbon&Alloy Steels (40~45HRC)	ZP153 ZP152	60~150	BT40	0.15~0.3	800	360	6.5	640	480	8.6	510	460	130	—	—	—	—	—	—	510	230	6.5	—	—	—	—	—	—	—	—	—
					Vc=100m/min fz=0.15mm/t ap=1.5mm ae=0.3Dc												Vc=100mm/min fz=0.15mm/t ap=1.5mm ae=0.3Dc						Vc=100m/min fz=0.15mm/t ap=1.5mm ae=0.3Dc								
			BT50		800	480	14.4	640	640	19.1	510	610	28.8	400	480	28.8	320	320	24	510	310	19.5	400	320	25.6	320	320	32	250	300	37.5
					Vc=100m/min fz=0.2mm/t ap=1.5mm ae=0.5Dc												Vc=100mm/min fz=0.2mm/t ap=1.5mm ae=0.5Dc						Vc=100m/min fz=0.2mm/t ap=2mm ae=0.5Dc								
淬火钢 Hardened Steels (45~50HRC)	ZP163 ZP153	60~150	BT40	0.15~0.3	640	290	3.5	510	383	4.7	400	360	6.8	—	—	—	—	—	—	400	200	5.7	—	—	—	—	—	—	—	—	—
					Vc=80m/min fz=0.15mm/t ap=1mm ae=0.3Dc												Vc=80mm/min fz=0.15mm/t ap=1mm ae=0.3Dc						Vc=80m/min fz=0.17mm/t ap=1.5mm ae=0.3Dc								
			BT50		640	330	6.6	510	434	8.8	400	410	12.9	320	330	13.2	250	210	10.5	400	240	11.3	320	260	15.6	250	250	18.8	200	240	22.5
					Vc=80m/min fz=0.17mm/t ap=1mm ae=0.5Dc												Vc=80mm/min fz=0.17mm/t ap=1mm ae=0.5Dc						Vc=80m/min fz=0.2mm/t ap=1.5mm ae=0.5Dc								
淬火钢 Hardened Steels (50~60HRC)	ZP163 ZP160	50~100	BT40	0.05~0.2	550	160	1.9	440	220	2.5	350	210	3.9	270	160	3.8	220	110	3.3	350	100	1.9	—	—	—	—	—	—	—	—	—
					Vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.3Dc												Vc=70mm/min fz=0.1mm/t ap=1mm ae=0.3Dc						Vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.3Dc								
			BT50		550	160	3.2	440	220	4.2	350	210	6.6	270	160	6.4	220	110	5.5	350	100	3.1	270	110	4.4	220	110	5.5	170	100	6.2
					Vc=70m/min fz=0.3mm/t ap=2mm ae=0.3Dc												Vc=70mm/min fz=0.1mm/t ap=1mm ae=0.5Dc						Vc=70m/min fz=0.1mm/t ap=1.0mm ae=0.5Dc								
不锈钢 Stainless Steels SUS	ZP152 ZP153 ZP163	150~240	BT40	0.2~0.8	1590	1430	34.3	1270	1905	45.6	1010	1820	68.8	—	—	—	—	—	—	1010	910	34.4	—	—	—	—	—	—	—	—	—
					Vc=70m/min fz=0.3mm/t ap=2mm ae=0.3Dc												Vc=200mm/min fz=0.3mm/t ap=2mm ae=0.3Dc						Vc=200m/min fz=0.3mm/t ap=2mm ae=0.3Dc								
			BT50		1430	2150	86	1150	2875	115	910	2730	172	720	2160	172.8	570	1430	143	910	1640	129.2	720	1730	173	570	1710	213.8	460	1660	259.4
					Vc=180m/min fz=0.5mm/t ap=2mm ae=0.5Dc												Vc=70mm/min fz=0.1mm/t ap=1mm ae=0.5Dc						Vc=180m/min fz=0.1mm/t ap=2.5mm ae=0.5Dc								
铸铁 Cast Iron FC,FCD	ZK50	100~220	BT40	0.3~1.0	1430	2150	51.6	1150	2875	69	910	2730	103.2	—	—	—	—	—	—	910	1370	51.8	—	—	—	—	—	—	—	—	—
					Vc=180m/min fz=0.5mm/t ap=2mm ae=0.5Dc												Vc=180mm/min fz=0.5mm/t ap=2mm ae=0.3Dc						Vc=180m/min fz=0.5mm/t ap=2mm ae=0.3Dc								
			BT50		1430	3430	137.2	1150	4600	184	910	4370	275.3	720	3460	276.8	570	2280	228	910	2180	171.7	720	2300	230	570	2280	285	460	2210	345.3
					Vc=180m/min fz=0.8mm/t ap=2mm ae=0.5Dc												Vc=180mm/min fz=0.9mm/t ap=2mm ae=0.5Dc						Vc=180m/min fz=0.8mm/t ap=2.5mm ae=0.5Dc								

TRSM 可换式刀头型 <肩切削> Side milling

工件材料 Work	刀片材料 Grade	切削速度 Vc Cutting Speed m/min	使用机床 Spindle of Machine	每刃进给量 Feed rate mm/t	φ12(3刃2.5Flutes r 2.5)			φ16(2刃 2Flutes r 3.5)		
					转速 n min⁻¹	进给速度 vf mm/min	切屑排出量 cm³/min	转速 n min⁻¹	进给速度 vf mm/min	切屑排出量 cm³/min
普通结构用钢 Mild Steels (200HB以下)	ZP152 ZP151	150~250	BT40	0.1~0.8	6630	1990	6	4970	1990	16
			BT50		Vc=250m/min fz=0.1mm/t ap=0.5mm ae=0.5Dc			Vc=250m/min fz=0.2mm/t ap=1.0mm ae=0.5Dc		
碳素钢、合金钢 Carbon&Alloy Steels (30HRC以下)	ZP152 ZP151	120~230	BT40	0.1~0.8	5310	1590	4.8	3980	1590	12.7
			BT50		Vc=200m/min fz=0.1mm/t ap=0.5mm ae=0.5Dc			Vc=200m/min fz=0.2mm/t ap=1.0mm ae=0.5Dc		
碳素钢、合金钢 Carbon&Alloy Steels (30~40HRC)	ZP152 ZP153	100~200	BT40	0.08~0.6	3980	960	2.9	2980	890	7.1
			BT50		Vc=150m/min fz=0.08mm/t ap=0.5mm ae=0.5Dc			Vc=150m/min fz=0.15mm/t ap=1.0mm ae=0.5Dc		
碳素钢、合金钢 Carbon&Alloy Steels (40~45HRC)	ZP153 ZP152 ZP163	60~150	BT40	0.08~0.3	2650	640	1.9	1990	600	2.9
			BT50		Vc=100m/min fz=0.08mm/t ap=0.5mm ae=0.5Dc			Vc=100m/min fz=0.15mm/t ap=0.6mm ae=0.5Dc		
不锈钢 Stainless Steels SUS	ZP152 ZP153 ZP163	150~240	BT40	0.1~0.8	4770	1430	4.3	3580	1430	11.4
			BT50		Vc=180m/min fz=0.1mm/t ap=0.5mm ae=0.5Dc			Vc=180m/min fz=0.2mm/t ap=1.0mm ae=0.5Dc		
铸铁 Cast Iron FC,FCD	ZK50	100~220	BT40	0.1~1.0	4770	1430	4.3	3580	1430	11.4
			BT50		Vc=180m/min fz=0.1mm/t ap=0.5mm ae=0.5Dc			Vc=180m/min fz=0.2mm/t ap=1.0mm ae=0.5Dc		
淬火钢 Hardened Steels (45~55HRC)	ZP153 ZP160 ZP163	60~100	BT40	0.05~0.3	2120	510	0.9	1590	320	1.3
			BT50		Vc=80m/min fz=0.08mm/t ap=0.3mm ae=0.5Dc			Vc=80m/min fz=0.1mm/t ap=0.5mm ae=0.5Dc		
淬火钢 Hardened Steels (55~60HRC)	ZP163 ZP160	50~100	BT40	0.05~0.2	1860	280	0.5	1390	280	0.7
			BT50		Vc=70m/min fz=0.05mm/t ap=0.3mm ae=0.5Dc			Vc=70m/min fz=0.1mm/t ap=0.3mm ae=0.5Dc		

※1、“ZP163”切为高硬度钢专用材料，不适合于生材。

※2、在强间断切削环境下，推荐使用“ZP152”“ZP153”。

倾斜切削 · 螺旋切削 · Z方向切削

Tilt cutting, spiral cutting, Z-direction cutting

由于刃口末及中心，故倾斜角度（θ）、Z轴方向切削深度（ap）受到限制。

There are restrictions to ramp angle(θ)and cutting depth (ap)toward Z-axis because of designs of cutting edge.

(mm)

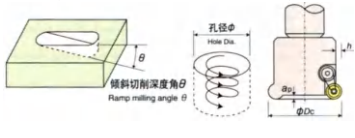
φDc	φ12(2.5)	φ16(3.5)	φ20(4)	φ22(4)	φ25(5)	φ28(5)	φ30(5)	φ32(5)	φ40(5)
推荐θ Recommended	2°以下 Below 2 degrees		3°以下 Below 3 degrees						
h	0.8	1	1	2	2	2	0.5	1.5	2
ap	0.8	1	2	3	3	3	3	3	3
螺旋孔径 Hole Dia.	60~78	22~30	28~38	32~42	34~38	40~54	44~58	48~62	64~78

【注意】切屑可能会飞溅，请设置切屑护罩。

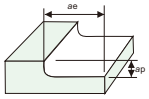
【Note】Due to swarf evacuation wear safety glasses in the vici

倾斜切削 Ramping

螺旋孔径 Helical milling



高精度球头 ABPF型 High precision ball head ABPF type



标准切削条件 Recommended cutting conditions

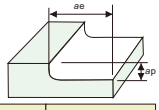
工件材料 Work	刀片材料 Grade	切削条件 Cutting Condition	φ6 半精加工 Semi Finishing 通用 General purpose	φ6 半精加工 Semi Finishing 高速加工 High-speed processing	φ6 精加工 Finishing	φ8 半精加工 Semi Finishing 通用 General purpose	φ8 半精加工 Semi Finishing 高速加工 High-speed processing	φ8 精加工 Finishing	φ10 半精加工 Semi Finishing 通用 General purpose	φ10 半精加工 Semi Finishing 高速加工 High-speed processing	φ10 精加工 Finishing	φ12 半精加工 Semi Finishing 通用 General purpose	φ12 半精加工 Semi Finishing 高速加工 High-speed processing	φ12 精加工 Finishing	φ16 半精加工 Semi Finishing 通用 General purpose	φ16 半精加工 Semi Finishing 高速加工 High-speed processing	φ16 精加工 Finishing	φ20 半精加工 Semi Finishing 通用 General purpose	φ20 半精加工 Semi Finishing 高速加工 High-speed processing	φ20 精加工 Finishing	φ25 半精加工 Semi Finishing 通用 General purpose	φ25 半精加工 Semi Finishing 高速加工 High-speed processing	φ25 精加工 Finishing	φ30 半精加工 Semi Finishing 通用 General purpose	φ30 半精加工 Semi Finishing 高速加工 High-speed processing	φ30 精加工 Finishing	φ32 半精加工 Semi Finishing 通用 General purpose	φ32 半精加工 Semi Finishing 高速加工 High-speed processing	φ32 精加工 Finishing
碳素钢、合金钢 Carbon&Alloy Steels (30HRC以下)	ZP152 ZP151 ZP153	n(min⁻¹)	8490	16450	16450	6370	12340	12340	5100	9240	11150	4250	7170	10080	3180	4180	9950	2550	3340	9080	2040	2680	8030	1700	2230	7640	1590	2090	7170
		vc(m/min)	160	310	310	160	310	310	160	290	350	160	270	380	160	210	500	160	210	570	160	210	630	160	210	720	160	210	720
		vf(mm/min)	1700	4930	3290	2550	9870	4940	2040	7390	4460	1700	5740	4030	1590	4180	5970	1280	3340	7260	1020	2680	8030	850	2230	9170	800	2090	8600
		fz(mm/t)	0.1	0.15	0.1	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.4	0.2	0.25	0.5	0.3	0.25	0.5	0.4	0.25	0.5	0.5	0.25	0.5	0.6	0.25	0.5	0.6
		ap(mm)	0.1	0.05	0.05	0.2	0.1	0.1	0.25	0.15	0.1	0.3	0.2	0.1	0.8	0.6	0.1	1	0.7	0.1	1.25	0.9	0.1	1.6	1.1	0.1	1.6	1.1	0.1
		ae(mm)	0.6	0.6	0.2	0.8	0.8	0.25	1	0.8	0.25	1.2	0.9	0.3	1.6	1.1	0.35	2	1.5	0.4	2.5	1.8	0.5	3.2	2.4	0.5	3.2	2.4	0.5
碳素钢、合金钢 Carbon&Alloy Steels (30~45HRC)	ZP152 ZP151 ZP153	n(min⁻¹)	6370	14320	14320	4780	10750	10750	3820	7640	9550	3180	6100	8760	2390	2990	7560	1910	2550	6690	1530	2040	5990	1270	1700	5730	1190	1590	5370
		vc(m/min)	120	270	270	120	270	270	120	240	300	120	230	330	120	150	380	120	160	420	120	160	470	120	160	540	120	160	540
		vf(mm/min)	1270	4300	2860	1910	8600	4300	1530	6110	3820	1270	4880	3500	1200	2990	4540	960	2550	5350	770	2040	5990	640	1700	6880	600	1590	6440
		fz(mm/t)	0.1	0.15	0.1	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.4	0.2	0.25	0.5	0.3	0.25	0.5	0.4	0.25	0.5	0.5	0.25	0.5	0.6	0.25	0.5	0.6
		ap(mm)	0.1	0.05	0.05	0.2	0.1	0.1	0.25	0.15	0.1	0.3	0.2	0.1	0.8	0.6	0.1	1	0.7	0.1	1.25	0.9	0.1	1.6	1.1	0.1	1.6	1.1	0.1
		ae(mm)	0.6	0.6	0.2	0.8	0.8	0.25	1	0.8	0.25	1.2	0.9	0.3	1.6	1.1	0.6	2	1.5	0.4	2.5	1.8	0.5	3.2	2.4	0.6	3.2	2.4	0.6
淬火钢 Hardened Steels (45~55HRC)	ZP153 ZP160 ZP163	n(min⁻¹)	5310	12200	12200	3980	9160	9160	3180	6690	8280	2650	5310	7700	1990	2990	6970	1590	2390	6370	1270	1910	5730	1060	1590	5310	1000	1490	4980
		vc(m/min)	100	230	230	100	230	230	100	210	260	100	200	290	100	150	350	100	150	400	100	150	450	100	150	500	100	150	500
		vf(mm/min)	850	2440	2440	800	3660	3660	640	2680	3310	530	2120	3080	480	1440	4180	380	1150	5100	310	920	5730	250	760	6370	240	720	5980
		fz(mm/t)	0.08	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.12	0.24	0.3	0.12	0.24	0.4	0.12	0.24	0.5	0.12	0.24	0.6	0.12	0.24	0.6
		ap(mm)	0.1	0.05	0.05	0.2	0.1	0.1	0.25	0.15	0.1	0.3	0.2	0.1	0.8	0.6	0.1	1	0.7	0.1	1.25	0.9	0.1	1.6	1.1	0.1	1.6	1.1	0.1
		ae(mm)	0.6	0.6	0.2	0.8	0.8	0.25	1	0.8	0.25	1.2	0.9	0.3	1.6	1.1	0.3	2	1.5	0.4	2.5	1.8	0.5	3.2	2.4	0.6	3.2	2.4	0.6
淬火钢 Hardened Steels (55~62HRC)	ZP162 ZP160	n(min⁻¹)	4240	9550	9550	3180	7170	7170	2550	5410	6370	2120	4250	6100	1590	2390	5570	1270	1910	5100	1020	1530	4590	850	1270	4240	800	1190	3980
		vc(m/min)	80	180	180	80	180	180	80	170	200	80	1600	230	80	120	280	80	120	320	80	120	360	80	120	400	80	120	400
		vf(mm/min)	680	1910	1910	640	2870	2870	510	2160	2550	420	1700	2440	380	1150	3340	300	920	4080	240	730	4590	200	610	5090	190	570	4780
		fz(mm/t)	0.08	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.12	0.24	0.3	0.12	0.24	0.4	0.12	0.24	0.5	0.12	0.24	0.6	0.12	0.24	0.6
		ap(mm)	0.1	0.05	0.05	0.2	0.1	0.1	0.25	0.15	0.1	0.3	0.2	0.1	0.8	0.6	0.1	1	0.7	0.1	1.25	0.9	0.1	1.6	1.1	0.1	1.6	1.1	0.1
		ae(mm)	0.6	0.6	0.2	0.8	0.8	0.25	1	0.8	0.25	1.2	0.9	0.3	1.6	1.1	0.3	2	1.5	0.4	2.5	1.8	0.5	3.2	2.4	0.6	3.2	2.4	0.6
铸铁 Cast Iron	ZK50	n(min⁻¹)	8490	16450	16450	6370	12340	12340	5090	9240	11150	4240	7170	10080	3180	4180	9950	2550	3340	9080	2040	2680	8030	1700	2230	7640	1590	2090	7170
		vc(m/min)	160	310	310	160	310	310	160	290	350	160	270	380	160	210	500	160	210	570	160	210	630	160	210	720	160	210	720
		vf(mm/min)	1700	6580	3290	3820	14810	4940	3050	11090	6690	2550	8600	6050	2230	5850	5970	1790	4680	7260	1430	3750	8030	1190	3120	9170	1110	2930	8600
		fz(mm/t)	0.1	0.2	0.1	0.3	0.6	0.2	0.3	0.6	0.3	0.3	0.6	0.3	0.35	0.7	0.3	0.35	0.7	0.4	0.35	0.7	0.5	0.35	0.7	0.6	0.35	0.7	0.6
		ap(mm)	0.1	0.05	0.05	0.2	0.1	0.1	0.25	0.15	0.1	0.3	0.2	0.1	0.8	0.6	0.1	1	0.7	0.1	1.25	0.9	0.1	1.6	1.1	0.1	1.6	1.1	0.1
		ae(mm)	0.6	0.6	0.2	0.8	0.8	0.25	1	0.8	0.25	1.2	0.9	0.3	1.6	1.1	0.	2	1.5	0.4	2.5	1.8	0.5	3.2	2.4	0.6	3.2	2.4	0.6
石墨 Graphite	ZK10	n(min⁻¹)	15920	21220	21220	11940	15920	15920	9550	12740	12740	7960	10620	10620	5970	7960	7960	4780	6370	6370									
		vc(m/min)	300	400	400	300	400	400	300	400	400	300	400	400	300	400	400	300	400	400									
		vf(mm/min)	3180	6370	4240	4780	9550	6370	3820	7640	5100	3190	6370	4240	2990	4780	3980	2390	3820	3190									
		fz(mm/t)	0.1	0.15	0.1	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.25	0.3	0.25	0.25	0.3	0.25									
		ap(mm)	0.3	0.15	0.15	0.4	0.2	0.2	0.5	0.3	0.2	0.6	0.4	0.2	0.8	0.6	0.1	1	0.7	0.1									
		ae(mm)	0.6	0.6	0.2	0.8	0.8	0.25	1.0	0.8	0.25	1.2	0.9	0.3	1.6	1.1	0.3	2	1.5	0.4									
铝合金铸件 Cast aluminum alloy AC4A,ADC12等	ZK10	n(min⁻¹)	15920	26530	26530	11940	19900	19900	9550	15920	15920	7960	13270	13270	5970	9950	9950	4780	7960	7960									
		vc(m/min)	300	500	500	300	500	500	300	500	500	300	500	500	300	500	500	300	500	500									
		vf(mm/min)	3180	10610	5310	4780	15920	7960	3820	12740	6370	3190	10620	5310	2990	7960	4980	2390	6370	3980									
		fz(mm/t)	0.1	0.2	0.1	0.2	0.4	0.2	0.2	0.4	0.2	0.2	0.4	0.2	0.25	0.4	0.25	0.25	0.4	0.25									
		ap(mm)	0.3	0.15	0.15	0.4	0.2	0.2	0.5	0.3	0.2	0.6	0.4	0.2	0.8	0.6	0.1	1	0.7	0.1									
		ae(mm)	0.6	0.6	0.2	0.8	0.8	0.25	1.0	0.8	0.25	1.2	0.9	0.3	1.6	1.1	0.3	2	1.5	0.4									
最大fz Maximum fz (mm/t)			<0.2			<0.8			<0.8			<0.8			<1.0			<1.0			<1.0			<1.0			<1.0		
最大ap Maximum ap (mm)			<0.6			<4.0			<5.0			<6.0			<8.0			<10.0			<12.5			<16.0			<16.0		

※突出长3Dc以上时，请根据上表并参考下表进行调整。
* When the length is longer than 3Dc, please adjust according to the above table and refer to the table below.

突出比例 Qverhang ratio	Vc(m/min)	vf(mm/min)
<3Dc	100%	100%
3Dc~5Dc	70%	70%
5Dc~8Dc	60%	60%
8Dc~10Dc	50%	50%

【注意】
①此标准切削条件表中的数值为切削条件的基准值。实际加工时，请考虑加工形状，目的，使用机床等因素，对切削条件进行调整。
②本刀具在使用时有可能会发生破损，故必须安装护盖，穿戴保护镜，安全靴等。
③请勿将手置于硬质合金刀柄支柄支架上。在使用硬质合金刀柄支架上，请按以下数值设定切削量ap。
若外径DcD 12以下，ap=0.2mm以下。若外径Dc 16以下，ap=0.3mm以下。

球头铣刀 BCF型



<深肩切削> Deep Side Milling

工件材料 Work	刀片材料 Grade	切削速度 Cutting Speed m/min	每刃进给量 Feed rate mm/t	φ20 转速 n min⁻¹	φ20 进给速度 vf mm/min	φ25 转速 n min⁻¹	φ25 进给速度 vf mm/min	φ30 转速 n min⁻¹	φ30 进给速度 vf mm/min	φ40 转速 n min⁻¹	φ40 进给速度 vf mm/min
碳素钢 Carbon Steels S40C~ (200HB以下)	ZP152 ZP151 ZP153	120~200	0.08~0.2	2700	420	2160	530	1800	400	1110	420
				Vc=170m/min						Vc=140m/min	
				ap=1.2mm ae=0.1Dc							
合金钢 Alloy Steels SCM,SNCM (200~250HB)	ZP152 ZP151 ZP153	120~200	0.06~0.2	2550	320	2040	430	1700	350	1270	410
				Vc=160m/min						Vc=130m/min	
				ap=1.2mm ae=0.1Dc							
合金钢 Alloy Steels SKD,SKT (25~35HRC)	ZP152 ZP151 ZP153	100~160	0.05~0.15	1750	220	1400	330	1170	270	790	300
				Vc=110m/min						Vc=100m/min	
				ap=1.2mm ae=0.1Dc							
淬火钢,预硬化钢 Hardened Steels, Pre-Harden Steels (40~45HRC)	ZP153 ZP160 ZP163	60~120	0.04~0.13	960	70	760	100	640	100	480	90
				Vc=60m/min							
				ap=1.2mm ae=0.1Dc							
铸铁 Cast Iron FC200,FC300,GM241 (150HB)	ZK50	140~220	0.08~0.2	2700	420	2160	530	1800	440	1110	420
				Vc=170m/min						Vc=140m/min	
				ap=1.2mm ae=0.1Dc							

<槽切削> Slotting

工件材料 Work	刀片材料 Grade	切削速度 Cutting Speed m/min	每刃进给量 Feed rate mm/t	φ20 转速 n min⁻¹	φ20 进给速度 vf mm/min	φ25 转速 n min⁻¹	φ25 进给速度 vf mm/min	φ30 转速 n min⁻¹	φ30 进给速度 vf mm/min	φ40 转速 n min⁻¹	φ40 进给速度 vf mm/min
碳素钢 Carbon Steels S40C~ (200HB以下)	ZP152 ZP151 ZP153	150~250	0.06~0.2	3500	440	2800	550	2330	720	1430	440
				Vc=220m/min						Vc=180m/min	
				ap=0.3Dc							
合金钢 Alloy Steels SCM,SNCM (200~250HB)	ZP152 ZP151 ZP153	150~230	0.05~0.2	3180	330	2550	450	2120	420	1270	340
				Vc=200m/min						Vc=160m/min	
				ap=0.3Dc							
合金钢 Alloy Steels SKD,SKT (25~35HRC)	ZP152 ZP151 ZP153	100~160	0.03~0.15	2070	110	1660	210	1380	180	870	170
				Vc=130m/min						Vc=110m/min	
				ap=0.3Dc							
淬火钢,预硬化钢 Hardened Steels, Pre-Harden Steels (40~45HRC)	ZP153 ZP160 ZP163	60~120	0.02~0.13	1100	50	890	80	740	80	560	100
				Vc=70m/min							
				ap=0.3Dc							
铸铁 Cast Iron FC200,FC300,GM241 (150HB)	ZK50	140~240	0.06~0.2	3500	440	2880	660	2330	540	1430	540
				Vc=220m/min						Vc=180m/min	
				ap=0.3Dc							

<低切削深度、高速、高进给切削> Low depth of cut,High speed,High feed

工件材料 Work	刀片材料 Grade	容最大实切削速度 Vc Actual Maximum Cutting Speed m/min	每刃进给量 Feed rate mm/t	φ16 转速 n Min⁻¹	φ16 进给速度 vf mm/min	φ20 转速 n Min⁻¹	φ20 进给速度 vf mm/min	φ25 转速 n Min⁻¹	φ25 进给速度 vf mm/min	φ32(32) 转速 n Min⁻¹	φ32(32) 进给速度 vf mm/min
碳素钢 Carbon Steels S45C~ (220HB 以下)	ZP152 ZP151 ZP153	220 (150~250)	0.15~0.6	4,380	1,750	3,500	4,200	2,800	3,360	2,330	2,800
				Vc=220m/min ap≤0.7mm ae=0.1Dc		Vc=220m/min ap≤1.0mm ae=0.1Dc					
合金钢 Alloy Steels SKD,SKT (200~250HB)	ZP152 ZP151 ZP153	200 (120~200)	0.15~0.6	3,980	1,590	3,180	3,820	2,550	3,060	2,120	2,550
				Vc=200m/min ap≤0.7mm ae=0.1Dc		Vc=200m/min ap≤1.0mm ae=0.1Dc					
合金钢 Alloy Steels SCM,SNCM (25~35HRC)	ZP152 ZP151 ZP153	130 (60~130)	0.08~0.6	2,590	830	2,070	2,500	1,660	2,000	1,380	1,605
				Vc=130m/min ap≤0.5mm ae=0.1Dc		Vc=130m/min ap≤1.0mm ae=0.1Dc					
合金钢・预硬化钢 Alloy& Pre-Harden Steels (40~45HRC)	ZP153 ZP160 ZP163	70 (50~100)	0.07~0.6	1,390	420	1,110	1,330	890	1,070	740	900
				Vc=70m/min ap≤0.5mm ae=0.1Dc		Vc=70m/min ap≤1.0mm ae=0.1Dc					
铸铁 Cast Iron (150HB) FC200,FC300,GM241 (150HB)	ZK50	220 (120~240)	0.15~0.6	4,380	1,750	3,500	4,200	2,800	3,360	2,230	2,800
				Vc=220m/min ap≤0.7mm Ae=0.15Dc		Vc=220m/min ap≤1.0mm ae=0.15Dc					

<肩切削> Side Milling

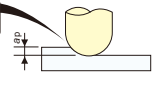
工件材料 Work	刀片材料 Grade	容最大实切削速度 Actual Maximum Cutting Speed m/min	使用机床 Spindle of Machine	每刃进给量 Feed rate mm/t	φ20 转速 Min⁻¹	φ20 进给速度 mm/min	φ25 转速 Min⁻¹	φ25 进给速度 mm/min	φ30 转速 Min⁻¹	φ30 进给速度 mm/min	φ40 转速 Min⁻¹	φ40 进给速度 mm/min
碳素钢 Carbon Steels S40C~ (200HB 以下)	ZP152 ZP151 ZP153	150~250	BT40	0.15~0.6	3,500	4,200	2,800	3,360	2,330	2,800	1,430	1,720
					Vc=220m/min ap≤1.0mm ae=0.3Dc							
			BT50	0.1~0.3	3,500	650	2,800	880	2,330	720	1,430	540
					Vc=220m/min ap≤0.5mm ae=0.3Dc							
合金钢 Alloy Steels SKD,SKT (200~250HB)	ZP152 ZP151 ZP153	120~200	BT40	0.15~0.6	3,180	3,820	2,550	3,060	2,120	2,550	1,270	1,530
					Vc=200m/min ap≤1.0mm ae=0.3Dc							
			BT50	0.08~0.3	3,180	540	2,550	660	2,120	530	1,270	410
					Vc=200m/min ap≤0.5mm ae=0.3Dc							
合金钢 Alloy Steels SCM,SNCM (25~35HRC)	ZP152 ZP151 ZP153	60~130	BT40	0.05~0.6	2,070	2,500	1,660	2,000	1,380	1,650	870	1,050
					Vc=130m/min ap≤1.0mm ae=0.3Dc							
			BT50	0.05~0.3	2,070	440	1,660	540	1,380	460	870	330
					Vc=130m/min ap≤0.5mm ae=0.3Dc							
合金钢・预硬化钢 Alloy& Pre-Harden Steels (40~45HRC)	ZP153 ZP160 ZP163	50~100	BT40	0.07~0.6	1,110	1,330	890	1,070	740	900	560	670
					Vc=70m/min ap≤0.5mm ae=0.3Dc							
			BT50	0.05~0.3	1,110	150	890	200	740	200	560	100
					Vc=70m/min ap≤0.5mm ae=0.3Dc							
铸铁 Cast Iron (150HB) FC200,FC300,GM241 (150HB)	ZK50	120~240	BT40	0.15~1.2	3,500	4,200	2,800	3,360	2,230	2,800	1,430	1,720
					Vc=220m/min ap≤1.0mm ae=0.3Dc							
			BT50	0.1~0.3	3,500	650	2,800	900	2,230	900	1,430	540
					Vc=220m/min ap≤0.5mm ae=0.3Dc							

【注意】
①此标准切削条件表中的数值为切削条件的其准值。实际加工时，请考虑加工形状，目的，使用机床等因素，对切削条件进行调整。
②使用可换式刀头用BT30刀杆时，请按标准切削条件表设定加工条件。
若担心加工时产生的振动，请通过1.降低切削深度(ap)2.降低每刃进给量(fz)进行调整。
③高速机床的转速按下式计算。
④※实际最大切削速度。
⑤等高线加工时，推荐使用高速机床中的切削条件。
⑥进行型腔加工中的倾斜切削时，推荐角度为3~5°。进给量请设定为约70%。工件材料为钢时，切屑有可能无法折断而会向外飞溅，故请在机床上加装护罩(飞溅防护罩等)，否则很危险。工件材料为高硬度材料时，请设定在3°以下。

$$转速= \frac{500\times ※实际最大切削速度}{\pi\times\sqrt{2\times R\times ap-ap^2}}$$

R：球半径
π：圆周率
ap：轴向切削量

实际最大切削速度：ap=0.5mm及1mm时与工件材料接触部间的最大速度。



BNM球刀推荐加工参数 BNM ball cutter recommended processing parameters

MBN/MBN-H型+超强硬杆标准切削条件 高速加工用

MBN/MBN-H type + super hard rod standard cutting conditions for high speed machining

被加工材料 Material to be processed	刀片材质		切削速度	刀具直径（mm）												最大切深	最大步距
	BNM	BNM-S/SH (S刃型刀片)	Vc (m/min)	10		12		16		20		25		30/32		Ap(mm)	Ae(mm)
				n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)
灰铸铁(160-260HB)	ZP152	ZK50	750	24000	9600	20000	10000	15000	10000	12000	9000	9600	8000	8000	8000	0.1~0.3	0.02D
球墨铸铁(170-300HB)		ZK501	600	19000	7000	16000	7000	12000	7000	9600	6700	7700	6000	6500	6000	0.1~0.3	0.02D
碳素钢(180-280HB)		ZP151	600	19000	7000	16000	7000	12000	7000	9600	6700	7700	6000	6500	6000	0.1~0.3	0.02D
低合金钢(1802-280HB)		ZP152	600	19000	7000	16000	7000	12000	7000	9600	6700	7700	6000	6500	6000	0.1~0.2	0.02D
模具钢(180-255HB)		ZP153	600	19000	7000	16000	7000	12000	7000	9600	6700	7700	6000	6500	6000	0.1~0.2	0.015D
淬火钢(40-55HRC)		ZP153	450	14500	4300	12000	4800	9000	4500	7200	3600	5750	3450	4800	3360	0.1~0.2	0.015D
淬火钢(56-63HRC)		ZP163	300	9500	2800	8000	3200	6000	3000	4800	2400	3850	2300	3200	2200	0.05~0.01	0.015D
不锈钢(150-250HB)		ZP152	500	16000	6000	13500	6000	10000	6000	8000	4800	6400	4500	5300	4200	0.1~0.2	0.015D
铜合金(80-150HB)	ZK10	ZK10	600	19000	9000	16000	9600	12000	8400	9600	7600	7700	6200	6500	6500	0.1~0.3	0.02D
铝合金(30-100HB)			800	25000	12500	21000	12600	16000	11200	12700	10000	10200	8200	8500	8500	0.1~0.5	0.02D

MBN/MBN-H型+超强硬杆标准切削条件 一般加工用

MBN/MBN-H type + super hard rod standard cutting conditions for general processing

被加工材料 Material to be processed	刀片材质		切削速度	刀具直径（mm）												最大切深	最大步距
	BNM	BNM-S/SH (S刃型刀片)	Vc (m/min)	10		12		16		20		25		30/32		Ap(mm)	Ae(mm)
				n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)	n (min⁻¹)	Vf (mm/min)
灰铸铁(160-260HB)	ZP152	ZK50	450	14500	4400	12000	4800	9000	4500	7200	4300	6000	4000	5000	4000	0.02D	0.025D
球墨铸铁(170-300HB)		ZK501	350	11000	3300	9200	3700	7000	3500	5600	3000	4500	2700	4000	2800	0.02D	0.025D
碳素钢(180-280HB)		ZP151	350	11000	3300	9200	3700	7000	3500	5600	3000	4500	2700	4000	2800	0.02D	0.02D
低合金钢(1802-280HB)		ZP152	350	11000	3300	9200	3700	7000	3500	5600	3000	4500	2700	4000	2800	0.02D	0.02D
模具钢(180-255HB)		ZP153	350	11000	3300	9200	3700	7000	3500	5600	3000	4500	2700	4000	2800	0.02D	0.02D
淬火钢(40-55HRC)		ZP153	250	8000	2000	6700	2000	5000	2000	4000	1800	3200	1600	2700	1400	0.015D	0.02D
淬火钢(56-63HRC)		ZP163	200	6400	1300	5300	1500	4000	1400	3200	1300	2600	1300	2000	1000	0.01D	0.02D
不锈钢(150-250HB)		ZP152	300	9600	3000	8000	3200	6000	3000	4800	2400	3850	2100	3200	2000	0.02D	0.02D
铜合金(80-150HB)	ZK10	ZK10	350	11000	3800	9200	4000	7000	3850	5600	3400	4500	3150	4000	3200	0.02D	0.025D
铝合金(30-100HB)			500	16000	6400	13500	6800	10000	6000	8000	5600	6400	4500	5300	4800	0.03D	0.03D

ℓ：端铣刀悬长，ap：切深，ae：切宽，n：主轴转速，Vf：主轴进给

★ 安装刀片时注意
1、清洁刀片座；
2、清洁刀片（特别是基准面和安装孔内的污物）；
3、夹紧螺钉磨损严重时，应及时更换；
4、螺钉不宜过分拧紧，建议按推荐的扭矩紧固（见表）；
5、备有专用扭力扳手。

刀具直径 φD(mm)	推荐扭矩值 N.m
10	1.2
12	2.0
16	3.0
20	4.0
25	5.0
30	6.0
32	6.0

CBN刀片标准切削条件 CBN刀片 高速加工机用

被加工材料 Material to be processed	硬度 hardness	刀片材质	刀具直径 φD（mm） 法向进给f(mm/rev) 主轴转速n(min-1)				最大切深 Ap(mm)	最大步距 Ae(mm)
			16	20	25	30		
灰铸铁（FC250,FC300）	160~260HB	CBN	0.4-0.5-0.6	0.5-0.6-0.7	0.55-0.65-0.75	0.6-0.7-0.8	0.05-0.1	D/40
球墨铸铁（FCD600,FCD700）	170~300HB		0.3-0.4-0.5	0.4-0.5-0.6	0.45-0.55-0.65	0.5-0.6-0.7	0.05-0.1	D/40
			20000-24000-28000	16000-19000-22000	12000-15000-18000	10000-12000-14000		

CBN刀片标准切削条件 CBN刀片 低速加工机用

被加工材料 Material to be processed	硬度 hardness	刀片材质	刀具直径 φD（mm） 法向进给f(mm/rev) 主轴转速n(min-1)				最大切深 Ap(mm)	最大步距 Ae(mm)
			16	20	25	30		
灰铸铁（FC250,FC300）	160~260HB	CBN	0.5	0.6	0.65	0.7	0.1-0.15	D/40
球墨铸铁（FCD600,FCD700）	170~300HB		0.4	0.5	0.55	0.6	0.1-0.15	D/40
			6000-10000超出范围的请参照高速加工机用参数					

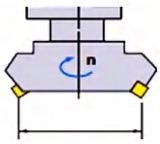
使用注意事项
1.推荐使用高速机床，使用高速加工条件加工，如无高速机床则使用低速加工条件；
2.推荐使用动平衡的刀杆和刀柄加工；
3.使用喷雾冷却的方式可提高精度；
4.请避免使用插刀程序；
5.如无法避免插刀程序请降低进给；
6.工件余量误差较大会影响刀片寿命，请保证平均余量后再进行加工。

推荐切削条件 Recommended cutting conditions

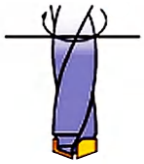
工件材料 Workpiece material	硬度 hardness	刀片材料	切削速度 (m/min)	每刃进给量 (mm/tooth)
软钢（SS400、S10C等）	≤HB180	ZC250	200 (160-250)	0.2 (0.1-0.3)
		ZP152	180 (100-250)	
		ZN60	140 (80-200)	
碳钢 合金钢（S45C、SCM440等）	HB180-280	ZC251	200 (160-250)	0.2 (0.1-0.3)
		ZP152	180 (100-250)	
		ZN60	140 (80-200)	
	HB280-350	ZP152	120 (80-160)	0.15 (0.1-0.2)

	工件材料 Workpiece material	硬度 hardness	刀片材料	切削速度 (m/min)	每刃进给量 (mm/tooth)
M	不锈钢（奥氏体类 SUS304等）	≤HB200	ZP152	150 (100-200)	0.2 (0.1-0.3)
K	铸铁（FC300、FCD400等）	抗拉强度 ≤450MPa	ZK50	175 (100-250)	0.2 (0.1-0.3)
			ZK501	160 (100-220)	
N	铝合金		PCD	1000 (200-1500)	0.15 (0.05-0.25)
			ZK10	650 (300-1000)	0.12 (0.05-0.2)

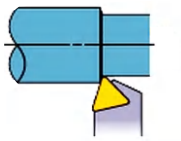
刀具转速（min-1）=（1000x切削速度）÷（3.14x刀具切削刃直径）
机床工作台进给量（mm/min）=每刃进给量x刀具刃数x刀具转速



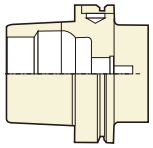
R29 平面铣削加工的计算式
Calculation formula for flat milling machining



R30 孔加工的计算式
Calculation formula for hole machining



R31-R32 车削加工的计算式
Calculation formula for turning machining



R33-R35 NC工具柄部尺寸图
Dimensional drawing of NC tool handle



R36 丝锥加工中常出现的问题及对策
Common problems and countermeasures in tap machining



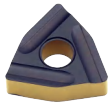
R37-R40 材料横向对比表
Material Horizontal Comparison Table



R41 镗刀系统组合图
Combination diagram of boring tool system



R42 УиП 数控车刀表达方式
Expression of УиП CNC Turning Tools



R43 УиП 数控车刀片表达方式
Expression of УиП CNC lathe blade

УиП

R44 品牌刀具材质对照表
Brand Tool Material Comparison Table

切削公式计算

转速 Spindle Speed	$S=\frac{1000\times Vc}{\pi\times D}$	Vc:线速度 m/min	D:刀体直径 mm	π:圆周率
线速度 Velocity	$Vc=\frac{\pi\times D\times S}{1000}$	π:圆周率	D:刀体直径 mm	S:每分钟转速 rev/min
进给速率 Feed rate	$F=Fz\times S\times Z$	Fz:每齿进给量 mm/z	S:每分钟转速 rev/min	Z:齿数
每齿进给 Feed engagement	$Fz=\frac{F}{S\times Z}$	F:进给速度 mm/min	S:每分钟转速 rev/min	Z:齿数
加工时间 Process time	$T=\frac{L}{F}$	L:走刀距离 mm	F:进给速度 mm/min	
金属去除率 Metal removal rate	$Q=\frac{Ae\times Ap\times F}{1000}$	Ae:切削宽度 mm	Ap:切削深度 mm	F:进给速度 mm/min

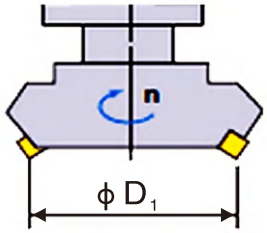
平面铣削加工的计算式

■切削速度(vc)

$$vc=\frac{\pi \cdot D_1 \cdot n}{1000}\ (m/min)$$

vc (m/min) :切削速度　　D_1 (mm) :铣刀直径
π (3.14) :圆周率　　n (min^{-1}) :主轴转速

*用1000去除，为将mm换算成m



（例题）主轴转速350min^{-1}、铣刀直径ϕ125，求此时的切削速度。

（答）π=3.14，DC=125，n=350代入公式

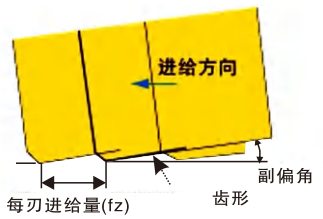
$$vc=\frac{\pi \cdot D_1 \cdot n}{1000}=\frac{3.14 \cdot 125 \cdot 350}{1000}=137.4m/min$$

切削速度为137.4m/min

■每刃进给量(fz)

$$fz=\frac{vf}{z \cdot n}\ (mm/tooth)$$

fz (mm/t.): 每刃进给量　　vf (mm/min):每分钟工作台进给速度
n (min^{-1}): 主轴转速 (每转进给量 f=zxfz)　　z:刃数



（例题）主轴转速500min^{-1}、铣刀刃数10刃，工作台进给速度500mm/min，求些时每齿进给量。

（答）　由公式、

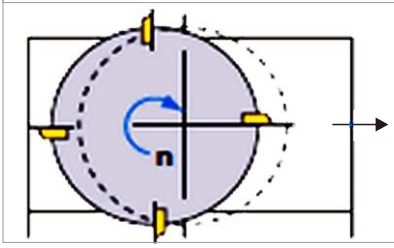
$$fz=\frac{vf}{z \cdot n}=\frac{500}{10 \cdot 500}=0.1mm/tooth$$

求出每齿进给量为0.1mm/tooth。

■工作台进给速度(vf)

$$vf=f \cdot z \cdot n\ (mm/min)$$

fz (mm/min):每刃进给量　　vf (mm/min):每分钟工作台进给速度
n (min^{-1}):主轴转速 (每转进给量 f=zxfz)　　z:刃数



（例题）每刃进给量0.1mm/齿，铣刀刃数10齿、主轴转速500min^{-1}，求工作台进给速度?

（答）由公式

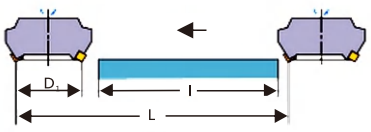
$$vf=fz \times z \times n=0.1 \times 10 \times 500=500mm/min$$

求出工作台进给速度为500mm/min。

■加工时间(Tc)

$$Tc=\frac{L}{Vf}\ (min)$$

Tc (min):加工时间　　vf (mm/min):每分钟工作台进给速度
L (mm) :工作台总进给长度 (工件长度 (l) + 铣刀直径 (D_1))



（例题）铸铁(FC200)平板宽100mm、长300mm。面铣刀直径ϕ200、刃数16、切削速度125m/min、每齿进给量0.25mm，求所需加工时间（主轴转速200min−1）。

（答）首先求出工作台每分钟进给速度、vf=0.25×16×200=800mm/min
再求出工作台总进给长度L=300+200=500mm代入公式

$$Tc=500 \div 800=0.625\ (min)$$

0.625×60=约37.5秒

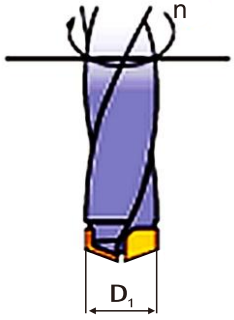
孔加工的计算公式

■切削速度(vc)

$$vc=\frac{\pi \cdot D_1 \cdot n}{1000}\ (m/min)$$

vc (m/min) :切削速度　　D_1 (mm) :铣刀直径
π (3.14) :圆周率　　n (min^{-1}) :主轴转速

*用1000去除，为将mm换算成m



（例题）主轴转速1350min^{-1}、钻头直径φ12，求切削速度。

（答）将π=3.14，DC=12，n=1350代入公式

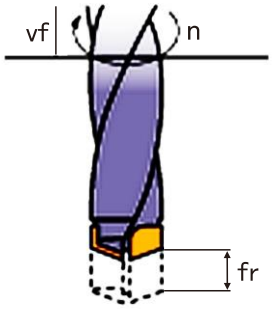
$$vc=\frac{\pi \cdot D_1 \cdot n}{1000}=\frac{3.14\times12\cdot1350}{1000}=50.9m/min$$

据此，得出切削速度为50.9m/min。

■主轴进给量(vf)

$$vf=f \cdot n\ (mm/min)$$

vf(mm/min) :主轴(Z轴)进给速度
fr(mm/rev) :每转进给量
n(min^{-1}) :主轴转速



（例题）主轴转速1350min^{-1}、钻头直径φ12，求切削速度。

（答）代入公式

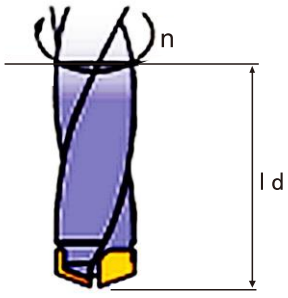
$$vf=fr\times n=0.2\times1350=270mm/min$$

由此得出主轴每分钟进给量为270mm/min。

■孔加工时间(Tc)

$$Tc=\frac{ld \cdot i}{n \cdot f}$$

Tc(min) :加工时间　　n(min^{-1}) :主轴转速
ld(mm) :钻孔深　　fr(mm/rev) :每转进给量



（例题）在SCM440钢上钻φ15、深30mm的孔。切削速度为50m/min、每转进给量为0.15mm/rev，求钻削时间。

（求）主轴转速 $n=\frac{50\times1000}{15\times3.14}=1061.57min^{-1}$

$$Tc=\frac{30\times1}{1061.57\times0.15}=0.188$$

$=0.188\times60=11.3$ 秒可钻削完毕。

车削加工的计算式

■所需功率(Pc)

$$Pc=\frac{ap\cdot f\cdot vc\cdot KC}{60\times10^{3}\times\eta}(Kw)$$

Pc(kW) :所需功率　ap(mm) :切削深度
f(mm/rev) :每转进给量　vc(m/min) :切削速度
Kc(MPa) :比切削力　η (机床效率系数)

（例题）以切削深度3mm，切削速度120m/min，进给量0.2mm/rev的切削条件，加工软钢，求所需功率（机床效率系数为80%）

（答）根据下表，将切削软钢的比切削力Kc=3100Pa代入公式得

$$Pc=\frac{3\times0.2\times120\times3100}{60\times10^{3}\times0.8}=4.65kW$$

●Kc值

工件材料	抗拉强度(MPa)或硬度	各种进给量的比切削力Kc(Mpa)				
		0.1(mm/rev)	0.2(mm/rev)	0.3(mm/rev)	0.4(mm/rev)	0.6(mm/rev)
软钢	520	3610	3100	2720	2500	2280
中硬钢	620	3080	2700	2570	2450	2300
硬钢	720	4050	3600	3250	2950	2640
工具钢	670	3040	2800	2630	2500	2400
工具钢	770	3150	2850	2620	2450	2340
铬锰钢	770	3830	3250	2900	2650	2400
铬锰钢	630	4510	3900	3240	2900	2630
铬钼钢	730	4500	3900	2400	3150	2850
铬钼钢	600	3610	3200	2880	2700	2500
铬钼钢	900	3070	2650	2350	2200	1980
铬镍钢	Hb352	3310	2900	2580	2400	2200
硬质铸铁	HRC46	3190	2800	2600	2450	2270
孕育铸铁	360	2300	1930	1730	1600	1450
灰铸铁	Hb200	2110	1800	1600	1400	1330

■切削速度(vc)

$$vc=\frac{\pi\cdot Dm\cdot n}{1000}(m/min)$$

vc(m/min) :切削速度　π（3.14）：圆周率
Dm(mm) :工件材料直径　n（min^{-1}）:主轴转速

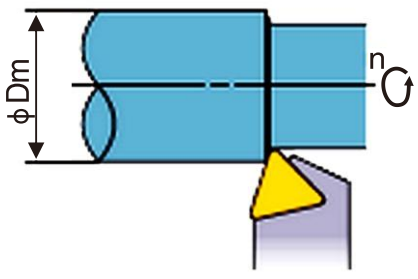
*用1000去除，为将mm换算成m

（例题）主轴转速700min^{-1}、工件直径φ50，求此时的切削速度。

（答）π=3.14、Dm=50、n=700代入公式

$$vc=\frac{\pi\cdot Dm\cdot n}{1000}=\frac{3.14\cdot50\cdot700}{1000}=110m/min$$

切削速度为110m/min



■进给量(f)

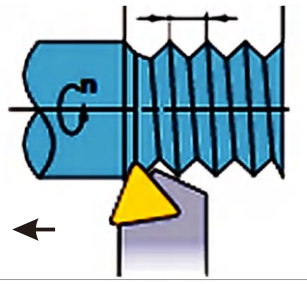
$f=\frac{l}{n}$ (mm/rev)	f(mm/rev) :没转进给量　l (mm/min) :每分钟切削长度　n(min^{-1}) :主轴转速

(例题) 主轴转速500min^{-1}、每分钟切削长度120mm/min，求此时的每转进给量

(答)　n=500、l=120代入公式

$$f=\frac{l}{n}=\frac{120}{500}=0.24mm/rev$$

每转进给量为0.24mm/rev



■切削时间(Tc)

$Tc=\frac{lm}{l}$ (min)	Tc(min) :切削时间　lm(mm):工件长度　l(mm/min) :每分钟切削长度

(例题) 长度100mm的工件，主轴转速1000min^{-1}、进给量 0.2mm/rev，求此时的切削时间。

(答)　首先根据进给量与主轴转速，求出每分钟切削长度l=f × n=0.2 × 1000=200 mm/min

将l代入公式

$$Tc=\frac{lm}{l}=\frac{100}{200}0.5min$$

0.5 × 60=30(sec)30秒

■理论表面粗糙度(h)

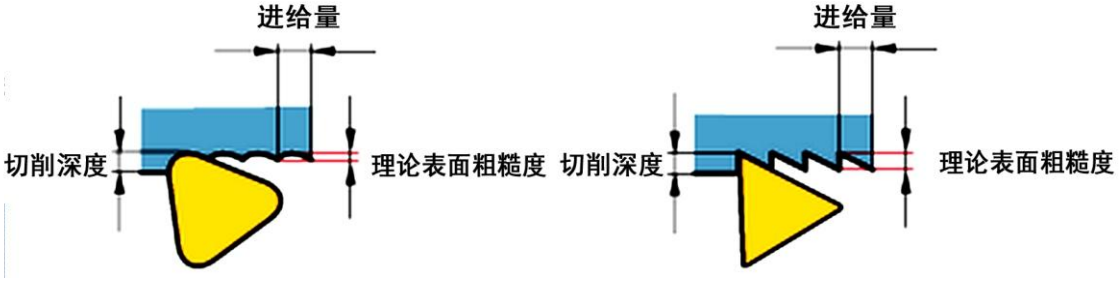
$h=\frac{f^2}{8Re}\times 1000(\mu m)$	h (μm):表面粗糙度　f (mm/rev):每转进给量　Re (mm):刀尖圆弧半径

(例题) 刀尖圆弧半径0.8mm、进给量为0.2mm/rev, 求理论表面粗糙度。

(答)　将f=0.2mm/rev、Re=0.8代入公式

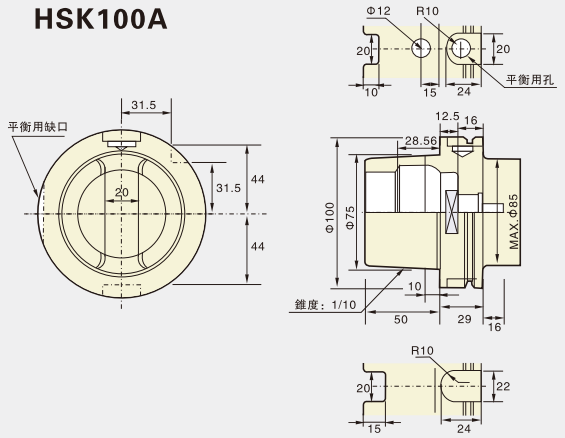
$$h=\frac{0.2^2}{8\times 0.8}\times 1000=6.25\mu m$$

理论表面粗糙度6μm

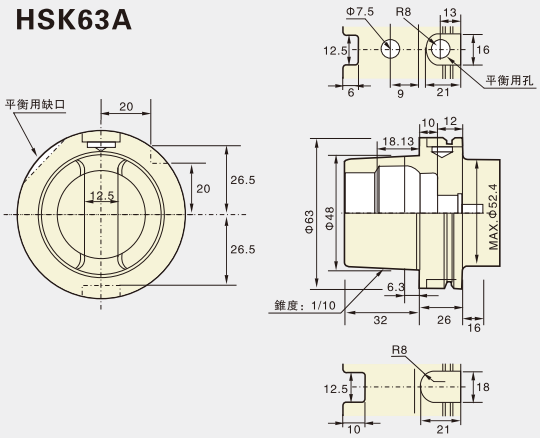


HSK工具柄部图

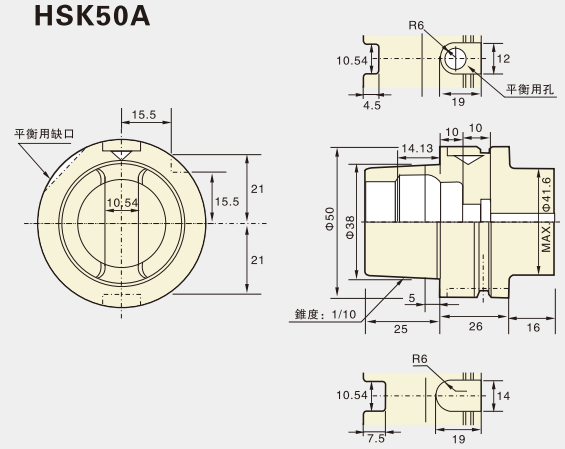
HSK100A



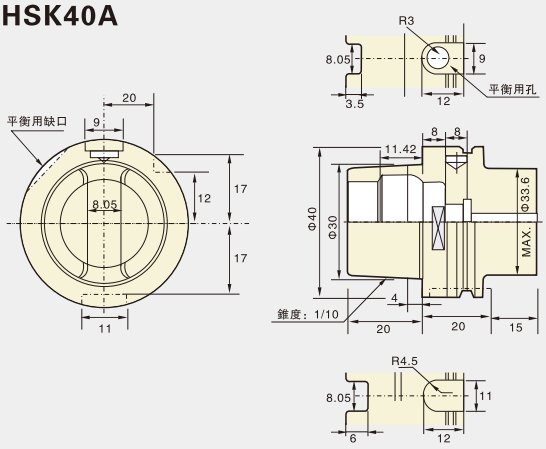
HSK63A



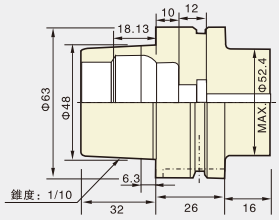
HSK50A



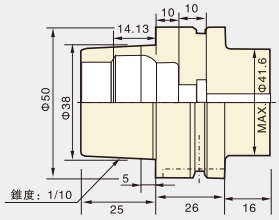
HSK40A



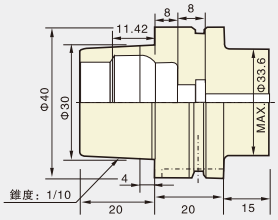
HSK63E



HSK50E

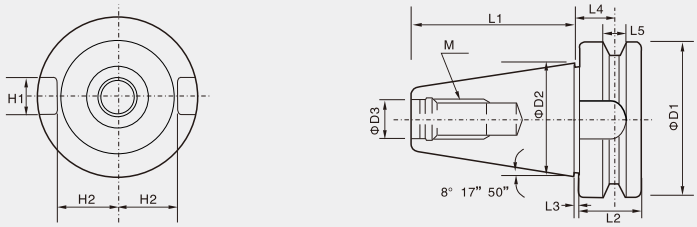


HSK40E



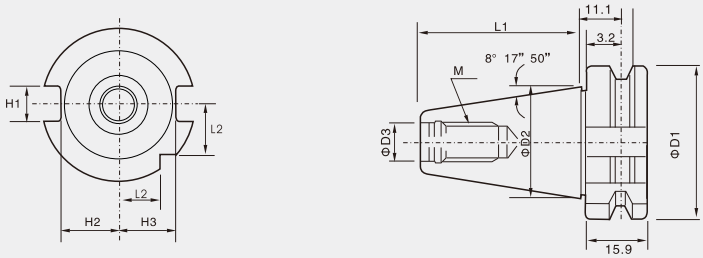
NC工具柄部图

BT 錐柄規格尺寸



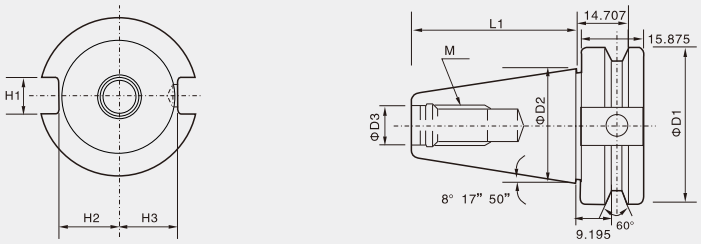
BT.NO	ΦD1	ΦD2	ΦD3	L1	L2	L3	L4	L5	H1	H2	M
BT30	46	31.75	12.5	48.4	20	2	13.6	8	16.1	16.3	M12
BT40	63	44.45	17	65.4	25		16.6	10		22.6	M16
BT50	100	69.85	25	101.8	35	3	23.2	15	25.7	35.4	M24

SK錐柄規格尺寸



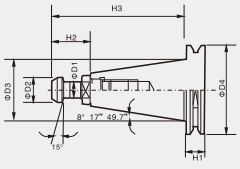
SK.NO	ΦD1	ΦD2	ΦD3	L1	L2	H1	H2	H3	M
SK40	63.55	44.45	17	68.4	18.5	16.1	22.8	25	M16
SK50	97.5	69.85	25	101.75	30	25.7	35.5	37.7	M24

CAT錐柄規格尺寸



CAT.NO	ΦD1	ΦD2	ΦD3	L1	H1	H2	H3	M
CAT40	63.5	44.45	16.28	68.25	16.28	22.6	25.02	5/8"–11UNC
CAT50	98.43	69.85	26.38	101.6	305.31	35.31	37.72	1"'–8UNC

ISO錐柄規格尺寸



ISO.NO	D1	D2	D3	D4	H1	H2	H3
ISO20	6	9	22.225	33	8	12	45.3
ISO25	7	10	25.4	37	8	16	55.7
ISO30	9	13	31.75	50	15.9	24	71.8

HSK刀具系统

HSK双面接触刀柄

常规7/24锥度刀柄可重复连接刚性和高速加工方面，具有局限性。新型的双面接触刀柄可避免常规7/24刀柄的局限性。

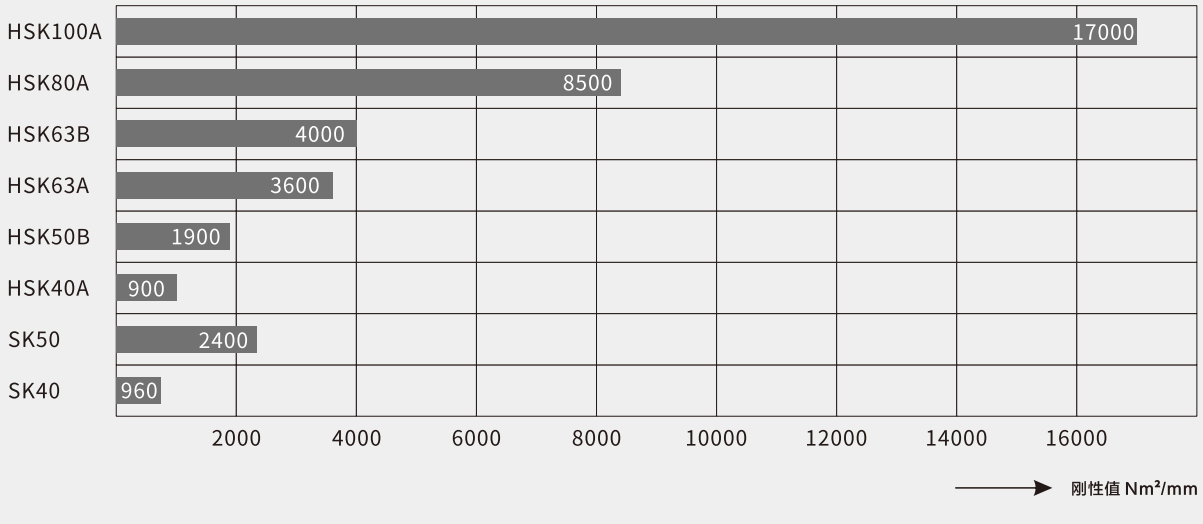
优良的重复跳动精度

由于刀柄锥部弹性变形与主轴完全紧贴，消除了偏心误差，同时由于刀柄锥部与主轴完全紧贴，抗弯曲强度提高，使得径向轴向精度也显著提高。

HSK刀具系统规格列表

	适用范围	25	32	40	50	63	80	100	125	160
HSK-A	一般加工、高扭力、中转速、自动换刀	--	●	●	●	●	●	●	●	●
HSK-B	一般加工、中扭力、中转速、自动换刀	--	--	●	●	●	●	●	●	●
HSK-C	一般加工、高扭力、中转速、手动换刀	--	●	●	●	●	●	●	●	●
HSK-D	一般加工、中扭力、高转速、手动换刀	--	--	●	●	●	●	●	●	--
HSK-E	精密加工、高速切削、高转速、低扭力、自动换刀	●	●	●	●	●	--	--	--	--
HSK-F	软料加工、低扭力、中转速、自动换刀	--	--	--	●	●	●	--	--	--

不同刀柄的刚性值



丝锥加工中常出现的问题及对策

机用丝锥攻丝常见问题、产生原因与解决方法

序号	发生问题	发生原因	解决方法
一	丝锥折断	1. 螺纹底孔选择偏小 2. 排屑不好，切屑堵塞 3. 攻不通孔螺纹，钻孔深度不够 4. 攻丝切削速度太高 5. 攻螺纹丝锥与底孔不同轴 6. 丝锥刃磨参数选择不合适 7. 工件硬度不稳定 8. 丝锥过度磨损	1. 尽量加大底孔直径 2. 刃磨刃倾角或选用螺旋槽丝锥 3. 加大钻孔深度 4. 适当降低速度 5. 校正夹具，选用浮动攻丝卡头 6. 增大丝锥前角，缩短切削锥长度 7. 控制工件硬度，选用保险卡头 8. 及时更换丝锥
二	丝锥崩齿	1. 丝锥前角选择过大 2. 丝锥每齿切削厚度过大 3. 丝锥硬度过高 4. 丝锥磨损	1. 适当减小前角 2. 适当增加切削锥长度 3. 适当降低硬度 4. 及时更换丝锥
三	丝锥磨损太快	1. 攻丝切削速度太高 2. 丝锥刃磨参数选择不当 3. 切削液选择不合适 4. 工件材料硬度太高 5. 丝锥刃磨丝烧伤	1. 适当降低切削速度 2. 适当减小前角，加长切削锥长度 3. 选用润滑性好的切削液 4. 工件进行适当热处理 5. 正确刃磨丝锥
四	螺纹中径太大	1. 丝锥精度选择不当 2. 切削液选择不当 3. 攻丝切削速度太高 4. 攻螺纹丝锥与底孔不同轴 5. 丝锥刃磨参数选择不当 6. 丝锥刃磨时产生毛刺 7. 丝锥切削锥长度太短	1. 选择适当精度的丝锥 2. 选择适当切削液 3. 适当降低切削速度 4. 校正夹具，选用浮动攻丝卡头 5. 适当减小前角与切削锥后角 6. 清理刃磨丝锥产生的毛刺 7. 适当增加切削锥长度
五	螺纹中径太小	1. 丝锥精度选择不当 2. 丝锥刃磨参数选择不当 3. 切削液选择不当	1. 选择适当精度的丝锥 2. 适当加大丝锥前角与切削锥角 3. 选用润滑性好的切削液
六	螺纹表面不光滑，有波纹	1. 丝锥刃磨参数选择不当 2. 工件材料太软 3. 丝锥刃磨不良 4. 切削液选择不当 5. 攻丝切削速度太高 6. 丝锥磨损	1. 适当加大前角，减小切削锥角 2. 进行热处理，适当提高工件硬度 3. 保证丝锥前刀面较好粗糙度 4. 选用润滑性好的切削液 5. 适当降低切削速度 6. 更换磨损丝锥

机用丝锥攻丝常见问题、产生原因与解决方法

问题	可能的原因	改进措施	有无必要进行丝锥验证
内螺纹中径过大（螺纹塞规止端过）	丝锥选择不当	1、选用适宜精度的丝锥　2、适量增加切削锥的长度	不需验证丝锥，检查丝锥是否与工艺要求相符
	丝锥与塞规不匹配	选择相匹配的丝锥型号与螺纹塞规精度（如H1的丝锥配4H5H的塞规）	不需验证丝锥，查看丝锥与螺纹塞规的标识
	切削阻塞	1、使用螺旋槽丝锥、刃倾角丝锥　2、采用容屑槽槽数少、容积大的丝锥 3、尽量加大底孔直径　4、底孔为盲孔时尽量加大底孔深度 5、改变切削液的种类或给注方法	按目前的工艺规程该项暂不考虑，只有新工艺验证时会出现类似情况
	加工条件不适当	1、调整切削速度　2、防止丝锥与底孔不同轴 3、丝锥或被切削材料采用浮动固定方式　4、采用合适的切削速度防止出现过切 5、采用强制进给方式　6、选用加工能力合适的机床 7、防止丝锥振动	目前使用条件合适且这些因素可逐一排查，不需验证丝锥
	粘结	1、选用经氧化处理或其它表面处理的丝锥　2、选用抗粘结性好的切削液 3、降低切削速度　4、改变丝锥前角使之适合被加工材料	不需验证丝锥，要求操作者定期检查丝锥，另今年将推广涂层丝锥的应用
	丝锥刃磨不当	1、容屑槽的分度要正确　2、不要把丝锥前角及切削锥角磨的太大 3、避免刃刃厚度过小　4、除掉刃磨时的毛刺	在我厂没用丝锥刃磨问题
	丝锥尺寸超差	检测丝锥中径及牙型角	采用手动攻丝验证并检测丝锥中径及牙型角
其它因素都正常但“止”端过	丝锥将螺纹牙侧的上部、下侧、两侧同时切除过多的材料	1、非丝杠进给机床要定期检查主轴花键配合处的间隙以减少攻丝时的阻力或减少主轴的进给量； 2、丝杠进给机床必须周期性地调整和检查丝杠与丝杠螺母之间的间隙	1、用手动攻丝的方法验证丝锥是否能加工出合格螺纹 2、采用调换加工工位、调换加工部位的方法验证丝锥是否能加工出合格螺纹 3、检测丝锥中径及牙型角
内螺纹中径过小（螺纹塞规通端过）	丝锥选择不当	1、选用尺寸加大型丝锥　2、选用适宜的切削锥角　3、加大前角	
	内螺纹划伤	选用适当的反转退刀速度	
	内螺纹中有切屑残留	1、提高丝锥的锋利度，防止出现须状切屑 2、在完全清除掉残留的切屑后再使用螺纹塞规检查	
其它因素都正常但“通”端不过	由于丝锥夹头的总重量以及机床主轴对丝锥推力的作用，造成了牙型挤压变形或捣烂。致使塞规“通”端进不去	用丝锥手动再把螺纹孔攻一下	

材料横向对比表

ISO	Country and Standard/国家和标准									
	China	USA	Germany		Great Britain	Sweden	France	Italy	Spain	Japan
	中国	美国	德国		英国	瑞典	法国	意大利	西班牙	日本
	GB	AISI/SAE	W.nr	DIN	BS EN	SS	AFNOR	UNI	UNE	JIS
P	**Tool steel/工具钢**									
	T10	W.110	1.1545	C105W1	–	–	1880	$Y_1$105	C98KU C100KU	F.515 F.516	–
	T12A	W.112	1.1663	C125W	–	–	–	$Y_2$120	C120KU	(C120)	SK2
	CrV;9SiCr	L3	1.2067	100Cr6	BL3	–	–	Y100C6	–	100Cr6	–
	Cr12	D3	1.2080	X210CM2	BD3	–	–	Z200CM2	X210CM3KU X250CM2KU	X210Cr12	SKD1
	4Cr5MoVSi	H13	1.2344	X40CrMoV5 1	BH13	–	2242	Z40CDV5	X35CrMoV05KU X40CrMoV51KU	X40CrMoV5	SKD61
	Cr6WV	A2	1.2363	X100CrMoV5 1	BA2	–	2260	Z100CDV5	X100CrMoV51KU	X100CrMoV5	SKD12
	CrWMo	–	1.2419	105WCr6	–	–	2140	105WC13	10WCr6 107WCr5KU	105WCr5	SKS31 SKS2 SKS3
	Cr12W	–	1.2436	X210CrW12	–	–	2312	–	X215CrW12 1KU	X210CrW12	SKD2
	5CrNiMo	S1	1.2542	45WCrV7	BS1	–	2710	–	45WCrV8KU	45WCrSi8	–
	3Cr2W8V	H21	1.2581	X30WCrV93 X30WCrV93KU	BH21	–	–	Z30WCV9	X28W09KU X30WCrV9 3KU	X30WCrV9	SKD5
	Cr12MoV	–	1.2601	X165CrMoV 12	–	–	2310	–	X165CrMoW12KU	X160CrMoV12	SKD11
	5CrNiMo	L6	1.2713	55NiCrMoV6	–	–	–	55NCDV7	–	F.250.S	SKT4
	V	W210	1.2833	100V1	BW2	–	–	$Y_1$105V	–	–	SKS43
	W6Mo5Cr4V2Co5	–	1.3243	S6–5–2–5	–	–	2723	Z85WDKCV	HS6–5–2–5	HS6–5–2–5	SKH55
	W18Cr4VCo5	T4	1.3255	S18–1–2–5	BT4	–	–	Z80WKCV 10–05–04–01	X78WCo1805KU	HS18–1–1–5	SKH3
	W6Mo5Cr4V2	M2	1.3343	S6–5–2	BM2	–	2722	Z85WDCV 06–05–04–02	X82WMo0605KU	HS6–5–2	SKH9
	–	M7	1.3348	S2–9–2	–	–Z–	2782	Z100WCWV 09–02–04–02	HS2–9–2	HS2–9–2	–
	W18Cr4V	T1	1.3355	S18–0–1	BT1	–	–	Z80WCV 18–04–01	X75W18KU	HS18–0–1	SKH2
	W6Mo5Cr4V3	M3	–	S6–5–3	–	–	–	–	–	–	SKH52
	–	M42	–	–	BM42	–	–	–	–	–	SKH59

材料横向对比表

ISO	Country and Standard/国家和标准					
	China/中国	USA/美国	Germany /德国	Japan/日本	Daido Steel Co.,Ltd (Japan)/日本	Main application
	GB	AISI/SAE	DIN	JIS	DAIDO	
P	**Plastic die steel/塑料模具钢**					
	–	P20 mod.		–	PX5N	For mass production of large mirror dies. Automobile tail light, front fender of car, video camera, household electrical appliances etc
	–	–		–	NAK55	High precision mirror die. Video camera, music disc, Cosmetic Containers, transparent covers, transparent films etc
	–	–		–	NAK80	For high precision mirror dies. Video camera, music disc, Cosmetic Containers,transparent covers, transparent films etc
	3Cr13	420 mod.		SUS420J2 mod.	S-STAR	For ultra-mirror corrosion resistant precise dies. Accessories of camera, CD, lens, watch case.
	Cold-working die steel/冷作模具钢					
	–	02	–	SKS93	YK30	Stamping die, gauge calipers, paper cutter, auxiliary tools
	9CrWMn	01 mod.	–	SKS3 mod.	GOA	Blanking die, gauge calipers, drawing die, taps, Perforated punch.
	Cr12MoV	D2	X165CrMoV12	SKD11	DC11	Blanking die, cold forming die, cold drawing die, forming roller, punch
	–	D2 mod.	–	SKD11 mod.	DC53	Blanking die, cold forming die, cold drawing die, forming roll, punch
	Hot-working die steel/热作模具钢					
	4Cr5MoSiV1	H13	X40CrMoV51	SKD61	DHA1	Aluminum compression die, connecting parts of compression die, hot stamping die, hot extrusion die, thermal shear cutting blade
	–	–	–	–	DH21	Long life Aluminum compression die
	–	–	–	–	DH31-S	Compression die
	–	–	–	–	DH2F	Compression die, plastic die

材料横向对比表

ISO	Country and Standard/国家和标准										
	China	USA	Germany		Great Britain		Sweden	France	Italy	Spain	Japan
	中国	美国	德国		英国		瑞典	法国	意大利	西班牙	日本
	GB	AISI/SAE	W.nr	DIN	BS	EN	SS	AFNOR	UNI	UNE	JIS
M	**Stainless steel /不锈钢**										
	0Cr13; 1Cr12	403	1.4	X6Cr13	403S17	–	2301	Z6C13	X6Cr13	F.3110	SUS403
	–	–	1.4001	X7Cr14	–	–	–	–	–	F.8401	–
	1Cr13	410	1.4006	X10Cr13	410S21	56A	2302	Z10C14	X12CM3	F.3401	SUS410
	1Cr17	430	1.4016	X6Cr17	430S15	60	220	Z8C17	X8Cr17	F.3113	SUS430
	2Cr13	410	1.4021	X20Cr13	S62	56B;56C	–	Z20C13	X20C13	F.3401	SUS410
	–	–	1.4027	G–X20Cr14	420C29	56B	–	Z20C13M	–	–	SCS2
	4Cr13	–	1.4034	X46Cr13	420S45	56D	2304	Z40CM Z38C13M	X40Cr14	F.3405	SUS420J2
	1Cr17Ni2	431	1.4057	X20CrNi172	431S29	57	2321	Z15CNi6.02	X16CNi6	F.3427	SUS431
	Y1Cr17	430F	1.4104	X12CrMoS17	–	–	2383	Z10CF17	X10CrS17	F.3117	SUS430F
	1Cr17Mo	434	1.4113	X6CrMo171	434S17	–	2325	Z8CD17.01	X8CrMo17	–	SUS434
	–	–	1.4313	X5CrNi134	425C11	–	–	Z4CND13.4M	–	–	SCS5
	–	–	1.4408	G–X6CrNiMo1810	316C16	–	–	–	–	F.8414	SCS14
	4Cr9Si2	HW3	1.4718	X45CrSi93	401S45	52	–	Z45CS9	X45CrSi8	F.322	SUH1
	0Cr13Al	405	1.4724	X10CrAl13	403S17	–	–	Z10C13	X10CrAl12	F.311	SUS405
	Cr17	430	1.4742	X10CrAl18	430S15	60	–	Z10CAS18	X8Cr17	F.3113	SUS430
	8Cr20Si2Ni	HNV6	1.4757	X80CrNiSi20	443S65	59	–	Z80CSN20.02	X80CrSiNi20	F.320V	SUH4
	2Cr25N	446	1.4762	X10CrAl24	–	–	2322	Z10CAS24	X16Cr26	–	SUH446
	Austenitic stainless steel/奥氏体不锈钢										
	0Cr18Ni9	304	1.4301	X5CrNi1810	304S15	58E	2332	Z6CN18.09	X5CrNi1810	F.3551; F.3541; F.3504	SUS304
	1Cr18Ni9MoZr	303	1.4305	X10CrNiS189	303S21	58M	2346	Z10CNF18.09	X10CrNiS18.09	F.3508	SUS303
	0Cr19Ni10	304L	1.4306	X2CrNi1911	304S12	–	2352	Z2CN18.10	X2CrNi18.11	F.3503	SCS19
	–	–	1.4308	G–X6CrNi189	304C15	–	–	Z6CN18.10M	–	–	SCS13
	Cr17Ni7	301	1.431	X12CrNi177	–	–	2331	Z12CN17.07	X12CrNi1707	F.3517	SUS301
	–	304LN	1.4311	X2CrNiN1810	304S62	–	2371	Z2CN18.10	–	–	SUS304LN
	0Cr19Ni9	304	1.435	X5CrNi189	304S31	58E	–	Z6CN18.09	X5CrNi1810	–	SUS304
	0Cr17Ni11Mo2	316	1.4401	X5CrNiMo1712	316S16	Z6CND17.11	2347	1.4401	X5CrNiMo1712	F.3543	SUS316
	00Cr17Ni13Mo2	316LN	1.4429	X2CrNiMoN17133	–	–	2375	Z2CND17 13	–	–	SUS316LN
	0Cr27Ni12Mo3	316L	1.4435	X2CrNiMo18143	316S12	–	2353	Z2CDN1713	X2CrNiMo1713	–	SCS16,
	00Cr19Ni13Mo3	317L	1.4438	X2CrNiMo17133	317S12	–	2367	Z2CND19.15	X2CrNiMo18.16	–	SUS317L
	–	329L	1.446	X8CrNiMo275	–	–	2324	–	–	–	SUS329L; SCH11; SCS11
	1Cr18Ni9Ti	321	1.4541	X6CrNiTi1810	2337	321S12	58B	Z6CNT18.10	X6CrNiTi1811	F.3553	SUS321
	1Cr18Ni11Nb	347	1.455	X6CrNiNb1810	347S17	58F	2338	Z6CNNb18.1	X6CrNiTi1811	F.3552	SUS347
	Cr18Ni12Mo2Ti	316Ti	1.4571	X6CrNiMoTi17122	320S17	58J	2350	Z6NDT17.12	X6CrNiMoTi17	F.3535	–

材料横向对比表

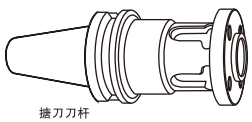
ISO	Country and Standard/国家和标准										
	China	USA	Germany		Great Britain		Sweden	France	Italy	Spain	Japan
	中国	美国	德国		英国		瑞典	法国	意大利	西班牙	日本
	GB	AISI/SAE	W.nr	DIN	BS	EN	SS	AFNOR	UNI	UNE	JIS
M	**Austenitic stainless steel/奥氏体不锈钢**										
	–	–	1.4581	G–X5CrNiMoNb1810	318C7	–	–	Z4CNDNb1812M	XG8CrNiMo18	–	SCS22
	Cr17Ni12Mo3Nb	318	1.4583	X10CrNiMoNb1812	–	–	–	Z6CNDNb1713B	X6CrNiMoTiNb17	–	–
	1Cr23Ni13	309	1.4828	X15CrNiSi2012	309S24	–	–	Z15CNS20.1	–	–	SUH309
	0Cr25Ni20	310S	1.4845	X12CrNi2521	310S24	–	2361	Z12CN2520	X6CrNi2520	F.331	SUH310
	Cr15Ni36W3Ti	330	1.4864	X12NiCrSi3616	–	–	–	Z12CNS35.1	–	–	SUH330
	–	–	1.4865	G–X40NiCrSi3818	330C11	–	–	–	XG50NiCr3919	–	SCH15
	5Cr2Mn9Ni4N	EV8	1.4871	X53CrMnNiN219	349S54; 321S12	– 58B	–	Z52CMN21.0	X53CrMnNiN219	–	SUH35
	1Cr18Ni9Ti	321	1.4878	X12CrNiTi189	321S320	58C	–	Z6CNT18.12	X6CrNiTi1811	F.3523	SU321

ISO	Country and Standard/国家和标准										
	China	USA	Germany		Great Britain		Sweden	France	Italy	Spain	Japan
	中国	美国	德国		英国		瑞典	法国	意大利	西班牙	日本
	GB	AISI/SAE	W–nr	DIN	BS	EN	SS	AFNOR	UNI	UNE	JIS
K	**Nodular cast iron/球墨铸铁**										
	QT400–18	60–40–18	GGG40	400/17	0717–02		FGS370–17	GS370–17	FGE38–17		FCD400
	QT450–10	65–45–12	–	420/12	–		FGS400–12	GS400–12	FGE42–12		FCD450
	QT500–7	70–50–05	GGG50	500/7	0727–02		FGS500–7	GS500–7	FGE50–7		FCD500
	QT600–3	80–60–03	GGG60	600/7	0732–03		FGS600–2	GS600–2	FGE60–2		FCD600
	QT700–2	100–70–03	GGG70	700/2	0737–01		FGS700–2	GS700–2	FGE70–2		FCD700
	QT800–2	120–90–02	GGG80	800/2	0864–03		FGS800–2	GS800–2	FGE80–2		FCD800
	QT900–2	–	–	900/2	–		–	–	–		–
	Nodular cast iron/球墨铸铁										
	–	NO.60	GG40	—	0140		FGL400	–	–		–
	HT350	NO.50	GG35	350	0135		FGL350	G35	FG35		FC350
	HT300	NO.45	GG30	300	0130		FGL300	G30	FG30		FC300
	HT250	NO.35	GG25	250	0125		FGL250	G25	FG25		FC250
	HT200	NO.30	GG20	200	0120		FGL200	G20	FG20		FC200
	HT150	NO.20	GG15	150	0115		FGL150	G15	FG15		FC150
	HT100	–	–	100	0110		–	G10	–		FC100

镗孔头组合图示 ROUGH HEAD COMBINATION ICON

搪刀搭配系統
Modular Boring System

BST系統
BST Boring System


搪刀刀杆
Taper Shan
K28

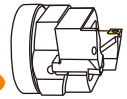


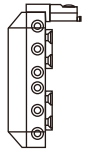
K20

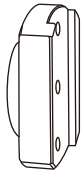
200以上CBH 組合式大徑微調精搪刀
Large Diameter Finish Boring Head

K16

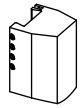
200以上RBH組合式大徑雙刃粗搪刀
Large Diameter Roug Boring Head

K15

RBH120,160可調式雙刃粗搪刀
RBH Indexable Rough Boring Head

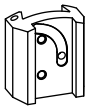
K22

WBST四方柄大徑搪刀內外圓加工用
WBST Quartet knife handle large-diameter cylindrical processing sugar


連接器
Flange

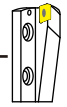

横向滑板
Extension Slide


平衡滑塊
Balance Weight


微調滑塊
Finish Head

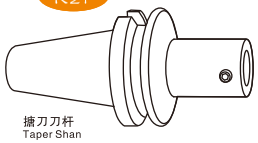

滑塊
Clamp Base

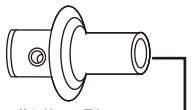

刀片座墊片
Height Setting Shin

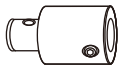

刀片座
Insert Holder

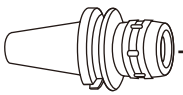
BORING CUTTER SYSTEM

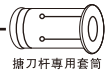
LBK系統
LBK Boring System

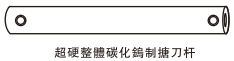
K21

搪刀刀杆
Taper Shan

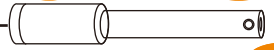
K27

等徑搪刀延長杆
Extenstion(Constant Diameter)

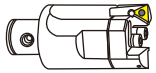

异徑搪刀延長杆
Extenstion(Reducing)
K27

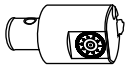
C09

直筒式立銑刀夾頭
Power Chuck Holder

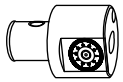

搪刀杆專用套筒
Collet
K24


超硬整體碳化鎢制搪刀杆
Super Hard Solid Tungsten Carbide Boring Bor
K24


直柄搪刀杆
Straight Shank Boring Bar
K24

K15

SBH可調式雙刃粗搪刀系列
Twin-bit Rough Boring Head SBH


WBH微調精搪刀
WBH Finish Boring Head
K19


NBJ16小徑微調精搪刀系列
NBJ16 Small Diameter Finish Boring Head
K26



K23

組合式外圓搪孔
Combined cylindrical boring

K23

小徑搪刀延長杆
Small Diameter Boring Bar

K23

超小徑碳化鎢搪孔刀
Small Diameter Boring Bar

K23

小徑搪刀杆
Small DiameterBoring Bo

K24

套筒
Collet

K24

組合式小徑搪刀杆
Tool t Holder

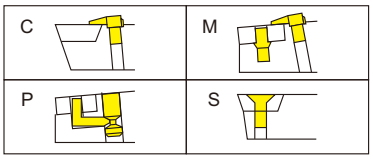
K24

搪孔頭
Insert Holder

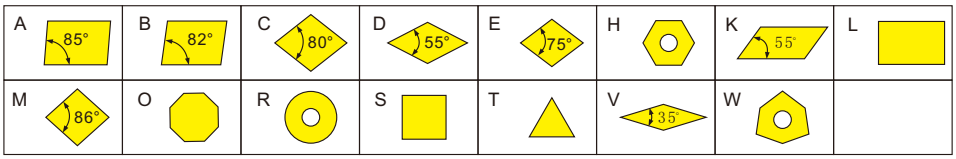
M	C	L	N	R		2	5	2	5	M	1	2		*
1	2	3	4	5		6	7	8	9	10	11	12		13

S	16	Q		S	C	L	C	R	0	9		18	*
14	15	10		1	2	3	4	5	11	12		16	13

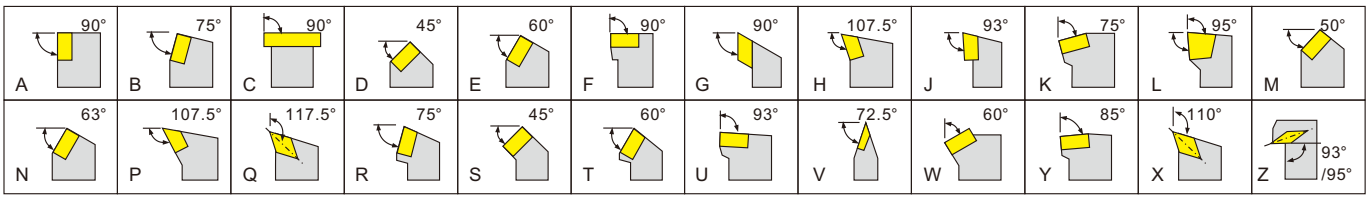
1 刀片夹持方式 TYPE OF LOCKING



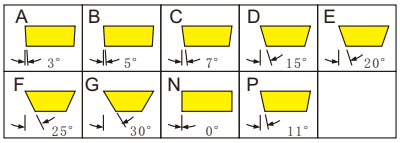
2 刀片形状 INSERT SHAPE



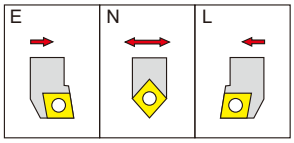
3 刀杆切入角 TYPE OF TOOL



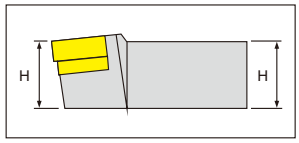
4 刀片逃隙角 RAKE ANGLES



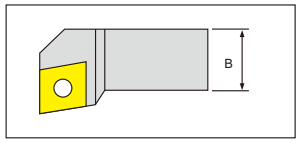
5 方向 HAND OF TOOL



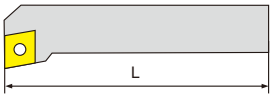
6/7 刀柄高度 SHANK HEIGHT



8/9 刀柄宽度 SHANK WIDTH

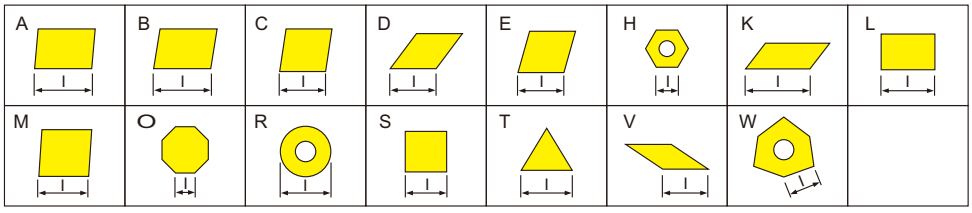


10 刀柄长度 TOOL LENGTH



A	32	N	160
B	40	P	170
C	50	Q	180
D	60	R	200
E	70	S	250
F	80	T	300
G	90	U	350
H	100	V	400
J	110	W	450
K	125	Y	500
L	140	X	SPECIAL
M	150		

11/12 切刃长 CUTTING EDGE LENGTH



13 特殊注记 OPTIONAL CODE

任意识别记号或数字
INSERTS R-S

14 刀柄 SHANK

S=钢柄 Steel shank
A=钢柄+中心水孔 Steel shank+ciilant hole
B=抗震钢柄 Steelshank+device anti-vvibration
C=钨钢柄 Cemented carbide shank with steel head
D=抗震钢柄+中心水孔 Steel shank+device anti-ibration+coolant hole
E=钨钢柄+中心水孔 Cemented carbide shank with steel head+coolant hole
F=抗震钨钢柄 Cemented carbide shank with steel head+device anti-vibration
G=抗震钨钢柄+中心水孔 Cemented carbide shank with steel head+device anti-vibration+coolant hole
H=重金属 Heavy metal shank
J=重金属+中心水孔 Heavy metal shank+coolant hole

15 刀杆的直径 ARBOR DIAMETER

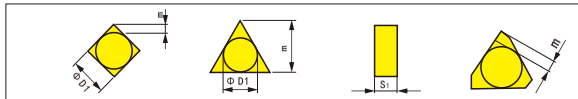
16 最小加工径 MINIMUM PROCESSING DIAMETER

■刀片型号编制说明

(各品牌表示稍有差异,本页仅供参考!)

代号	刀片形状
H	正六角形
O	正八角形
P	正五角形
S	正方形
T	正三角形
C	菱形顶角80°
D	菱形顶角55°
E	菱形顶角75°
F	菱形顶角50°
M	菱形顶角86°
V	菱形顶角35°
W	等边不等角六角形
L	长方形
A	平行四边形顶角85°
B	平行四边形顶角82°
K	平行四边形顶角55°
R	圆形

①形状代号



精度代号

代号	刀尖高度允差m(mm)	内接圆允差 ΦD1(mm)	厚度允差 S1(mm)
A	±0.005	±0.025	±0.025
F	±0.005	±0.013	±0.025
C	±0.013	±0.025	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
J	±0.005	±0.05-±0.15	±0.025
K*	±0.013	±0.05-±0.15	±0.025
L*	±0.025	±0.05-±0.15	±0.025
M*	0.08-±0.18	±0.05-±0.15	±0.13
N*	±0.08-±0.18	±0.05-±0.15	±0.025
U*	±0.13-±0.38	±0.08-±0.25	±0.13

印*表示其侧面不研磨的刀片

(参考)M级精度详细情况(按形状、大小分)

●刀尖高度允差(mm)

内接圆	正三角形	正方形	80°菱形	55°菱形	35°菱形	圆形
6.35	±0.08	±0.08	±0.08	±0.11	±0.18	-
9.525	±0.08	±0.08	±0.08	±0.11	±0.16	-
12.70	±0.13	±0.13	±0.13	±0.15	-	-
15.875	±0.15	±0.15	±0.15	±0.18	-	-
19.05	±0.15	±0.15	±0.15	±0.18	-	-
25.40	-	±0.18	-	-	-	-
31.75	-	±0.20	-	-	-	-

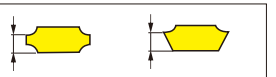
●内接圆ΦD1的允差(mm)

内接圆	正三角形	正方形	80°菱形	55°菱形	35°菱形	圆形
6.35	±0.05	±0.05	±0.05	±0.05	±0.05	-
9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
12.70	±0.08	±0.08	±0.08	±0.08	-	±0.08
15.875	±0.10	±0.10	±0.10	±0.10	-	±0.10
19.05	±0.10	±0.10	±0.10	±0.10	-	±0.10
25.40	-	±0.13	-	-	-	±0.13
31.75	-	±0.15	-	-	-	±0.15

③ 精度代号

刀片形状 R	W	V	D	C	S	L	内接圆(mm)
	02		04	03	03	06	3.97
	L3	08	05	04	04	08	4.76
	03	09	06	05	05	09	5.56
06							6.00
	04	11	07	06	06	11	6.35
	05	13	09	08	07	13	7.94
08							8.0
09	06	16	11	09	09	16	9.525
10							10.00
12							12.00
12	08	22	15	12	12	22	12.70
	10		19	16	15	27	15.875
16							16.00
19	13		23	19	19	33	19.05
20							20.00
			27	22	22	38	22.225
25							25.00
25			31	25	25	44	25.40
31			38	32	31	54	31.75
32							32.00

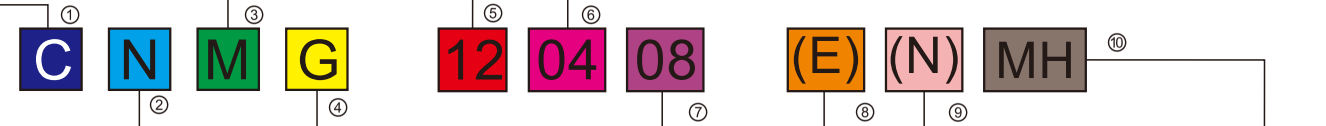
⑤切削长度代号和内接圆代号



●厚度指刀片底面与切削刃最高部分之间的高度。

代号	刀片厚度(mm)
S1	1.39
01	1.59
T0	1.79
02	2.38
T2	2.78
03	3.15
T3	3.97
04	4.76
06	6.35
07	7.94
09	9.52

⑥刀片厚度代号



② 后角代号

代号	后角(度)
A	3
B	5
C	7
D	15
E	20
F	25
G	30
N	0
P	11
O	其它的后角

④ 槽、孔代号

公 制

代号	有无孔	孔的形状	有无断屑槽	刀片剖面	代号	有无孔	孔的形状	有无断屑槽	刀片剖面
W	有	圆柱孔+单面倒角(40-60°)	无		A	有	圆柱孔	无	
T	有		单面		M	有	圆柱孔	单面	
Q	有	圆柱孔+双面倒角(40-60°)	无		G	有	圆柱孔	双面	
U	有		双面		N	无	-	无	
B	有	圆柱孔+单面倒角(70-90°)	无		R	无	-	单面	
H	有		单面		F	无	-	双面	
C	有	圆柱孔+双面倒角(70-90°)	无		X	-	-	-	特殊
J	有		双面						

⑦刀尖圆弧代号

代号	圆弧头半径(mm)
00	无圆角
V3	0.03
V5	0.05
01	0.1
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
25	2.4
28	2.8
32	3.2
刀片直径尺寸 00(英制) M0(公制)	圆形刀片

⑧刃口处理代号

形状	刃口修磨	代号
	尖锐刀刃	F
	倒圆刀刃	E
	倒棱刀刃	T
	双重处理刀刃	S

⑨切割方向代号

形状	切割方向	代号
	右手	R
	左手	L
	左/右	N

⑩刀片断屑槽代号

各品牌断屑槽代码不同此处省略……

УиП

P 碳钢/合金钢　**M** 不锈钢/钢铸件　**K** 灰口铸铁/球墨铸铁
N 铝/有色金属/非金属　**S** 钛合金/镍合金　**H** 淬硬钢/冷硬铸铁

工艺	分类记号		УиП	KYOCERA	DIJET	ZCC	MITSUBISHI	SANDVIK	SECO	SUMITOMO	Tungaloy	KENNAMETAL		KORLOY	HITACHI	TaeguTec	WALTER
	分类	材料	УиП	京瓷	黛杰	株洲钻石	三菱	山特维克	山高	住友电工	东芝	肯纳	伊斯卡	KORLOY	日立	特固克	瓦尔特
CVD	P 钢 Steel	P01	ZC25	CA5505	JC110V		UE6005 UE6015	GC4005 GC4205	TP1000	AC700G AC810P	T9005	KC910 KC9105	IC8150 IC9150	NC3010 NC3020 NC3120 NC3030 NC5330 NC500H	HG8010 HG8025	TT8115 TT3500 TT5100 TT7100	WPP01 WPP05 WPP10 WPP20 WPP30
		P10	ZC35 ZC250	CA5505 CA5515	JC110V JC215V JC730U	YBC151 YBC152	UE6110 UE6005 UE6010 UE6020	GC4015 GC3115 GC4215	TP1000 TP100	AC700G AC2000 AC820P	T9005 T9015 T9115	KC9010 KC9110	IC8150 IC9150 IC9250				
		P20	ZC35 ZC251 ZC2532 ZC32S	CA5515 CA5525 CR9025	JC110V JC215V JC730U	YBC251 YBC252	UC6010 UE6110 UE6020 F7030	GC4020 GC4025 GC4215 GC4225	TP2000 TP200	AC2000 AC3000 AC820P	T9015 T9025 T9125	KC8050 KC9025 KC9125	IC8150 IC9150 IC9250 IC9350				
		P30	ZC251 ZC2532 ZC32S	CA5525 CA5535 CR9025	JC215V JC325V	YBC351 YBM251	UE6035 UH6400 F7030	GC4030 GC4225 GC4230 GC4235	TP2500 TP200 TP300	AC3000 AC630M AC830P	T9025 T9035 T3130	KC5025 KC9040 KC9140	IC635 IC8350 IC9350				
		P40	ZC32S	CA5535	JC325V JC540V	YB235	UE6035 UH6400	GC4235	TP40	AC630M AC830P	T9035	KC9045 KC9240	IC635				
	M 不锈钢 Stainless Steel	M10	ZM25	CA6515	JC110V	YBM151	US7020	GC2015	TP100	AC610M	T9015 T9115	KC9110 KC9210	IC9250 IC9350	NC9020 NC9025	GM25 GX30	TT5100	WAM20 WAM30
		M20	ZM25 ZM35	CA6525	JC730U JC1341	YBC251 YBC252 YBM251	US7020 F7030	GC2025 GC2030	TM2000 TP200	AC610M AC630M	T6020 T9025 T9125	KC9125 KC9225	IC8350 IC9250 IC9350				
		M30	ZM25 ZM35		JC215V JC325V JC525X	YBC351 YBM351	US735 F7030	GC2035	TM4000 TP300	AC630M	T6030 T3130	KC9040 KC9230 KC9240	IC4050				
		M40	ZM35		JC325V JC450V	YB235			TP40			KC9045 KC9245					
	K 铸铁 Cast Iron	K01	ZK50 ZK50S	CA4010 CA4505 CA5505	JC105V JC600 JC050W		UC5105 UC5015	GC3205 GC3210	TX100	AC300G AC410K	T5105 T5010	KC5410 KC9315 KC910	IC428 IC9007 IC9150	NC6105 NC6110 NC315K	HG3305 HG3315 GM8015 GM8020	TT7310 TT1300	WAK10 WAK20
		K10	ZK50/ZK50S ZK352 ZK501	CA4115 CA4515 CA5505	JC110V JC600 JC610	YBC151 YBC152 YBD151	UC5015 UC5115 UE6010	GC3205 GC3210 GC3215	TK1000 TX150	AC700G AC410K	T5115 T5010 T1015	KC7310 KC9010 KC9320	IC418 IC428 IC9015				
		K20	ZK352 ZK501 ZK502	CA4115 CA4120 CA4515	JC110V JC215V JC610	YBC251 YBC252	UE6010	GC3020 GC3215 K20W	TK2000 TX150 TP200	AC700G AC820P AC420K	T5115 T5125 T5020	KC9025 KC9120 KC9325	IC418 IC9015				
		K30	ZK502 ZK503		JC215V JC610			GC3040	TP200		T5125 T9125						
PVD	P 钢 Steel	P01	ZP15 ZP15A	PR915 PR1005	JC5003					ACZ150				PC230 PC3535 PC5300 PC3545	IP2000 IP3000	TT5030	WTA43 WTA41
		P10	ZP15/ZP151 ZP201 ZP152 ZM30/ZM36 ZP680 ZM856	PR930 PR1005 PR1025 PR1115 PR1215 PR1225	JC5003 JC5030	YBG102	VP10MF	GC1025	CP200	ACZ310	AH710	KC5010 KC5510 KU10T	IC507 IC807 IC907				
		P20	ZP152 ZP153 ZM36 ZM856 ZM860	PR930 PR1025 PR1115 PR1215 PR1225	JC5015 JC5030 JC5040	YBG201 YBG202 YBG252	VP15TF VP20MF UP20M	GC1020 GC1025 GC4125	CP250	ACZ310 ACZ330 ACZ520U	AH710 AH725 AH730	KC5025 KC5525 KC7215 KC7315 KU25T	IC507 IC907 IC908				
		P30	ZM90/ZP16S ZP160 ZP163		JC5015 JC5040	YBG203 YBG302 YBM252	VP15TF VP20MF UP20M		CP500	ACZ330 ACZ350 ACZ530U	GH330 AH120 AH740	KC7015 KC7020 KC7235 KU25T	IC328 IC928 IC3028				
		P40	ZM90/ZP16S ZP19S ZP163		JC5040	YB235		GC1120 GC2145	CP500	ACZ350	AH740 J740	KC7030 KC7040 KC7140	IC328 IC3028				
	M 不锈钢 Stainless Steel	M10	ZP15 ZP152 ZM36 ZM856	PR915 PR1025 PR1215 PR1225	JC5003	YBG201	VP10MF	GC1005 GC1025	TS2000 CP200	EH510Z ACZ150 AC510U	AH710	KC5010 KC5510 KC6005 KC6015	IC507 IC520 IC907	PC8110 PC5300 PC9030	IP50S IP100S	TT5030	
		M20	ZP152 ZP153 ZM36H ZM856 ZM860	PR915 PR930 PR1025 PR1125 PR1215 PR1225	JC5015 JC5030 JC5040	YBG201 YBG202 YBM252	VP15TF VP20MF UP20M	GC2030 GC4125	TS2500 CP200 CP500	EH520Z ACZ150 ACZ310 AC520U	AH725 AH730 GH330 GH730 SH730	KC5025 KC5525 KC7020 KC7025	IC308 IC507 IC907 IC908 IC3028				
		M30	ZP153 ZP16S ZP160 ZM860	PR1125	JC5015 JC5030 JC5040	YBG203 YBG302 YB235	VP15TF VP20MF UP20M	GC1020 GC1120 GC2035	CP500	ACZ330 ACZ350 AC530U	AH120	KC7030 KC7225	IC908 IC1008 IC1028 IC3028				
		M40	ZP19S ZP160 ZP163					GC2145		ACZ350	J740		IC928				
	K 铸铁 Cast Iron	K01	ZP15A		IC5003	YBG102				EH10Z	AH110		IC910	PC5300	CY110H	TT5030	
		K10	ZP15 ZM36 ZM860	PR905 PR1215	JC5003 JC5015	YBG201 YBG202	VP05RT	GC1010	TS2000 CP200	EH10Z EH510Z AC510U	GH110 AH110	KC5010 KC7210	IC507 IC908				
		K20	ZP153 ZM36/ZP16S ZM860	PR905 PR1215	JC5015	YBG302 YBGM252	VP10RT VP15TF	GC1020 GC1120	TS2500 CP200 CP250	EH20Z ACZ310 AC520U	AH120 AH725	KC7015 KC7215 KC7315	IC507 IC908				
		K30	ZM860 ZP19S				VP15TF	GC4125	CP500	ACZ310		KC7225	IC508 IC3028				
	金属陶瓷 Cermet	P01	ZN60 ZN90	TN30 PV30 TN6010 PV7010	LN10 CX50	YNG151C	NX1010			T110A	NS520 GT530 GT720	KT1120 KT125 HTX	IC20N IC520N	CN1000 CC115 CN2000 CN20	CH350 CZ25 CH530 CH550 CH570	PV3010 CT3000	
		P10	ZN60 ZN60A ZN90 ZN90A	TN60 TN6010 TN6020 PV7010 PV7020 PV7025	LN10 CX50 CX75 NIT	YNG051 YNG151	NX2525 AP25N	CT5015 CT525	CM	T2000Z T1200A T1500A	NS520 AT530 GT530 GT730	KT315 KT175 HT2	IC20N IC520N IC530N IC75T				
		P20	ZN60A ZN60V ZN90A ZN90V	TN90 TN6020 PV7020 PV7025	CX50 CX75 CX90 NAT		NX2525 NX3035 AP25N UP35N	CT530 GC1525		T1200A T1500A T2000Z T3000Z	NS530 NS730 AT530 GT530 GT730	PS5 KT5020	IC20N IC520N IC530N IC75T IC30N				
		P30	ZN60V ZN90V		CX90 CX99 SUZ		NX4545 VP45N			T3000Z	NS740		IC75T IC30N				
	硬质合金 Carbide		ZK01 ZK01A	PW30 KW10 GW15 VW50	SRT DX30 DX35 SR30 KG03	YC10 YC30S YC40 YD201	STi10T STi20 HTi05T HTi10 HTi20T	S1P SMA SM30 S6	S10M S25M S60M 883 890 HX	ST10P ST20E A30N A30 ST30E H2 H1	TX10S TS20 TX25 TX30 UX30 TX40 TH03	KS2885 K125M KMF PVA K68 K313	IC70 IC50M IC54 IC20 IC10 IC28	H01 H05 H10 G10 ST10	SRN5 WS20B EX35 WH05 EX40 W10 EX45 WH20 WAM10B EX35	P10 M40 P20 K10 P30 K20 P40 K20M M10 K30 M20	

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22ER..BUT-..	BUT石油管梯形套管螺纹刀片	A74,B125
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22ER/L..API..	API石油管螺纹刀片	A73,B125
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22ER/L..RND..	RND圆齿管螺纹刀片	A67
22ER/L..SAGE..	SAGE公制锯齿螺纹刀片	A72
22ER/L..STACME..	STUB ACME短牙美制梯形螺纹	A69
22ER/L..TR..	DIN103梯形螺纹刀片	A70
22ER/L..UN..	UN美制螺纹刀片	A65
22ER/L..UNJ..	UNJ航空工业螺纹刀片	A66
22ER/L..W..	W英制螺纹刀片	A63
22IR..APIRD..	API圆齿石油管螺纹刀片	A73
22IR..APIRD-..	API圆齿石油管螺纹刀片	A73,B126
22IR..BUT..	BUT石油管梯形套管螺纹刀片	A74
22IR..BUT-..	BUT石油管梯形套管螺纹刀片	A74,B126
22IR..EL..	EL石油管直线套管螺纹刀片	A74
22IR/L..55..	W英制螺纹刀片	A63
22IR/L..60..	ISO公制螺纹刀片	A61
22IR/L..ABUT..	ABUT美制锯齿螺纹刀片	A71
22IR/L..ACME..	ACME美制梯形螺纹刀片	A69
22IR/L..API..	API石油管螺纹刀片	A73,B125
22IR/L..BBUT..	BBUT英制锯齿螺纹刀片	A71
22IR/L..ISO..	ISO公制螺纹刀片	A61
22IR/L..RND..	RND圆齿管螺纹刀片	A67
22IR/L..SAGE..	SAGE公制锯齿螺纹刀片	A72
22IR/L..STACME..	STUB ACME短牙美制梯形螺纹	A69
22IR/L..TR..	DIN103梯形螺纹刀片	A70
22IR/L..UN..	UN美制螺纹刀片	A65
22IR/L..UNJ..	UNJ航空工业螺纹刀片	A66
22IR/L..W..	W英制螺纹刀片	A63
22UER/L..SAGE..	SAGE公制锯齿螺纹刀片	A72,B116
22UER/L..TR..	DIN103梯形螺纹刀片	A70,B116
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22VER..ISO..	ISO公制螺纹刀片	A62,B119
22VER..W..	W英制螺纹刀片	A64,B119
22VER/L..SAGE..	SAGE公制锯齿螺纹刀片	A72,B119
22VER/L..TR..	DIN103梯形螺纹刀片	A70,B119
22VNR..ISO..	ISO公制螺纹刀片	A62,B120
22VNR..W..	W英制螺纹刀片	A64,B120
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27ER..BUT-..	BUT石油管梯形套管螺纹刀片	A74,B125
27ER/L..55..	W英制螺纹刀片	A63
27ER/L..60..	ISO公制螺纹刀片	A61
27ER/L..ACME..	ACME美制梯形螺纹刀片	A69
27ER/L..API..	API石油管螺纹刀片	A73,B125
27ER/L..ISO..	ISO公制螺纹刀片	A61
27ER/L..RND..	RND圆齿管螺纹刀片	A67
27ER/L..STACME..	STUB ACME短牙美制梯形螺纹	A69
27ER/L..TR..	DIN103梯形螺纹刀片	A70
27ER/L..UN..	UN美制螺纹刀片	A65
27ER/L..UNJ..	UNJ航空工业螺纹刀片	A66
27ER/L..W..	W英制螺纹刀片	A63
27IR..BUT..	BUT石油管梯形套管螺纹刀片	A74
27IR..BUT-..	BUT石油管梯形套管螺纹刀片	A74,B126
27IR/L..55..	W英制螺纹刀片	A63
27IR/L..60..	ISO公制螺纹刀片	A61
27IR/L..ACME..	ACME美制梯形螺纹刀片	A69
27IR/L..API..	API石油管螺纹刀片	A73,B125
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27IR/L..TR..	DIN103梯形螺纹刀片	A70
27IR/L..UN..	UN美制螺纹刀片	A65
27IR/L..UNJ..	UNJ航空工业螺纹刀片	A66
27IR/L..W..	W英制螺纹刀片	A63
27UER/L..TR..	DIN103梯形螺纹刀片	A70,B116
27UIR/L..TR..	DIN103梯形螺纹刀片	A70,B116
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27VER..W..	W英制螺纹刀片	A64,B119
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2F55C..	钨钢平底铣刀-2刃纳米黑	F05
2F55C..-..R..	钨钢圆角铣刀-2刃纳米黑	F19
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2F60C..	钨钢平底铣刀-2刃微小径	F13
2F60C..	钨钢球头立铣刀-2刃微小径	F14
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2F60CR..	钨钢球头立铣刀-2刃金色	F23
2F65C..	钨钢平底铣刀-2刃纳米蓝	F07
2F65C..-..R..	钨钢圆角铣刀-2刃纳米蓝	F20
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2FS..	高速钢平底铣刀-2刃	F26
2JDB..	二爪中空大行程液压卡盘	M05
2JLS..	二爪中实超大行程液压卡盘	M10
2L..	二爪中实长行程液压卡盘	M10
2R..	汽车轮毂夹头	M40
2SBTR..	小孔镗刀-双头	AB56,B50
2UI..	螺纹铣刀片	L23
30E..	螺纹铣刀片	L15,L16
30N..	螺纹铣刀片	L15,L16
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3DTK..	三爪中空大通孔液压卡盘	M06
3GB..	杠杆式补偿型液压卡盘	M09
3JDB..	三爪中空大行程液压卡盘	M06
3JLS..	三爪中实超大行程液压卡盘	M11
3L..	三爪中实长行程液压卡盘	M11
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4F45C..-..R..	钨钢圆角铣刀-4刃黑色	F17
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4F60C..-..R..	钨钢圆角铣刀-4刃金色	F20
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890..	T型槽铣刀-N331一体式	D81
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GY2M..	切槽/切断	A49,B155
GYHR/L..	外径切断切槽用刀柄	B155

H

H..	精密双刀口直角尺	N23
H..SCKCR/L..	内孔车刀	B87
H..SCLCR/L..	内孔车刀	B84
H..SCWCR/L..	内孔车刀	B88
H..SDJCR/L..	内孔车刀	B89
H..SDUCR/L..	内孔车刀	B92
H..SDWCR/L..	内孔车刀	B93
H..SDXCR/L..	内孔车刀	B90
H..SSKCR/L..	内孔车刀	B94
H..SSSCR/L..	内孔车刀	B94
H..STFCR/L..	内孔车刀	B101
H..STFPR/L..	内孔车刀	B102
H..STUBR/L..	内孔车刀	B95
H..STUCR/L..	内孔车刀	B99
H..STUPR/L..	内孔车刀	B100
H..STWCR/L..	内孔车刀	B96
H..SWLCR/L..	内孔车刀	B112
H..SWUBR/L..	内孔车刀	B111
H2800	热缩机	C27-C28
H55C-NRXD..	钨钢内R铣刀-古铜色	F34
HAO..	凸轮车床用刀具	AB05
HAP..	万能可调倾斜式角度盘	N18
HBOR..	微调精镗刀-镗头	K39
HD..	脱磁器	N24
HDV..	角固式光面虎钳	N16

型号 Model	名称 Name	页码 Page
HEP..	面铣刀刀盘-七角XDMT	D98
HL..	M型车刀配件-压板	P04
HM..	液压刀柄夹头	P09
HMP..	倍力内藏式增压虎钳	N17
HMP..A	高级倍力外藏式增压虎钳	N17
HMP..BT..SP..	玉米型粗铣刀刀柄-SP组合式	D72
HNGX..	铣刀片	A83,D97
HNR/L..	内螺纹车刀	B121
HPAC..	多功能CNC角固式精密光面直角虎钳	N17
HSK..ADS..	后拉式刀柄	C31
HSK..APU..	自紧式钻夹头	C59
HSK..BST..	镗刀刀柄本体	K36
HSK..EHC..	液压刀柄	C11-C12
HSK..ER..	ER弹性筒夹刀柄	C47
HSK..FMB..	面铣刀刀柄	C67
HSK..G..	柔性伸缩攻牙保护刀柄	C56
HSK..GTP..	扭力伸缩攻牙保护刀柄	C55
HSK..HBOR..P	微调精镗刀-套装	K40,K41
HSK..LBK..	镗刀刀柄本体	K37
HSK..MLT..	强力型刀柄-滚花型	C37
HSK..MTA..	莫氏锥度刀柄	C73
HSK..NBH..	镗刀刀柄本体	K36
HSK..NBH..P	微调精镗刀-套装	K49
HSK..NBJ..P	微调精镗刀-套装	K48
HSK..SLN..	侧固式刀柄	C81
HSK..SR..	热缩刀柄	C18-C22
HSK..SRC..	热缩刀柄-强力型	C24
HSK..SVER..	微伸缩同步攻牙保护刀柄	C57
HSK..TER..	ER刚性攻牙保护刀柄	C58
HSK..VER..	微伸缩攻牙保护刀柄	C57
HT..AG..	HT逗号刀具-螺纹刀片	AB72,B56
HT..R..	HT逗号刀具-切槽刀片	AB72,B56
HT..TR..	HT逗号刀具-镗孔刀片	AB71,B55
HT05..	HT逗号刀杆	AB71,B55
HT07..	HT逗号刀杆	AB71,B55
HT11..	HT逗号刀杆	AB71,B55
HTS..	T型槽铣刀刀杆	D73
HUT..	万能倾斜分度盘	N18
HV..	横立两用分度盘	N18
HVA..	平面油压虎钳	N16
HVL..	向量式精密光面直角虎钳	N17
HVQ..	倍力增压式精密光面直角虎钳	N17
HVW..	双向油压虎钳	N17

I

IHCT	不规则式手提式倒角机	N38
IL..	L型扳手-直柄	P05
IM-SP..	铣刀片	D44
ISO..APU..	自紧式钻夹头	C59
ISO..ER..	ER弹性筒夹刀柄	C41
ISO..GER..	ER弹性筒夹刀柄	C41
ISO..GSK..	GSK高速刀柄	C05
ISO..NBH..	镗刀刀柄本体	K36
ISO..SRS..	热缩刀柄	C17
IT..	梅花扳手-直柄	P05

J

JCLNR/L..	外圆车刀	B04
JDJNR/L..	外圆车刀	B10
JDMT..	铣刀片	A75,A82,D16,D92
JDMT07..	铣刀片	D17
JDMW..	铣刀片	A82,D92
JIS-NRT..UN..	高速钢丝锥-美制日标挤压	L36
JIS-NRT-M..	高速钢丝锥-公制日标挤压	L35
JIS-PO..UN..	高速钢丝锥-美制日标直槽	L34
JIS-PO..W..	高速钢丝锥-英制日标直槽	L33
JIS-PO-M..	高速钢丝锥-公制日标直槽	L31,L32
JIS-SP..UN..	高速钢丝锥-美制日标螺旋槽	L29
JIS-SP..W..	高速钢丝锥-英制日标螺旋槽	L30
JIS-SP-M..	高速钢丝锥-公制日标螺旋槽	L27,L28
JM..A	油压虎钳	N15
JMR..	三爪气压夹盘	M33

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型号 Model	名称 Name	页码 Page
JN..	三爪中实液压卡盘	M11
JNL..	二爪中实液压卡盘	M10
JNS..	立式内藏式气动卡盘	M13
JNT..	液压卡盘用T型块	M17
JOMT..	铣刀片	A82,D92
JOMW..	铣刀片	A82,D92
JPDG..	锯片刀杆	F42
JRT..	回转式气压夹盘	M33
JSA..	液压卡盘用连接盘	M17
JSDN3CR/L..	小零件车刀	AB24
JSDNN..	外圆车刀	B16
JSTACR/L..	小零件车刀	AB31
JSTGR/L..	外圆切槽刀杆	B169
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JT..FDER..	ER型径向浮动铰孔刀柄	C55
JT..FDG..	径向浮动攻牙刀柄	C55
JT..G..	柔性伸缩攻牙保护刀柄	C56
JT..GTP..	扭力伸缩攻牙保护刀柄	C55
JT..TER..	ER刚性攻牙保护刀柄	C58
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JZTT..	建筑套筒用螺纹丝锥	L44

K

KDR..	圆角铣刀盘-RN	D42
KDR..C..	圆角铣刀杆-RN	D42
KGBAR/L..OH	外圆切槽刀杆-内冷型	B163
KGBAR/L..OH2	外圆切槽刀杆-内冷型	B165
KGBFR/L..OH	外圆切槽刀杆-内冷型	B165
KGMR/L..	外径切断切槽用刀柄	B152
KGMSR/L..	外径切槽刀杆	B151
KIGMR/L..	内孔切槽刀柄	B151
KM12R...	面铣刀刀盘-SEKT1204	D114
KNUX..	数控刀片	A05
KSHR..	面铣刀刀盘-六角HNGX	D97
KT..	可调式强力型三爪钢壳夹头	M38
KT50	透视万能砂轮修理器	N21
KTGFR/L..	外圆切槽刀杆	B168
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KTGFSR/L..	外圆切槽刀杆	B168
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KTKF..JCT	TKF系列车刀杆-内冷型	AB48
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KTKFSR/L	TKF系列车刀杆	AB47,B118
KTKHR/L..	切断加工用车刀杆	B135
KTTX..	TTX螺纹车刀杆	AB51,B117
KTTXSL..	TTX螺纹车刀杆	AB51,B117

L

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L6542..	高速钢钻头-直柄	K57,K58
L6542..1/2..	高速钢钻头-1/2柄	K60
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LBK..-..-..	镗刀刀柄本体	K38
LBK..C..	LBK倒角刀组件	K55
LBMA..	LBM系列刀杆用镗孔刀片	AB16
LD..	刀柄拉钉	P07,P08
LF123..	外径切断切槽用刀柄	B157
LG..	角固式光面直角虎钳	N16
LH..	暖气片专用丝锥	L44
LLQ..	车床用拉料器	M24
LM-..	刀柄扳手	P06
LN..	直角铣刀-LN重切削型	D03
LNMU..	铣刀片	A83,D105
LOGU0303..	铣刀片	D107
LPMT..	铣刀片	A81,D71
LPS..	汽车轮毂夹头	M40
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LT-M..	钨钢螺纹铣刀-公制三牙左旋钻铣	L08
LV..	角固式虎钳	N16
LV..	P型车刀配件-杠杆	P04
LWHG..	螺纹环规	L48,L49
LWSD..	圆锥管螺纹疏刀	L49,L50
LWSG..	螺纹塞规	L48,L49
LXWGJD..	螺旋槽钨钢铰刀	F44,K62

M

M..-..	倒拉式沉头孔铣刀	D65
M..A30	镗刀配件	P05
M..T	回转顶尖-大型重载	M42
M..x..	刀具螺丝	P03
MA..AP..	直角铣刀盘-APMT铝制可调	D21
MABD-..	CNC数控分度盘-五轴	N09,N10
MB..	MB逗号刀杆	AB73,B57
MB..GR..	MB逗号刀具-切槽刀片	AB73,B57
MBPS..	MTPS刀杆用后车削刀片	AB07
MC..	方型超薄夹头	M34
MC..	车刀刀垫	P04
MC..C..	倒角刀	D65
MCBNR/L..	外圆车刀	B05
MCD..	圆形细目精密永磁吸盘	N26
MCFNR/L..	外圆车刀	B08
MCGNR/L..	外圆车刀	B06
MCH..	车床用中心钻刀杆	M21
MCKNR/L..	外圆车刀	B06
MCLNR/L..	外圆车刀	B03
MCMNN..100	外圆车刀	B07
MCMNN..80	外圆车刀	B07
MCR..	小孔镗刀	AB59,B53
MCSNR/L..	外圆车刀	B08
MD..	车刀刀垫	P04
MD-..	CNC数控分度盘-四轴	N03-N08
MD..FD..	四轴圆盘尾座模组	N12
MD..TD..	四轴顶针尾座模组	N12
MDFNR/L..	外圆车刀	B11
MDJNR/L..	外圆车刀	B09
MDPNN..	外圆车刀	B12
MDQNR/L..	外圆车刀	B11
MDR..	小孔镗刀	AB59,B53
MEFD..	阻尼式刀套	B214
MFH..R/L..	内孔端面切槽刀杆	B181
MFH03..C..	高进给立铣刀刀杆-LOGU	D107
MFH03R..	高进给立铣刀刀盘-LOGU	D108
MFH03R..M..	锁牙式刀头-LOGU	D108
MFH10R..	高进给立铣刀刀盘-SOMT	D90
MFH10R..C..	高进给立铣刀刀杆-SOMT	D89
MFH10R..M..	锁牙式刀头-SOMT	D90
MFH14R..	高进给立铣刀刀盘-SOMT	D90
MFH14R..C..	高进给立铣刀刀杆-SOMT	D89
MFH14R..M..	锁牙式刀头-SOMT	D90
MFL..	小孔镗刀-端面	AB60,B54
MFL..	锁牙式刀柄-直柄	D120
MFMN..	切槽/切断	A45,B189
MFPN..	面铣刀刀盘-五角PNMU	D100
MFPN..C..	面铣刀刀杆-五角PNMU	D99
MFR..	小孔镗刀-端面	AB60,B54
MFWN..	直角铣刀杆-WNMU08	D08
MFWN..	直角铣刀盘-WNMU08	D09
MG413	端铣刀研磨机	N37
MGAH..L..	端面切槽刀杆	B198
MGAH..R..	端面切槽刀杆	B197
MGEHR/L..	外径切断切槽用刀柄	B141-B142
MGEHR/L..D..	走心机外径切断切槽用刀柄	B144
MGEHR/L..OH	外径切断切槽用刀柄-内冷型	B145
MGEUR/L..	外径退刀槽车刀	B145
MGEVR/L..	外径切槽刀杆	B146
MGFHLL..	端面切槽刀杆	B189
MGFHLR..	端面切槽刀杆	B190
MGFHRL..	端面切槽刀杆	B190
MGFHRR..	端面切槽刀杆	B189
MGFV..L..	端面切槽刀杆	B194
MGFV..R..	端面切槽刀杆	B193

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MGFVR/L..	端面切槽刀杆	B190
MGGN	切槽/切断	A45-A46,B139,B192
MGHH..L..	端面切槽刀杆	B196
MGHH..R..	端面切槽刀杆	B195
MGHR/L..	外圆切槽刀杆	B166
MGIVR/L	内孔切槽刀柄	B143-B144
MGMN..	切槽/切断	A45-A46,B139
MGMR..	切槽/切断	A45,B139,B192
MGPS..	MTPS刀杆用切槽刀片	AB08
MGR..	小孔镗刀-切槽	AB60,B54
MH..123..	阻尼刀头	B207
MH..D..	阻尼防震刀杆	B212
MH..DCLNR/L..	阻尼刀头	B203
MH..DDUNR/L..	阻尼刀头	B204
MH..DDWNR/L..	阻尼刀头	B204
MH..DDZNR/L..	阻尼刀头	B204
MH..DSKNR/L..	阻尼刀头	B203
MH..DTFNR/L..	阻尼刀头	B203
MH..DVUNR/L..	阻尼刀头	B205
MH..DVZNR/L..	阻尼刀头	B205
MH..L..	MH转换接口	B211
MH..MGAR/L..	阻尼刀头	B208
MH..MGHR/L..	阻尼刀头	B209
MH..MGR/L..	阻尼刀头	B206
MH..MH..	MH转换接口	B211
MH..NG..S	MH阻尼式四方接柄	B211
MH..R/L..123..	阻尼刀头	B206
MH..R/LF..	MH阻尼式四方接柄	B211
MH..SCLCR/L..	阻尼刀头	B199
MH..SDUCR/L..	阻尼刀头	B199
MH..SDWCR/L..	阻尼刀头	B199
MH..SDZCR/L..	阻尼刀头	B200
MH..STFCR/L..	阻尼刀头	B202
MH..SVLBR/L..	阻尼刀头	B201
MH..SVPBR/L..	阻尼刀头	B201
MH..SVQCR/L..	阻尼刀头	B200
MH..SVUBR/L..	阻尼刀头	B201
MH..SVUCR/L..	阻尼刀头	B200
MH..SVZCR/L..	阻尼刀头	B202
MIFR..	小孔端面切槽刀片	B180
MIR..	小孔镗刀-螺纹	AB60,B54
MKR..	小孔镗刀-切槽-圆头	AB60,B54
MM..	皮带轮刀片	AB52,B130
MPCHR/L..	五角星外圆切槽刀杆	B170
MPHT..	铣刀片	A81,D75
MPR..	小孔镗刀	AB59,B53
MQR..	小孔镗刀	AB59,B53
MRGN	切槽刀片	A46,B139,B192
MRMN	切槽刀片	A46,B139,B192
MS..	刀具螺丝	P03,P04
MSBNR/L..	外圆车刀	B13
MSDNN..	外圆车刀	B15
MSIFHR..	小孔端面切槽刀杆	B180
MSKNR/L..	外圆车刀	B17
MSP..	一体超薄正弦磁台	N25
MSP..SA	微调式正弦磁台	N25
MSRNR/L..	外圆车刀	B14
MSSNR/L..	外圆车刀	B18
MST-M..	马氏体专用螺旋槽公制丝锥	L47
MT..	车刀刀垫	P04
MT..APU..	自紧式钻夹头	C60
MT..BST..	镗刀刀柄本体	K36
MT..ER..	ER弹性筒夹刀柄	C48
MT..JT..	钻夹头接杆	C63
MT..LBK..	镗刀刀柄本体	K38
MT..MT..	莫氏锥度刀柄	C74
MT..NBH..	镗刀刀柄本体	K36
MT..NBH..P	微调精镗刀-套装	K49
MT..NBJ..P	微调精镗刀-套装	K48
MT..OZ..	OZ重切削筒夹刀柄	C53,C54
MT..YLDB..	侧固式油路刀柄	C86
MTA..DCK..	镗刀刀柄本体	K38
MTA..G..	柔性伸缩攻牙保护刀柄	C56
MTA..GTP..	扭力伸缩攻牙保护刀柄	C55
MTA..TER..	ER刚性攻牙保护刀柄	C58

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MTB..G..	柔性伸缩攻牙保护刀柄	C56
MTB..TER..	ER刚性攻牙保护刀柄	C58
MTBNR/L..	外圆车刀	B19
MTEHR/L	端面切槽刀杆	B183
MTEHR/L	外径切槽刀杆	B184
MTENN..	外圆车刀	B20
MTFNR/L..	外圆车刀	B22
MTGNR/L..	外圆车刀	B21
MTH..	超硬合金用永磁吸盘	N25
MTJNR/L..	外圆车刀	B24
MTPS..	走心机用刀杆	AB07
MTPS..	MTPS刀杆用切断刀片	AB08
MTQBR/L..	四角星槽刀杆-刀板型	B173
MTQHPR/L..	四角星槽刀杆-横装	B173
MTQHR/L..	四角星槽刀杆	B172
MTQHR/L..OH	四角星槽刀杆-内冷型	B172
MTQNR/L..	外圆车刀	B23
MTQS..	四角星槽刀片	B171
MTR..	小孔镗刀	AB59,B53
MTS..	超薄形永磁吸盘（不锈钢）	N26
MTTPS..	MTPS刀杆用螺纹刀片	AB08
MTWNR/L..	外圆车刀	B23
MTWNR/L..B	外圆车刀	B23
MUR..	小孔镗刀	AB59,B53
MV..	车刀刀垫	P04
MVGN	切槽刀片	A46,B139,B192
MVJNR/L..	外圆车刀	B25
MVQNR/L..	外圆车刀	B26
MVR..	小孔镗刀-端面	AB60,B54
MVUNR/L..	外圆车刀	B28
MVVNN..	外圆车刀	B27
MW..	车刀刀垫	P04
MWENN..	外圆车刀	B30
MWLNR/L..	外圆车刀	B29
MWR..	小孔镗刀	AB60,B54
MWS..	垂直形永磁吸盘	N25
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MY-V	皮带轮刀杆及刀片	AB52,B130
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MZ-NZ..	滚光刀具-内锥型	AB81-AB84
MZR..	小孔镗刀-端面圆头	AB60,B54
MZ-TK..	滚光刀具-通孔型	AB81-AB84
MZ-WZ..	滚光刀具-外锥型	AB81-AB84

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NBH..	微调精镗刀-刀杆	K49
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NBK..	强力型超薄型夹头	M34
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NBT..ER..	ER弹性筒夹刀柄	C41
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PCLNR/L..	外圆车刀	B03
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SLTBN..	切断刀板用刀座	B138
SMFL..	小孔镗刀-端面	AB57,B51,B179
SMFR..	小孔镗刀-端面	AB57,B51,B179
SMP..	T型槽铣刀刀盘-卡口型	D77
SMP..	T型槽铣刀刀盘-刀盘型	D78
SMP01..A..	T型槽铣刀刀盘-刀盘型	D80
SMP01..B..	T型槽铣刀刀盘-刀盘型	D80
SMP01..K..	T型槽铣刀刀盘-卡口型	D79
SMT..	T型槽铣刀	D84
SMT..	螺纹铣刀杆	L23,L24
SMVR..	小孔镗刀-端面	AB57,B51,B179
SNGA..	数控刀片	A07
SNGR/L..	内孔切槽刀柄	B176
SNMA..	数控刀片	A08
SNMF1204..	圆弧倒角刀片	B32
SNMG..	数控刀片	A07-A08
SNMM..	数控刀片	A08
SNR/L..	内螺纹车刀	B121
SO..Jaw	强力生爪	M36
SOMT..	快速钻头刀片	A85
SOMT..	快速钻头	K09,K10
SOMT1004..	铣刀片	D89
SOMT1405..	铣刀片	D89
SP..	切断刀片	A46,B133
SP..	P型车刀配件-弹簧片	P04
SP..35..	面铣刀刀盘-SP	D116
SPB..	切断加工用刀板	B137
SPC..	玉米型粗铣刀刀盘-SP	D71
SPGA..	铣刀片	A80,D44

型号 Model	名称 Name	页码 Page
SPGT..	铣刀片	A83
SPGX..	铣刀片	D57
SPH..	内六角/梅花孔车削刀具	AB75-AB78
SPKN..	铣刀片	A84,D117
SPM..C..	玉米型粗铣刀刀杆-SP	D71
SPMA..	铣刀片	A80,D44
SPMA..	铣刀片	
SPMG..	铣刀片	A82,A85,D77
SPMG..	快速钻头刀片	K07,K08
SPMT..	铣刀片	A81
SPMT..	快速钻头刀片	A85
SPMT..	铣刀片	D71
SPMT..	快速钻头刀片	K11
SPMW..	铣刀片	A81,D59
SPS..	筒式细目正弦磁	N25
SR..	螺纹铣刀杆刀盘	L18
SRACR/L..	外圆车刀	B39
SRAPR/L..	外圆车刀	B39
SRCPR/L..B..	外圆车刀	B32
SRCS..CA..	组合式卡式刀夹	K55
SRDCN..	外圆车刀	B39
SRDPN..	外圆车刀	B39
SRGCR/L..	外圆车刀	B40
SRGPR/L..	外圆车刀	B40
SRTP..	微调精镗刀配件-HBOR	K41
SSACN..	端面切槽刀杆	B186
SSBCR/L..	外圆车刀	B38
SSD90..	直角铣刀盘-SD	D32
SSDCN..	外圆车刀	B38
SSH..	倒角刀-60°	D62
SSH..ECH..	车床用ER刀柄-高精度	M23
SSH..ECH..OH..	车床用ER刀柄-端面+侧面内冷型	M23
SSH..ECH..SOH..	车床用ER刀柄-端面内冷型	M23
SSH..ECH..WS..	车床用ER刀柄-双头	M23
SSK..C..	倒角刀-45°-ADNT	D63
SSK..C..	倒角刀-45°-AP	D64
SSKCR/L..	外圆车刀	B38
SSO..	倒角刀-15°	D61
SSP..C..	倒角刀-45°/60°/71°	D56,D58
SSPC..	定位倒角刀-45°	D55
SSSCR/L..	外圆车刀	B38
SSSP..CA..	组合式卡式刀夹	K55
SSY..	倒角刀-30°	D61
ST..W..	BE组合式钨钢刀杆	K46
STB..ER..	直柄攻牙保护刀杆-车床	M30
STC..ER..	直柄攻牙保护刀杆-铣床	M30
STECR/L..	外圆车刀	B41
STFCR/L..	外圆车刀	B42
STGC..CA..	组合式卡式刀夹	K55
STGCR/L..	外圆车刀	B41
STIR..	小孔镗刀-螺纹	AB56,B50
STM..	车刀刀垫	P04
STM..C..	螺纹铣刀杆	L21,L22
STSC..CA..	组合式卡式刀夹	K55
STSP..CA..	组合式卡式刀夹	K55
STWBR..	TWB系列小孔镗刀	AB61
STWCR/L..	外圆车刀	B42
STWSR..	TFG系列端面槽刀	AB62
STXN..	小零件车刀	AB31
SUER/L..	外螺纹车刀	B116
SUNR/L..	内螺纹车刀	B116
SV..	螺纹铣刀片	L25
SV..	高级万力	N27
SV..	手转正弦万力	N28
SVAB..N	小零件车刀	AB27-AB28
SVAC..N	小零件车刀	AB25-AB26
SVER/L..	外螺纹车刀	B119
SVJB..F..OH	小零件车刀-内冷型	AB27-AB28
SVJB..N	小零件车刀	AB27-AB28
SVJB..N-TH	小零件车刀-带喷嘴内冷型	AB29
SVJBR/L..	外圆车刀	B43
SVJC..F..OH	小零件车刀-内冷型	AB25-AB26
SVJC..N	小零件车刀	AB25-AB26
SVJCR/L..	外圆车刀	B45
SVLB..F..	小零件车刀-空间刀杆	AB30

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SVNR..	CH正面排刀	Ab16
SVNR..	VN系列小孔镗刀	AB63
SVNR/L..	内螺纹车刀	B120
SVNS..XN	VN系列小孔镗刀	AB70
SVNSR..N	VN系列小孔镗刀	AB63
SVPC..F..	小零件车刀-空间刀杆	AB30
SVQBR/L..	外圆车刀	B43
SVQC..N	小零件车刀	AB25-AB26
SVQCR/L..	外圆车刀	B45
SVQP..N	小零件车刀	AB29
SVUBR/L..	外圆车刀	B44
SVUCR/L..	外圆车刀	B46
SVVBN..	小零件车刀	AB30
SVVBN..	外圆车刀	B44
SVVBN..N-TH	小零件车刀-带喷嘴内冷型	AB30
SVVCN..	小零件车刀	AB30
SVVCN..	外圆车刀	B46
SVVCN..N-TH	小零件车刀-带喷嘴内冷型	AB30
SVXB..N	小零件车刀	AB27-AB28
SVXC..N	小零件车刀	AB25-AB26
SVXP..N	小零件车刀	AB29
SWA..	焊刃式钨钢斜度铣刀	F33
SWA45..	焊刃式钨钢倒角刀	F33
SWB..	铣刀片	A80,D44
SWB..	焊刃式钨钢插铣刀-扩孔修正	F45
SWB..C..	球头立铣刀杆-SWB	D44
SWC..	焊刃式钨钢沉头孔铣刀	F45
SWCR..	焊刃式钨钢内R铣刀	F34
SWCS45..	焊刃式钨钢倒角刀	F33
SWD45..	焊刃式钨钢燕尾槽铣刀-45°	F37
SWD60..	焊刃式钨钢燕尾槽铣刀-60°	F37
SWDT60..	焊刃式钨钢燕尾槽铣刀-60°刀盘型	F37
SWE2..	焊刃式钨钢铣刀-2刃	F29
SWE4..	焊刃式钨钢铣刀-4刃	F29
SWEL2..	焊刃式钨钢铣刀-2刃加长	F29
SWEL4..	焊刃式钨钢铣刀-4刃加长	F29
SWELL4..	焊刃式钨钢铣刀-4刃特长	F29
SWER4	焊刃式钨钢粗皮铣刀	F30
SWFT..H	焊刃式钨钢铣刀-面铣刀盘型	F30
SWM..	焊刃式钨钢铰刀-左旋直柄不等分	K72
SWMT..	焊刃式钨钢铰刀-左旋锥柄不等分	K72
SWRI..	焊刃式钨钢铰刀-英制左旋直柄	K72
SWRIMT..	焊刃式钨钢铰刀-英制锥柄	K71
SWRM..	焊刃式钨钢铰刀-左旋直柄	K71
SWRMT..	焊刃式钨钢铰刀-锥柄	K71
SWRT..	焊刃式钨钢粗皮铣刀-刀盘型	F30
SWS..	焊刃式钨钢三面刃铣刀-平齿	F39
SWSS..	焊刃式钨钢三面刃铣刀-千岛刃	F40
SWST..H	焊刃式钨钢T型槽铣刀-刀盘	F35
SWT..H	焊刃式钨钢铣刀-刀盘型	F30
SWT..H	焊刃式钨钢T型槽铣刀-平齿	F35
SWTI..H	焊刃式钨钢T型槽铣刀-平齿英制	F35
SWTS..H	焊刃式钨钢T型槽铣刀-千岛刃	F35
SX..MT..	固定式顶尖-伞形	M43
SZ..C..	液压卡盘用软爪	M18
SZSX..	液压卡盘用扇形软爪	M17

T

T11N..	切槽刀片	A37
T16..	切槽刀片	A37
T2139..M..	锁牙式刀头-P3200	D51
T2139C..	球头立铣刀杆-P3200	D51
T217.69..C..	直角铣刀杆-XOMX	D26
T22..	切槽刀片	A37
TAF..	快速钻头-GCMT/GPMT	K16
TB32..	后车削刀片	A55,AB37
TBC..	固定式双刃粗镗刀盘	K56
TBGT..	数控刀片	A27-A28
TBGW..	数控刀片	A27
TBL..C..	固定式双刃粗镗刀杆	K56
TBMT..	数控刀片	A28
TBP..	后车削刀片	A53,AB35,AB36
TBPSL..	后车削用刀杆	AB36

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TBS..	可调式镗刀-刀杆	K54
TBTR..	后车削用刀杆	AB37
TBVC..	后车削用刀杆	AB38
TC..	桶盖挤压丝锥	L46
TC-..	数控刀柄用刀具整理柜	F16
TC..XP..	剑齿钻刀杆	K26
TCA..	端面切槽刀杆	B185
TCAP..	多功能钻杆	K30
TCEA..	剑齿钻刀片	K27
TCFA..	剑齿钻刀片	K27
TCGT..	数控刀片	A27-A28
TCGW..	数控刀片	A27
TCLNR/L..	外圆车刀	B04
TCM..C..	倒角刀-45°	D62
TCMT..	数控刀片	A28
TCMX..	铣刀片	A81，D55
TCPA..	剑齿钻刀片	K27
TD..S	手动尾座	N11
TDC..	切槽/切断	A50,B147
TDJ..	切槽/切断	A50,B147
TDJNR/L..	外圆车刀	B09
TDT..	切槽/切断	A50,B147
TE90..C..	直角铣刀杆-AXMT	D30
TE90..M..	锁牙式刀头-AXMT	D30
TEBL..C..	高进给立铣刀刀杆-BLMP	D103
TEBL..M..	锁牙式刀头-BLMP	D104
TEN..	面铣刀刀盘-五角PNMU	D102
TEN..C..	面铣刀刀杆-五角PNMU	D101
TER..	外螺纹车刀	B126
TF33..	前车削刀片	AB32
TFBL..	高进给立铣刀刀盘-BLMP	D104
TFG..	TFG系列端面槽刀刀片	AB62
TFGVT..	TFG系列端面槽刀刀片	AB62
TFTR..	小零件车刀	AB32
TFTR..OH..	小零件车刀	AB32
TGF..	切槽刀片	A35,B167
TGF32..	槽刀片	D83
TGIUR/L..	汽车轮毂车刀	B149
TJU..	钻铣刀杆-CPMT	D53
TJUM..	锁牙式刀头-CPMT	D53
TKF..	切槽/切断	A43
TKF..	TKF切槽切断刀片	AB45
TKFB..	后车削刀片	A54
TKFB..	TKF后车削刀片	AB46
TKFT..	TKF螺纹车削刀片	AB46
TKFT..55..	W英制螺纹刀片	A64,B118
TKFT..60..	ISO公制螺纹刀片	A62,B118
TKT..	可调式强力型二爪钢壳夹头	M38
TL..	L型扳手-T型	P05
TLD..	双向向量式虎钳	N17
TM..E..	螺纹铣刀片	L19,L20
TM..N..	螺纹铣刀片	L19,L20
TMR..	T型槽铣刀刀杆	D74
TNGA..	数控刀片	A09
TNGG..	数控刀片	A09
TNMA..	数控刀片	A10
TNMG..	数控刀片	A09-A11
TNMM..	数控刀片	A10
TNR..	内螺纹车刀	B127
TNR..	内螺纹车刀-方柄	B128
TNT..	齿式二爪钢壳夹头	M37
TP..	直角铣刀盘-TP	D31
TP..C..	直角铣刀杆-TP	D31
TP..C..	倒角刀-30°/45°/60°	D60
TPGH..	数控刀片	A27-A28
TPGT..	数控刀片	A27-A28
TPGW..	数控刀片	A27
TPKN..	铣刀片	A77,D31
TPMR..	铣刀片	A77,D31
TPMT..	数控刀片	A28
TPV..	MC增压器型超高压快速虎钳	N17
TRS..	圆角铣刀盘-RD	D41
TRS..C..	圆角铣刀杆-RD	D40
TS..	高速气动回转缸	M15,N18
TSC..	切槽/切断	A50,B147

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TT..	梅花扳手-T型	P05
TT43..	槽刀片	D83
TTER/L..	外径切断切槽用刀柄	B147
TTIR/L..	内孔切槽刀柄	B150
TTIR/L..OH	内孔切槽刀柄-内冷型	B149
TTP..	TTP系列螺纹车刀杆刀片	AB49
TTP..55..	W英制螺纹刀片	A64
TTP..60..	ISO公制螺纹刀片	A62
TTP..OH	TTP系列螺纹车刀-内冷型	AB50
TTX..	TTX螺纹车刀片	AB51
TTX32..55..	W英制螺纹刀片	A64,B117
TTX32..60..	ISO公制螺纹刀片	A62,B117
TVJNR/L..	外圆车刀	B25
TWBR..	TWB系列小孔镗刀刀片	AB61
TWE..	双刃粗镗刀-刀头	K50
TWLNR/L..	外圆车刀	B30
TXD..	钨钢T型槽铣刀	F36
TXP..	高进给立铣刀刀盘-WPGT	D96
TXP..C..	高进给立铣刀刀杆-WPGT	D96
TY..	高速切断机	N37

U

U2	万能磨刀机	N37
UEX..	直角铣刀杆-APET/ADNT	D29
UGHN..	切断加工用刀板	B137
UGHR/L..	切断加工用车刀杆	B135

V

VB..	工具万力	N28
VBGT..	数控刀片	A29-A30
VBGW..	数控刀片	A29
VBMT..	数控刀片	A31
VC1604..	端面切槽刀片	B181
VCGT..	数控刀片	A29-A30
VCGW..	数控刀片	A29
VCM..	倒角机	N37
VCMT..	数控刀片	A31
VH..	电极万力	N31
VHCT	直角式手提倒角机	N38
VHX..	P型车刀配件-杠杆螺丝	P04
VL..	不锈钢工具万力	N27
VMC..	VMD钻头-刀夹	K20
VMD..	VMD钻头-本体	K20
VNBR..	VN系列小孔镗刀刀片	AB65
VNBTR..	VN系列小孔镗刀-倒拉	AB65
VNBX..S	VN系列小孔镗刀刀片	AB69
VNC..	VMD钻头-刀夹	K20
VNFGR..	VN系列小孔镗刀-端面切槽	AB68
VNGA..	数控刀片	A13
VNGG..	数控刀片	A13
VNGR..	VN系列小孔镗刀-切槽	AB67
VNMA..	数控刀片	A14
VNMG..	数控刀片	A13-A14
VNTR..	VN系列小孔镗刀-螺纹	AB66
VPGT..	数控刀片	A29-A30
VPGW..	数控刀片	A29
VS..	工具万力	N28
VSB..	工具万力	N27
VSD..	手转工具万力	N28
VSU..	不锈钢手转工具万力	N27
VV..	超精密工具万力	N28
VW..	可倾式虎钳	N16

W

WBGT..	数控刀片	A23
WBMT..	数控刀片	A23
WCMX..	快速钻头刀片	A85
WCMX..	快速钻头刀片	K05,K06
WD165	万能砂轮修整器	N21
WDMW..	铣刀片	A83,D93
WDX..	快速钻头-WDXT	K14
WDXT..	快速钻头刀片	A85,K13
WEX17..	直角铣刀盘-AXMT17	D32
WFX12..	直角铣刀盘-SO	D32
WGDDZ2F..	钨钢定点钻/倒角刀-2刃	F31,F32,K61,K62
WGDDZ3F..	钨钢定点钻/倒角刀-3刃	F31,F32,K61,K62
WGE..	切槽/切断	A50,B156
WGJP..	钨钢锯片	F41
WGR..	切槽/切断	A50,B156
WGYB..	钨钢圆棒	F46
WGZT..	钨钢钻头-通柄	K69
WGZXZ..	钨钢中心钻	F34,K62
WNGA..	数控刀片	A15
WNMA..	数控刀片	A16
WNMG..	数控刀片	A15-A17
WNMU..	铣刀片	A75
WNMU04..	铣刀片	D07
WNMU0806..	铣刀片	D08
WOMW..	铣刀片	A83,D93
WPGT..	铣刀片	D95
WPV..	线切割工具万力	N33,N34
WTBNR/L..	外圆车刀	B19
WTD..	车床用方柄转圆柄刀套	M21
WTENN..	外圆车刀	B20
WTi	汽车轮毂夹头	M39
WTJNR/L..	外圆车刀	B24
WTQNR/L..	外圆车刀	B23
WW..	车刀刀垫	P04
WWLNR/L..	外圆车刀	B29
WXCXZ	万向磁性座	N39
WX-MT..	回转顶尖-外旋	M42

X

XCET..	铣刀片	D67
XCET..R..	倒角刀-45°	D67
XOMT..	快速钻头刀片	A85,K11
XOMX..	铣刀片	A77,D26
XSBFR..	小孔镗刀-斜插式	AB58,B52
XSBH..	斜插式定位刀套	AB58,B52
XSBWR..	小孔镗刀-斜插式-切槽	AB58,B52
XSEQ..	铣刀片	A82,D79
XSTIR..	小孔镗刀-斜插式-螺纹	AB58,B52
XZQ..	修爪器	M16

Y

YB..	铣刀压板	P05
YG..	抽油杆接箍挤压丝锥	L45
Y-GTPA..	Y轴车刀杆	AB19
Y-GTTR..	Y轴车刀杆	AB18
YJK..	车床用车刀压紧块	M21
YKL..	亚克力用钨钢单刃铣刀	F43
Y-KTGFR..	Y轴车刀杆	AB18
Y-SDJC..OH	Y轴车刀杆-内冷型	AB17
Y-SDJCR..	Y轴车刀杆	AB17
Y-SDNCN..	Y轴车刀杆	AB18
Y-SVJC..OH	Y轴车刀杆-内冷型	AB18
Y-TBP..	Y轴车刀杆	AB19
Y-TBP..OH	Y轴车刀杆-内冷型	AB19
YWD..	燕尾槽铣刀刀杆	D82
YWD..	钨钢燕尾槽铣刀	F38
YYZ..PCH	HYU液压站	N13
YZ..	液压卡盘用硬爪	M17
YZHG..	圆锥环规	L49
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ZCET..	铣刀片	A79,D43

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