

郑重声明：样本中所有资料图片皆为本单位所有 任何单位擅自使用必将法律追究

2009版

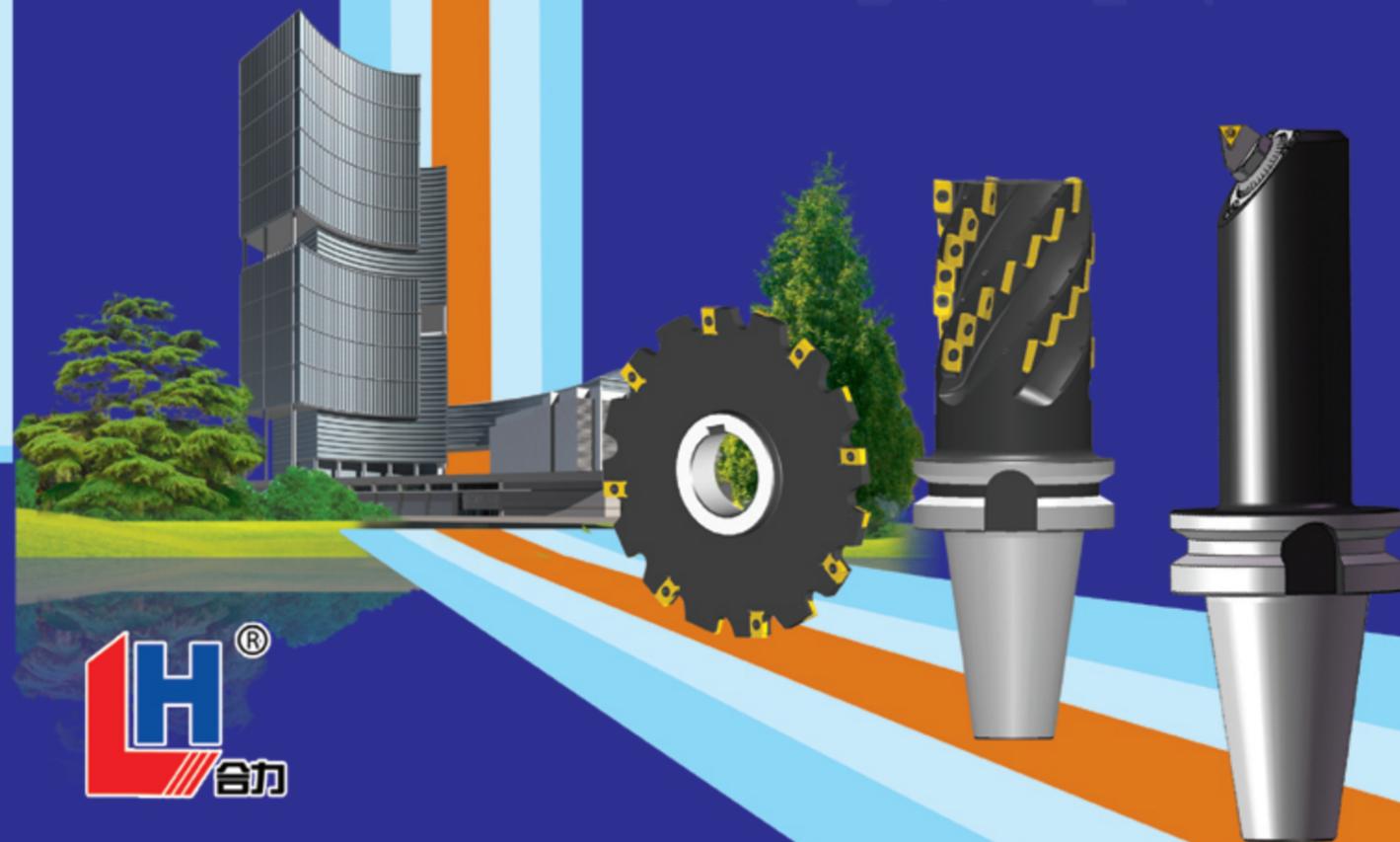


ISO9001:2000

常州华科工具有限公司
常州市西夏墅工具研究所有限公司



旋转刀具 Rotary Tools



常州华科工具有限公司
常州市西夏墅工具研究所有限公司

地址：江苏常州西夏墅镇东大街121号
Address: 121East Street XiXiaShu ChangZhou Jiangsu
电话 (Tel) : 0519-83431091 83431437 83431090
传真 (Fax) : 0519-83431036
邮编 (Postcode) : 213135
网址 (Web site) : <http://www.xxsgj.com>
邮箱 (E-mail) : hk@xxsgj.com



常州华科工具有限公司
CHANGZHOU HUAKE TOOL CO., LTD.
常州市西夏墅工具研究所有限公司
CHANGZHOU XIXIASHU TOOL RESEARCH INSTUTE CO., LTD.

	<p>铣削刀具 Milling tools</p> 	<p>孔加工刀具 Hole cutting tools</p> 	<p>整体硬质合金刀具 Solid carbide tools</p> 
页码 Page	A1—A38	B1—B17	C1—C11
	<p>滚压工具 Pressure rolling tools</p> 	<p>硬质合金旋转锉 Carbide rotary files</p> 	<p>机床附件 Machine tools accessories</p> 
页码 Page	D1—D2	E1—E2	F1—F22
	<p>小型工具磨床 Minitype tool grinding machine</p> 	<p>硬质合金制品 Carbide products</p> 	<p>风动工具 Pneumatic tools</p> 
页码 Page	G1—G2	H1	I1—I3
	<p>精密机械零件加工 Exact machine part machining</p> 		
页码 Page	J1		

一. 可转位铣刀 Indexable milling tools

	GMA 	GMA-MW 	GMC 	CMC 	SGMC 	SGMB
页码 Page	A2	A2	A3	A3	A4	A4
	ZMC 	JTMC 	LMC 	MM 	MMA 	ZMMA
页码 Page	A5	A5	A6	A6	A7	A7
	6C2K / 6C2L 	6J2K / 6J2L 	6JKK 	6F2K 	VX 	TRM
页码 Page	A8	A8	A9	A9	A10	A10
	TSM 	TZM 	SMD 	KCX 	LXM 	LXY
页码 Page	A11	A11	A12	A13	A14	A14
	LXX 	LXT 	ZXY 	ZXX 	RMT 	RMY
页码 Page	A14	A15	A15	A16	A16	A16
	RMM 	RMX 	KTXZ 	KTXM 	KLXX 	KLXM
页码 Page	A17	A17	A18	A18	A19	A19
	KLX 	KKLX 	KKLX-02 	DLX 	DLM 	QXZ
页码 Page	A19	A20	A20	A21	A21	A22
	QXCZ 	QXAM 	QXAX 	QXAZ 		
页码 Page	A22	A23	A23	A23		

二. 硬质合金铣刀 Carbide milling tools

	YMXX 	YMXM 	YMXT 	HLXM 	HLXX 	YHLXY
页码 Page	A24	A24	A24	A25	A25	A26
	YHLXM 	HSM 	HZTXY 	HZTXM 	HVX 	
页码 Page	A26	A26	A27	A27	A27	

三. 硬质合金铣刀片 Carbide blades for milling tools

	SPCN-ED 	SPCN-ZP 	TPCN 	SECN 	82°4 XH16 	88° 4XH13/16/19 	LPEX-ED, LFCX-EF LPCX-ZP, LPCX-PP 	SFCN-EF
页码 Page	A30	A30	A30	A30	A30	A30	A30	A31
	CPGT,CCMT 	VX 	APMT-PDE 	SDHW, SPHW SPEB 	SDMT, SPMT 	ADMT, APMT 	ADHW, APHW 	SECW
页码 Page	A31	A31	A31	A31	A31	A31	A32	A32
	MPMT 	RPMT 	LNCN 	LSE 	YCE 	LNEU 	SNEU 	CDEU
页码 Page	A32	A32	A32	A32	A33	A33	A33	A33
	SNEQ 	UPE-C 	UPE-E 	P3200-D 				
页码 Page	A33	A33	A34	A34				

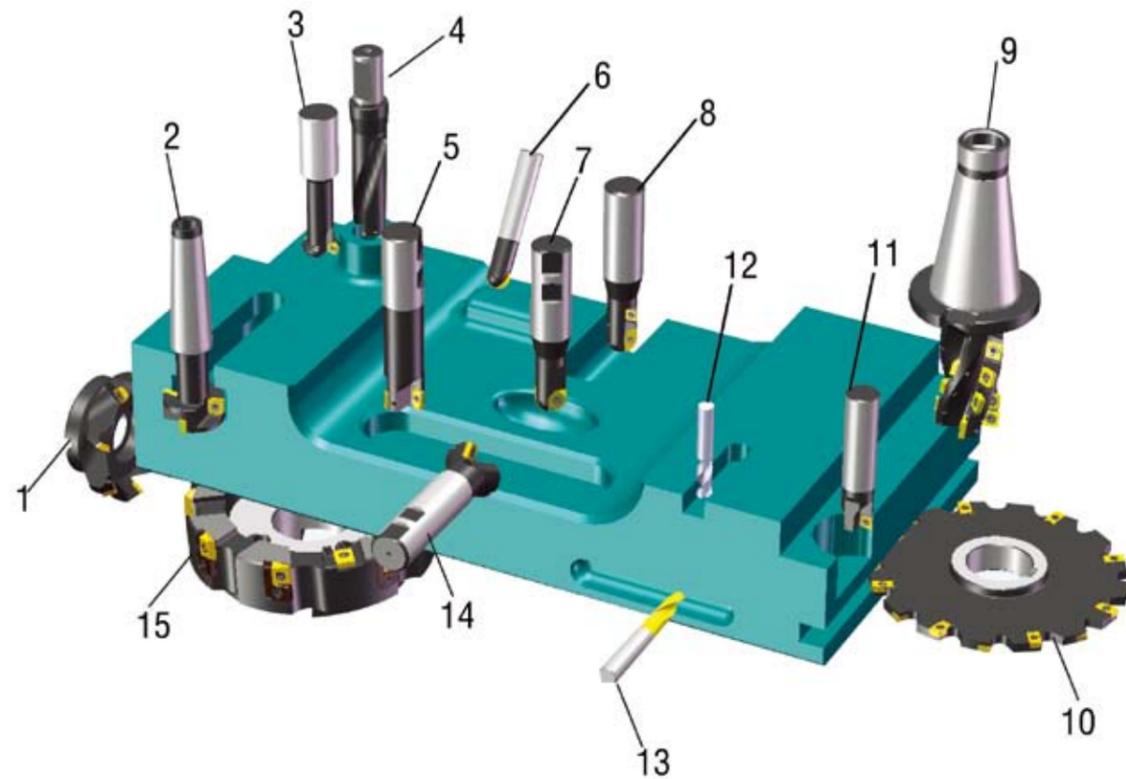
四. 陶瓷铣刀片 Ceramic blade for milling tools

	SNGN 	CNGN 	RNGN 		SPCH 	SPCR 	WCMH
页码 Page	A34	A34	A34	页码 Page	A35	A35	A35

五. 大进给高效铣刀片
Big feed movement and efficient blades for milling tools

- 产品预览
Product overview
- 端面铣刀安装形式和尺寸.....A1
Mode of installation and dimension for face milling tools
- 可转位铣刀.....A1-A23
Indexable milling tools
- 硬质合金铣刀.....A24-A27
Carbide milling tools
- 铣削刀片型号表示规则.....A28-A29
Blades for milling tools codex key
- 硬质合金铣刀片.....A30-A35
Carbide blades for milling tools
- 陶瓷铣刀片.....A34
Ceramic blades for milling tools
- 铣削刀具切削用量(参考).....A36-A38
Cutting data for milling tools(For Reference)

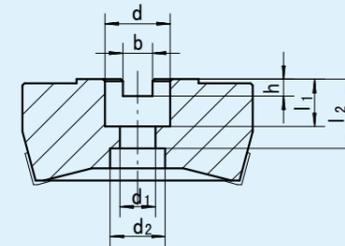




- | | |
|-------------------------|--|
| 1.可转位面铣刀SGMC 见A4页 | 1.Indexable face milling tools SGMC See A4 |
| 2.可转位“T”形槽铣刀KTXM 见A18页 | 2.Indexable T-Slot milling tools KTXM SeeA18 |
| 3.可转位圆刀片立铣刀RMX见 A17页 | 3.Indexable end mills with round blade RMX SeeA17 |
| 4.可转位螺旋沟浅孔钻QKX 见B3页 | 4. Indexable shallow drill with spiral flute QKX SeeB3 |
| 5.可转位立铣刀LXX 见A14页 | 5.Indexable end mills LXX SeeA14 |
| 6.机夹单片球头立铣刀QXAZ 见A23页 | 6.Machanical clamped single blade ball head end millsQXAZ SeeA23 |
| 7.可转位球头立铣刀QXZ 见A22页 | 7.Indexable ball head end mills QXZ SeeA22 |
| 8.可转位球头立铣刀QXCZ 见A22页 | 8.Indexable ball head end mills QXCZ SeeA22 |
| 9.可转位螺旋立铣刀KLX 见A19页 | 9.Indexable helical end mills KLX SeeA19 |
| 10.立装可转位槽铣刀KCX 见A13页 | 10. Indexable slot mills of blade arises installation KCX SeeA13 |
| 11.可转位钻铣刀ZXY 见A15页 | 11.Indexable drill milling tools ZXY See A15 |
| 12.整体硬质合金键槽铣刀YJX 见C6页 | 12.Solid carbide key way mills YJX See C6 |
| 13.整体硬质合金球头立铣刀YQX 见C8页 | 13.Solid carbide ball head end mills tools YQX SeeC8 |
| 14.可转位倒角铣刀DLM 见A21页 | 14.Indexable approach angle milling tools DLM See A21 |
| 15.立装可转平面粗精复合刀6JJK 见A9页 | 15.Indexable coarse-fine complex face mills for blades arises installation SeeA9 |

安装型式: A型 (GB5342-85)
Installation mode: Type A (GB5342-85)

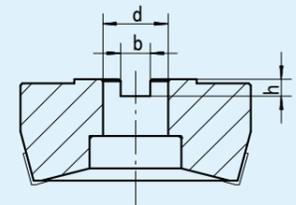
适用规格 $\Phi 50 \sim \Phi 100$



d	b	h	d ₁	d ₂	l ₁	l ₂
22	10.4	6.3	11	18	20	33
27	12.4	7	13.5	20	22	37
32	14.4	8	17.5	27	25	33
40	16.4	9	—			

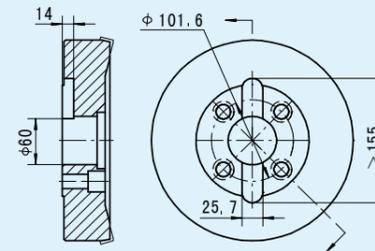
安装型式: B型 (GB5342-85)
Installation mode: Type B (GB5342-85)

适用规格 $\Phi 80 \sim \Phi 160$

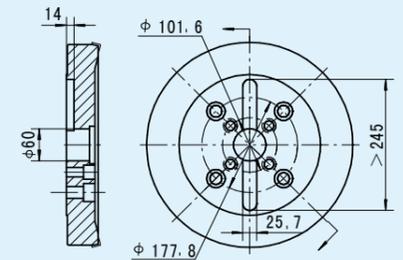


安装型式: C型 (GB5342-85)
Installation mode: Type C (GB5342-85)

适用规格 $\Phi 200 \sim \Phi 250$

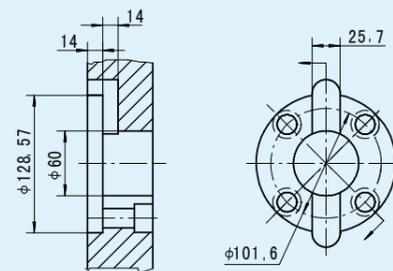


适用规格 $\Phi 315 \sim \Phi 500$

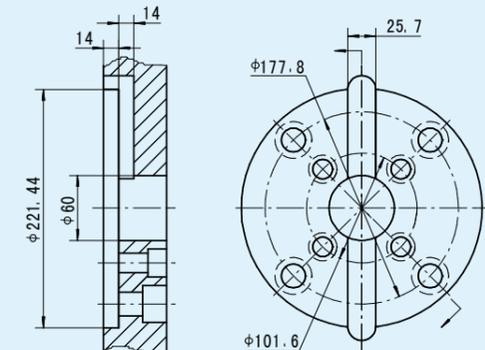


安装型式: CA型
Installation mode: Type CA

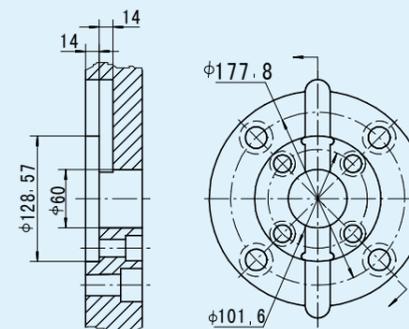
I型适用规格 $\Phi 200 \sim \Phi 250$



II型适用规格 $\Phi 315 \sim \Phi 500$

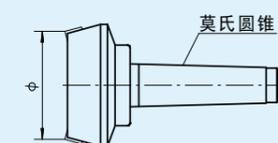


适用规格 $\Phi 315 \sim \Phi 500$

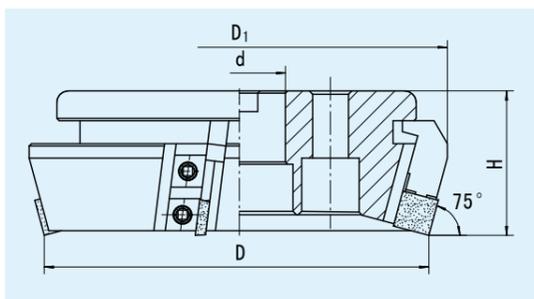
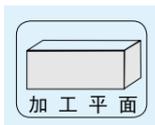


安装型式: 锥柄型式 (GB5342-85)
Installation mode: Taper shanks mode (GB5342-85)

适用规格 $\Phi 63 \sim \Phi 100$



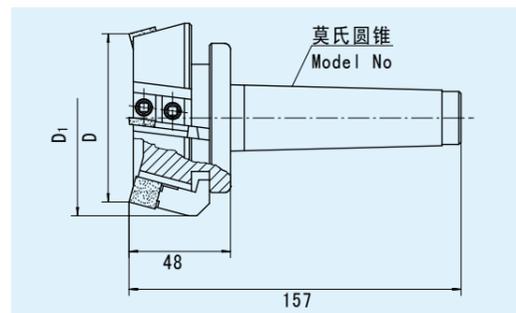
该铣刀 $\gamma_0=5^\circ$ 、 $\lambda_s=7^\circ$,切削平稳、畅快。适用于对钢和铸铁件的切削加工。
The milling tools $\gamma_0 = 5^\circ$, $\lambda_s = 7^\circ$, cutting a smooth, coziness, suitable for medium, low carbon steel and cast-iron pieces machine cutting.



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts				
		D	D ₁	H	d	型式 Mode		压块 Wedge	刀垫 Shim	双头螺钉 Screw	扳手 Wrench	
GMA 63 R/L	3	63	76	50	22	A	SPCN1203ED R/L	GMA63 R/L-03	GMA63 R/L-02	M8×1×20	□4.0	
GMA 80 R/L	4	80	93		27							
GMA100 R/L	5	100	113		32							
GMA125 R/L	7	125	141	63	40	B	SPCN1504ED R/L	GMA125 R/L-03	GMA125 R/L-02	M10×1×22	□5.0	
GMA160 R/L	9	160	177		40							
GMA200 R/L	12	200	217		40							
GMA250 R/L	15	250	267	80 (70)	60	C (CA)	SPCN1504ED R/L	GMA125 R/L-03	GMA125 R/L-02	M10×1×22	□5.0	
GMA315 R/L	18	315	332									60
GMA350 R/L	20	350	367									60
GMA400 R/L	24	400	417	80	60	C (CA)	SPCN1504ED R/L	GMA125 R/L-03	GMA125 R/L-02	M10×1×22	□5.0	
GMA500 R/L	30	500	517									60
GMA630 R/L	36	630	647									60
GMA800 R/L	45	800	817	80	60	C (CA)	SPCN1504ED R/L	GMA125 R/L-03	GMA125 R/L-02	M10×1×22	□5.0	

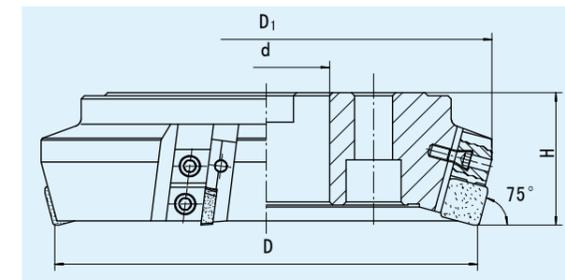
需要括号内尺寸 (H=70), 请订货时说明。Brackets need to size (H = 70), please note when ordering.

该铣刀 $\gamma_0=1.5^\circ$ 、 $\lambda_s=7^\circ$,切削轻松, 排屑畅快, 适用于小功率机床上对钢和铸铁件的切削加工。
The milling tools $\gamma_0 = 1.5^\circ$, $\lambda_s = 7^\circ$, cutting it easy, Chip removal coziness for low-power machine for steel and cast-iron pieces machine cutting.



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension		莫氏 圆锥号 Morse taper No	刀片 Inserts	配 件 Parts			
		D	D ₁			压块 Wedge	刀垫 Shim	双头螺钉 Screw	扳手 Wrench
GMA 63MW R/L	3	63	76	MW4	SPCN1203EDR/L	GMA63R/L-03	GMA63R/L-02	M8×1×20	□4.0
GMA 80MW R/L	5	80	93						
GMA100MW R/L		100	113						

该铣刀 $\gamma_0=5^\circ$ 、 $\lambda_s=7^\circ$,切削平稳、畅快, 适用于对钢和铸铁件的切削加工。
The milling tools $\gamma_0 = 5^\circ$, $\lambda_s = 7^\circ$, cutting a smooth, coziness, suitable for medium, low carbon steel and cast-iron pieces machine cutting.



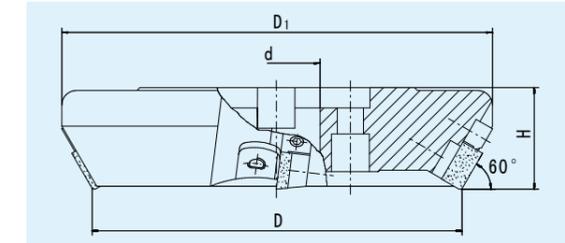
型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts					
		D	D ₁	H	d	型式 Mode		压块 Wedge	调节螺钉 Blades	刀垫 Shim	双头螺钉 Screw	扳手 Wrench	
GMC 63 R/L	3	63	76	50	22	A	SPCN1203EDR/L	GMC63R/L-04	GMC63-02	GMC63R/L-03	GMC63-05 M8×1×20	S3.0 □4.0	
GMC 80 R/L	4	80	93		27								
GMC100 R/L	5	100	113		32								
GMC125 R/L	7	125	137	63	40	B	SPCN1504EDR/L	GMC125 R/L-04	GMC125-02	GMC125 R/L-03	GMC125-05 M10×1×22	S4.0 □5.0	
GMC160 R/L	9	160	172		40								
GMC200 R/L	12	200	212		40								
GMC250 R/L	15	250	262	80 (70)	60	C (CA)	SPCN1504EDR/L	GMC125 R/L-04	GMC125-02	GMC125 R/L-03	GMC125-05 M10×1×22	S4.0 □5.0	
GMC315 R/L	18	315	327										60
GMC350 R/L	20	350	362										60
GMC400 R/L	24	400	412	100	60	C (CA)	SPCN1504EDR/L	GMC125 R/L-04	GMC125-02	GMC125 R/L-03	GMC125-05 M10×1×22	S4.0 □5.0	
GMC500 R/L	30	500	512										60
GMC630 R/L	36	630	642										60
GMC800 R/L	45	800	812	100	60	C (CA)	SPCN1504EDR/L	GMC125 R/L-04	GMC125-02	GMC125 R/L-03	GMC125-05 M10×1×22	S4.0 □5.0	

需要括号内尺寸 (H=70), 请订货时说明。Brackets need to size (H = 70), please note when ordering.

可转位重型面铣刀 Kr 60°

Indexable heavy duty face mills Kr 60°

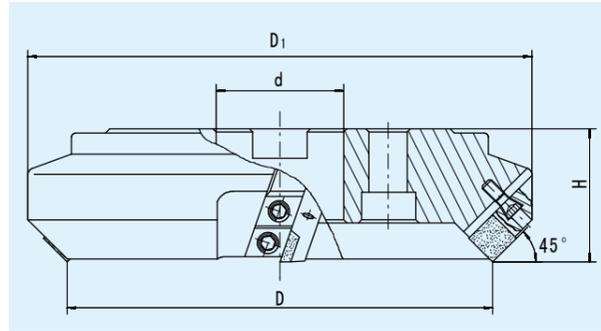
该铣刀 $\gamma_0=6^\circ$ 、 $\lambda_s=7^\circ$, 主要适用于钢大余量切削加工。
The milling tools $\gamma_0 = 6^\circ$, $\lambda_s = 7^\circ$, mainly suitable for medium, low carbon steel big margin machine cutting.



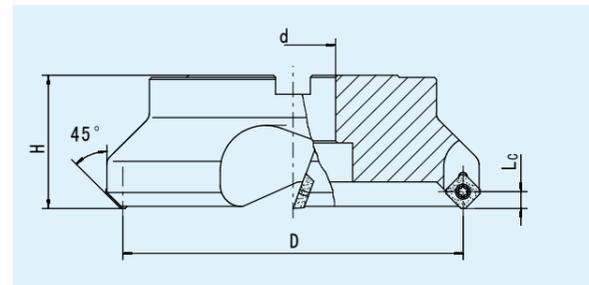
型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts				
		D	D ₁	H	d	型式 Mode		压块 Wedge	长刀垫 Long shim	方刀垫 Square shim	双头螺钉 Screw	扳手 Wrench
CMC200 R/L	6	200	243	70	60	CA (C)	LNCN2907ZP R/L	CMC R/L-02	CMC-05	CMC-06	M12×1	S6.0
CMC250 R/L	8	250	293									
CMC315 R/L	10	315	358									
CMC350 R/L	12	350	393	80	60	CA (C)	LNCN2907ZP R/L	CMC R/L-02	CMC-05	CMC-06	M12×1	S6.0
CMC400 R/L	15	400	443									
CMC500 R/L	18	500	543									

该铣刀切削轻快, 抗震性能好, 适用于中低碳钢、不锈钢、钛合金、铸铁件等材料的切削加工, 也适用于低功率机床的切削加工。

The milling tools cutting resilience, aseismatic performance good, applied to medium ,low carbon steel, stainless steel, titanium alloy, cast-iron pieces, and other material for machine cutting, but also to low-power machine cutting.

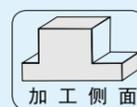
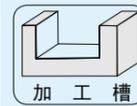
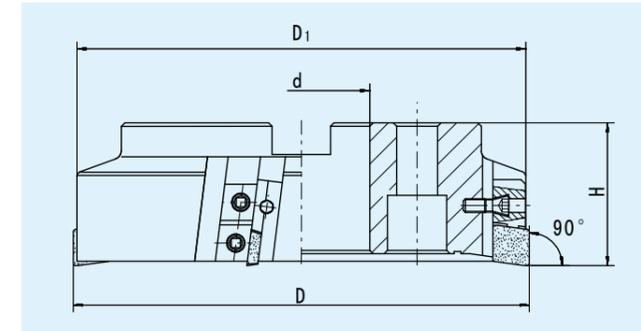


型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation	刀片 Blades	配件 Parts					
		D	D ₁	H			d	型式 Mode	压块 Wedge	调节螺钉 Screw	刀垫 Shim	双头螺钉 Screw
SGMC 63 R/L	3	63	100	50	22	A	SECN1203AFN	SGMC63 R/L-03	GMC63-02	SGMC63 R/L-02	GMC63-05 M8×1×20	S3.0 □4.0
SGMC 80 R/L	4	80	117									
SGMC100 R/L	5	100	137									
SGMC125 R/L	7	125	162	63	27	B	SECN1504AFN	SGMC125 R/L-03	GMC125-02	SGMC125 R/L-02	GMC125-05M10×1×22	S4.0 □5.0
SGMC160 R/L	9	160	197									
SGMC200 R/L	12	200	237									
SGMC250 R/L	15	250	287	60	32	C (CA)						
SGMC315 R/L	18	315	352									



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				刀片 Blades	配件 Parts	
		D	d ₁	L	L _c		梅花螺钉 Screw	扳手 Wrench
SGMB 50 R/L	4	50	22	40	6	SECW1204AFN	L60M5×11	T20
SGMB 63 R/L	5	63						
SGMB 80 R/L	6	80	27	50				
SGMB100 R/L	7	100	32	63				
SGMB125 R/L	8	125	40					

该铣刀 $\gamma_0=5^\circ$, $\lambda_s=7^\circ$, 切削平稳、畅快, 适用于对钢和铸铁件的切削加工。
The milling tools $\gamma_0 = 5^\circ$, $\lambda_s = 7^\circ$, cutting a smooth, coziness, suitable for medium ,low carbon steel and cast-iron pieces machine cutting.



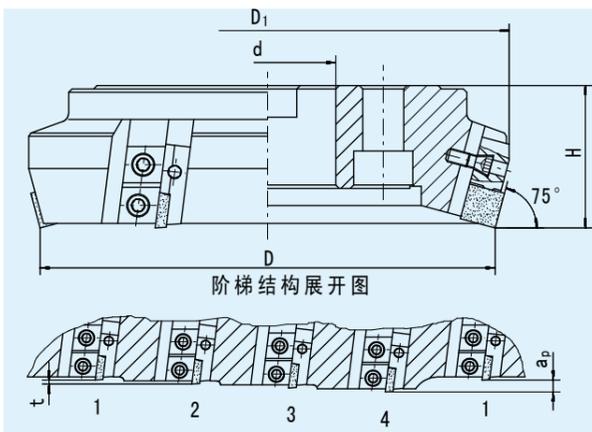
型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation	刀片 Inserts	配件 Parts					
		D	D ₁	H			d	型式 Mode	压块 Wedge	调节螺钉 Screw	刀垫 Shim	双头螺钉 Screw
ZMC100 R/L	5	100	96	50	32	B	82°4XH16 Y/Z	ZMC125 R/L-03	GMC 125-02	ZMC125 R/L-02	ZMC100-02 M10×1×18	S4.0 □5.0
ZMC125 R/L	6	125	121									
ZMC160 R/L	9	160	156									
ZMC200 R/L	12	200	196	63	40	C (CA)					GMC125-05 M10×1×21	S4.0 □5.0
ZMC250 R/L	15	250	246									
ZMC315 R/L	18	315	311									
ZMC350 R/L	20	350	346	80	60							
ZMC400 R/L	24	400	396									
ZMC500 R/L	30	500	496	(70)								

需要括号内尺寸 (H=70), 请订购时说明. Brackets need to size (H = 70), please note when ordering.

可转位阶梯面铣刀 Kr 75°

Indexable ladder face mills Kr 75°

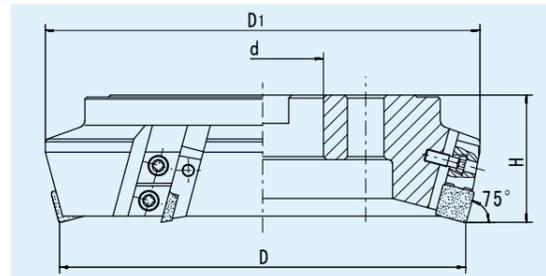
该铣刀 $\gamma_0=5^\circ$, $\lambda_s=7^\circ$ 采用分层切削形式, 减轻切削力。适用于对薄壁件和小功率机床上的大余量切削。
The milling tools $\gamma_0 = 5^\circ$, $\lambda_s = 7^\circ$ stratified cutting mode, to reduce cutting force. suitable for thin wall and cutting large margin on the small power machine.



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension					安装 Installation	刀片 Blades	配件 Parts					
		D	D ₁	H	t	a _p			d	型式 System	压块 Wedge	调节螺钉 Adjust screw	刀垫 Shim	双头螺钉 Screw
JTMC125R/L	7	125	135	63	03~30	2.5~23	40	B	SPCN1504 EDRL	GMC125 R/L-04	GMC 125-02	GMC125 R/L-03	GMC125-05M10×1×22	S4.0 □5.0
JTMC160R/L	9	160	170											
JTMC200R/L	12	200	210											
JTMC250R/L	15	250	260	80			60	C (CA)						
JTMC315R/L	18	315	325											
JTMC350R/L	20	350	360											
JTMC400R/L	24	400	410											
JTMC500R/L	30	500	510											

该铣刀 $\gamma_0=15^\circ$ 、 $\lambda_s=15^\circ$ ，主要适用于铝合金的铣削加工。
The milling tools $\gamma_0=15^\circ$, $\lambda_s=15^\circ$, the main applied to aluminum alloy the milling machining.

A6

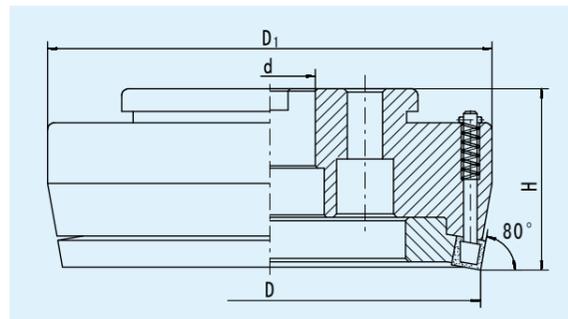


型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts				
		D	D ₁	H	d	型式 mode		压块 Wedge	调节螺钉 Screw	刀垫 Shim	双头螺钉 Screw	扳手 Wrench
LMC 63R/L	3	63	76	50	22	A	SFCN1203 EFR/L	LMC63 R/L-03	GMC63-02	LMC63 R/L-02	GMC63-05 M8×1×20	S3.0 □4.0
LMC 80R/L	4	80	93		27							
LMC 100R/L	5	100	113		32							
LMC 125R/L	7	125	139	63	40	B	SFCN1504 EFR/L	LMC125 R/L-03	GMC 125-02	LMC125 R/L-02	GMC125-05 M10×1×22	S4.0 □5.0
LMC 160R/L	9	160	174		40							
LMC 200R/L	12	200	214		40							
LMC 250R/L	15	250	264	70	60	C (CA)	SFCN1504 EFR/L	LMC125 R/L-03	GMC 125-02	LMC125 R/L-02	GMC125-05 M10×1×22	S4.0 □5.0
LMC 315R/L	18	315	329									
LMC 350R/L	20	350	364									
LMC 400R/L	24	400	414	80	60	C (CA)	SFCN1504 EFR/L	LMC125 R/L-03	GMC 125-02	LMC125 R/L-02	GMC125-05 M10×1×22	S4.0 □5.0
LMC 500R/L	30	500	514									
LMC 630R/L	36	630	644									
LMC 800R/L	40	800	814									

可转位弹夹式密齿面铣刀 Kr 80°

Indexable dense toothed face mills with spring clamped Kr 80°

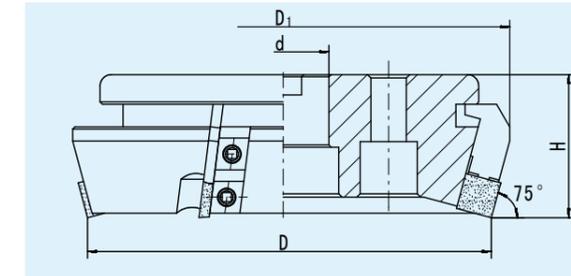
该铣刀 $\gamma_0=2^\circ$ 、 $\lambda_s=-4^\circ$ 采用弹簧夹紧结构，稳定可靠，更换刀片方便、快捷，适用于大走刀流水作业加工。
The milling tools $\gamma_0=2^\circ$, $\lambda_s=-4^\circ$ using a spring clamp structure, stable and reliable, replacement blade easily shortcut, and apply to the big feed movement pipelining.



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts				
		D	D ₁	H	d	型式 Mode		拉杆 Draw rod	弹簧 Spring	垫圈 Washer	扳手 Wrench	限位销 limit dowel
MM125 R/L	12	125	135	80	40	B	SPCN1504 ZPR/L	MML117	MML127	MML118	MML107	MML110
MM160 R/L	18	160	170		40							
MM200 R/L	24	200	210		40							
MM250 R/L	30	250	260	60	60	C (CA)	SPCN1504 ZPR/L	MML117	MML127	MML118	MML107	MML110
MM315 R/L	36	315	325									
MM350 R/L	40	350	360									
MM400 R/L	45	400	410									
MM500 R/L	60	500	510									

该铣刀 $\gamma_0=5^\circ$ 、 $\lambda_s=7^\circ$ 适用于对铸铁的大走刀流水作业加工。
The milling tools $\gamma_0=5^\circ$, $\lambda_s=7^\circ$ suitable for medium and low carbon steel, cast-iron pieces to the big feed movement pipelining.

A7



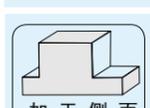
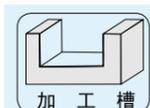
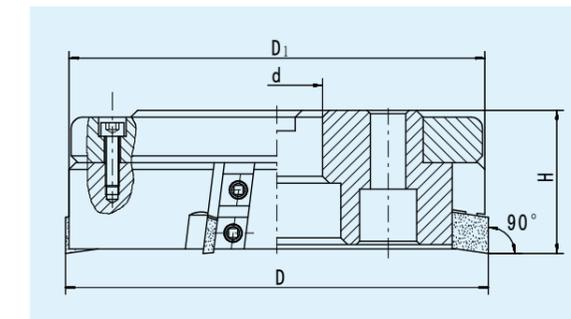
型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts			
		D	D ₁	H	d	型式 Mode		压块 Wedge	刀垫 Shim	双头螺钉 Screw	扳手 Wrench
MMA100 R/L	10	100	113	50	32	B	SPCN1203EDR/L	MMA100R/L-03	MMA100R/L-02	GMC63-05 M8×1×20	□4.0
MMA125 R/L	12	125	141	63	40						
MMA160 R/L	16	160	177		40						
MMA200 R/L	20	200	218	80 (70)	60	C (CA)	SPCN1504EDR/L	MMA125R/L-03	MMA125R/L-02	GMC63-05 M8×1×20	□4.0
MMA250 R/L	24	250	268								
MMA315 R/L	30	315	333								
MMA350 R/L	36	350	368								
MMA400 R/L	40	400	418								
MMA500 R/L	45	500	518								

需要括号内尺寸 (H=70)，请订购时说明。 Brackets need to size (H = 70), please note when ordering.

可转位刀垫式密齿面铣刀 Kr 90°

Indexable dense toothed face mills with shim mode Kr 90°

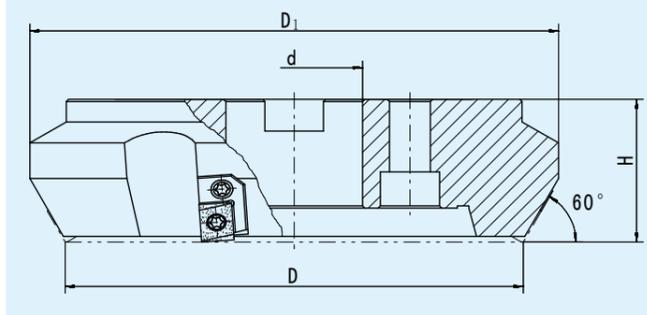
该铣刀 $\gamma_0=5^\circ$ 、 $\lambda_s=7^\circ$ 主要用于带台阶面的中、低碳钢、铸铁的大走刀流水作业加工。
The milling tools $\gamma_0=5^\circ$, $\lambda_s=7^\circ$ mainly with the step surface, medium and low carbon steel, cast-iron pieces a big feed movement pipelining.



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts			
		D	D ₁	H	d	型式 Mode		压块 Wedge	刀垫 Shim	双头螺钉 Screw	扳手 Wrench
ZMMA100 R/L	10	100	97	50	32	B	82°4XH16Y/Z	ZMMA125 R/L-02	ZMMA R/L-04	GMC63-05 M8×1×20	□4.0
ZMMA125 R/L	12	125	122	63	40						
ZMMA160 R/L	16	160	157		40						
ZMMA200 R/L	20	200	196	80 (70)	60	C (CA)	82°4XH16Y/Z	ZMMA125 R/L-02	ZMMA R/L-04	GMC63-05 M8×1×20	□4.0
ZMMA250 R/L	24	250	246								
ZMMA315 R/L	30	315	311								
ZMMA350 R/L	36	350	346								
ZMMA400 R/L	40	400	396								
ZMMA500 R/L	45	500	496								

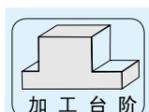
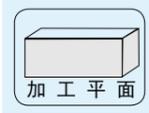
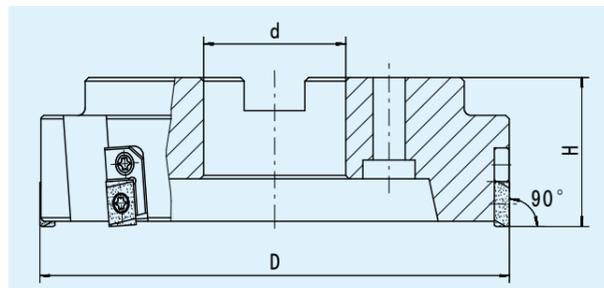
需要括号内尺寸 (H=70)，请订购时说明。 Brackets need to size (H = 70), please note when ordering.

轴向正前角、径向负前角，适用于中、重型工件平面的粗加工。
The axial is plus anterior angle, the radial is negative anterior angle, suitable for rough machining of medium, heavy duty workpiece plane.



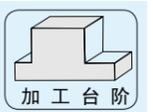
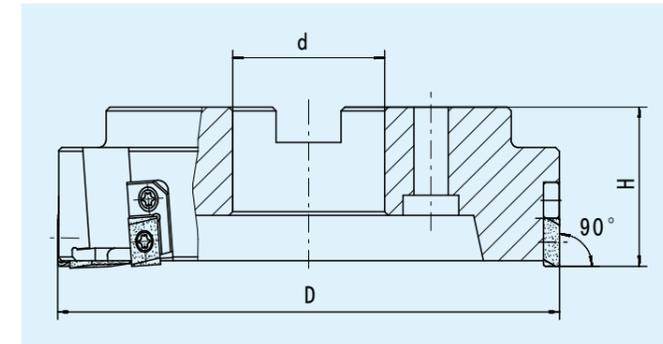
型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配件 Parts		
		D	D ₁	H	d	型式 Mode		刀片座 Blades shim	梅花螺钉 Screw	扳手 Wrench
6C2K160R/L	8	160	192	63	40	B	LSE434R/L01	NE04-10	L82M5×15	T20
6C2K200R/L	10	200	232		60	C (CA)				
6C2K250R/L	12	250	282		80	C (CA)				
6C2K315R/L	15	315	347	80	60	C (CA)	LSE446R/L01	NE04R13	L82M5×19	T20
6C2L200R/L	8	200	242							
6C2L250R/L	10	250	292							
6C2L315R/L	12	315	356							
6C2L400R/L	16	400	441							

轴向、径向均为负前角，适用于钢、铸铁工件的台阶面或平面的粗加工。
The axial, radial anterior angle is negative, suitable for steel, cast-iron parts for the rough machining step surface or plane.



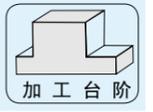
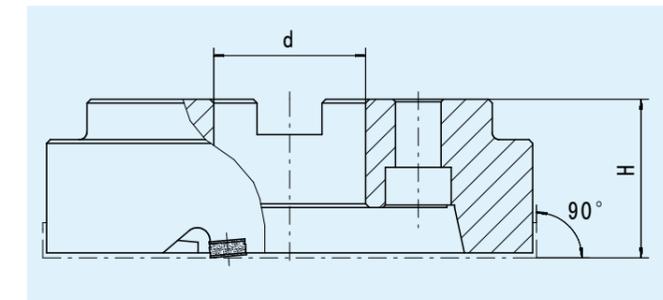
型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension		安装 Installation		刀片 Blades	配件 Parts		
		D	H	d	型式 Mode		刀片座 Blades shim	梅花螺钉 Screw	扳手 Wrench
6J2K160R/L	6	160	63	40	B	LSE434R/L01	NE04-10	L82M5×15	T20
6J2K200R/L	8	200		60	C (CA)				
6J2K250R/L	10	250		80	C (CA)				
6J2K315R/L	12	315	63	60	C (CA)	LSE446R/L01	NE04R13	L82M5×19	T20
6J2L200R/L	9	200							
6J2L250R/L	12	250							
6J2L315R/L	15	315							
6J2L400R/L	18	400							

圆周齿为双负前角，适用于中等传动功率机床上粗加工或粗精复合加工钢、铸铁和灰铸铁。
Blades on the circle is double negative anterior angle, suitable for medium power coarse-fine complex machine of steel and cast-iron



型号规格 Type spec	尺寸 Dimension		安装 Installation		刀片 (A) Blades (A)	刮光刀片 (B) Sleeking blades (B)	刀片数 (A/B) Blades number, (A/B)	配件 Parts			
	D	H	d	型式 Mode				刀片座 Blades shim	偏心销 Offset dowel	梅花螺钉 Screw	扳手 Wrench
6JJK160R/L	160	63	40	B	LSE434R/L01	YCE434-01	6/2	NE04-10	6F2K-02	L60M4×13	T20
6JJK200R/L	200		8/2								
6JJK250R/L	250		10/2								
6JJK315R/L	315	80	60	C(CA)			12/2			L82M5×15	
6JJK400R/L	400						16/2				

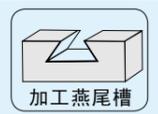
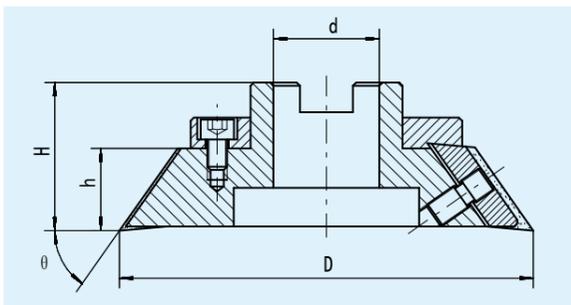
该铣刀适合于平面度、平行度和表面粗糙度要求较高的台阶、平面的精加工。
The milling tools is suitable for finish machining depth of flatness, depth of parallelism and surface roughness with higher level for step surface or plane.



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension		安装 Installation		刀片 Blades	配件 Parts		
		D	H	d	型式 Mode		偏心销 Offset dowel	梅花螺钉 Screw	扳手 Wrench
6F2K160R/L	4	160	63	40	B	YCE434-01	6F2K-02	L60M4×13	T20
6F2K200R/L	6	200							
6F2K250R/L		250							
6F2K315R/L	8	315	80	60	C (CA)			L82M5×15	
6F2K400R/L	12	400							
6F2K500R/L		500							

该铣刀主要用于机床行业燕尾槽的精铣。
The milling tools suitable for machine tool industry for dovetail groove fine machining.

A10



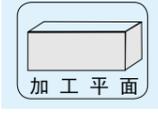
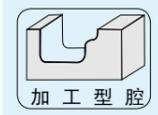
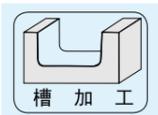
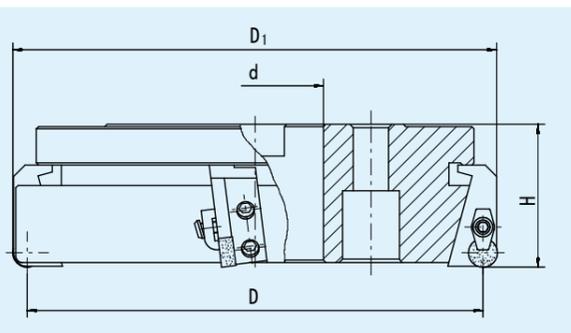
型号规格 Type spec	θ	齿数 Teeth Z	尺寸 Dimension				刀片 Blades	配 件 Parts		
			D	d	H	h		压块 Wedge	双头螺钉 Screw	扳手 Wrench
VX55D125R/L	55°	6	125	32	45	VX60D125R/L-03	VX55D125R/L-04	GMC63-05 M8×1×20	□4.0	
VX55D160R/L		8	160	40	50					
VX55D200R/L		10	200	50	50					
VX60D125R/L	60°	6	125	32	46	VX60D125R/L-04				
VX60D160R/L		8	160	40	50					
VX60D200R/L		10	200	50	52					

可转位陶瓷面铣刀

Indexable face mills tools with ceramic blades

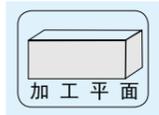
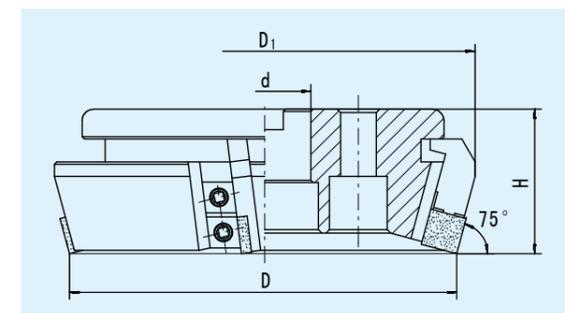
可转位陶瓷面铣刀主要用于冷硬铸铁、高锰钢、耐热合金、淬火钢等材料的切削加工，切削硬度可达HRC60，其切削性能可比硬质合金提高数倍。

Indexable face milling tools with ceramic blades for chilled cast-iron, high manganese steel, heat-resistant alloys, materials such as hardened steel cutting, cutting up to hardness of HRC60, its hard alloy cutting performance comparable to increase several times.



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts				
		D	D ₁	H	d	型式 Mode		刀垫 Shim	压板 Clamp	紧固螺钉 Screw	紧固螺钉 Screw	扳手 Wrench
TRM125R/L	7	125	135	63	40	B	RNGN120600	TRM R/L02	A-10	TRM04	TRM05	S4.0
TRM160R/L	9	160	170									
TRM200R/L	12	200	210									
TRM250R/L	15	250	260	80	60	C (CA)						
TRM315R/L	18	315	325									
TRM350R/L	20	350	360									
TRM400R/L	24	400	410									
TRM500R/L	30	500	510									

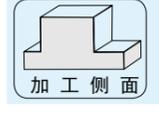
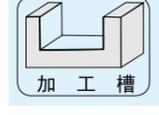
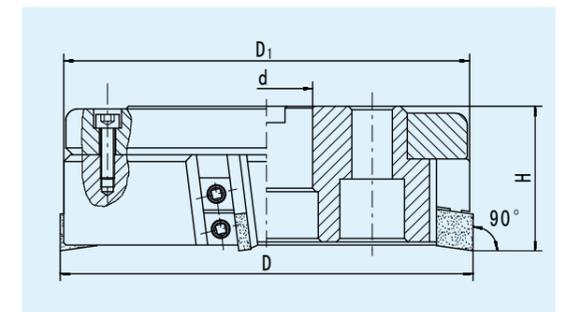
A11



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts			
		D	D ₁	H	d	型式 Mode		压块 Wedge	刀垫 Shim	双头螺钉 Screw	扳手 Wrench
TSM125 R/L	7	125	141	63	40	B	SNGN120716	TSMR/L-03	TSMR/L-02	GMC125-05 M10×1×22	□5.0
TSM160 R/L	9	160	177								
TSM200 R/L	12	200	218								
TSM250 R/L	15	250	268	80	60	C (CA)					
TSM315 R/L	18	315	333								
TSM350 R/L	20	350	368								
TSM400 R/L	24	400	418								
TSM500 R/L	30	500	518								

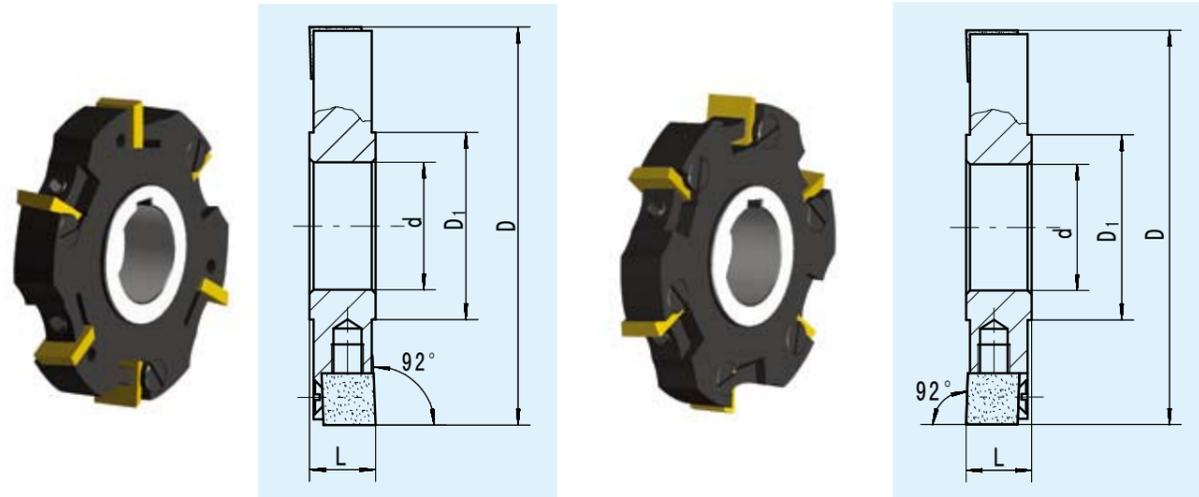
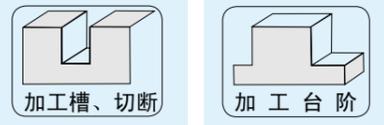
可转位陶瓷面铣刀 Kr 90°

Indexable face mills with ceramic blades Kr 90°



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			安装 Installation		刀片 Blades	配 件 Parts			
		D	D ₁	H	d	型式 Mode		压块 Wedge	刀垫 Shim	双头螺钉 Screw	扳手 Wrench
TZM125 R/L	6	125	122	63	40	B	CNGN120716	TZMR/L-03	TZMR/L-02	GMC125-05 M10×1×22	□5.0
TZM160 R/L	9	160	157								
TZM200 R/L	12	200	197								
TZM250 R/L	15	250	247	80	60	C (CA)					
TZM315 R/L	18	315	312								
TZM350 R/L	20	350	347								
TZM400 R/L	24	400	397								
TZM500 R/L	30	500	497								

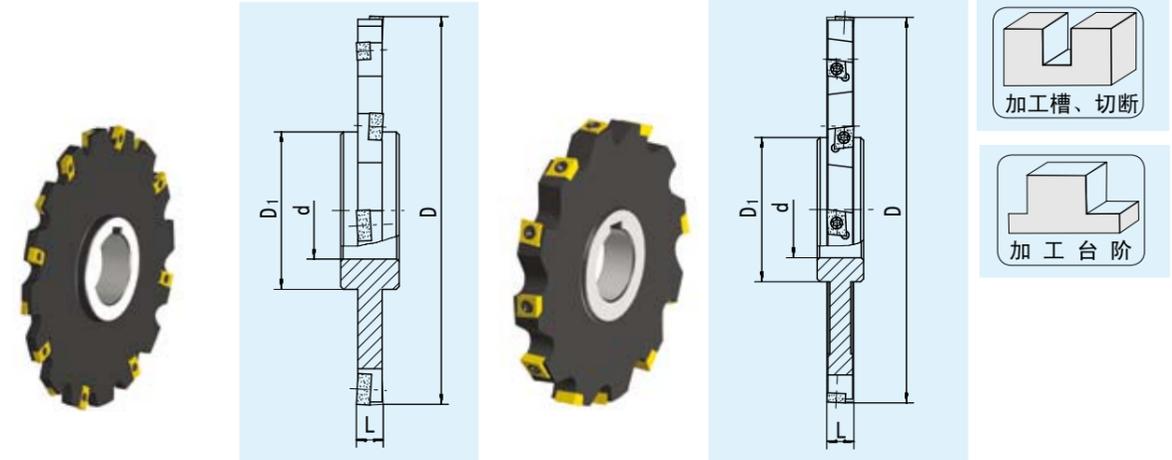
该铣刀 $\gamma_0=5^\circ$ 、 $\lambda_s=5^\circ$ 适用于带台阶或沟槽工件的加工。
The milling tools $\gamma_0 = 5^\circ$, $\lambda_s = 5^\circ$ applied machining workpiece of have step or slot.



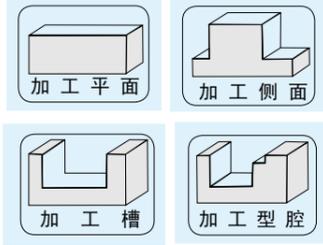
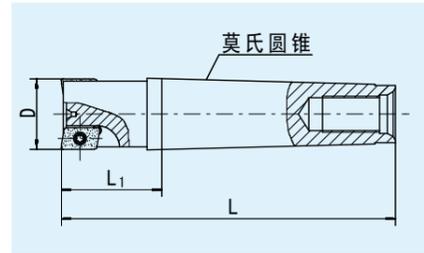
型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				
		D	D ₁	d	L	
SMD 100×L	6	100	55	32	16 18 20 22 24 26 28 30 32 36	
SMD 125×L	8	125	65	40		
SMD 140×L	10	140				
SMD 150×L		150				
SMD 160×L	10	160	40	16 18		
	12			20 22 24 26 28 30 32 36		
SMD 175×L	12	175	75	50		16 18 20 22 24 26 28 30 32 36
SMD 200×L	14	200				16 18 20 22 24 26 28
	12					30 32 36
SMD 250×L	18	250	16 18	20 22 24 26 28 30 32 36		
	16		16 18 20 22 24 26 28 30 32 36			
SMD 280×L	18	280	75	50		16 18
SMD 315×L	20	315			20 22 24 26 28 30 32 36	
	18				16 18	
SMD 350×L	24	350	16 18	20 22 24 26 28 30 32 36		
	20		16 18 20 22 24 26 28 30 32 36			
SMD 400×L	24	400	75	50	16 18 20 22 24 26 28 30 32 36	
SMD 500×L	30	500			16 18 20 22 24 26 28 30 32 36	

规格范围 Spec confine	刀片 Blades		配件 Parts				
	右刀片 Right blades	左刀片 Left blades	左压块 Left wedge	右压块 Right wedge	双头螺钉 Screw	定位螺钉 Screw	支紧螺钉 Screw
16	88° 4XH13Y	88° 4XH13Z	SML01	SML02	SML13	SML14	SML16
18			SML03	SML04			
20	88° 4XH16Y	88° 4XH16Z	SML05	SML06		SML15	SML17
22			SML07	SML08			
24 26 28			SML09	SML10			
30 36			SML11	SML12			

该铣刀径向、轴向均为正前角，适合于加工钢、铸铁，铣削平稳。
The milling tools radial, axial is both plus anterior angle suitable for machining steel, cast-iron, smooth milling.

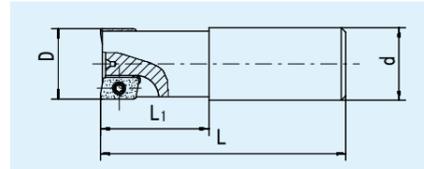


型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	D ₁	d	L			
KCX100-L	8	100	55	32	8~9	LNEU1504	L60M4×8.4	T15
					9~10	SNEU1205	L60M5×10	T20
					10~12	SNEU1206		
KCX125-L	10	125	65	40	8~9	LNEU1504	L60M4×8.4	T15
					9~10	SNEU1205	L60M5×10	T20
					10~12	SNEU1206		
KCX160-L	12	160	65	40	8~9	LNEU1504	L60M4×8.4	T15
					9~10	SNEU1205	L60M5×10	T20
					10~12	SNEU1206		
					12~14	SNEC1507	L90M5×12	T15
					14~16	CDEU0904R/L	L60M4×8.4	T15
					16~20	CDEU1206R/L	L60M5×12	T20
KCX200-L	16	200	75	50	8~9	LNEU1504	L60M4×8.4	T15
					9~10	SNEU1205	L60M5×10	T20
					10~12	SNEU1206		
	14				12~14	SNEC1507	L90M5×12	T15
					14~16	CDEU0904R/L	L60M4×8.4	T15
					16~20	CDEU1206R/L	L60M5×12	T20
KCX250-L	18	250	90	60	20~28	CDEU1606R/L	L60M5×12	T20
					10~12	SNEU1206	L60M5×10	T20
					12~14	SNEC1507	L90M5×12	
	16				14~16	CDEU0904R/L	L60M4×8.4	T15
					16~20	CDEU1206R/L	L60M5×12	T20
					20~28	CDEU1606R/L	L60M5×12	T20
KCX315-L	22	315	90	60	10~12	SNEU1206	L60M5×10	T20
					12~14	SNEC1507	L90M5×12	
					14~16	CDEU0904R/L	L60M4×8.4	T15
	20				16~20	CDEU1206R/L	L60M5×12	T20
					20~28	CDEU1606R/L		
					16~20	CDEU1206R/L		
KCX350-L	22	350	20~28	CDEU1606R/L				
			16~20	CDEU1206R/L				
KCX400-L	24	400	16~20	CDEU1206R/L				
			20~28	CDEU1606R/L				
KCX500-L	30	500	16~20	CDEU1206R/L				
			20~28	CDEU1606R/L				



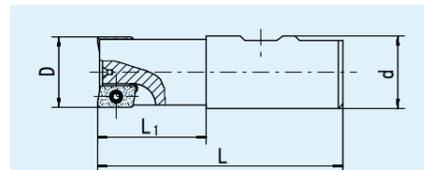
莫氏圆锥柄 Morse taper shank

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			莫氏圆锥号 Morse taper No	刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	L	L ₁				
LXM 16	2	16	111	30	MW3	APMT1135PDER	L60M2.5×5.8	T8
LXM 20		20	116	35				
LXM 25		25	124	43				
LXM 32	3	32	147	44.5	MW4	APMT1604PDER	L60M4×10	T15
LXM 40	4	40	157	54.5				
LXM 50		50						
LXM 63		63						



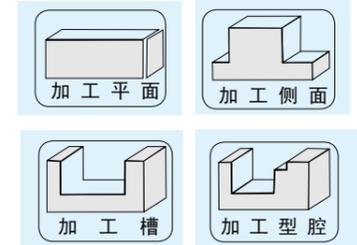
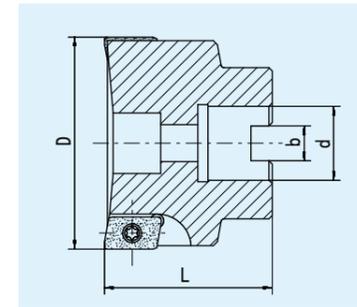
圆柱柄 Cylinder handle

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	L	L ₁	d			
LXY 16-150	2	16	150	85	16	APMT1135PDER	L60M2.5×5.8	T8
LXY 20-170		20	170	35	20			
LXY 25-210		25	210	40	25			
LXY 32-210	32							
LXY 40-250	4	40	250	73	32	APMT1604PDER	L60M4×10	T15
LXY 50-250		50						
LXY 63-300	5	63	300	50	42			



削平柄 Cut flat handle

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	L	L ₁	d			
LXX 16-100	2	16	100	52	16	APMT1135PDER	L60M2.5×5.8	T8
LXX 20-120		20	120	70	20			
LXX 25-130		25	130	74	25			
LXX 32-150	3	32	150	90	32	APMT1604PDER	L60M4×10	T15
LXX 40-170		40						
LXX 50-170	4	50	170	100	40			
LXX 63-180		63						

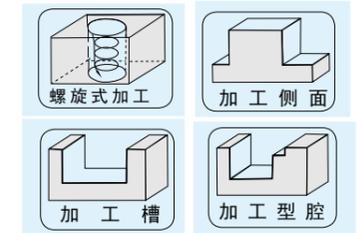
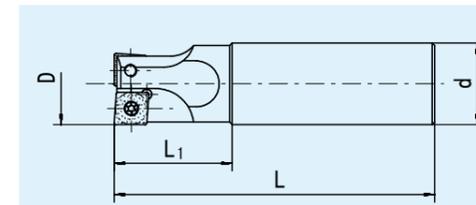


套式 Shell

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	L	d	b			
LXT 50	4	50	50	22	10.4	APMT1604PDER	L60M4×10	T15
LXT 63	5	63		27	12.4			
LXT 80	6	80		32	14.4			
LXT 100	7	100	63					

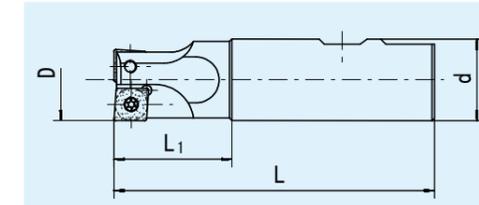
可转位钻铣刀

Indexable drill-milling tools



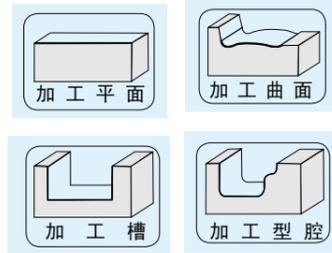
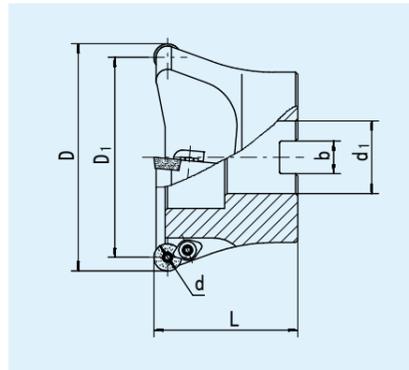
圆柱柄 Cylinder handle

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	L	L ₁	d			
ZXY 1605-120	2	16	120	30	16	CPGT050204	L60M2.5×5.8	T8
ZXY 2007-120		20			MPMT070308	L60M3×7.7		
ZXY 2509-115		25	115	35	25	MPMT090308	L60M4×10	T15
ZXY 3212-125		32	125	45	32	MPMT120408	L60M5×10	T20
ZXY 4012-156		40	156	56	42			



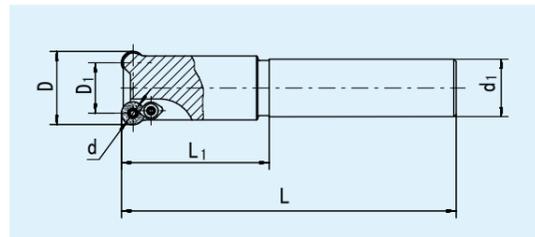
削平柄 Cut flat handle

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	L	L ₁	d			
ZXX 1605-120	2	16	120	30	16	CPGT050204	L60M2.5×5.8	T8
ZXX 2007-120		20			MPMT070308	L60M3×7.7		
ZXX 2509-115		25	115	35	25	MPMT090308	L60M4×10	T15
ZXX 3212-125		32	125	45	32	MPMT120408	L60M5×10	T20
ZXX 4012-156		40	156	56	40			



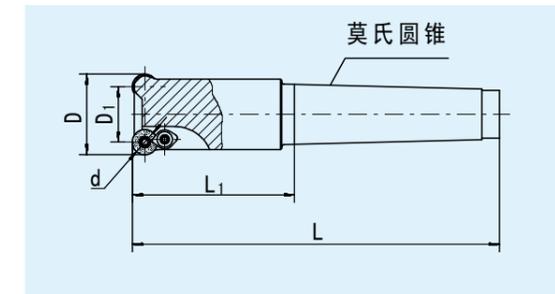
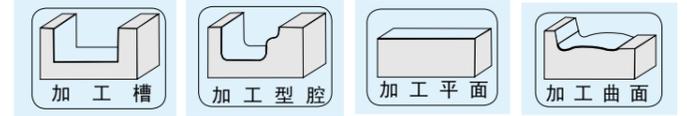
套式 Sheath mode

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension						刀片 Blades	刀片用梅花螺钉 Screw	压板 Hold down piece	压板用梅花螺钉 Screw	扳手 Wrench
		D	D ₁	d	d ₁	b	L					
RMT 5012	4	50	38	12	22	10.4	50	RPMT 1204M0E	L60M4×10	YR-16	L60M5×10	T15 T20
RMT 6312		63	51									
RMT 8012		80	68									
RMT 10012		100	88									



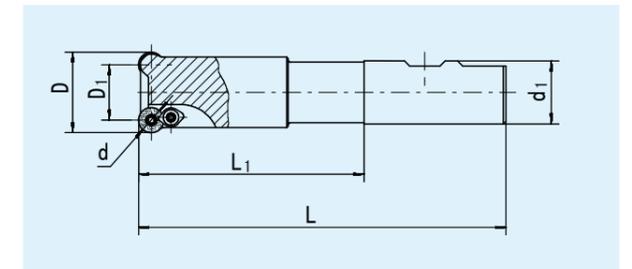
圆柱柄 Cylinder handle

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension						刀片 Blades	刀片用梅花螺钉 Screw	压板 Hold down piece	压板用梅花螺钉 Screw	扳手 Wrench						
		D	D ₁	d	L	L ₁	d ₁											
RMY1608-085	2	16	8	8	40	16	RPMT08T2M0E	L60M3×7.7	YR-15	L60M3.5×8.2	T8 T10							
RMY1608-150												150						
RMY2008-100		20	12									100						
RMY2008-180												180						
RMY2008-250												250						
RMY2510-120	3	25	15	10	25	RPMT10T3M0E	L60M4×10	YR-16	L60M5×10	T10 T15								
RMY2510-200											200							
RMY2510-300											300							
RMY3210-130		32	22								130							
RMY3210-200											200							
RMY3210-300	300																	
RMY4012-150	4	40	28	12	55	RPMT1204M0E	L60M4×10	YR-16	L60M5×10	T15 T20								
RMY4012-250											250							
RMY4012-300											300							
RMY5012-150		50	38								12	55	42	RPMT1204M0E	L60M4×10	YR-16	L60M5×10	T15 T20
RMY5012-250																		
RMY5012-300	300																	
RMY6312-150	63	51	12	55	42	RPMT1204M0E	L60M4×10	YR-16	L60M5×10	T15 T20								
RMY6312-250																		
RMY6312-300											300							



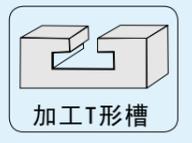
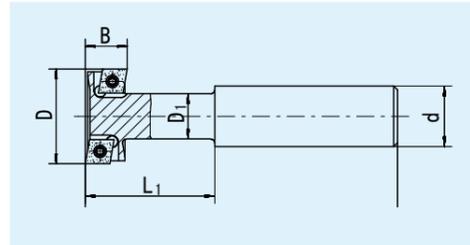
莫氏锥柄 Morse taper shank

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension					莫氏 圆锥号 Morse taper no	刀片 Blades	刀片用梅花螺 Screw	压板 Hold down piece	压板用梅花螺钉 Clamp screw	扳手 Wrench
		D	D ₁	d	L	L ₁						
RMM1608-125	2	16	8	8	125	61	MW2	RPMT08T2M0E	L60M3×7.7	YR-15	L60M3.5×8.2	T8 T10
RMM2008-125		20	12									
RMM2510-145	3	25	15	10	145	64	MW3	RPMT10T3M0E	L60M4×10	YR-16	L60M5×10	T10 T15
RMM3210-145		32	22									
RMM4012-180	4	40	28	12	180	77.5	MW4	RPMT1204M0E	L60M4×10	YR-16	L60M5×10	T15 T20
RMM5012-180		50	38									
RMM6312-180		63	51									



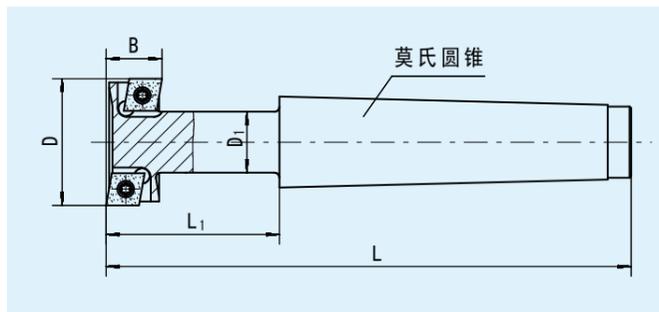
削平柄 Cut flat handle

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension						刀片 Blades	刀片用梅花螺钉 Screw	压板 Hold down piece	压板用梅花螺钉 Clamp screw	扳手 Wrench		
		D	D ₁	d	L	L ₁	d ₁							
RMX1608-085	2	16	8	8	85	37	16	RPMT08T2M0E	L60M3×7.7	YR-15	L60M3.5×8.2	T8 T10		
RMX2008-100		20	12										100	50
RMX2510-120	3	25	15	10	120	64	25	RPMT10T3M0E	L60M4×10	YR-16	L60M5×10	T10 T15		
RMX3210-130		32	22										130	70
RMX4012-150	4	40	28	12	150	80	32	RPMT1204M0E	L60M4×10	YR-16	L60M5×10	T15 T20		
RMX5012-150		50	38										90	40
RMX6312-150		63	51											



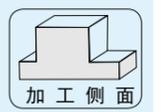
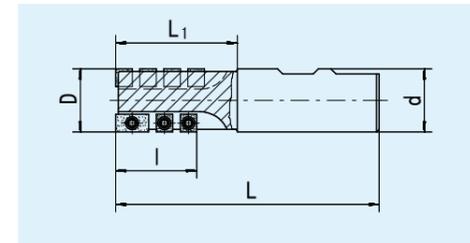
圆柱柄 Cylinder handle

型号规格 Type spec	T形槽尺寸 T-slot dimension	齿数 Teeth Z	尺寸 Dimension						刀片 Blades	梅花螺钉 Screw	扳手 Wrench
			D	D ₁	B	L	L ₁	d			
KTXZ 1221	12	2	21	10	9	74	29	12	CPGT050204	L60M2.5×6	T8
KTXZ 1425	14	4	25	12	11	82	34	16	CCMT060204		
KTXZ 1832	18		32	15	14	90	40	16	CCMT090304	L60M4×8	T15
KTXZ 2240	22		40	19	18	108	53	25	CCMT09T304		
KTXZ 2850	28		50	25	22	124	64	32	CCMT120404	L60M5×10	T20



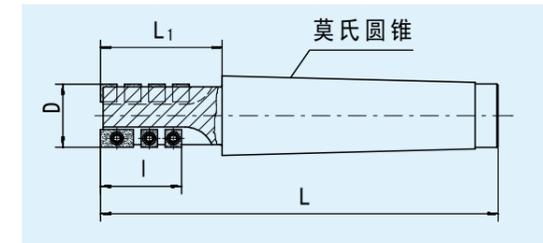
莫氏圆锥柄 Morse taper shank

型号规格 Type spec	T形槽尺寸 T-Slot dimension	齿数 Teeth Z	尺寸 Dimension						莫氏圆锥号 Morse taper no	刀片 Blades	梅花螺钉 Screw	扳手 Wrench
			D	D ₁	B	L	L ₁					
KTXM 1221	12	2	21	10	9	74	29	MW2	CPGT050204	L60M2.5×6	T8	
KTXM 1425	14	4	25	12	11	82	34		CCMT060204			
KTXM 1832	18		32	15	14	90	40	CCMT090304	L60M4×8	T15		
KTXM 2240	22		40	19	18	108	53	MW3			CCMT09T304	
KTXM 2850	28		50	25	22	124	64	MW4	CCMT120404	L60M5×10	T20	



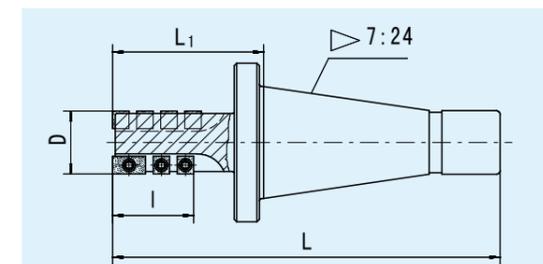
削平型直柄 Cut flat handle

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension					端齿刀片(A) End blades (A)	周齿刀片(B) Circle blades (B)	刀片数(A/B) Blades Numbers(A/B)	梅花螺钉 Screw	扳手 Wrench
		D	l	L ₁	L	da					
KLXX 32	2	32	43	65	125	32	ADHW150308 (ADMT150308)	SDHW090308 (SDMT090308)	1/5	L43M4×9	T15
KLXX 40	4	40	50	75	145	40	APHW160408 (APMT160408)	SPHW120408 (SPMT120408)	2/12		
KLXX 50		50	56	80	160	50			2/10	L43M5×11	T20



莫氏圆锥柄 Morse taper shank

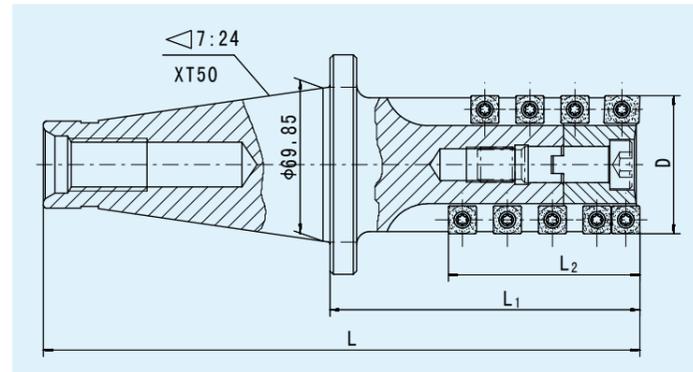
型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				莫氏圆锥号 Morse taper no	端齿刀片(A) End blades (A)	周齿刀片(B) Circle blades (B)	刀片数(A/B) Blades numbers	梅花螺钉 Screw	扳手 Wrench
		D	l	L ₁	L						
KLXM 32	2	32	43	66	175	MW4	ADHW150308 (ADMT150308)	SDHW090308 (SDMT090308)	1/5	L43M4×9	T15
KLXM 40	4	40	50	79	188		2/12				
KLXM 50		50	56	84	193		2/10	L43M5×11	T20		



7:24锥柄 7:24 Taper shank

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				7:24锥柄 7:24 Taper shank	端齿刀片(A) End blades (A)	周齿刀片(B) Circle blades (B)	刀片数(A/B) Blades Numbers	梅花螺钉 Screw	扳手 Wrench
		D	l	L ₁	L						
XT40-KLX 32	2	32	43	65	175	XT40	ADHW150308 (ADMT150308)	SDHW090308 (SDMT090308)	1/15	L43M4×9	T15
XT40-KLX 40	4	40	50	93	190				2/12		
XT50-KLX 50		50	76	133.2	260	XT50	APHW160408 (APMT160408)	SPHW120408 (SPMT120408)	2/14		
XT50-KLX 63		63	86	143	270				2/16		
XT50-KLX 80		80	96	153	280				3/27		
XT50-KLX100	6	100	106	163	290			3/30	L43M5×11	T20	

注：其它柄部连接型式，订货时请加以说明。 Note: Other types of shank connection, please order to illustrate this.

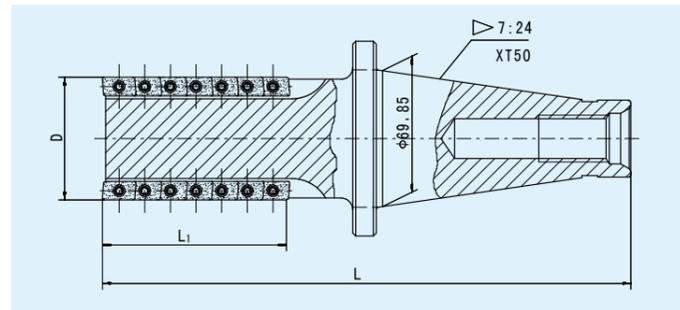


型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				可换头 Changeable head	刀头螺钉 Screw	端齿刀片(A) End blades (A)	周齿刀片(B) Circle Blades (B)	刀片数(A/B) Blades numbers	梅花螺钉 Screw	扳手 Wrench
		D	L	L ₁	L ₂							
XT50-KKLX 63	4	63	270	143.6	86	KKLX63-02	KKLX63-03	APHW 160408	SPHW 120408	2/16	L43M 5×11	T20,S10
XT50-KKLX 80	6	80	280	153.6	96	KKLX80-02	KKLX80-03	(APMT 160408)	(SPMT 120408)	3/27		T20,S12
XT50-KKLX100	6	100	290	163.6	106	KKLX100-02	KKLX100-03			3/30		

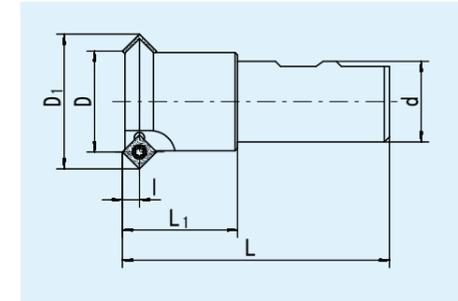
注：其它柄部连接型式，订货时请加以说明。 Note: Other types of stem connection, please order to illustrate this.

可转位密齿螺旋立铣刀

Indexable helical end mills

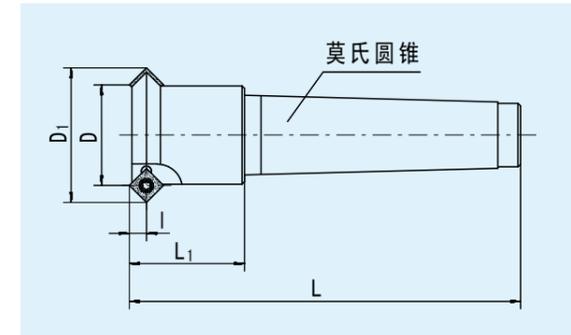


型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			刀片 Inserts	刀片数 Inserts numbers	梅花螺钉 Screw	扳手 Wrench
		D	L	L ₁				
XT50-KLX 50M	3	50	250	81	APMT1604PDER	L60M4×10	T15	
XT50-KLX 63M	3	63	270	87				
XT50-KLX 80M	5	80	280	92				
XT50-KLX100M	6	100	290	115				



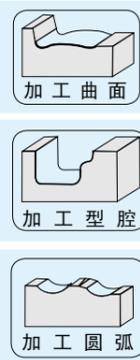
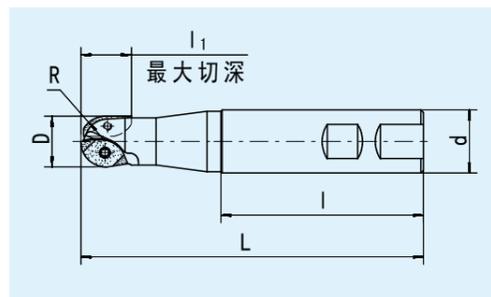
削平型直柄 Cut flat handle

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension						刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	D ₁	L	L ₁	l	d			
DLX 20	2	20	32.8	85	35	5.8	SDHW090308	L43M4×10	T15	
DLX 25		25	37.8	96	40					
DLX 32	3	32	44.8	100						40
DLX 40	4	40	52.8	120	50	8	SPHW120408	L43M5×10	T20	
DLX 50		50	67.3	130						



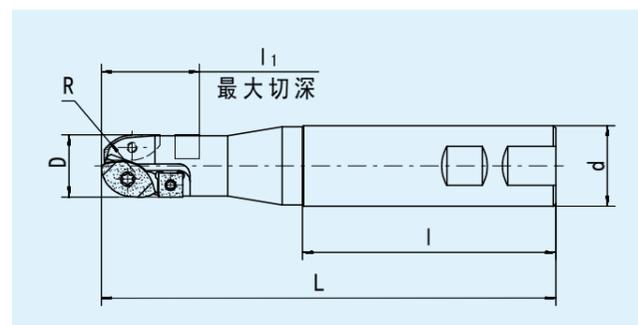
莫氏圆锥柄 Morse taper shank

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension					莫氏圆锥号 Morse taper No	刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	D ₁	L	L ₁	l				
DLM 20	2	20	32.8	121	35	5.8	SDHW090308	L43M4×10	T15	
DLM 25		25	37.8	126	40					
DLM 32	3	32	44.8							
DLM 40	4	40	52.8	159	50	8	SPHW120408	L43M5×10	T20	
DLM 50		50	67.3							



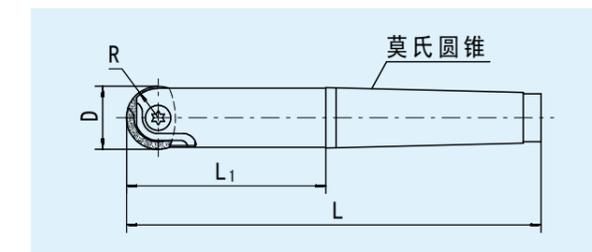
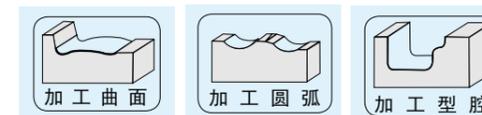
一般型 Type commonly

型号规格 Type spec	尺寸 Dimension						内刀片 In Blades	外刀片 Out blades	梅花螺钉 Screw	扳手 Wrench
	D	R	L	l	L ₁	d				
QXZ 15	15	7.5	125	80	14	20	UPE15C	UPE15E	L90M2.5×7	T8
QXZ 16	16	8			15		UPE16C	UPE16E		
QXZ 20	20	10			140		18	25		
QXZ 25	25	12.5	150	100	23	32	UPE25C	UPE25E	L90M4×9	T15
QXZ 30	30	15	160		28		32	UPE30C	UPE30E	L90M5×11



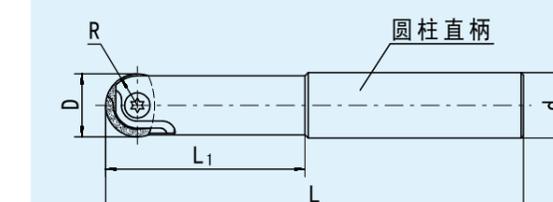
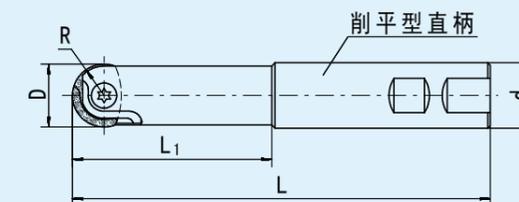
长刃型 Long cutting edge type

型号规格 Type spec	尺寸 Dimension						内刀片 In Blades	外刀片 Out Blades	周刀片 Circle blades	梅花螺钉 Screw	扳手 Wrench
	D	R	L	l	L ₁	d					
QXCZ 20	20	10	150	80	32	25	UPE20C	UPE20E	SPEB070304	L90M3.5×7	T10
QXCZ 25	25	12.5	180	100	39	32	UPE25C	UPE25E	SPEB090304	L90M4×9	T15
QXCZ 30	30	15	200		43		32	UPE30C		UPE30E	L90M5×11



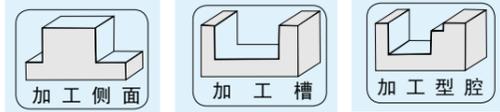
莫氏锥柄 Morse taper shank

型号规格 Type spec	尺寸 Dimension				莫氏圆锥号 Morse taper no	刀片 Blades	梅花螺钉 Screw	扳手 Wrench
	D	R	L	L ₁				
QXAM 10	10	5	93.5	36.5	MW2	P3200-D10	QL-04	T15
QXAM 12	12	6				P3200-D12	QL-05	T20
QXAM 16	16	8				124		
QXAM 20	20	10	125	56		P3200-D20		
QXAM 25	25	12.5	145	59	MW3	P3200-D25	QL-06	T25
QXAM 30	30	15	165	56	MW4	P3200-D30	QL-07	T30



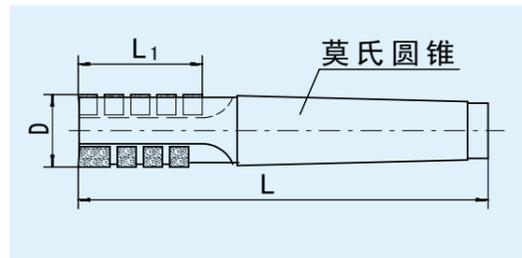
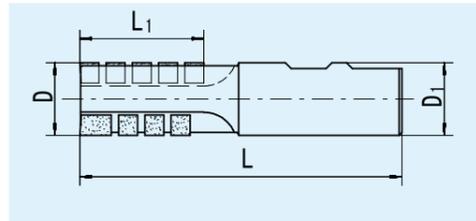
削平型直柄、圆柱直柄 Cut flat handle、Cylinder handle

型号规格 Type spec	尺寸 Dimension					刀片 Blades	梅花螺钉 Screw	扳手 Wrench
	D	R	L	L ₁	d			
QXAX 10	10	5	150	35	12	P3200-D10	QL-04	T15
QXAX 12	12	6	160	58.5	16	P3200-D12	QL-05	T20
QXAX 16	16	8	175	65	20	P3200-D16		
QXAX 20	20	10	190	76	25	P3200-D20	QL-06	T25
QXAX 25	25	12.5	210	98	32	P3200-D25		
QXAX 30	30	15	240	121	40	P3200-D30	QL-07	T30
QXAX 32	32	16				P3200-D32		
QXAZ 10	10	5	130	30	12	P3200-D10	QL-04	T15
QXAZ 12	12	6		32		P3200-D12	QL-05	T20
QXAZ 16	16	8	140	36	16	P3200-D16		
QXAZ 20	20	10	160	45	20	P3200-D20	QL-06	T25
QXAZ 25	25	12.5				25		
QXAZ 30	30	15	175	56	32	P3200-D30	QL-07	T30
QXAZ 32	32	16		50		P3200-D32		



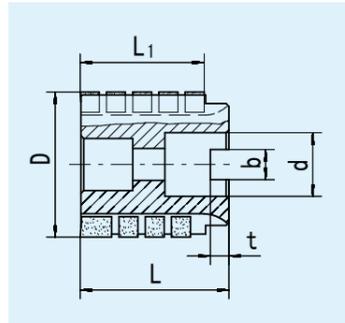
削平型直柄 Cut flat handle

型号规格 Type spec	齿数 Teeth	尺寸 Dimension			
		D ₁	D	L	L ₁
YMXX 20	2	20	20	104	41.5
YMXX 22			22		
YMXX 25	4	25	25	123	51
YMXX 28			28		
YMXX 30			30		
YMXX 32			32		
YMXX 36	4	32	36	161	55.8
YMXX 40			40		
YMXX 45			45		
YMXX 50	6	50	50	192	65.3
YMXX 56			56		
YMXX 63			63		



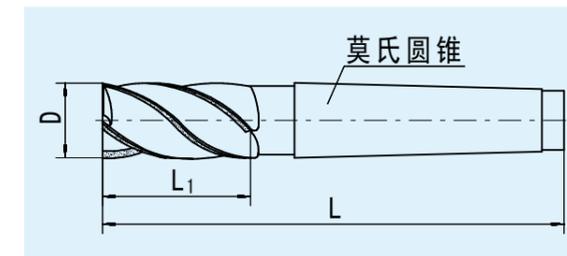
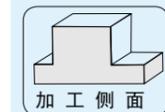
莫氏锥柄 Morse taper shank

型号规格 Type spec	齿数 Teeth	莫氏圆锥号 Morse taper no	尺寸 Dimension		
			D	L	L ₁
YMXM 20	2	MW3	20	142	41.5
YMXM 22			22		
YMXM 25	4	MW3	25	153	51
YMXM 28			28		
YMXM 30			30		
YMXM 32			32		
YMXM 36	4	MW4	36	200	55.8
YMXM 40			40		
YMXM 45			45		
YMXM 50	6	MW5	50	220	65.3
YMXM 56			56		
YMXM 63			63		



套式 Sheath mode

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension					
		D	L	L ₁	d	b	t
YMXT 50	6	50	50	41.5	22	10.4	6.3
YMXT 63		63	51	27	12.4	7	
YMXT 80	8	80	63	51	27	12.4	7
YMXT100		100	80	65.3	32	14.4	8

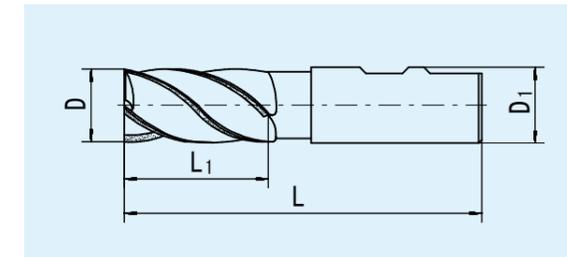


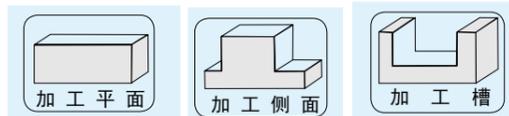
莫氏锥柄 Morse taper shank

型号规格 Type spec	莫氏圆锥号 Morse taper no	齿数 Teeth Z	尺寸 Dimension		
			D	L	L ₁
HLXM 16	MW2	3	16	117	32
HLXM 18			18	126	38
HLXM 20			20	140	
HLXM 22	MW3	4	22	153	45
HLXM 25			25		
HLXM 28			28		
HLXM 30			30		
HLXM 32	MW4	4	32	164	53
HLXM 36			36		
HLXM 40			40		
HLXM 45	MW5	6	45	200	63
HLXM 50			50		
HLXM 56			56		
HLXM 63			63	220	

削平型直柄 Cut flat handle

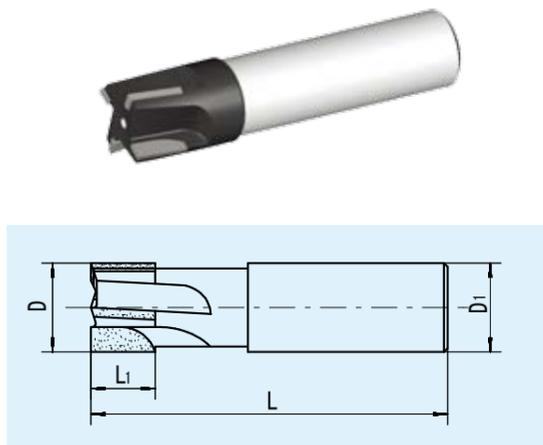
型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			
		d	D	L	L ₁
HLXX 16	3	16	16	96	32
HLXX 18			18	105	38
HLXX 20			20		
HLXX 22	4	20	22	123	45
HLXX 25			25		
HLXX 28			28		
HLXX 30			30		
HLXX 32	4	32	32	135	53
HLXX 36			36		
HLXX 40			40		
HLXX 45	6	40	45	161	63
HLXX 50			50		
HLXX 56			56		
HLXX 63			63	202	





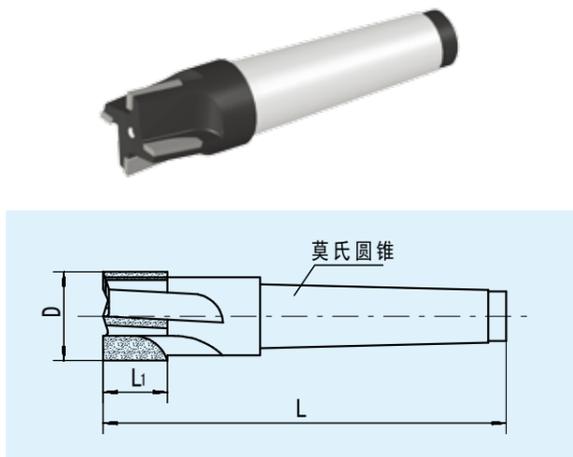
圆柱直柄 Cylinder handle

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			
		d	D	L	L ₁
YHLXY 10	3	10	10	75	13.5
YHLXY 11			11		
YHLXY 12		12	12	80	
YHLXY 14		14	14	85	
YHLXY 16	4	16	16	90	18
YHLXY 18		18	18	90	
YHLXY 20	4	20	20	90	18
YHLXY 22		22	22	90	
YHLXY 25		25	25	100	
YHLXY 28		28	28	100	



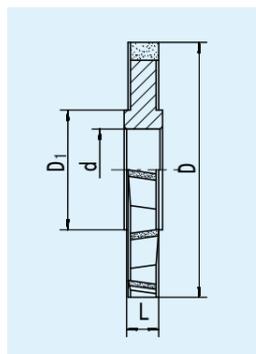
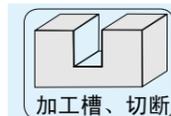
莫氏锥柄 Morse taper shank

型号规格 Type spec	莫氏圆锥号 Morse taper No	齿数 Teeth Z	尺寸 Dimension		
			D	L	L ₁
YHLXM 14	MW 2	3	14	105	13.5
YHLXM 16		16	105	13.5	
YHLXM 18		18	110	13.5	
YHLXM 20	MW3	4	20	130	18
YHLXM 22		22	130	18	
YHLXM 25		25	130	18	
YHLXM 28	MW4	4	28	155	23
YHLXM 30		30	155	23	
YHLXM 32		32	160	23	
YHLXM 36		36	160	23	
YHLXM 40	6	6	40	170	28
YHLXM 45		45	170	28	
YHLXM 50		50	170	28	



硬质合金错齿三面刃铣刀

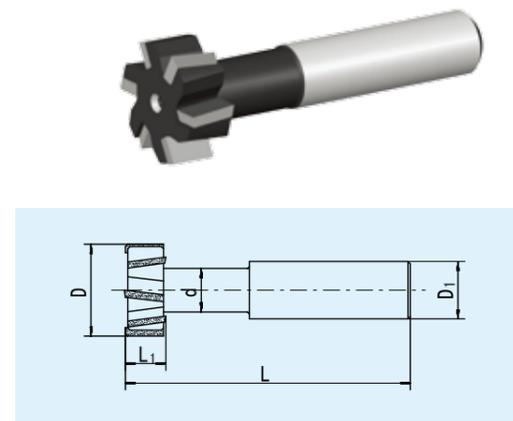
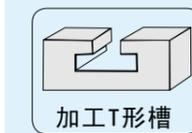
Carbide side and face mills with staggered tooth



型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension			
		D	D ₁	d	L
HSM 63×L	8	63	34	22	6、8、10、12、14
HSM 80×L	10	80	41	27	6、8、10、12、14
HSM 100×L	12	100	47	32	6、8、10、12、14
	10				8、10
HSM 125×L	12	125	55	40	6、12、14
	14				10、12、14
HSM 160×L	16	160	55	40	10、12、14
HSM 200×L	18	200	55	40	12、14

硬质合金T形槽铣刀

T-Slot milling tools with carbide



圆柱直柄 Cylinder handle

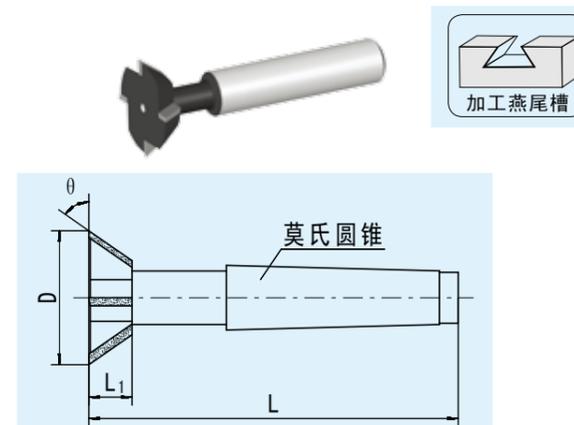
型号规格 Type spec	T形槽尺寸 T-Slot dimension	齿数 Teeth Z	尺寸 Dimension				
			D ₁	d	D	L	L ₁
HZTXY 12	12	4	12	10	21	74	9
HZTXY 14	14	6	16	12	25	82	11
HZTXY 18	18			15	32	90	14
HZTXY 22	22	32	25	19	40	108	18
HZTXY 28	28			25	50	124	22
HZTXY 36	36	8	30	60	139	28	

莫氏锥柄 Morse taper shank

型号规格 Type spec	T形槽尺寸 T-Slot dimension	莫氏圆锥号 Morse taper no	齿数 Teeth Z	尺寸 Dimension			
				D	d	L	L ₁
HZTXM 12	12	MW 2	4	21	10	100	9
HZTXM 14	14		6	25	12	105	11
HZTXM 18	18		32	15	110	14	
HZTXM 22	22	MW 3	6	40	19	140	18
HZTXM 28	28	MW 4		50	25	175	22
HZTXM 36	36	MW 5	8	60	30	190	28
HZTXM 42	42			72	36	230	35
HZTXM 48	48			85	42	240	40
HZTXM 54	54			95	44	150	44

硬质合金燕尾槽铣刀

Dovetail groove milling tools with carbide blades



型号规格 Type spec	莫氏圆锥号 Morse taper no	齿数 Teeth Z	尺寸 Dimension			
			D	L	L ₁	θ
HVX 55 D 40	MW3	4	40	137	16	55°
HVX 55 D 50			50			
HVX 55 D 63			63			
HVX 55 D 80	MW4	6	80	179	20	55°
HVX 55 D100			100			
HVX 60 D 40	MW3	4	40	137	16	60°
HVX 60 D 50			50			
HVX 60 D 63	MW4	6	63	179	20	60°
HVX 60 D 80			80			
HVX 60 D100			100			

S	P	C	N	12	03	ED	T21	R	DM
1	2	3	4	5	6	7	8	9	10

1. 刀片形状 Blades shape

A	85°		D	55°		K	55°		O		S		W	80°	
B	82°		E	75°		L		P		T		Z	其他 Others		
C	80°		H		M	86°		R		V	35°				

2. 主切削刃后角 Major cutting edge clearance angle

A	B	C	D	E	F	G	N	P	O
3°	5°	7°	15°	20°	25°	30°	0°	11°	特殊后角 Angles

3. 公差等级代号 Tolerances class code name

公差等级代号 Tolerances class code name							
级别符号 Class letter symbol	公差 Tolerances m			级别符号 Class letter symbol	公差 Tolerances d		
	m	s	d		m	s	d
A	±0.005	±0.025	±0.025	J	±0.005	±0.005	±0.05~±0.15
C	±0.013	±0.025	±0.025	K	±0.013	±0.025	±0.05~±0.15
E	±0.025	±0.025	±0.025	L	±0.025	±0.025	±0.05~±0.15
F	±0.005	±0.025	±0.013	M	±0.08~±0.20	±0.130	±0.05~±0.15
G	±0.025	±0.130	±0.025	N	±0.08~±0.20	±0.025	±0.05~±0.15
H	±0.013	±0.025	±0.013	U	±0.13~±0.38	±0.13	±0.08~±0.25

内切圆直径 d Inscribed circle diameter	公差 m Tolerances m		公差 d Tolerances d	
	M级 Class M	U级 Class U	M、J、K、L级 Class M, J, K, L	U级 Class U
Φ6.35	±0.08	±0.13	±0.05	±0.08
Φ9.525	±0.08	±0.13	±0.05	±0.08
Φ12.7	±0.13	±0.20	±0.08	±0.13
Φ15.875	±0.15	±0.27	±0.10	±0.18
Φ19.05	±0.15	±0.27	±0.10	±0.18
Φ25.4	±0.18	±0.38	±0.13	±0.25

内切圆直径 d Inscribed circle diameter	刀片形状 D Blades shape D		刀片形状 V Blades shape V	
	公差m Tolerances m	公差d Tolerances d	公差m Tolerances m	公差d Tolerances d
Φ6.35	±0.11	±0.05	±0.15	±0.05
Φ9.525	±0.11	±0.05	±0.15	±0.05
Φ12.7	±0.15	±0.08	±0.20	±0.08
Φ15.875	±0.18	±0.10	±0.27	±0.10
Φ19.05	±0.18	±0.10	±0.27	±0.10

4. 断屑槽及夹固形式 Chip break groove and/or fixing mode

A		F		J		Q		U	
B		G		M		R		W	
C		H		N		T		X	专用设计或非标准刀片 Special design

5. 切削刃长度(mm) Cutting edge length(mm)

ic mm	C	D	R	S	T	V	W	L
3.97					06			
5.0			05					
5.56					09			
6.0			06					
6.35	06	07			11	11		
8.0			08					
9.525	09	11	09	09	16	16	06	16*
10.0			10					
12.0			12					
12.7	12	15	12	12	22	22	08	
15.875	15		15	15	27			
16.0		19	16					
19.05	19		19	19	33			
20.0			20					
25.0	25	30	25					
25.4			25	25	44			
31.75			31					
32			32					

6. 刀片厚度(mm) Blades thickness(mm)

代号 Code	00	T0	01	T1	02	T2	03	T3	04	T4
刀片厚度(mm) Blades Thickness(mm)	0.79	0.99	1.59	1.98	2.38	2.58	3.18	3.97	4.76	4.96
代号 Code	05	T5	06	T6	07	09	T9	11	12	
刀片厚度(mm) Blades Thickness(mm)	5.56	5.95	6.35	6.75	7.94	9.52	9.72	11.11	12.7	

7. 修光刃法向后角 Sleeking cutting edge tool normal clearance angle

代号 Code	A	B	C	D	E	F	G	N	P	Z
主偏角 Kr Tool cutting edge Angle Kr	45°			60°	75°	85°			90°	其他Others
修光刃法向后角 Sleeking cutting edge tool normal clearanceAngle	3°	5°	7°	15°	20°	25°	30°	0°	11°	其他Others

8. 切削刃倒棱 Cutting edge first face

代号 Code	S	T	E	F				
形状 Shape								
倒棱倾角 First face lean angle	0	1	2	3	4	5		
	5°	10°	15°	20°	25°	30°		
倒棱宽度 width of first face	0	1	2	3	5	6	7	
	0.1	0.15	0.2	0.25	0.35	0.4	0.45	

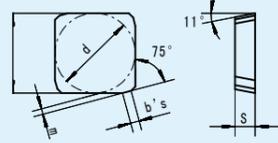
9. 进给方向 Feed movement direction

R	右切 Right hand
L	左切 Left hand
N	左、右切 Left Hand, Right Hand

10. 断屑槽型代号 Chip break groove mode code



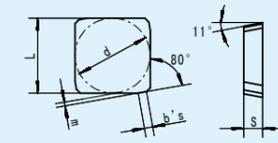
面铣刀片 (Kr=75°)



型号规格 Type spec	尺寸 Dimension				b's
	L=d	S	m		
SPCN1203ED R/L	12.7	3.175	0.9		1.4
SPCN1504ED R/L	15.875	4.76	1.25		
SPCN1905ED R/L	19.05	5.56	1.48	2.0	



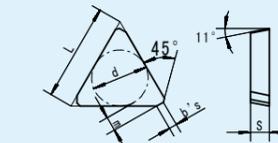
密齿铣刀片



型号规格 Type spec	尺寸 Dimension			m
	L=d	S		
SPCN1504ZP R/L	15.875	4.76	0.9	1.4



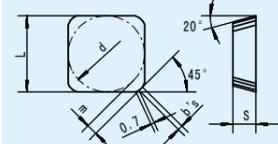
三角形铣刀片



型号规格 Type spec	尺寸 Dimension				
	L	d	S	m	b's
TPCN1103PD R/L	11	6.35	3.175	1.63	0.7
TPCN1603PD R/L	16.5	9.525		2.45	1.3
TPCN2204PD R/L	22	12.7	4.70	3.55	1.4



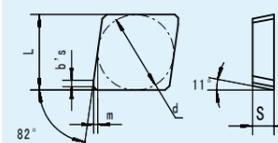
面铣刀片 (Kr=45°)



型号规格 Type spec	尺寸 Dimension			
	L	d	S	m
SECN1203AFN	12.7	12.7	3.175	1.622
SECN1504AFN	15.875	15.875	4.76	2.043



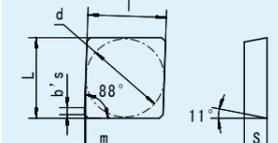
面铣刀片 (Kr=90°)



型号规格 Type spec	尺寸 Dimension			m
	L=d	S		
82°4XH16 Y/Z	16	4.5	0.93	1.4



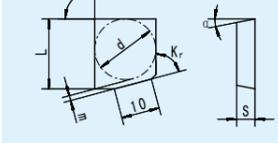
三面刃铣刀片



型号规格 Type spec	尺寸 Dimension					b's
	L	l=d	S	m		
88°4XH13 Y/Z	13	12.5	4.5	0.164	1.2	1.4
88°4XH16 Y/Z	16	15.5		0.21		
88°4XH19 Y/Z	19	18.5		0.258		



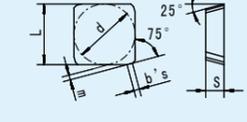
刮光铣刀片



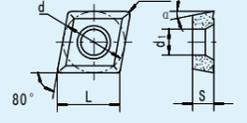
型号规格 Type spec	尺寸 Dimension						
	L	d	S	m	Kr	α	β
LPEX1804EDR/L	18.3	15.875	4.76	1.32	75°	11°	90°
LFCX1804EFR/L						25°	
LPCX1504ZPR/L	17.62	15.8	4.5	0.97	80°	11°	
LPCX1604PPR/L	18.19						1.2



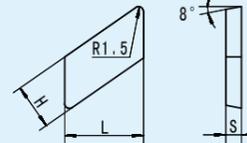
铝合金铣刀片



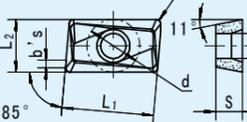
T形槽铣刀片



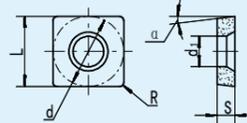
燕尾槽铣刀片



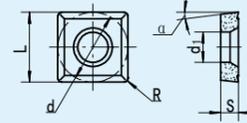
立铣刀片



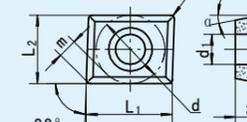
倒角、螺旋、球头立铣刀片



螺旋立铣刀片



螺旋立铣刀片



型号规格 Type spec	尺寸 Dimension			
	L=d	S	m	b's
SFCN1203EFR/L	12.7	3.175	1.08	0.8
SFCN1504EFR/L	15.875	4.76	1.45	1.0

型号规格 Type spec	尺寸 Dimension				
	L	d	S	d1	α
CPGT050204	5.6	5.56	2.38	2.8	11°
CCMT060204	6.4	6.35		4.4	7°
CCMT090304	9.7	9.525	3.18		
CCMT09T304			3.97		
CCMT120404	12.9	12.7	4.76	5.5	

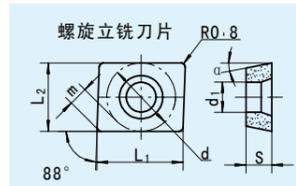
型号规格 Type spec	尺寸 Dimension			
	L	H	S	α
VX60D125-03	24	14	4.76	50°

型号规格 Type spec	尺寸 Dimension				
	L1	L2=d	S	b's	d1
APMT1135PDER-M2	11	6.35	3.5	1.2	2.5
APMT1604PDER-M2	16.5	9.525	4.76	1.4	4.5

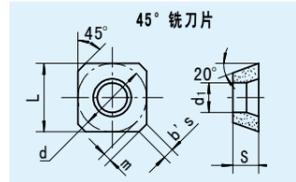
型号规格 Type spec	尺寸 Dimension				
	L=d	S	d1	R	
SDHW090308	9.525	3.18	4.5	0.8	15°
SPHW120408	12.7	4.76	5.56		11°
SPEB070304	7.94	3.18	3.7		
SPEB090304	9.525		4.4		

型号规格 Type spec	尺寸 Dimension			
	L=d	S	R	α
SDMT090308	9.525	3.18	0.8	4.5
SPMT120408	12.7	4.76	0.8	5.56

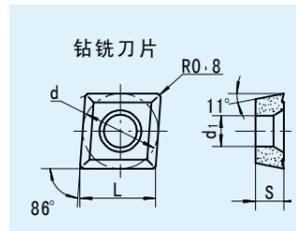
型号规格 Type spec	尺寸 Dimension					
	L1	L2=d	S	m	d1	α
ADMT150308	15	9.525	3.18	3.91	4.5	15°
APMT160408	15.875	12.7	4.76	3.63	5.56	11°



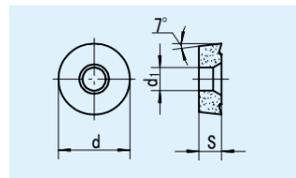
型号规格 Type spec	尺寸 Dimension					
	L ₁	L ₂ =d	S	m	d ₁	α
ADHW150308	15	9.525	3.18	3.91	4.5	15°
APHW160408	15.875	12.7	4.76	3.63	5.56	11°



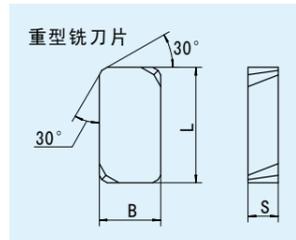
型号规格 Type spec	尺寸 Dimension				
	L=d	S	d ₁	m	b' s
SECW1204AFN	12.7	4.76	5.5	1.63	2



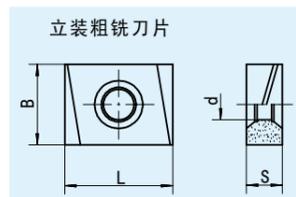
型号规格 Type spec	尺寸 Dimension			
	L	d	S	d ₁
MPMT070308	7.94	7.94	3.18	3.5
MPMT090308	9.525	9.525	3.18	4.6
MPMT120408	12.7	12.7	4.76	5.7



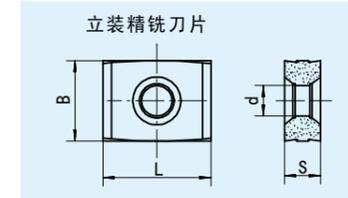
型号规格 Type spec	尺寸 Dimension		
	d	d ₁	S
RPMT08T2MOE	8	2.78	3.4
RPMT10T3MOE	10	3.18	4.4
RPMT1204MOE	12	4.76	4.4



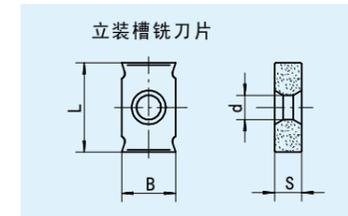
型号规格 Type spec	尺寸 Dimension		
	L	B	S
LNCN2907ZPR/L	29.5	15.6	7.5



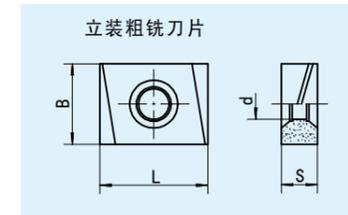
型号规格 Type spec	尺寸 Dimension			
	L	B	S	d
LSE434R/L01	19.05	14.3	6.35	5.5
LSE446R/L01	28.6	14.3	9.5	5.5



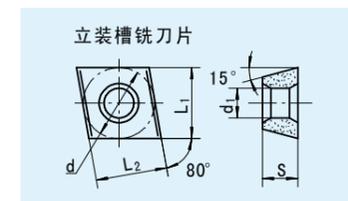
型号规格 Type spec	尺寸 Dimension			
	L	B	S	d
YCE434-01	19.05	14.3	6.35	5.5



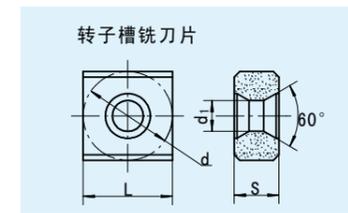
型号规格 Type spec	尺寸 Dimension			
	L	B	S	d
LNEU1504	15.875	9.525	4.76	4.3



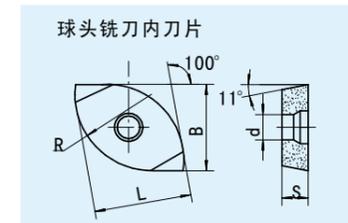
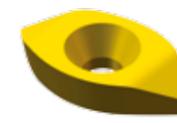
型号规格 Type spec	尺寸 Dimension				
	L	d	S	d ₁	β
SNEU1205	12.7	12.7	5.56	5.3	60°
SNEU1206	12.7	12.7	6.35	5.3	60°
SNEU1507	15.875	15.875	7.94	5.5	90°



型号规格 Type spec	尺寸 Dimension				
	L ₁	L ₂	d	S	d ₁
CDEU0904R/L	12.7	9.525	—	4.76	4.2
CDEU1206R/L	12.7	12.7	12.7	6.3	5.3
CDEU1606R/L	16	14.4	—	6.3	5.3



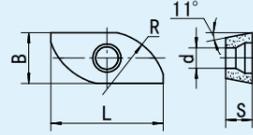
型号规格 Type spec	尺寸 Dimension			
	L	d	d ₁	S
SNEQ1507	15.875	15.875	5.4	7.94



型号规格 Type spec	尺寸 Dimension				
	L	B	R	S	d
UPE15C	10.2	8	7.5	3	2.8
UPE16C	11	8.4	8	3	2.8
UPE20C	14.2	11.8	10	3.5	3.7
UPE25C	18.2	14.7	12.5	4	4.4
UPE30C	21.4	17.6	15	5	5.5



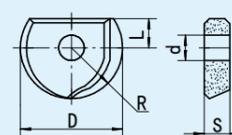
球头铣刀外刀片



型号规格 Type spec	尺寸 Dimension				
	L	B	R	S	d
UPE15E	12.6	6	7.5	3	2.8
UPE16E	13.4	6.4	8	3	2.8
UPE20E	18	8	10	3.5	3.7
UPE25E	22	10	12.5	4	4.4
UPE30E	26	12	15	5	5.5



单片球头铣刀片



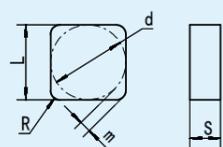
型号规格 Type spec	尺寸 Dimension				
	D	R	L	S	d
P 3200-D10	10	5	5	2.5	4
P 3200-D12	12	6	6	2.5	5
P 3200-D16	16	8	6	3	5
P 3200-D20	20	10	6	3	5
P 3200-D25	25	12.5	9	4	6
P 3200-D30	30	15	10	5	8
P 3200-D32	32	16	10	5	8

陶瓷铣刀片

Ceramic blades for milling tools



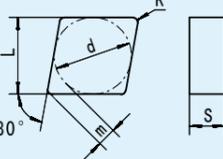
陶瓷四方刀片



型号规格 Type spec	尺寸 Dimension			
	L=d	R	m	S
SNGN120716	12.7	1.6	2	7.94



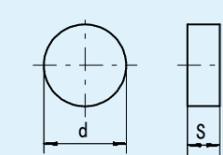
陶瓷梯形刀片



型号规格 Type spec	尺寸 Dimension			
	L=d	R	m	S
CNGN120716	12.7	1.6	2.473	7.94



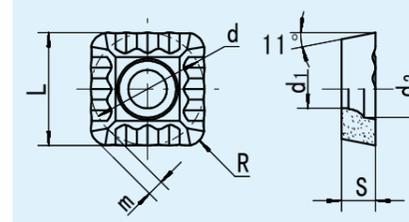
陶瓷圆刀片



型号规格 Type spec	尺寸 Dimension	
	d	S
RNGN120600	12.7	6.35



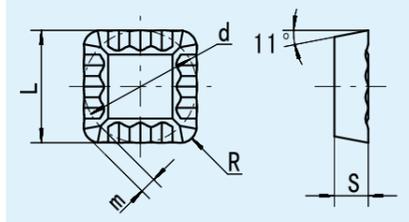
波形刃铣刀片



型号规格 Type spec	尺寸 Dimension					
	d=L	m	R	S	d ₁	d ₂
SPCH 120312	12.7	2.09	1.2	3.97	4.3	6.5
SPCH 120412	12.7	2.09	1.2	4.76	4.3	6.5
SPCH 150624	15.875	2.28	2.4	4.76	5.4	8.0



波形刃铣刀片



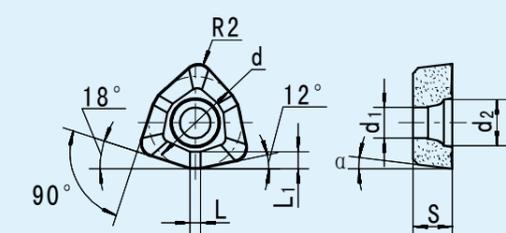
型号规格 Type spec	尺寸 Dimension			
	d=L	R	m	S
SPCR 120312-6	12.7	1.2	2.09	3.97
SPCR 120412-6	12.7	1.2	2.09	4.76
SPCR 150624-6	15.875	2.4	2.29	4.76

硬质合金大进给高效铣刀片

Carbide big feed movement and efficient blades for milling tools



大进给高效铣刀片



型号规格 Type spec	尺寸 Dimension						
	L	L ₁	d	d ₁	d ₂	S	α
WCMH 1004-5	1.2	1.6	10	4.3	5.8	4.76	7°
WCMH 1305-5	1.5	2.4	13	4.3	6.5	5.5	7°
WPMH 1305-5	1.5	2.4	13	5.0	6.8	5.5	11°

1. 可转位铣刀 Indexable face mills

被加工材料及硬度 Machining material and/or rigidity	GMA,GMB可转位面铣刀 Indexable face mills		ZMA,ZMB,ZMC可转位面铣刀 Indexable face mills		CMA,CMB可转位重型面铣刀 Indexable heavy duty face mills	
	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)
碳素钢HB180~280 Carbon steel HB180~280	70~110	0.1~0.3	70~120	0.05~0.15	70~110	0.1~0.30
合金钢HB280~350 Alloy steel HB280~350	35~70	0.1~0.2	50~85	0.05~0.15	35~70	0.1~0.20
不锈钢HB≤270 Stain-less steel HB≤270	80~140	0.1~0.3	70~120	0.1~0.2	—	—
铸铁≤HB220 Cast-iron HB≤220	60~110	0.1~0.3	70~120	0.05~0.2	45~70	0.1~0.30
切削深度 a_p (mm) Cutting depth	≤6(D=63~100) ≤8(D=125~500)		≤6		≤8	
切削宽度 a_w (mm) Cutting width	≤0.6D(铣刀直径)≤0.6D(Diameter)					
被加工材料及硬度 Machining material and/or rigidity	LMA,LMB 可转位铝合金面铣刀 Indexable face mills for aluminum alloy		MM,MMA,ZMMA 可转位密齿面铣刀 Indexable dense inserts face mills		JTMA,JTMB 可转位阶梯面铣刀 Indexable ladder face mills	
	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)
碳素钢HB180~280 Carbon steel HB180~280	—	—	70~110	0.05~0.2	80~130	0.15~0.4
合金钢HB280~350 Alloy steel HB280~350	—	—	35~70	0.05~0.2	70~110	0.2~0.3
铸铁≤HB220 Cast-iron HB≤220	—	—	60~100	0.1~0.25	80~130	0.15~0.4
铝合金 Aluminum alloy	300~800	0.1~0.3	—	—	—	—
切削深度 a_p (mm) Cutting depth	≤8		≤5		2.5~25	
切削宽度 a_w (mm) Cutting width	≤0.6D(铣刀直径) ≤0.6D(Diameter)					
被加工材料及硬度 Machining material and/or rigidity	SGM,SGMA,SGMB,SGMC 可转位面铣刀 Indexable face mills		VX可转位燕尾槽铣刀 Indexable dovetail groove milling tools		TRM,TSM,TZM 可转位陶瓷面铣刀 Indexable face mills with ceramic blades	
	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)
碳素钢HB180~280 Carbon steel HB180~280	85~125	0.1~0.2	—	—	180~300	0.05~0.15
合金钢HB280~350 Alloy steel HB280~350	60~90	0.1~0.2	—	—	160~280	0.05~0.15
淬火钢HRC≤40 Hardened steel HRC≤40	45~70	0.05~0.15	—	—	90~300	0.05~0.12
不锈钢HB≤270 Stain-less steel HB≤270	85~125	0.1~0.2	—	—	100~180	0.05~0.12
铸铁≤HB220 Cast-iron HB≤220	90~170	0.1~0.2	80~100	0.05~0.1	120~380	0.1~0.2
铝合金 Aluminum alloy	200~700	0.1~0.2	—	—	—	—
钛合金 Titanium Alloy	20~80	0.05~0.2	—	—	—	—
切削深度 a_p (mm) Cutting depth	≤6		≤15		0.2~4	
切削宽度 a_w (mm) Cutting width	≤0.6D(铣刀直径) ≤0.6D(Diameter)		≤25		≤0.6D(铣刀直径) ≤0.6D(Diameter)	

接前页

被加工材料及硬度 Machining material and/or rigidity	SMD 可转位三面刃、二面刃铣刀 Indexable full side cutter and half side cutter		LXM,LXY,LXX,LXT 可转位立铣刀 Indexable end mills		DLX,DLM 可转位倒角立铣刀 Indexable approach angle end mills	
	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)
碳素钢HB180~280 Carbon steel HB180~280	70~140	0.05~0.2	80~180	0.12~0.4	70~140	0.15~0.3
合金钢HB280~350 Alloy steel HB280~350	60~120	0.05~0.2	60~150	0.12~0.35	60~100	0.1~0.3
淬火钢HRC≤40 Hardened steel HRC≤40	—	—	45~90	0.12~0.4	40~70	0.05~0.2
不锈钢HB≤270 Stain-less Steel HB≤270	70~140	0.05~0.15	100~140	0.1~0.3	80~120	0.1~0.2
铸铁≤HB220 Cast-iron HB≤220	70~140	0.05~0.2	50~120	0.12~0.35	90~150	0.2~0.4
铝合金 Aluminum Alloy	—	—	400~800	0.05~0.2	210~700	0.15~0.4
切削深度 a_p (mm) Cutting Depth	≤2倍铣刀宽度		≤5		≤5	
切削宽度 a_w (mm) Cutting Width	≤L(L铣刀宽度) ≤L(L Width)		≤0.6D(铣刀直径) ≤0.6D(Diameter)		—	
被加工材料及硬度 Machining material and /or rigidity	KTXZ,KTXM 可转位“T”形槽铣刀 Indexable T—Slot cutter		RMM,RMY,RMX,RMT 可转位圆刀片立铣刀 Indexable end mills with round blade		KLXM,KLXZ,KLXX 可转位螺旋立铣刀 Indexable helical end mills	
	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)
碳素钢HB180~280 Carbon steel HB180~280	80~140	0.1~0.2	70~120	0.05~0.2	60~160	0.06~0.3
合金钢HB280~350 Alloy steel HB280~350	40~80	0.05~0.15	50~100	0.05~0.2	60~160	0.06~0.3
淬火钢HRC≤40 Hardened steel HRC≤40	—	—	40~80	0.05~0.2	55~90	0.08~0.2
不锈钢HB≤270 Stain less steel HB≤ 270Machining material and/ or rigidity	—	—	70~120	0.05~0.2	60~120	0.06~0.12
铸铁≤HB220 Cast-iron HB≤220	60~100	0.1~0.2	70~120	0.1~0.3	50~130	0.08~0.3
铝合金 Aluminum Alloy	—	—	300~600	0.15~0.4	—	—
切削深度 a_p (mm) Cutting Depth	—		≤5		—	
被加工材料及硬度 Machining material and/or rigidity	QXZ,QXCZ 可转位球头立铣刀 Indexable ball head end mills		DQX,DQY,DQM 机夹单片球头立铣刀 Mechanical clamped single blade ball head end mills			
	v_c (m/min)	f_z (mm/z)	v_c (m/min)		f_z (mm/z)	
碳素钢HB180~280 Carbon steel HB180~280	175~300	0.1~0.2	110~330		0.1~0.35	
合金钢HB280~350 Alloy steel HB280~350	165~255	0.1~0.2	120~240		0.1~0.3	
淬火钢HRC≤40 Hardened steel HRC≤40	90~145	0.1~0.2	20~65		0.08~0.14	
不锈钢HB≤270 Stain less Steel HB≤270	120	0.1~0.2	150~260		0.1~0.25	
铸铁≤HB220 Cast-iron HB≤220	175~210	0.05~0.2	60~130		0.1~0.3	
铝合金 Aluminum Alloy	680~900	0.05~0.1	450~1000		0.1~0.3	
钛合金 Titanium Alloy	65~70	0.05~0.15	38~65		0.08~0.18	
切削深度 a_p (mm) Cutting Depth	一般型0.2~0.5D,长刃型1.2D		0.2~1.0			
切削宽度 a_w (mm) Cutting Width	0.2~0.3D(铣刀直径),0.2~ 0.3D(Diameter)		—			

被加工材料及硬度 Machining material and/or rigidity	ZXY,ZXX可转位钻铣刀 Indexable drill milling tools				
	周刃切削速度 Cutting speed of circle edge $v_c=70\sim 110(\text{m/min})$				底刃切削速度 Bottom cutting speed $v_c=50\sim 90(\text{m/min})$
	每齿进给量 Feed movement quantum/Z (按切深)				
	2mm	4mm	6mm	8mm	每转进给量(mm/rev)
软钢 Soft steel HB180以下	0.1~0.3	0.1~0.25	0.1~0.2	0.1~0.2	0.10~0.15
碳素钢 Carbon Steel 合金钢 Alloy Steel HB280~350	0.1~0.25	0.1~0.2	0.05~0.15	0.05~0.15	0.08~0.15
铸铁 Cast-iron 抗拉强度450N/mm ² 以下	0.1~0.4	0.1~0.3	0.1~0.25	0.1~0.25	0.1~0.2

2. 硬质合金铣刀 Carbide milling tools

被加工材料及硬度 Machining material and/or rigidity	YMMX,YMXM,YMXT 硬质合金玉米铣刀 Carbide maize mode milling tools		HLXM,HLXX 硬质合金螺旋立铣刀 End mills with helical carbide blades		YHLXY,YHLXM 硬质合金立铣刀 Carbide end mills	
	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)
碳素钢HB180~220 Carbon Steel HB180~220	40~60	0.04~0.2	50~90	0.08~0.2	15~35	铣槽 0.02~0.1 铣侧面0.05~0.3
合金钢HB220~280 Alloy Steel HB220~280	35~50	0.03~0.15	50~80	0.08~0.18	10~25	铣槽 0.01~0.08 铣侧面 0.03~0.25
铸铁HB180~220 Cast-iron HB180~220	40~60	0.06~0.3	50~90	0.08~0.15	15~35	铣槽 0.02~0.15 铣侧面 0.06~0.45
切削深度 a_p (mm) Cutting Depth	$\leq 0.8L$ (L为刃长)				铣槽 $\leq D$ 铣侧面 $\leq 1.5D$ (D为铣刀直径)	
切削宽度 a_w (mm) Cutting Width	$\leq 0.5D$ (铣刀直径) $\leq 0.5D$ (Diameter)				铣槽 $=D$ 铣侧面 $\leq 0.2D$ (D为铣刀直径)	
被加工材料及硬度 Machining material and/or rigidity	HSM硬质合金锯齿三面刃铣刀 HSM Carbide side and face mills with staggered tooth		HZTXM,HZTXY硬质合金T形槽铣刀 T—Slot cutter with carbide blades			
	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)		
碳素钢HB200 Carbon Steel HB200	60~80	0.1~0.15	—	—		
铸铁HB200 Cast-iron HB200			35~50	0.03~0.08		
切削深度 a_p (mm) Cutting Depth a_p (mm)	1~2L(L为刀齿宽)		—	—		
切削宽度 a_w (mm) Cutting Width a_w (mm)	—		—	—		
被加工材料及硬度 Machining material and/or rigidity	HVX硬质合金燕尾槽铣刀 HVX Carbide dovetail groove milling tools		HQ硬质合金球头立铣刀 HQ Ball head end mills with Carbide blades			
	v_c (m/min)	f_z (mm/z)	v_c (m/min)	f_z (mm/z)		
碳素钢HB180~220 Carbon Steel HB180~220	—	—	15~30	0.02~0.08		
合金钢HB220~280 Alloy Steel HB220~280	—	—	10~25	0.01~0.07		
铸铁HB180~220 Cast-iron HB180~220	60~80	0.05~0.10	15~30	0.02~0.1		
切削深度 a_p (mm) Cutting Depth a_p (mm)	$\leq 0.8L$ (L为刀刃高)		$\leq 0.4D$ (D为铣刀直径)	$\leq 0.4D$ (Diameter)		
切削宽度 a_w (mm) Cutting Width a_w (mm)	—		$\leq D$ (D为铣刀直径)	$\leq D$ (Diameter)		

- 产品预览
Product overview
- 钻、扩刀.....B1-B3
Drills, Core drills
- 镗刀.....B4-B11
Boring Cutter
- 刀夹型号表示规则.....B12
Cutting untils with clamp combination type codex key
- 刀夹.....B13-B14
Cutting units with clamp combination
- 铰刀.....B15-B16
Reaming
- 硬质合金镗刀片和浅孔钻刀片.....B16
Carbide blades for boring cutter and shallow hole drills
- 孔加工刀具切削用量（参考）.....B17
Cutting data for hole machining cutter (For reference)



一. 钻、扩刀 Drills, core drills

	QZ 	BTA 	QKX 	YHKZ 		
页码 Page	B1	B1	B2,B3	B3		

二. 镗刀 Boring cutter

	BT (JT) -TZC 	BT (JT) -TQC 	TZC 	TQC 	BT (JT) TS 	BT (JT) -TMA-I 
页码 Page	B4	B5	B6	B6	B7	B8
	JTD 	BT (JT) -TMA-II 	TMA 	BT (JT) -TMA-III 	JTX 	JTZ 
页码 Page	B8	B9	B9	B10	B11	B11

三. 刀夹 Cartridges

	STFC-CA 	STTC-CA 	STSC 	STWC 	STSC 	STWC 
页码 Page	B13	B13	B13	B14	CB14	B14

四. 铰刀 Reaming

	FD 	JDM 	JDZ 			
页码 Page	B15	B15	B16			

五. 硬质合金镗刀片和浅孔钻刀片 Carbide blades for boring cutter and shallow hole drills

	TCGT 	TCMT 	TPGX 	CPGT 	CCMT 	WCMX 
页码 Page	B16	B16	B16	B16	B16	B16

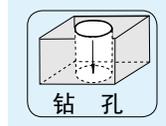
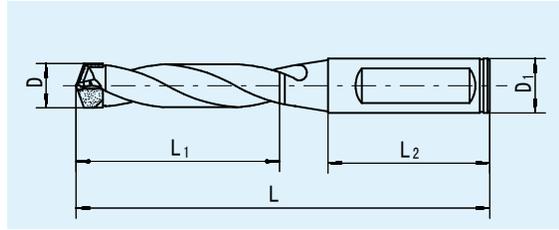
硬质合金强力钻

Carbide powerful drills



钻孔精度高、排屑性能好、使用寿命长，适用于钢、铸铁等难加工材料的加工。

Drilling Precision high, Chip removal performance good, ply longevity, for steel, cast-iron, and other materials of difficult cutting.



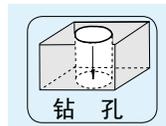
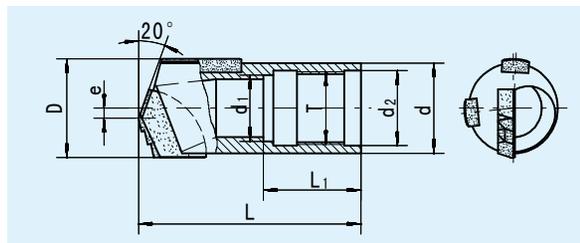
B1

型号规格 Type spec	直径范围 Diameter Range	尺寸 Dimension				型号规格 Type spec	直径范围 Diameter range	尺寸 Dimension			
		D ₁	L	L ₁	L ₂			D ₁	L	L ₁	L ₂
QZ-□.□□ 注: □.□□ 钻头直径D	> 9.5~10.0	16	98	35	48	QZ-□.□□ 注: □.□□ 钻头直径D	>20.0~20.5	25	157	72	56
	>10.0~10.5		100	37			>20.5~21.0		159	74	
	>10.5~11.0		103	39			>21.0~21.5		162	75	
	>11.0~11.5		105	40			>21.5~22.0		164	77	
	>11.5~12.0		108	42			>22.0~22.5		166	79	
	>12.0~12.5		111	44			>22.5~23.0		168	81	
	>12.5~13.0		113	46			>23.0~23.5		172	82	
	>13.0~13.5		115	47			>23.5~24.0		174	84	
	>13.5~14.0	118	49	>24.0~24.5	181		86				
	>14.25~14.5	121	51	>24.5~25.0	183		88				
	>14.5~15.0	123	53	>25.0~25.5	187		89				
	>15.0~15.5	125	54	>25.5~26.0	189		91				
	>15.5~16.0	128	56	>26.0~26.5	191		93				
	>16.0~16.5	131	58	>26.5~27.0	193		95				
	>16.5~17.0	133	60	>27.0~27.5	197		96				
	>17.0~17.5		61	>27.5~28.0	199		98				
	>17.5~18.0		63	>28.0~28.5	202		100				
	>18.0~18.5		65	>28.5~29.0	204		102				
	>18.5~19.0		67	>29.0~29.5	206		103				
	>19.0~19.5	25	151	68	>29.5~30.4		208	105			
>19.5~20.0		154	70								

订货时请说明钻头直径D

BTA单刃深孔钻

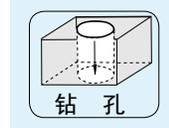
BTA Single edge, deep hole drills



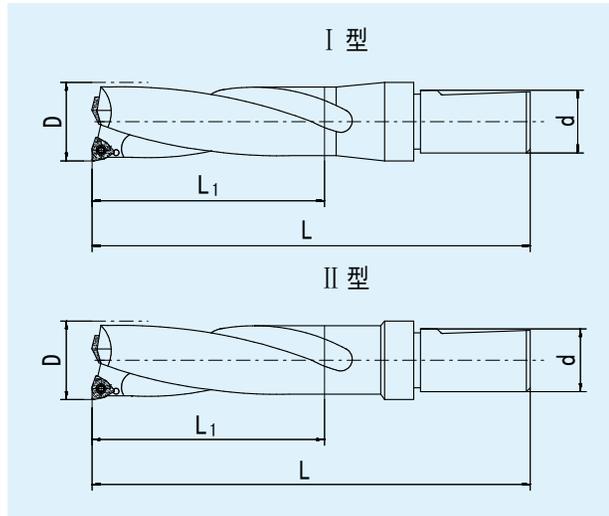
型号规格 Type Spec	尺寸 Dimension							
	D	d ₁	d ₂	d	L	L ₁	e	T
BTA16.25	16.25	11.12	12.7	15	53.5	23	1.6	12.6×6/单头Single leads
BTA18.23	18.23	13.05	15	16.4	56	23.5	1.8	14.8×6/单头Single leads
BTA22.5	22.5	15	17.5	20	58	29	2.1	17.2×8/单头Single leads
BTA25	25	17	20	22.5	58	26.5	2.45	19.8×10/单头Single leads
BTA29	29	19	22	26.5	66	29	2.9	21.7×8/单头Single leads

注：表内仅表明了最常用的几种内螺纹接口的深孔钻,用户可根据需要另行订购。

Note: The table shows that only a few, the most inner-thread interface of deep hole drills, the user can be additional speak for



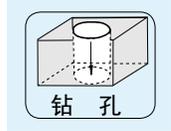
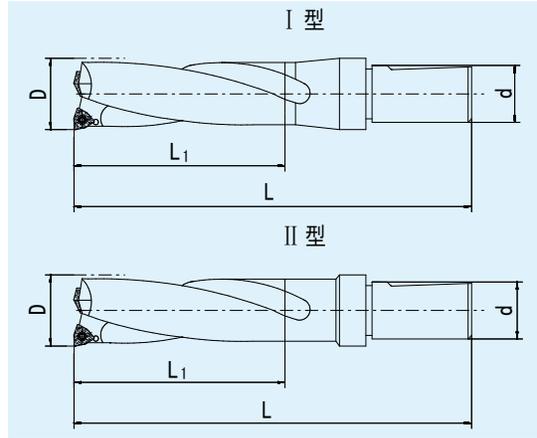
B2



型号规格 Type spec	型式 Mode	尺寸 Dimension				刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	d	L	L ₁			
QKX-21.63	I	21	25	139	63	WCMX040208	L42M3×6.2	T8
QKX-22.63								
QKX-23.69								
QKX-24.69								
QKX-25.75								
QKX-26.75								
QKX-27.81								
QKX-28.81								
QKX-29.87								
QKX-30.87								
QKX-31.93	II	31	32	171	93	WCMX06T308	L42M3.5×6.9	T10
QKX-32.96								
QKX-33.96								
QKX-34.102								
QKX-35.102								
QKX-36.108								
QKX-37.111								
QKX-38.111								
QKX-39.117								
QKX-40.120								
QKX-41.120		40	41	211	120	WCMX080412	L42M4×8.4	T15
QKX-42.126								
QKX-43.129								
QKX-44.129								
QKX-45.135								
QKX-46.135								
QKX-47.141								
QKX-48.141								
QKX-49.147								
QKX-50.150								

可转位螺旋沟浅孔钻

Indexable shallow hole drills with spiral flute



续前

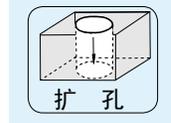
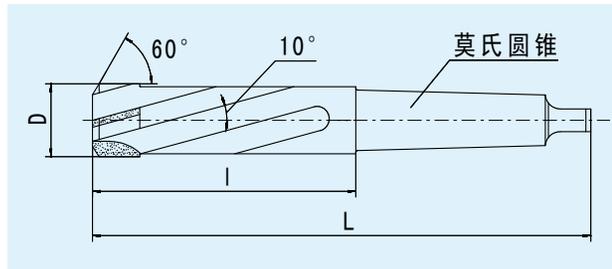
B3

型号规格 Type spec	型式 Mode	尺寸 Dimension				刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		D	d	L	L ₁			
QKX-51.150	II	51	40	256	150	WCMX080412	L42M4×8.4	T15
QKX-52.156		52		262	156			
QKX-53.156		53		265	162			
QKX-54.162		54						
QKX-55.165		55		271	165			
QKX-56.165		56						

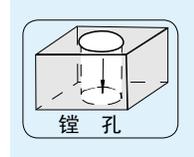
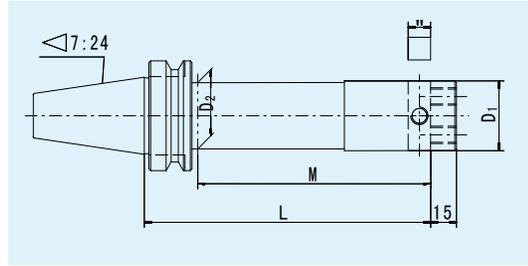
型号规格举例: D=30, L₁=87 削平型柄浅孔钻的型号规格为 QKX-30.87

硬质合金锥柄扩孔钻

Carbide core drills with taper shank



型号 Type	齿数 Teeth Z	莫氏 圆锥号 Morse taper no	尺寸 Dimension			型号 Type	齿数 Teeth Z	莫氏 圆锥号 Morse taper no	尺寸 Dimension		
			D	L	l				D	L	l
YHKZ-12	3	M1	12	182	116	YHKZ-33	4	M4	33	317	194
YHKZ-13			13			YHKZ-34			34		
YHKZ-14			14			YHKZ-35			35		
YHKZ-15			15			YHKZ-36			36		
YHKZ-16			16			YHKZ-37			37		
YHKZ-17		17	M2	210	131	YHKZ-38			38		
YHKZ-18		18				YHKZ-39			39		
YHKZ-19		19				YHKZ-40			40		
YHKZ-20		20				YHKZ-41			41		
YHKZ-21		21				YHKZ-42			42		
YHKZ-22		22	M3	268	170	YHKZ-43			43		
YHKZ-23		23				YHKZ-44			44		
YHKZ-24		24				YHKZ-45			45		
YHKZ-25		25				YHKZ-46			46		
YHKZ-26		26				YHKZ-47			47		
YHKZ-27	27	M4	330	210	YHKZ-48	48					
YHKZ-28	28				YHKZ-49	49					
YHKZ-29	29				YHKZ-50	50					
YHKZ-30	30										
YHKZ-31	31										
YHKZ-32	4	M4	32	317	194						

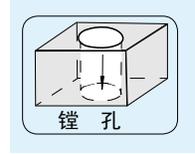
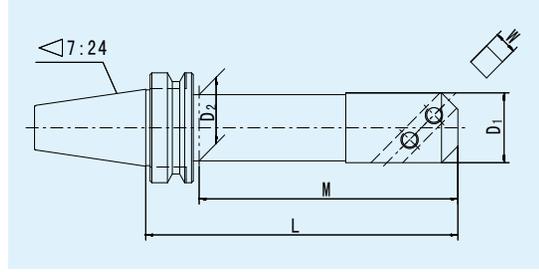


型号规格 Type spec	加工范围 Boring range Dmin - Dmax	尺寸 Dimension							镗刀头型号 Boring head type
		L	D ₁	W	JT柄		BT柄		
					D ₂	M	D ₂	M	
BT(JT)40-TZC 25-135	25 - 50	135	20	8	22	110	22	103	TZC1-23,TZC1-32
BT(JT)40-TZC 38-180	38 - 70	180	30	10	33	155	33	149	TZC2-35,TZC2-45
BT(JT)40-TZC 50-180	50 - 90	180	40	13	44		200		
BT(JT)40-TZC 50-225		225							
BT(JT)40-TZC 62-180	62 - 115	180	50	16	48	155	56	149	TZC4-60,TZC4-75
BT(JT)40-TZC 62-225		225							
BT(JT)40-TZC 72-180	72 - 135	180	60	19	50	155	58	149	TZC5-70,TZC5-95
BT(JT)40-TZC 72-225		225							
BT(JT)40-TZC 90-180	90 - 150	180	75	19	50	155	60	153	TZC5-70,TZC5-95
BT(JT)40-TZC 90-225		225							
BT(JT)45-TZC 25-135	25 - 50	135	20	8	22	110	22	97	TZC1-23,TZC1-32
BT(JT)45-TZC 38-180	38 - 70	180	30	10	33	155	33	143	TZC2-35,TZC2-45
BT(JT)45-TZC 50-180	50 - 90	180	40	13	44				
BT(JT)45-TZC 50-225		225							
BT(JT)45-TZC 62-195	62 - 115	195	50	16	56	170	56	157	TZC4-60,TZC4-75
BT(JT)45-TZC 62-270		270							
BT(JT)45-TZC 72-195	72 - 135	195	60	19	58	170	66	157	TZC5-70,TZC5-95
BT(JT)45-TZC 72-285		285							
BT(JT)45-TZC 90-195	90 - 150	195	75	19	62	170	72	135	TZC5-70,TZC5-95
BT(JT)45-TZC 90-285		285							
BT(JT)45-TZC 105-195	105 - 190	195	90	25	62	170	82	135	TZC6-100
BT(JT)45-TZC 105-285		285							
BT(JT)50-TZC 25-135	25 - 50	135	20	8	22	110	22	93	TZC1-23,TZC1-32
BT(JT)50-TZC 38-180	38 - 70	180	30	10	33	155	33	137	TZC2-35,TZC2-45
BT(JT)50-TZC 50-180	50 - 90	180	40	13	44				
BT(JT)50-TZC 50-240		240							
BT(JT)50-TZC 62-195	62 - 115	195	50	16	56	170	56	153	TZC4-60,TZC4-75
BT(JT)50-TZC 62-270		270							
BT(JT)50-TZC 72-195	72 - 135	195	60	19	66	170	66	153	TZC5-70,TZC5-95
BT(JT)50-TZC 72-285		285							
BT(JT)50-TZC 90-210	90 - 150	210	75	19	72	165	72	150	TZC5-70,TZC5-95
BT(JT)50-TZC 90-300		300							
BT(JT)50-TZC105-225	105 - 190	225	90	25	72	202	85	165	TZC6-100
BT(JT)50-TZC105-315		315							

注：本产品不带镗刀头，如需要，请在订货时说明。Note: This product is non-contain cutter head, if necessary, the time account for of speak for

倾斜型粗镗刀杆

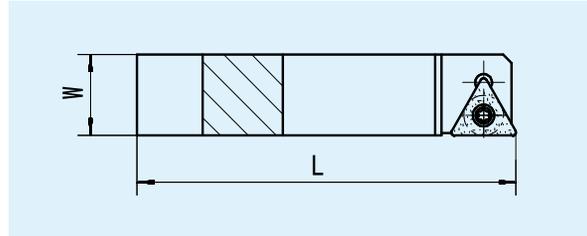
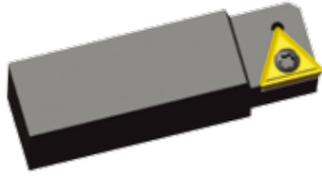
Tilt-Handle rough boring bar



B5

型号规格 Type spec	加工范围 Boring range Dmin - Dmax	尺寸 Dimension							镗刀头型号 Boring head type
		L	D1	W	JT柄		BT柄		
					D2	M	D2	M	
BT(JT)40-TQC 25-135	25 - 38	135	20	8	22	112	22	105	TQC1-28
BT(JT)40-TQC 30-165	30 - 42	165	24		26	142	26	135	TQC1-35
BT(JT)40-TQC 38-180	38 - 52	180	30	10	33	156	33	150	TQC2-48
BT(JT)40-TQC 42-210	42 - 56	210	34		37	186	37	180	
BT(JT)40-TQC 50-180	50 - 65	180	40	13	44	156	44	150	TQC3-56
BT(JT)40-TQC 50-225		225						202	
BT(JT)40-TQC 62-180	62 - 90	180	50	16	48	156	56	150	TQC4-72 TQC4-90
BT(JT)40-TQC 62-240		240						216	
BT(JT)40-TQC 72-180	72 - 110	180	60	19	50	156	58	150	TQC5-85 TQC5-120
BT(JT)40-TQC 72-240		240						216	
BT(JT)40-TQC 90-180	90 - 125	180	75	8	22	112	22	98	TQC1-28 TQC1-35
BT(JT)45-TQC 25-135	25 - 38	135	20					26	
BT(JT)45-TQC 30-165	30 - 42	165	24	10	33	156	33	142	TQC2-48
BT(JT)45-TQC 38-180	38 - 52	180	30					37	
BT(JT)45-TQC 42-210	42 - 56	210	34	13	44	156	44	142	TQC3-56
BT(JT)45-TQC 50-180	50 - 65	180	40					202	
BT(JT)45-TQC 50-225		225		202	188				
BT(JT)45-TQC 62-195	62 - 90	195	50	16	56	172	56	158	TQC4-72 TQC4-90
BT(JT)45-TQC 62-270		270						246	
BT(JT)45-TQC 72-195	72 - 110	195	60	19	58	172	66	158	TQC5-85 TQC5-120
BT(JT)45-TQC 72-285		285						262	
BT(JT)45-TQC 90-195	90 - 125	195	75	19	60	172	72	158	TQC5-85 TQC5-120
BT(JT)45-TQC 90-285		285						262	
BT(JT)50-TQC 25-135	25 - 38	135	20	8	22	112	22	92	TQC1-28 TQC1-35
BT(JT)50-TQC 30-165	30 - 42	165	24					26	
BT(JT)50-TQC 38-180	38 - 52	180	30	10	33	156	33	138	TQC2-48
BT(JT)50-TQC 42-210	42 - 56	210	34					37	
BT(JT)50-TQC 50-180	50 - 65	180	40	13	44	156	44	138	TQC3-56
BT(JT)50-TQC 50-240		240						216	
BT(JT)50-TQC 62-195	62 - 90	195	50	16	56	172	56	152	TQC4-72 TQC4-90
BT(JT)50-TQC 62-270		270						246	
BT(JT)50-TQC 72-195	72 - 110	195	60	19	66	172	66	152	TQC5-85 TQC5-120
BT(JT)50-TQC 72-285		285						262	
BT(JT)50-TQC 90-210	90 - 125	210	75	19	72	186	72	168	TQC5-85 TQC5-120
BT(JT)50-TQC 90-300		300						276	

注：本产品不带镗刀头，如需要，请在订货时说明。 Note: This product is non-contain cutter head, as necessary, in order that time.

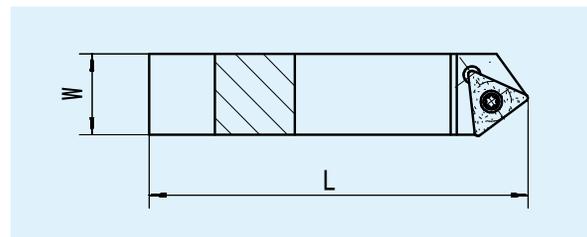


B6

型号规格 Type spec	最小镗孔直径 Least boring Diameter	尺寸 Dimension		刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		L	□W			
TZC1-23	25	23	8	CPGT050204	L60M2.5×6	T8
TZC1-32	34	32				
TZC2-35	38	35	10	TCMT090204	L60M2.2×8	
TZC2-45	48	45				
TZC3-48	50	48	13	TCMT110204	L60M2.5×8	
TZC3-60	62	60				
TZC4-60	62	60	16	TCMT16T308	L60M4×12	T15
TZC4-75	77	75				
TZC5-70	72	70	19	TCMT16T308	L60M4×12	
TZC5-95	97	95				
TZC5-120	122	120	25	TCMT16T308	L60M4×12	
TZC6-100	105	100				
TZC6-125	130	125				

TQC型粗镗刀头

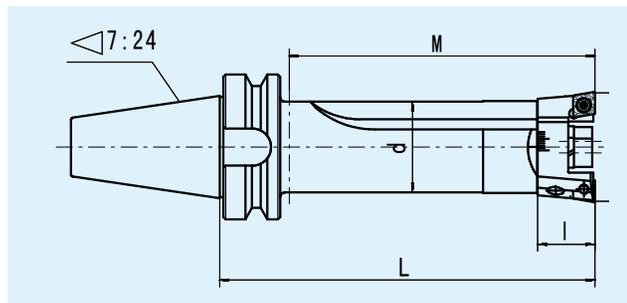
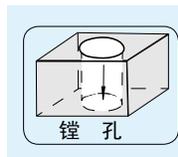
Rough boring head



型号规格 Type spec	最小镗孔直径 Least boring Diameter	尺寸 Dimension		刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		L	□W			
TQC1-28	25	28	8	CPGT050204	L60M2.5×6	T8
TQC1-35	32	35				
TQC2-48	38	48	10	TCMT090204	L60M2.2×8	
TQC3-56	50	56	13	TCMT110204	L60M2.5×8	
TQC4-72	62	72				
TQC4-90	80	90	16	TCMT16T308	L60M4×12	
TQC5-85	72	85				
TQC5-120	90	120	19	TCMT16T308	L60M4×12	

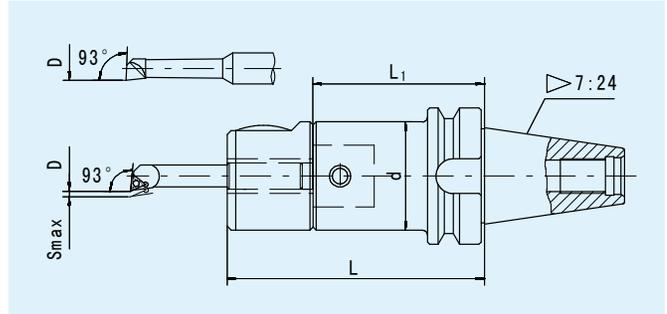
双头镗刀

Double head boring cutter



B7

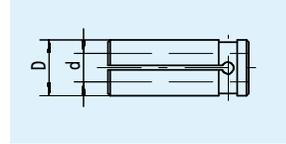
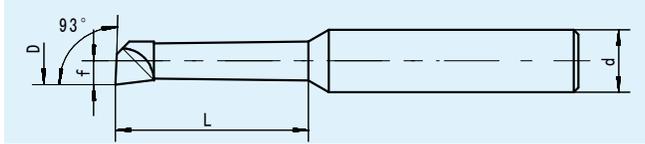
型号规格 Type spec	加工范围 Boring range Dmin - Dmax	尺寸 Dimension						刀片 Blades	梅花螺钉 Screw	刀座 Blades shim	刀座螺钉 Screw
		L	l	JT柄		BT柄					
				d	M	d	M				
BT(JT)40-TS 36-135	36 - 46	135	22	32	110	32	105	CCMT09T308	L6OM4×12	TS 36/2	TS 36/3
BT(JT)40-TS 45-165	45 - 62	165	24	40	140	40	135			TS 45/2	TS 45/3
BT(JT)40-TS 60-165	60 - 82		44	44		TS 60/2				TS 80/3	
BT(JT)40-TS 80-165	80 - 110		28	44	44	135	CCMT120408	L6OM5×15	TS 80/2	TS 80/3	
BT(JT)45-TS 36-135	36 - 46	135	22	32	110	32	98	CCMT09T308	L6OM4×12	TS 36/2	TS 36/3
BT(JT)45-TS 45-165	45 - 62	165	24	40	140	40	138			TS 45/2	TS 45/3
BT(JT)45-TS 60-195	60 - 82	195		50	170	50	168			TS 60/2	TS 80/3
BT(JT)45-TS 80-195	80 - 110		28	50	170	50	168	CCMT120408	L6OM5×15	TS 80/2	TS 80/3
BT(JT)45-TS105-195	105 - 135	28	50	170	50	168	CCMT120408	L6OM5×15	TS 80/2	TS 80/3	
BT(JT)50-TS 36-135	36 - 46	135	22	32	110	32	93	CCMT09T308	L6OM4×12	TS 36/2	TS 36/3
BT(JT)50-TS 45-165	45 - 62	165	24	40	140	40	122			TS 45/2	TS 45/3
BT(JT)50-TS 60-195	60 - 82	195		52	170	52	152			TS 60/2	TS 80/3
BT(JT)50-TS 80-220	80 - 110	220	28	60	195	60	177	CCMT120408	L6OM5×15	TS 80/2	TS 80/3
BT(JT)50-TS105-240	105 - 135	240		60	195	60	177			TS 105/2	TS 130/3
BT(JT)50-TS130-240	130 - 180		215	197	TS 130/2	TS 130/3					
BT(JT)50-TS175-240	175 - 240	32	80	80	80	170	170	TS 175/2	TS 175/3		
BT(JT)50-TS235-210	235 - 300							185	170	TS 235/2	TS 235/3



I 型

型号规格 Type spec	加工范围 Boring range Dmin - Dmax	尺寸 Dimension			小孔径镗刀 Small aperture boring cutter	精镗刀杆 Precision boring bar	弹簧夹头 Spring collet
		L	L ₁	d			
BT(JT)40-TMA2-118	2~20	118	78	50	YTD02.15-93°, YTD03.20-93° YTD04.20-93°, YTD05.30-93° YTD06.35-93°, YTD08.40-93° YTD10.45-93°, YTD12.50-93°	JTD09.35-93° JTD14.45-93°	D12-06 D12-08 D12-10
BT(JT)50-TMA2-148		148	108				
BT(JT)40-TMA14-114	10~42	114	64	64	—	JTD16.10-40 JTD16.18-50 JTD16.26-65	—
BT(JT)50-TMA14-144		144	94				

注：本产品不含刀头，需另行订购。Note: The product non-contain boring cutter head, the user can be additional speak for.



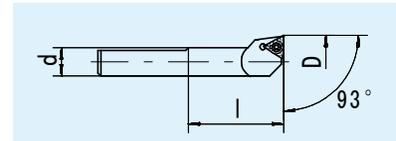
I 型用小孔径镗刀 (整体硬质合金) Type I with small aperture boring cutter (solid carbide)

型号规格 Type spec	加工范围 Boring range Dmin - Dmax	S _{max}	d	l
YTD02.15-93°	2~3.5	3.5	6	15
YTD03.20-93°	3~4.5			20
YTD04.20-93°	4~5.5			30
YTD05.30-93°	5~6.5		8	35
YTD06.35-93°	6~10			40
YTD08.40-93°	8~14			45
YTD10.45-93°	10~16			50
YTD12.50-93°	12~18		12	50

注：YTD12.50-93° 不用弹簧夹头，直接装入镗刀体中。
Note: YTD12.50-93° Do not with spring collet, directly into the boring cutter body

I 型用弹簧夹头 Type I with spring collet

型号规格 Type spec	D	d	适用小孔径镗刀型号
D12-06	12	6	YTD02.15-93°, YTD03.20-93° YTD04.20-93°, YTD05.30-93°
D12-08		8	YTD06.35-93°, YTD08.40-93°
D12-10		10	YTD10.45-93°

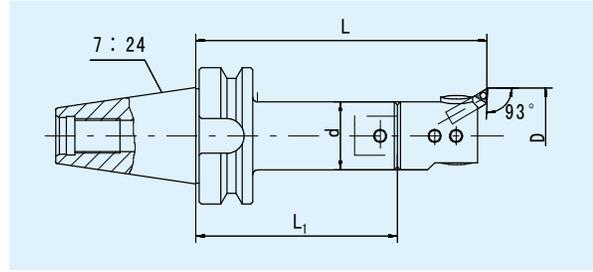


I 型用精镗刀杆 Type I with precision boring bar

型号规格 Type spec	加工范围 Boring range Dmin - Dmax	尺寸 Dimension		刀片 Blades	梅花螺钉 Screw	扳手 Wrench
		d	l			
JTD09.35-93°	9~15	12	35	TPGX080202L	L90M2×5	T6
JTD14.45-93°	14~22		45	TPGX110302L	L90M3×7	T8
JTD16.10-40	10~19	16	40	TPGX080202L	L90M2×5	T6
JTD16.18-50	18~27		50	TPGX110302L	L90M3×7	T8
JTD16.26-65	26~35		65			
JTD16.34-85	34~42		85			

精密微调镗刀

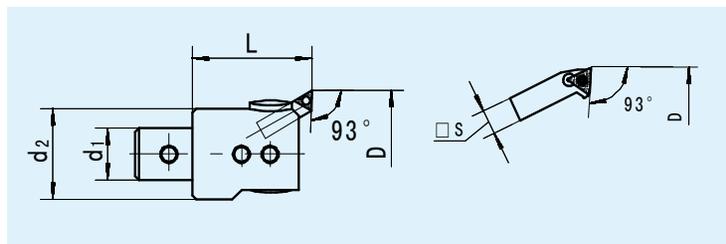
Precision fine-tuning boring cutter



B9

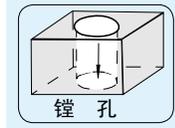
II 型

型号规格 Type spec	加工范围 Boring range Dmin - Dmax	尺寸 Dimension			镗刀体 Boring	精镗刀头 Precision boring cutter head
		L	L ₁	d		
BT(JT)40-TMA32-135	32~42	135	94	31	TMA32~42	TMA32~42-09
BT(JT)40-TMA41-135	41~54		88	39	TMA41~54	TMA41~54-09
BT(JT)40-TMA53-135	53~70		78	50	TMA53~70	TMA53~70-09
BT(JT)40-TMA68-135	68~100		64	64	TMA68~100	TMA68~100-09
BT(JT)40-TMA100-135	100~150		64	64	TMA100-150	TMA100-150-09
BT(JT)50-TMA32-165	32~42	165	124	31	TMA32~42	TMA32~42-09
BT(JT)50-TMA41-165	41~54	165	118	39	TMA41~54	TMA41~54-09
BT(JT)50-TMA41-225		225	178			
BT(JT)50-TMA53-165	53~70	165	108	50	TMA53~70	TMA53~70-09
BT(JT)50-TMA53-240		240	183			
BT(JT)50-TMA68-165	68~100	165	94	64	TMA68~100	TMA68~100-09
BT(JT)50-TMA68-240		240	169			
BT(JT)50-TMA68-300		300	229			
BT(JT)50-TMA100-165	100~150	165	94	64	TMA100-150	TMA100-150-09
BT(JT)50-TMA100-240		240	169			
BT(JT)50-TMA100-300		300	229			

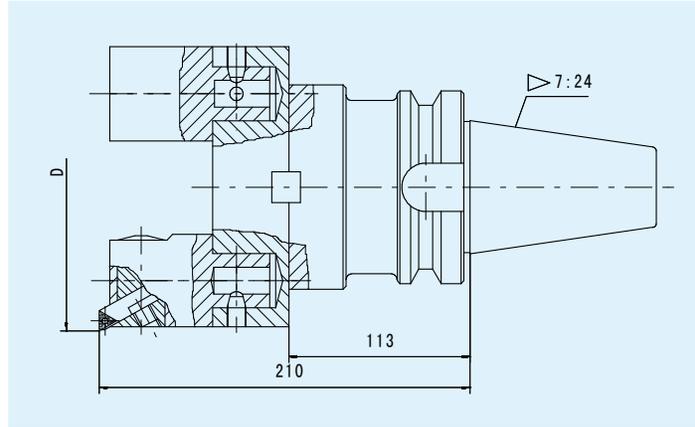


II 型用镗刀体 Type II with boring cutter body

型号规格 Type spec	加工范围 Boring range Dmin - Dmax	尺寸 Dimension				刀片 Blades	精镗刀头 Precision boring cutter head	梅花螺钉 Screw	扳手 Wrench
		d ₁	d ₂	L	□S				
TMA32~42	32~42	18	30.5	41	6	TCGT060102L-F	TMA32-42-09	L60M2×5	S3,T6
TMA41~54	41~54	22	38.0	47	8		TMA41-54-09		S4,T6
TMA53~70	53~70	28	49.0	57	10	TPGX080202L	TMA53-70-09	L90M2×5	S5,T6
TMA68~100	68~100	36	63	71	12		TMA68-100-09		S6,T6
TMA100-150	100~150						TMA100-150-09		



B10



III型

型号规格 Type spec	加工范围 Boring range Dmin - Dmax	配套镗刀体 Share boring cutter body	型号规格 Type spec	加工范围 Boring range Dmin - Dmax	配套镗刀体 Share boring cutter body
BT(JT) 50-TMA150-210	150~167	TMA53-70	BT(JT) 50-TMA225-210	225~242	TMA53-70
BT(JT) 50-TMA165-210	165~182		BT(JT) 50-TMA240-210	240~257	
BT(JT) 50-TMA180-210	180~197		BT(JT) 50-TMA255-210	255~272	
BT(JT) 50-TMA195-210	195~212		BT(JT) 50-TMA270-210	270~287	
BT(JT) 50-TMA210-210	210~227		BT(JT) 50-TMA285-210	285~302	

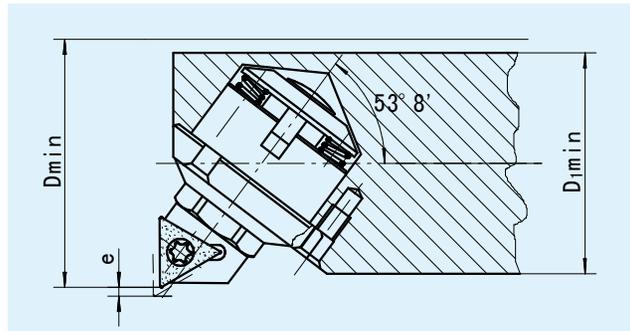
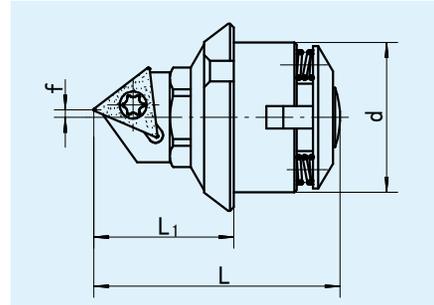
精镗单元

Precision boring unit



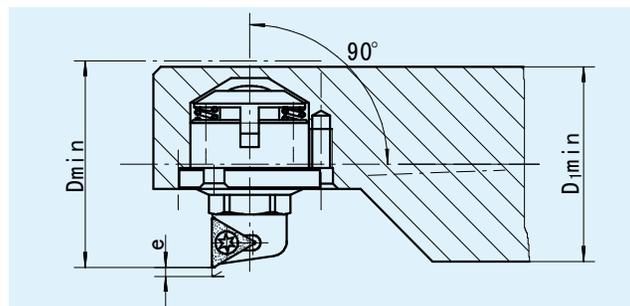
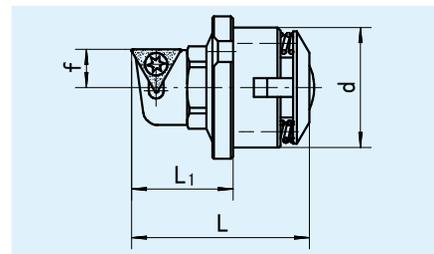
精镗单元调节盘转动1个刻度, 刀尖径向位移 $1\mu\text{m}$, 加工直径值为 $2\mu\text{m}$ 。

Precision boring unit adjustment turn dial each scale, knife point radial displacement $1\mu\text{m}$, the boring diameter is $2\mu\text{m}$.



角度安装 Installation of angle

型号规格 Type spec	尺寸 Dimension							刀片 Blades	梅花螺钉 Screw	扳手 Wrench
	L	L ₁	d	f	D _{min}	D _{1min}	e			
JTX254 R/L	24.6	13.7	16	0.45	25.4	23	1.2	TCGT060102L	L60M2×5	T6
JTX331 R/L	33.3	18.9	20	1.0	33.1	29.5	1.6	TPGT090202L	L60M2.2×5	T8
JTX426 R/L	44.8	22.6	22	1.2	42.6	39	2.6			
JTX606 R/L	65	32.5	32	2.0	60.6	56	4.0	TPGT110302L	L60M2.5×6	



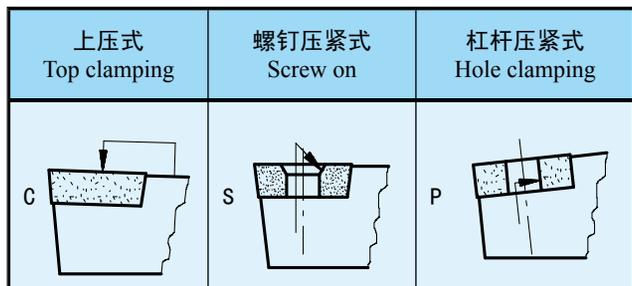
直角安装 Installation of right angles

型号规格 Type spec	尺寸 Dimension							刀片 Blades	梅花螺钉 Screw	扳手 Wrench
	L	L ₁	d	f	D _{min}	D _{1min}	e			
JT254 R/L	24.6	13.7	16	5.3	27.6	26	1.2	TCGT060102L	L60M2×5	T6
JT2331 R/L	33.3	18.9	20	6.3	37.1	34.5	1.6	TPGT090202L	L60M2.2×5	T8
JT2426 R/L	44.8	22.6	22	7.2	49.1	46.5	2.6			
JT2606 R/L	65	32.5	32	10.3	69.6	67	4.0	TPGT110302L	L60M2.5×6	

S	T	F	C	R/L	10	CA	11
1	2	3	4	5	6	7	8

B12

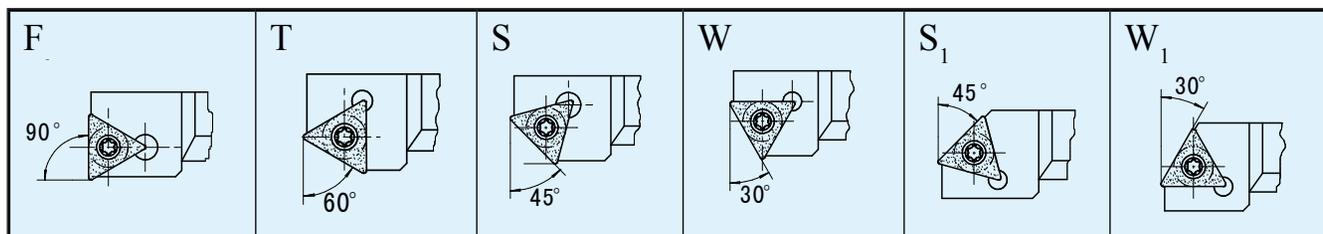
1. 刀片夹紧方式 Clamp mode of blades



2. 刀片形状 Inserts shape

C	 80°菱形顶角 Rhombic 80°
S	 正方形 Square
T	 正三角形 Triangle

3. 头部形式与主偏角 Head mode and tool cutting edge angle



4. 刀片后角 Blades clearance angle

P	11°	E	20°
C	7°	N	0°

5. 切削方向 Cutting direction

R	右切 Right hand
L	左切 Left hand

6. 刀尖至刀夹底面高度

High of cutting units underside to knifepoint

代码 Code	06	08	10	12	16
高度	6	8	10	12	16

7. 刀夹类型

Type of cutting units with clamp combination

代码 Code	CA
类型 Type	ISO标准A型镗刀夹

8. 刀尖至刀夹底面高度

High of cutting units underside to knifepoint

代码 Code	06	09	11	16
内切圆直径 Inscribed circle diameter	Φ3.97	Φ5.56	Φ6.35	Φ9.525

注:

1. 刀夹主要尺寸规格原则上采用国际标准, 为方便零配件的采购和管理, 只选取了正三角形刀片作为刀夹配用刀片. 如果用户有特殊需要, 也可按80°菱形或正方形刀片制造.

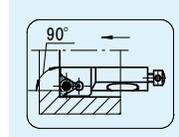
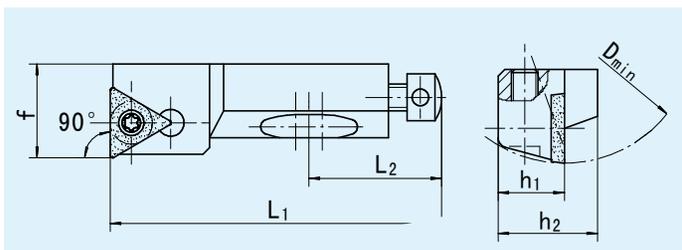
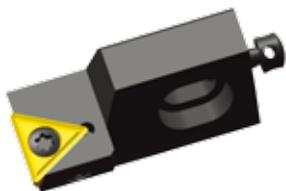
2. 刀夹的编号方法与国际标准基本相同, 为了满足用户需求, 增加了30°和45°外倒角刀夹, 仅在相应字母右下角加脚注1, 作为相应刀夹的改型, 以保持标准的一致性.

Note:

1. Cutting units with clamp combination main sizes of the principle use the of international standards, to facilitate the procurement and management of spare parts, only selected a sort of regular triangle blade by way of distribution. If a user with special needs, also can according to 80° diamond-shape or square blade to making.

2. Cutting units with clamp combination number of ways with the same basic international standards, in order to meet the needs of user, an increase of 30° and 45° chamfering cutting units with clamp combination, only the corresponding letters in the right lower corner plus a footnote "1", as a corresponding remodel, maintain the standard consistency.

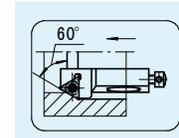
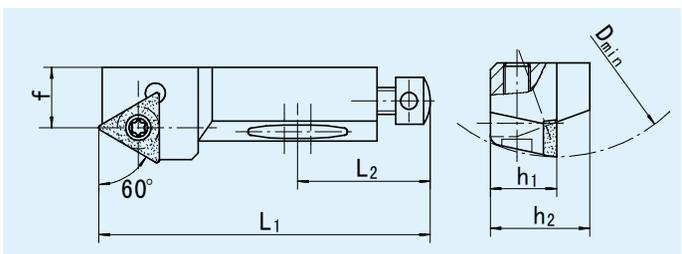
90°、60°、45° 刀夹
90°、60°、45° Boring tool holder



90°

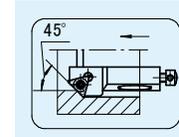
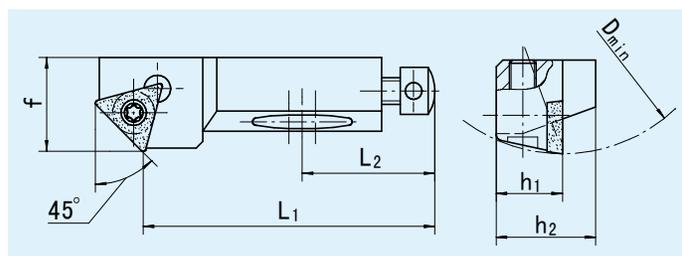
型号规格 Type spec	尺寸 Dimension						刀片 Blades	梅花螺钉 Screw	压紧螺钉 Screw	轴调螺钉 Screw	径调螺钉 Screw	扳手 Wrench
	h ₁	h ₂	L ₁	L ₂	f	D _{min}						
STFC R/L06CA-06	6	8.5	25	12	8	25	TCMT06T 104	L60M 2×5	M3.5×10	TL3-8	M3×6	T8
STFC R/L08CA-09	8	11	32	17	10	32	TCMT 090204	L60M 2.2×6	M4×15	TL3-10	M3×8	
STFC R/L10CA-11	10	15	50	20	14	40	TCMT 110204	L60M 2.5×6	M6×20	TL4-15	M4×12	
STFC R/L12CA-16	12	20	55		20	50	TCMT16T 308	L60M 4×10	M6×25		M4×16	T10
STFC R/L16CA-16	16	21	63	25	25	75			M8×32	TL6-18	M5×20	

B13



60°

型号规格 Type spec	尺寸 Dimension						刀片 Blades	梅花螺钉 Screw	压紧螺钉 Screw	轴调螺钉 Screw	径调螺钉 Screw	扳手 Wrench
	h ₁	h ₂	L ₁	L ₂	f	D _{min}						
STTC R/L06CA-06	6	8.5	25	12	5.5	25	TCMT 06T104	L60M2×5	M3.5×10	TL3-8	M3×6	T8
STTC R/L08CA-09	8	11	32	17	6	32	TCMT 090204	L60M2.2×6	M4×15	TL3-10	M3×8	
STTC R/L10CA-11	10	15	50	20	9	40	TCMT 110204	L60M2.5×6	M6×20	TL4-15	M4×12	
STTC R/L12CA-16	12	20	55		13	50	TCMT 16T308	L60M4×10	M6×25		M4×16	T10
STTC R/L16CA-16	16	21	63	25	15	75			M8×32	TL6-18	M5×20	

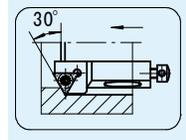
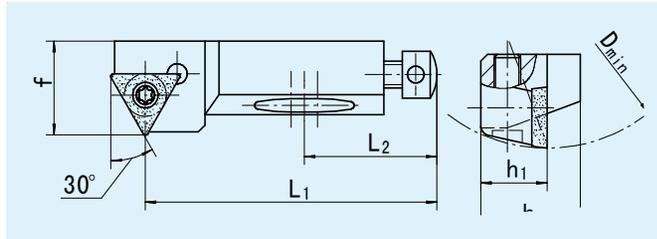


45°

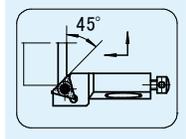
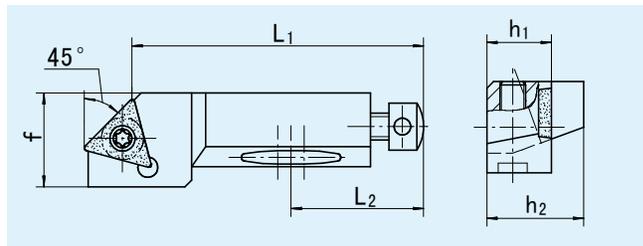
型号规格 Type spec	尺寸 Dimension						刀片 Blades	梅花螺钉 Screw	压紧螺钉 Screw	轴调螺钉 Screw	径调螺钉 Screw	扳手 Wrench
	h ₁	h ₂	L ₁	L ₂	f	D _{min}						
STSC R/L06CA-06	6	8.5	22	12	8	25	TCMT06T104	L60M2×5	M3.5×10	TL3-8	M3×6	T8
STSC R/L08CA-09	8	11	28	17	10	32	TCMT090204	L60M2.2×6	M4×15	TL3-10	M3×8	
STSC R/L10CA-11	10	15	44	20	14	40	TCMT110204	L60M2.5×6	M6×20	TL4-15	M4×12	
STSC R/L12CA-16	12	20	47		20	50	TCMT16T308	L60M4×10	M6×25		M4×16	T10
STSC R/L16CA-16	16	21	53	25	25	75			M8×32	TL6-18	M5×20	

B14

30°

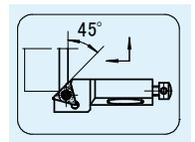
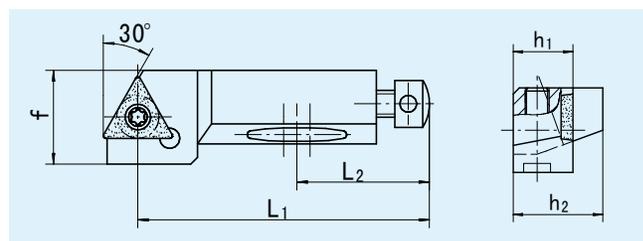
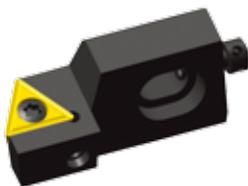


型号规格 Type spec	尺寸 Dimension						刀片 Blades	梅花螺钉 Screw	压紧螺钉 Screw	轴调螺钉 Screw	径调螺钉 Screw	扳手 Wrench
	h ₁	h ₂	L ₁	L ₂	f	D _{min}						
STWC R/L06CA-06	6	8.5	22.7	12	8	25	TCMT06T104	L60M2×5	M3.5×10	TL3-8	M3×6	T8
STWC R/L08CA-09	8	11	29	17	10	32	TCMT090204	L60M2.2×6	M4×15	TL3-10	M3×8	
STWC R/L10CA-11	10	15	44	20	14	40	TCMT110204	L60M2.5×6	M6×20	TL4-15	M4×12	
STWC R/L12CA-16	12	20	47		20	50	TCMT16T308	L60M4×10	M6×25		M4×16	T10
STWC R/L16CA-16	16	21	53	25	25	75			M8×32	TL6-18	M5×20	



外45°

型号规格 Type spec	尺寸 Dimension					刀片 Blades	梅花螺钉 Screw	压紧螺钉 Screw	轴调螺钉 Screw	径调螺钉 Screw	扳手 Wrench
	h ₁	h ₂	L ₁	L ₂	f						
STS ₁ C R/L06CA-06	6	8.5	22	12	8.5	TCMT06T104	L60M2×5	M3.5×10	TL3-8	M3×6	T8
STS ₁ C R/L08CA-09	8	11	28	17	11	TCMT090204	L60M2.2×6	M4×15	TL3-10	M3×8	
STS ₁ C R/L10CA-11	10	15	44	20	14	TCMT110204	L60M2.5×6	M6×20	TL4-15	M4×12	
STS ₁ C R/L12CA-16	12	20	47		20	TCMT16T308	L60M4×10	M6×25		M4×16	T10
STS ₁ C R/L16CA-16	16	21	53	25	24			M8×32	TL6-18	M5×20	

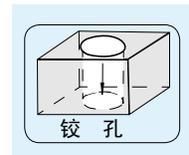
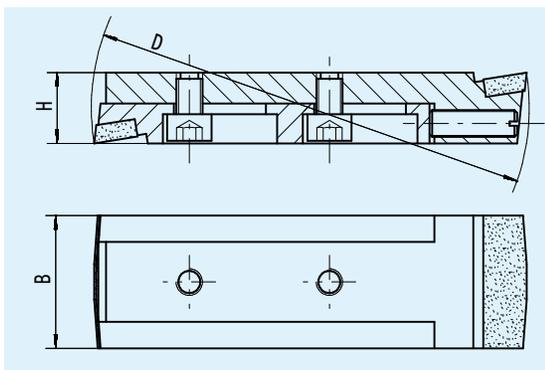


外30°

型号规格 Type spec	尺寸 Dimension					刀片 Blades	梅花螺钉 Screw	压紧螺钉 Screw	轴调螺钉 Screw	径调螺钉 Screw	扳手 Wrench
	h ₁	h ₂	L ₁	L ₂	f						
STW ₁ CR/L06CA-06	6	8.5	22.7	12	8	TCMT06T104	L60M2×5	M3.5×10	TL3-8	M3×6	T8
STW ₁ CR/L08CA-09	8	11	29	17	11	TCMT090204	L60M2.2×6	M4×15	TL3-10	M3×8	
STW ₁ CR/L10CA-11	10	15	44	20	14	TCMT110204	L60M2.5×6	M6×20	TL4-15	M4×12	
STW ₁ CR/L12CA-16	12	20	47		20	TCMT16T308	L60M4×10	M6×25		M4×16	T10
STW ₁ CR/L16CA-16	16	21	53	25	24			M8×32	TL6-18	M5×20	

硬质合金可调节浮动铰刀

Carbide adjustable floating reaming



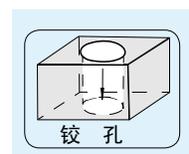
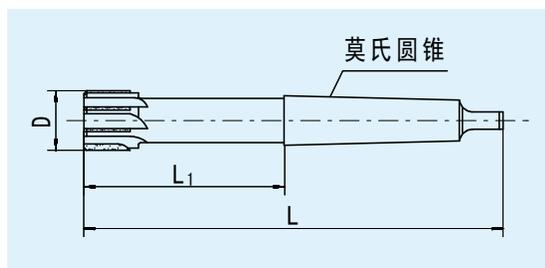
B15

型号规格 Type spec	加工范围 Dmin - Dmax	尺寸 Dimension			型号规格 Type	加工范围 Dmin - Dmax	尺寸 Dimension				
		B	H	d			B	H	d		
FD 30-2008	30-33	20	8	22	FD100-3016	≥100-110	30	16	90		
FD 33-2008	≥33-36				FD110-3016	≥110-120					
FD 36-2512	≥36-40				FD120-3016	≥120-135					
FD 40-2512	≥40-45	25	12	30	FD135-3016	≥135-150					
FD 45-2512	≥45-50				FD150-3520	≥150-170					
FD 50-2512	≥50-55				FD170-3520	≥170-190					
FD 55-2512	≥55-60	30	16	45	FD190-3520	≥190-210	35	20	140		
FD 60-3016	≥60-65				FD210-3520	≥210-230					
FD 65-3016	≥65-70				FD230-3520	≥230-250					
FD 70-3016	≥70-80	30	16	60							
FD 80-3016	≥80-90										
FD 90-3016	≥90-100										

A型: 为加工铸件通孔 B型: 为加工铸件盲孔 AC型: 为加工钢件通孔 BC型: 为加工钢件盲孔

硬质合金机用铰刀

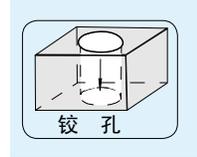
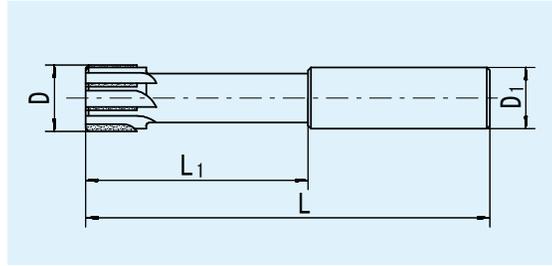
Machine reaming with carbide



莫氏圆锥 Morse taper

型号规格 Type spec	齿数 Teeth Z	莫氏圆锥号 Morse taper no	尺寸 Dimension		
			D	L	L ₁
JDM-□-△ 注: □-铰刀直径 △-铰孔精度等级	4	M1	12~15	182	116
	6	M2	16~22	210	131
		M3	23~31	268	170
		M4	32~44	317	194
	8	M4	45~50	330	210

B16

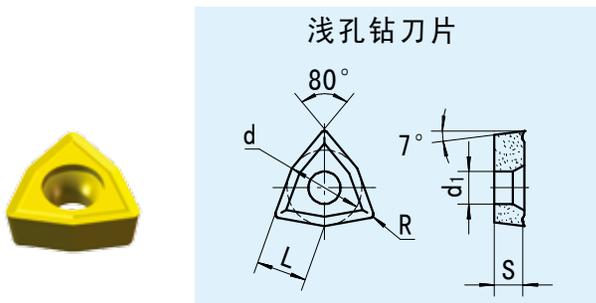
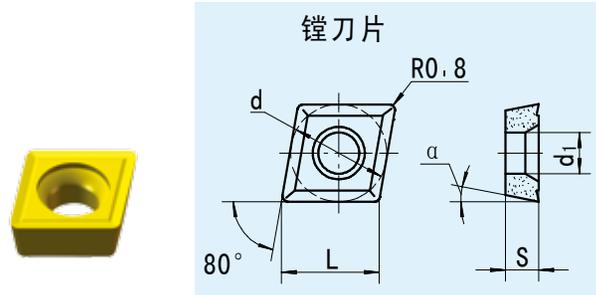
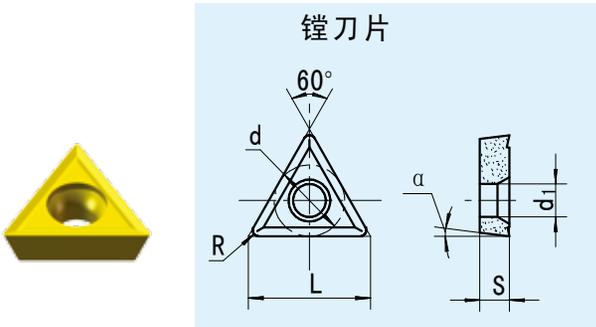


直柄 Cylinder handle

型号规格 Type spec	齿数 Teech Z	尺寸 Dimension			
		D	D ₁	L	L ₁
JDZ-□-△ 注: □-铰刀直径 △-铰孔精度等级	4	10	10	133	87
		12	12	151	105
		14	14	160	110
		15	16	162	112
		16		170	120
		6	17	18	175
	18		182		130
	20		20	195	137

硬质合金镗刀和浅孔钻刀片

Carbide blades for boring cutter and shallow hole drills



型号规格 Type spec	尺寸 Dimension					
	L	d	S	d ₁	α	R
TCGT060102L-F	6.9	3.97	1.59	2.3	7°	0.2
TCMT06T104						0.4
TCMT090204	9.6	5.56	2.38	2.5		0.8
TCMT110204	11	6.35				
TCMT16T308	16.5	9.525	3.97	4.4	11°	0.2
TPGX080202L	8.3	4.76	2.38	2.5		
TPGX110202L	11	6.35				
TPGT090202L	9.6	5.56	2.38	2.5		
TPGT110302L	11	6.35	3.18	2.8		

型号规格 Type spec	尺寸 Dimension				
	L	d	S	d ₁	α
CPGT050208	5.6	5.56	2.38	2.8	11°
CCMT09T308	9.7	9.525	3.97	4.4	7°
CCMT120408	12.9	12.7	4.76	5.5	

型号规格 Type spec	尺寸 Dimension				
	L	d	S	d ₁	R
WCMX040208	4.3	6.35	2.38	3.1	0.8
WCMX050308	5.4	7.94	3.18	3.2	
WCMX06T308	6.5	9.525	3.97	3.7	
WCMX080412	8.7	12.7	4.76	4.3	

孔加工刀具切削用量 (参考)

Cutting data for hole machining cutter (For reference)



刀具名称型号 Name and type of cutter	被加工材料及硬度 Machining material and/or rigidity	切削速度 Cutting speed v_c (m/min)	每转进给量 f (mm/r)	切削深度 Cutting depth a_p (mm)
硬质合金强力钻 QZ Carbide powerful drills	软钢、铸铁 Soft steel, Cast-iron	60~90	0.20~0.40	3D (D-钻头直径)
	合金钢、工具钢 Alloy steel, Tool steel	20~40	0.15~0.25	
可转位螺旋沟浅孔钻 QKX、QKM Indexable shallow hole drills with spiral flute	碳素钢 HB200 Carbon steel HB200	80~100	0.07~0.10	—
硬质合金锥柄扩孔钻 YHKZ carbide core drills with taper shank	碳素钢 HB170~200 Carbon steel HB170~200	25~35	0.05~0.30(mm/z)	≤2.5
	铸铁 HB200 Cast-iron HB200	25~35	0.08~0.40(mm/z)	
精密微调镗刀 TMA TMB Precision fine-tuning boring cutter	软钢 HB≤180 Soft steel HB≤180	140~160	0.05~0.15	每次吃刀量 0.05~0.8 (直径方向)
	碳素钢、合金钢 HB180~280 Carbon steel, alloy steel HB 180~280	130~150		
	不锈钢 HB≤200 Stain-less steel HB≤200	120~130		
	铸铁 抗拉强度 ≤450N/mm ² Cast-iron ≤450N/mm ²	100~110		
	铝合金 Aluminum alloy	150~170		
硬质合金机用铰刀 JDM JDZ Machine reaming with carbide	碳素钢 HB200 Carbon steel HB200	6~10	0.10~0.25	铰削余量 0.15~0.30
	铸铁 HB200 Cast-iron HB200	8~12	0.20~0.40	

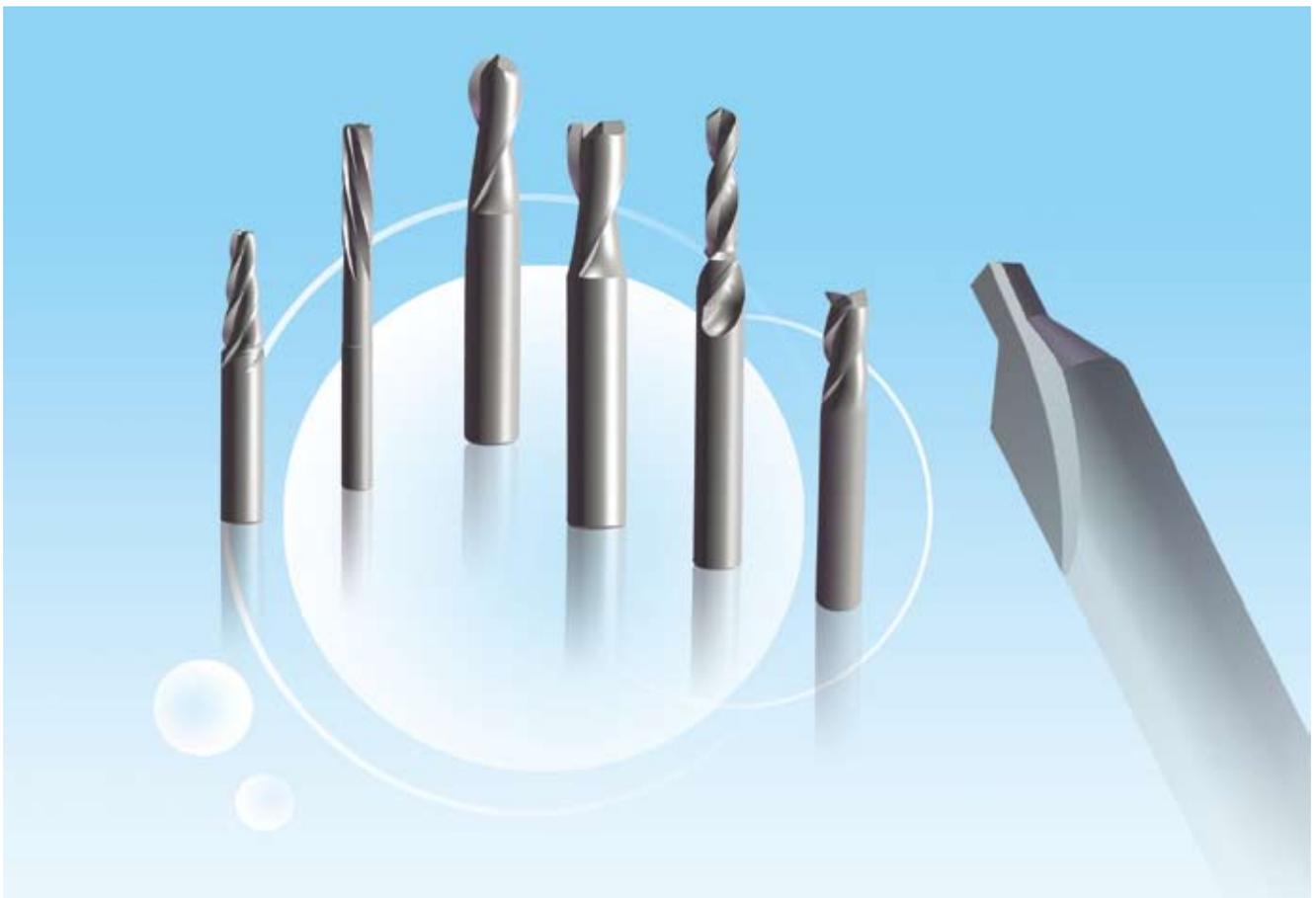
注:

1. 如机床与工装刚性较差, 或有振动和噪音, 应降低转速和进给。
2. 精加工时, 建议采用较低的进给。
3. 未列入品种可参照类似品种

Notes:

1. If machine tools and equipment rigid flooey go, or vibration and noise, should reduce speed and feed.
2. finish machining, suggested that lower feed.
3. The variety is not included in the light of similar species

■ 产品预	
Product overview	
■ 整体硬质合金钻头·····	C1-C5
Solid carbide drills	
■ 整体硬质合金铣刀·····	C5-C9
Solid carbide milling tools	
■ 整体硬质合金小孔径镗刀·····	C10
Solid carbide small hole boring cutter	
■ 整体硬质合金铰刀·····	C10
Solid carbide reaming	
■ 整体硬质合金刀具切削用量（参考）·····	C11
Solid carbide cutting tool (For reference)	



一. 整体硬质合金钻头 Solid carbide drills

	YZCZ 	YSRZ 	YZD 	YJZ 	YZX 
页码 Page	C1	C2	C3	C4	C5
	YDZ 				
页码 Page	C5				

二. 整体硬质合金铣刀 Solid carbide milling tools

	YJX 	YLX 	YYX 	YQX 	YYLX 
页码 Page	C5	C6	C7	C7	C8
	YYQX 	YBX 			
页码 Page	C9	C9			

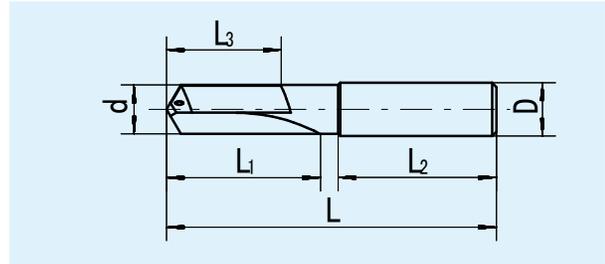
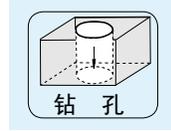
三. 整体硬质合金小孔径镗刀 Solid carbide small aperture boring cutter

	YTD-Kr 				
页码 Page	C10				

四. 整体硬质合金铰刀 Solid carbide reaming

	YJD 	YJDL 			
页码 Page	C10	C10			

铸铁、有色金属加工用直槽硬质合金钻头 Solid carbide Straight flute drills for cast-iron, nonferrous metal



C1

型号规格 Type spec	尺寸 Dimension						型号规格 Type spec	尺寸 Dimension											
	d	D	L	L ₁	L ₂	L ₃		d	D	L	L ₁	L ₂	L ₃						
YZCZ-038.29	3.8	6	70	29	36	29	YZCZ-115.56	11.5	12	130	56	71	56						
YZCZ-040.29	4.0						YZCZ-118.56	11.8											
YZCZ-042.29	4.2						YZCZ-120.56	12.0											
YZCZ-045.29	4.5		YZCZ-125.60	12.5	14	140	60	77						60					
YZCZ-048.35	4.8		82	35											44	35	YZCZ-130.60	13.0	
YZCZ-050.35	5.0																YZCZ-135.60	13.5	
YZCZ-052.35	5.2																YZCZ-138.60	13.8	
YZCZ-055.35	5.5				YZCZ-140.60	14.0													
YZCZ-058.35	5.8		8	101	43	53	43	YZCZ-142.63						14.2	16	150	63	83	63
YZCZ-060.35	6.0							YZCZ-145.63						14.5					
YZCZ-063.35	6.3	YZCZ-150.63						15.0											
YZCZ-065.43	6.5	YZCZ-155.63						15.5											
YZCZ-068.43	6.8	YZCZ-160.63						16.0	18	160	66	89	66						
YZCZ-070.43	7.0	YZCZ-165.71						16.5											
YZCZ-075.43	7.5	YZCZ-170.71						17.0											
YZCZ-078.43	7.8	YZCZ-175.71						17.5											
YZCZ-080.43	8.0	YZCZ-180.71						18.0	20	170	69	95	69						
YZCZ-085.49	8.5	YZCZ-190.77						19.0											
YZCZ-090.49	9.0	YZCZ-195.77	19.5																
YZCZ-095.49	9.5	YZCZ-200.77	20.0																
YZCZ-098.49	9.8	YZCZ-210.85	21.0	22	180	72	101	72											
YZCZ-100.49	10.0	YZCZ-220.85	22.0																
YZCZ-102.56	10.2	YZCZ-230.98	23.0																
YZCZ-105.56	10.5	12	130	56	71	56	YZCZ-240.98	24.0	25	188	75	107	75						
YZCZ-110.56	11.0						YZCZ-250.98	25.0											

型号规格举例: d=5.5, L1=35, 整体硬质合金直槽钻的型号规格为 YZCZ-055.35

Type spec citing: d=5.5, L1=35, Solid Carbide Straight flute drills type spec become YZCZ-055.35

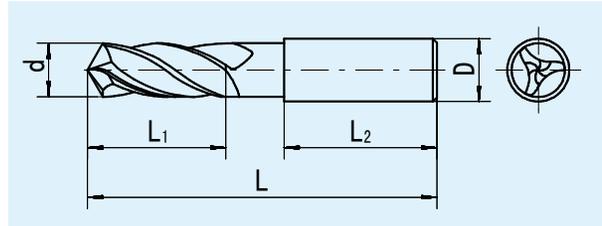
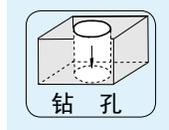
注: 若需要内冷孔, 请订购时说明。 Note: For hole in the cold, please note when order.

整体硬质合金三刃钻

Solid carbide drills with three edge



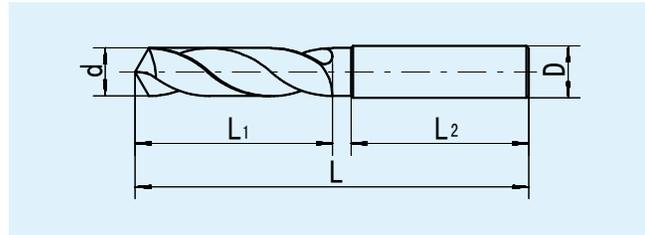
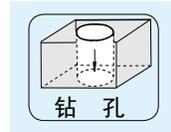
铸铁、有色金属加工用三刃硬质合金钻头 Solid carbide drills of three edges for cast-iron, nonferrous meta



型号规格 Type spec	尺寸 Dimension					型号规格 Type spec	尺寸 Dimension				
	d	D	L	L ₁	L ₂		d	D	L	L ₁	L ₂
YSRZ-030.28	3.0	6	66	28	36	YSRZ-105.71	10.5	12	118	71	45
YSRZ-032.28	3.2					YSRZ-110.71	11.0				
YSRZ-035.28	3.5					YSRZ-115.71	11.5				
YSRZ-038.36	3.8		74	36	36	YSRZ-120.71	12.0	14	124	77	45
YSRZ-040.36	4.0					YSRZ-125.77	12.5				
YSRZ-042.36	4.2					YSRZ-128.77	12.8				
YSRZ-045.36	4.5	82	44	36	YSRZ-130.77	13.0					
YSRZ-048.44	4.8				YSRZ-135.77	13.5					
YSRZ-050.44	5.0				YSRZ-138.77	13.8					
YSRZ-052.44	5.2				YSRZ-140.77	14.0					
YSRZ-055.44	5.5				YSRZ-145.83	14.5					
YSRZ-058.44	5.8				YSRZ-150.83	15.0					
YSRZ-060.44	6.0	8	91	53	36	YSRZ-155.83	15.5	16	133	83	48
YSRZ-065.53	6.5					YSRZ-160.83	16.0				
YSRZ-068.53	6.8					YSRZ-165.93	16.5				
YSRZ-070.53	7.0					18	143	93	48	YSRZ-170.93	17.0
YSRZ-075.53	7.5									YSRZ-175.93	17.5
YSRZ-078.53	7.8									YSRZ-180.93	18.0
YSRZ-080.53	8.0	10	103	61	40	YSRZ-190.101	19.0	20	153	101	50
YSRZ-082.61	8.2					YSRZ-195.101	19.5				
YSRZ-085.61	8.5					YSRZ-200.101	20.0				
YSRZ-088.61	8.8					22	167	112	50	YSRZ-210.112	21.0
YSRZ-090.61	9.0									YSRZ-220.112	22.0
YSRZ-095.61	9.5									YSRZ-230.112	23.0
YSRZ-098.61	9.8	25	184	112	50	YSRZ-240.112	24.0				
YSRZ-100.61	10.0					YSRZ-250.112	25.0				

型号规格举例: d=5.5,L1=44整体硬质合金麻花钻的型号规格为YSRZ-055.44
 Type spec citing: d=5.5,L1=44, Solid carbide twist drills type spec become YSRZ-055.44

C2



C3

型号规格 Type spec	尺寸 Dimension					型号规格 Type spec	尺寸 Dimension				
	d	D	L	L ₁	L ₂		d	D	L	L ₁	L ₂
YZD-030.20	3.0	6	62	20	36	YZD-105.55	10.5	12	102	51	45
YZD-032.20	3.2					YZD-110.55	11.0				
YZD-035.20	3.5					YZD-115.55	11.5				
YZD-038.20	3.8					YZD-118.55	11.8				
YZD-040.24	4.0					YZD-120.55	12.0				
YZD-042.24	4.2					YZD-123.60	12.3				
YZD-045.24	4.5	66	24	36	YZD-125.60	12.5	14	107	56	45	
YZD-048.28	4.8				YZD-130.60	13.0					
YZD-050.28	5.0				YZD-135.60	13.5					
YZD-052.28	5.2				YZD-140.60	14.0					
YZD-055.28	5.5				YZD-145.65	14.5					
YZD-058.28	5.8				YZD-150.65	15.0					
YZD-060.28	6.0	74	34	36	YZD-155.65	15.5	16	115	65	45	
YZD-062.34	6.2				YZD-158.65	15.8					
YZD-065.34	6.5				YZD-160.65	16.0					
YZD-068.34	6.8				YZD-165.73	16.5					
YZD-070.34	7.0				YZD-168.73	16.8					
YZD-075.41	7.5				YZD-170.73	17.0					
YZD-078.41	7.8	79	37	36	YZD-175.73	17.5	18	123	68	50	
YZD-080.41	8.0				YZD-178.73	17.8					
YZD-082.47	8.2				YZD-180.73	18.0					
YZD-085.47	8.5				YZD-185.79	18.5					
YZD-088.47	8.8				YZD-190.79	19.0					
YZD-090.47	9.0				YZD-195.79	19.5					
YZD-095.47	9.5	89	43	40	YZD-198.79	19.8	20	131	75	50	
YZD-100.47	10.0				YZD-200.79	20.0					

型号规格举例: d=5.5,L1=28整体硬质合金麻花钻的型号规格为YZD-055.28

Type spec citing: d=5.5,L1=28 Solid carbide twist drills type spec become YZD-055.28

注: 若需要内冷孔或需要涂层的, 请订购时说明, 并提供被切工件的材料、硬度等相关资料。

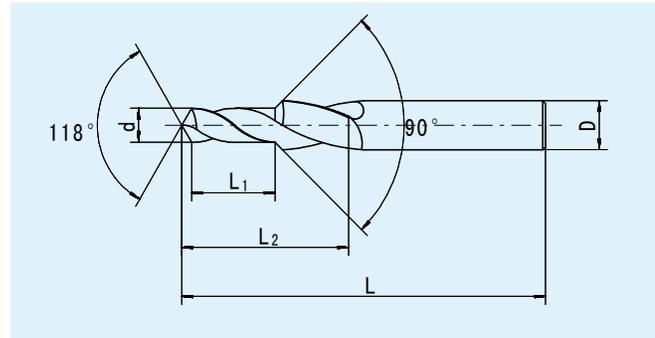
Note: For hole in the cold or in need of coated, please account when order and provide materials of workpiece, hardness and other related information.

整体硬质合金阶梯钻

Solid carbide drills with ladder



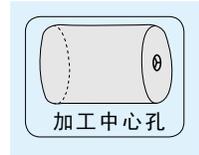
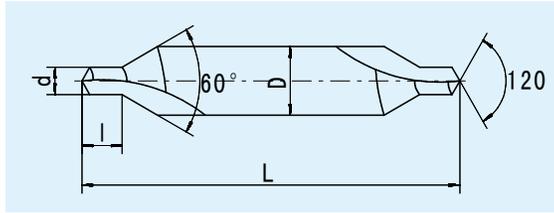
标准螺纹底孔钻+倒角用硬质合金钻头 Tap borer + chamfer ladder solid carbide drills



C4

型号规格 Type spec	尺寸 Dimension					螺纹规格 Screw thread spec
	d	D	L	L ₂	L ₁	
YJZ 034-M4	3.40	6	66	28	11.4	M4
YJZ 043-M5	4.30				13.6	M5
YJZ 050-M6	5.00	8	79	41	16.5	M6
YJZ 069-M8	6.90	10	89	47	21.0	M8
YJZ 087-M10	8.70	12	102	55	25.5	M10
YJZ 1040-M12	10.40	14	107	60	30.0	M12
YJZ 1225-M14	12.25	16	115	65	34.5	M14
YJZ 1425-M16	14.25	18	123	73	38.5	M16
YJZ 070-M8×1	7.00	10	89	47	21.0	M8×1
YJZ 090-M10×1	9.00	12	102	55	25.5	M10×1
YJZ 1050-M12×1.5	10.50	14	107	60	30.0	M12×1.5
YJZ 1250-M14×1.5	12.50	16	115	65	34.5	M14×1.5
YJZ 1450-M16×1.5	14.50	18	123	73	38.5	M16×1.5

型号规格举例：M6粗牙螺纹攻丝前用整体硬质合金阶梯钻的型号规格为YJZ050-M6
 Type spec citing: M6 coarse teeth before tap screw former carbide ladder drills type spec become YJZ050-M6



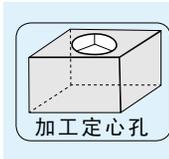
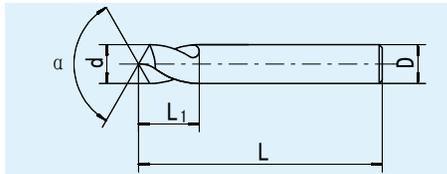
型号规格 Type spec	尺寸 Dimension				型号规格 Type spec	尺寸 Dimension			
	d	D	L	l		d	D	L	l
YZX-A1	1.00	3.15	40	1.6	YZX-A3.15	3.15	8.00	50	4.1
YZX-A1.25	1.25			1.8	YZX-A4	4.00	10.00	60	5.2
YZX-A1.6	1.60	4.00		2.4	YZX-A5	5.00	12.50	70	6.5
YZX-A2	2.00	5.00		2.8	YZX-A6.3	6.30	16.00	70	8.2
YZX-A2.5	2.50	6.30	50	3.4	YZX-A8	8.00	20.00	80	10.5

型号规格举例: A型,d=2.5整体硬质合金中心钻的型号规格为YZX-A2.5注: 如需B型, 即带120°保护锥, 请订货时另外说明。
Type spec citing: type A,d=2.5, Solid carbide center drills type spec become YZX-A2.5

C5

整体硬质合金定心钻

Solid carbide start drill

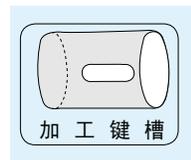
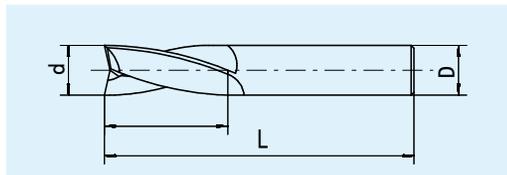


型号规格 Type spec		尺寸 Dimension			
$\alpha=90^\circ$	$\alpha=120^\circ$	d	D	L	L ₁
YDZ 05.10-90	YDZ 05.10-120	5.00	5.00	62	10
YDZ 06.15-90	YDZ 06.15-120	6.00	6.00	66	15
YDZ 08.17-90	YDZ 08.17-120	8.00	8.00	79	17
YDZ 10.20-90	YDZ 10.20-120	10.00	10.00	89	20
YDZ 12.25-90	YDZ 12.25-120	12.00	12.00	102	25
YDZ 14.30-90	YDZ 14.30-120	14.00	14.00	107	30
YDZ 16.35-90	YDZ 16.35-120	16.00	16.00	115	35
YDZ 20.40-90	YDZ 20.40-120	20.00	20.00	131	40

型号规格举例: d=5,L₁=10, $\alpha=90^\circ$ 整体硬质合金定心钻的型号规格为YDZ05.10-90
Type spec citing: d=5,L₁=10, $\alpha=90^\circ$ Solid carbide start drill type spec become YDZ05.10-90

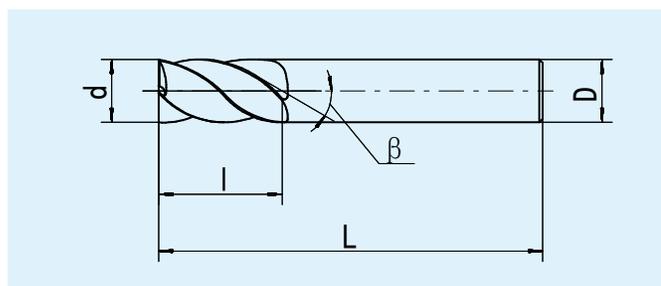
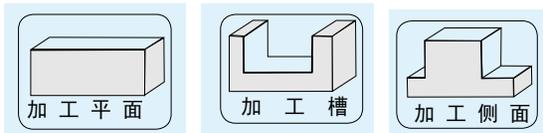
整体硬质合金键槽铣刀

Solid carbide key way milling tools



型号规格 Type spec	尺寸 Dimension				型号规格 Type	尺寸 Dimension			
	d	D	L	l		d	D	L	l
YJX 030.04.2-30	3.00	3	50	4	YJX 100.11.2-30	10.00	10	66	11
YJX 040.05.2-30	4.00	4	54	5	YJX 120.12.2-30	12.00	12	73	12
YJX 050.06.2-30	5.00	5		6	YJX 140.14.2-30	14.00	14	75	14
YJX 060.07.2-30	6.00	6		7	YJX 160.16.2-30	16.00	16	82	16
YJX 070.08.2-30	7.00	7	58	8	YJX 180.18.2-30	18.00	18	84	18
YJX 080.09.2-30	8.00	8		9	YJX 200.20.2-30	20.00	20	92	20

型号规格举例: d=5, l=6, Z=2, 螺旋角30°的整体硬质合金键槽铣刀的型号规格为 YJX 050.06.2-30
Type spec citing: d=5, l=6, Z=2, Solid carbide key way milling tools of helix angle 30° type spec become YJX 050.06.2-30



型号规格 Type spec			尺寸 Dimension		
Z=2	Z=3	Z=4	d=D	l	L
YLX 030.08.2-β	YLX 030.08.3-β	YLX 030.08.4-β	3.0	8	50
YLX 040.11.2-β	YLX 040.11.3-β	YLX 040.11.4-β	4.0	11	
YLX 050.13.2-β	YLX 050.13.3-β	YLX 050.13.4-β	5.0	13	
YLX 060.16.2-β	YLX 060.16.3-β	YLX 060.16.4-β	6.0	16	60
YLX 080.20.2-β	YLX 080.20.3-β	YLX 080.20.4-β	8.0	20	
YLX 100.25.2-β	YLX 100.25.3-β	YLX 100.25.4-β	10.0	25	75
YLX 120.30.2-β	YLX 120.30.3-β	YLX 120.30.4-β	12.0	30	
YLX 140.32.2-β	YLX 140.32.3-β	YLX 140.32.4-β	14.0	32	
YLX 160.45.2-β	YLX 160.45.3-β	YLX 160.45.4-β	16.0	45	100
YLX 180.45.2-β	YLX 180.45.3-β	YLX 180.45.4-β	18.0		
YLX 200.45.2-β	YLX 200.45.3-β	YLX 200.45.4-β	20.0		
YLX 250.45.2-β	YLX 250.45.3-β	YLX 250.45.4-β	25.0		

型号规格举例：d=5，l=13，Z=3，β=30°的硬质合金整体立铣刀的型号规格为YLX 050.13.3-30

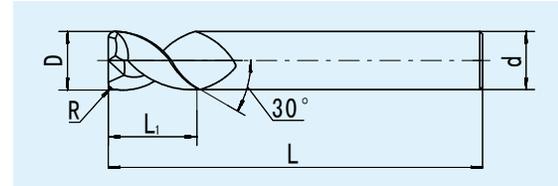
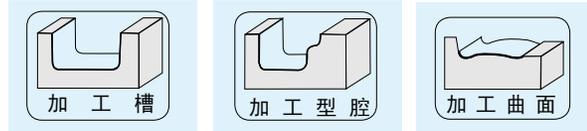
Type spec citing: d=5，l=13，Z=3，β=30° solid carbide end mills type spec become YLX 050.13.3-30

注：若需要涂层，请订购时说明，并提供被切工件的材料、硬度、加工余量等相关资料。

表格中螺旋角β的大小，取决于被切工件的材料。有30°、45°等。

Note: for coating, please account when order and provide material, hardness, allowance and other related information.

Helix angle β in the form of large or small, depending on the workpiece material to be cut. There are 30°, 45°, and so on.



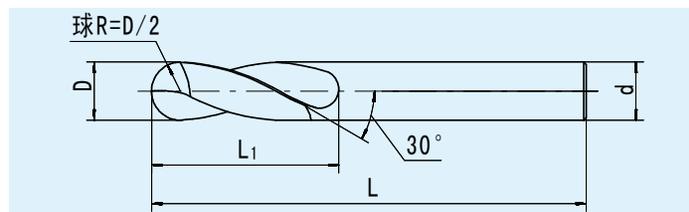
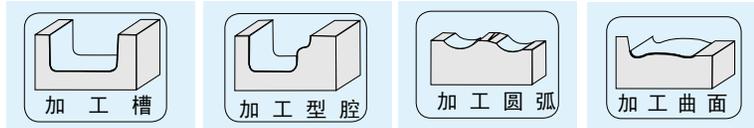
C7

型号规格 Type spec	齿数 Teeth Z	尺寸 Dimension				
		D	R	L ₁	L	d
YYX03.05.2-30(0.5)	2	3.00	0.5	5	52	3
YYX03.05.2-30(1.0)			1.0			
YYX04.06.2-30(0.5)		4.00	0.5	6		4
YYX04.06.2-30(1.0)			1.0			
YYX06.08.2-30(1.0)		6.00	1.0	8		6
YYX06.08.2-30(1.5)			1.5			
YYX08.12.2-30(1.0)		8.00	1.0	12	60	8
YYX08.12.2-30(2.0)			2.0			
YYX10.15.2-30(1.0)		10.00	1.0	15	68	10
YYX10.15.2-30(1.5)			1.5			
YYX10.15.2-30(2.0)			2.0			
YYX12.18.2-30(1.0)		12.00	1.0	18	76	12
YYX12.18.2-30(2.0)			2.0			
YYX12.18.2-30(3.0)			3.0			

型号规格举例: D=6, L₁=8, Z=2, 螺旋角30°, R=1.5的整体硬质合金圆角立铣刀的型号规格为YYX06.08.2-30(1.5)
 Type spec citing: D=6, L₁=8, Z=2, helix angle30°, R=1.5 solid carbide corner radius end mills type spec become YYX06.08.2-30(1.5)

整体硬质合金球头立铣刀

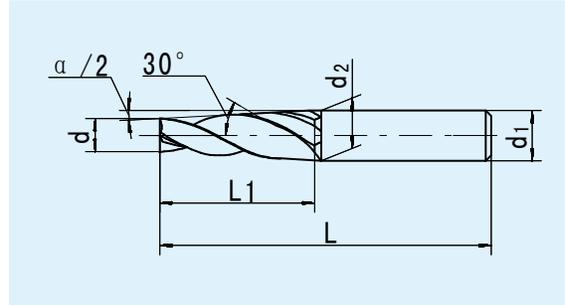
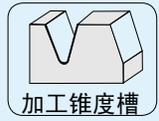
Solid carbide ball head end mills



型号规格 Type spec	尺寸 Dimension				型号规格 Type spec	尺寸 Dimension			
	D	L ₁	L	d		D	L ₁	L	d
Z=2					Z=4				
YQX03-06-2-30	3.0	6	50	3	YQX03-08-4-30	3.0	8	50	3
YQX04-08-2-30	4.0	8		4	YQX04-11-4-30	4.0	11		4
YQX05-09-2-30	5.0	9		5	YQX05-13-4-30	5.0	13		5
YQX06-10-2-30	6.0	10	54	6	YQX06-13-4-30	6.0	13	57	6
YQX08-12-2-30	8.0	12	58	8	YQX08-19-4-30	8.0	19	63	8
YQX10-14-2-30	10.0	14	66	10	YQX10-22-4-30	10.0	22	72	10
YQX12-16-2-30	12.0	16	73	12	YQX12-26-4-30	12.0	26	83	12
YQX14-18-2-30	14.0	18		14	YQX14-26-4-30	14.0			14
YQX16-22-2-30	16.0	22		16	YQX16-32-4-30	16.0			32
YQX20-26-2-30	20.0	26	92	20	YQX20-38-4-30	20.0	38	104	20

整体硬质合金圆锥形立铣刀

Solid carbide taper end mills



C8

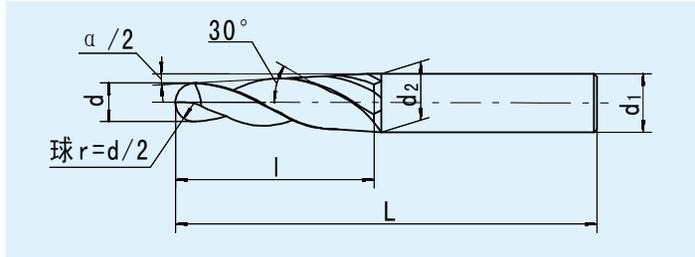
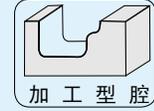
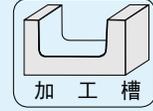
型号规格 Type spec	尺寸 Dimension										
	d	d ₂					L ₁				
		α/2 (°)					α/2 (°)				
		1.5	2	3	5	7	1.5	2	3	5	7
YYLX 02.1.3-30(α/2)	2	3.05	3.40	4.10	5.50	8.10	20	20	20	20	25
YYLX 03.1.3-30(α/2)	3	4.31	4.75	5.62	8.00	11.30	25	25	25	28	34
YYLX 04.1.3-30(α/2)	4	5.57	6.00	8.00	10.00	13.80	30	28	38	34	40
YYLX 05.1.3-30(α/2)	5	6.83	8.00	10.00	12.00	14.80	35	40	48	40	
YYLX 06.1.3-30(α/2)	6	7.83	9.14	12.00	14.00	17.00		45	45	50	45
YYLX 08.1.4-30(α/2)	8	10.36	11.14	14.00	16.00	19.00	55			55	
YYLX 10.1.4-30(α/2)	10	12.88	13.84	16.00	18.00	22.00		60	60		60
YYLX 12.1.4-30(α/2)	12	15.14	15.84	18.00	20.00	24.00	60			60	

型号规格 Type spec	尺寸 Dimension										齿数Teech Z	
	L					d ₁						
	α/2 (°)					α/2 (°)						
	1.5	2	3	5	7	1.5	2	3	5	7		
YYLX 02.1.3-30(α/2)	75	75	75	75	80	6	6	6	6	9	3	
YYLX 03.1.3-30(α/2)			100	100	6			6	8	12		
YYLX 04.1.3-30(α/2)			100	100	8			10	14			
YYLX 05.1.3-30(α/2)	100	100	100	100	125	8	8	10	12	15		
YYLX 06.1.3-30(α/2)							10	12	14	17		
YYLX 08.1.4-30(α/2)	125	125	125	125	130	12	12	14	16	19		4
YYLX 10.1.4-30(α/2)							14	14	16	18	22	
YYLX 12.1.4-30(α/2)							16	16	18	20	24	

型号规格举例: d=5, α/2=3° L1=48, Z=3, 螺旋角30°的整体硬质合金圆锥形立铣刀的型号规格为: YYLX05.48.3-30 (3)

Type spec citing: d = 5, α / 2 = 3 ° L1 = 48, Z = 3, helix angle 30 ° Solid carbide taper end mills

type spec become YYLX05.48.3-30 (3)



C9

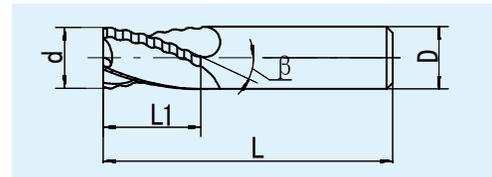
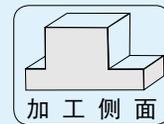
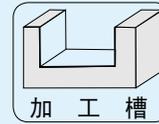
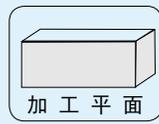
型号规格 Type spec	尺寸 Dimension						
	$\alpha/2$	d	d_2	l	L	$d_1 (h_0)$	Z
YYQX020-08-2-30(1.5)	1.5°	2	2.37	8	40	4	2
YYQX025-10-2-30(1.5)		2.5	2.96	10	45		
YYQX050-37-3-30(1.5)		5	6.83	37.5	100	8	3
YYQX060-38-3-30(1.5)		6	7.83	38			
YYQX080-49-4-30(1.5)		8	10.36	49			
YYQX100-60-4-30(1.5)		10	12.88	60	125	12	4
YYQX120-66-4-30(1.5)		12	15.14	66		14	
						16	

型号规格举例: $d=2.5, l=10, Z=2$, 螺旋角 $30^\circ, \alpha/2$ 为 1.5° 整体硬质合金圆锥形球头立铣刀的型号规格为YYQX025-10-2-30(1.5)

Type spec citing: $d=2.5, l=10, Z=2$, Helical angle $30^\circ, \alpha/2$ become 1.5° Solid carbide taper ball head end mills type spec become YYQX025-10-2-30(1.5)

整体硬质合金波形刃立铣刀

Solid carbide shallow curve end mills



型号规格 Type spec	齿数 Teech Z	尺寸 Dimension			
		D	L_1	L	d
YBX050.13.3- β	3	6	13	57	5.0
YBX060.13.3- β	3				6.0
YBX080.16.3- β	3	8	16	63	8.00
YBX100.22.4- β	4	10	22	72	10.0
YBX120.26.4- β	4	12			12.0
YBX140.26.4- β	4	14	26	83	14.0
YBX160.32.4- β	4	16			16.0
YBX180.32.4- β	4	18	32	92	18.0
YBX200.38.4- β	4	20	38	104	20.0

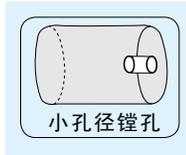
表中 β 为螺旋角(Helical angle) $20^\circ, 30^\circ, 45^\circ$

型号规格举例: $d=5, L_1=13, Z=3$, 螺旋角 30° 的整体硬质合金波形刃立铣刀的型号规格为YBX050.13.3-30

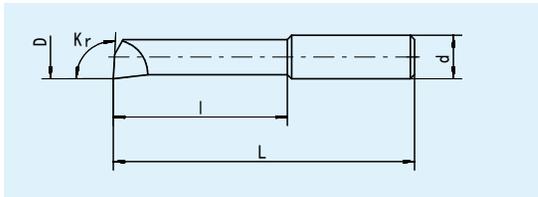
Type spec citing: $d=5, L_1=13, Z=3$, Helical angle 30° Solid carbide shallow curve end mills type YBX050.13.3-30

整体硬质合金小孔径镗刀

Solid carbide small aperture boring cutter



主偏角 $K\gamma$ 45°、60°、75°、93°



型号规格 Type spec	尺寸 Dimension			
	D	d	L	l
YTD 02.15-K _γ	2	6	50	15
YTD 03.20-K _γ	3		55	20
YTD 04.20-K _γ	4		65	30
YTD 05.30-K _γ	5	8	70	35
YTD 06.35-K _γ	6		75	40
YTD 08.40-K _γ	8	10	80	45
YTD 10.45-K _γ	10	10	80	45
YTD 12.50-K _γ	12	12	85	50
YTD 14.50-K _γ	14	14	85	50
YTD 16.55-K _γ	16	16	90	55

型号规格举例: D=5, l=30, K_γ=93°

Type spec citing: D=5, l=30, K_γ=93°

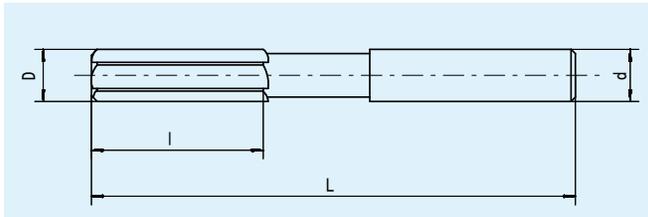
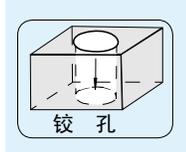
整体硬质合金小孔径镗刀的型号规格为 YTD05.30-93

Solid carbide small aperture boring cutter type spec become YTD05.30-93

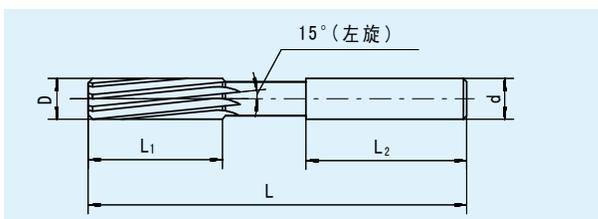
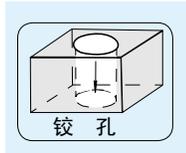
C10

整体硬质合金直柄铰刀

Solid carbide straight shank reaming



型号规格 Type spec	齿数 Teech Z	尺寸 Dimension		
		D=d	L	l
YJD-□-△ 注: □-铰刀直径 △-铰孔精度	4	2.0~2.9	40	15
		3.0~3.9	50	20
	6	4.0~6.0	60	25
		6.1~8.0	70	30
		8.1~12	80	35



型号规格 Type spec	齿数 Teech Z	尺寸 Dimension					
		D	d	L	L ₁	L ₂	
YJDL-□-△ 注: □-铰刀直径 △-铰孔精度	4	4.0	4.0	75	19	32	
		4.5	5.0	80	21	33	
		5.0		86	23	34	
	6	5.5	6.0	93	26	36	
		6.0		101	28	38	
		6.5		109	31	40	
		7.0	8.0	117	33	42	
		8.0		125	36	44	
		9.0	10.0	133	38	46	
		10.0		142	41		
		11.0		151	44		
		12.0	12.0	160	47	50	
		13.0		162	50		
		8	14.0	14.0	170	52	52
			15.0		175	54	
			16.0	18.0	182	56	
17.0	189		58				
18.0	20.0		195	60			

1. 整体硬质合金钻头 Solid Carbide Drills

刀具名称型号 Tool Name Model	被加工材料及硬度 Machining material and/or rigidity	切削速度 Cutting Speed V (m/min)	每转进给量 f (mm/r)
整体硬质合金直槽钻 YZCZ Solid Carbide Straight flute Drills	铸铁Cast-iron HB≤240~350	80~120	0.04~0.50
	铝合金,铜 Aluminum Alloy, Copper	240~280	0.16~0.63
整体硬质合金三刃钻YSRZ Solid Carbide Drills With Three Edge	不锈钢Stain-less Steel HB≤250	35~45	0.04~0.20
	铝及铝合金Aluminum ,Aluminum Alloy HB≤120	120~180	0.125~0.500
	钛及钛合金Ti, Ti Alloys HB≤250~300	25~35	0.04~0.16
整体硬质合金麻花钻 YZD Solid Carbide Twist Drills	钢Steel HB150~350	70~100	0.063~0.400
	铸铁Cast-iron HB≤240	8~120	0.10~0.50
整体硬质合金阶梯钻 YJZ Solid carbide drills with ladder	钢Steel HB150~350	70~100	0.063~0.400
	铸铁Cast-iron HB≤240	75~90	0.10~0.50
整体硬质合金中心钻YZX Solid Carbide Center Drills	钢, 铸铁 Steel, Cast-iron	8~12	0.01~0.08
整体硬质合金定心钻YDZ Solid carbide start drill	钢,铸铁Steel, Cast-iron	60~90	0.063~0.250

2. 整体硬质合金铣刀 Solid Carbide Mills

铣刀名称及型号 Milling Model Name	被加工材料及硬度 Machining material and/or rigidity	切削速度 V(m/min)	每齿进给量 f _z (mm/z)	切削深度 a _p (mm)	切削宽度 a _w (mm)
整体硬质合金键槽铣刀YJX Solid Carbide key way milling tools	钢Steel HB180~280	70~105	0.01~0.066	0.4~0.6D	≤D
	铸铁Cast-iron HB180~220	100~120	0.01~0.066		
整体硬质合金立铣刀、圆角立铣刀、圆锥形立铣刀 YLX、YYX、YYLX Solid Carbide End Mills、corner radius end millstaper end mills	钢Steel HB180~280	15~40	铣槽 0.01~0.10 铣侧面0.03~0.30	铣槽≤D 铣侧面≤1.5D	铣槽=D 铣侧面≤0.2D
	铸铁Cast-iron HB180~220	20~40	铣槽 0.02~0.15 铣侧面0.06~0.45		
	钢Steel HB180~280	15~35	0.01~0.08		
整体硬质合金球头立铣刀YQX Solid carbide ball head end mills	铸铁Cast-iron HB180~220	20~40	0.02~0.10	≤0.4D	≤D
	钢Steel HB180~280	10~30	0.01~0.08		
整体硬质合金圆锥形球头立铣刀YYQX Solid carbide taper ball head end mills	铸铁Cast-iron HB180~220	15~35	0.02~0.10	≤D	0.4~0.6D
	钢Steel HB180~280	100~80	0.035~0.08		
整体硬质合金波形刃立铣刀YBX Solid carbide shallow curve end mills	铸铁Cast-iron HB180~220	120	0.045~0.09	≤D	0.4~0.6D
	钛合金Ti Alloys	30	0.035~0.07		
	钢Steel HB180~280	100~80	0.035~0.08		

注：表中D为铣刀直径 Attention:"D" Is Diamter

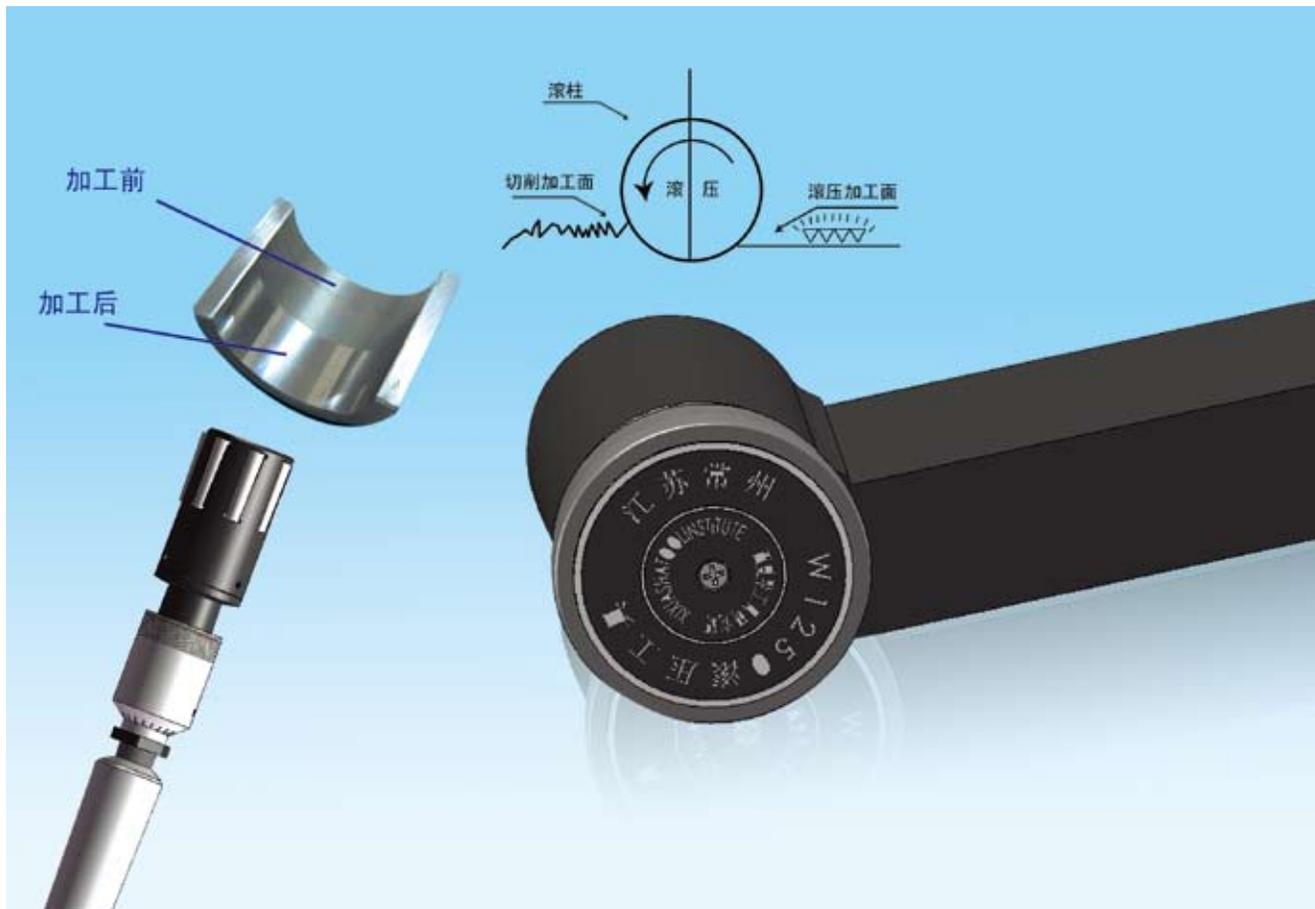
2. 整体硬质合金铣刀 Solid Carbide Mills

刀具名称型号 Tool Name Model	被加工材料及硬度 Machining material and/or rigidity	切削速度 V (m/min)	每转进给量 f (mm/r)	切削深度 a _p (mm)
整体硬质合金小孔径镗刀YTD Solid carbide small aperture boring cutter	钢、铸铁Steel, Castiron HB≤300	30~50	0.05~0.15	镗孔余量 0.05~0.8

4. 整体硬质合金铰刀 Solid Carbide Reamers

刀具名称型号 Tool Name Model	被加工材料及硬度 Machining material and/or rigidity	切削速度 V (m/min)	每转进给量 f (mm/r)	切削深度 a _p (mm)
整体硬质合金直柄铰刀YJD Solid Carbide Straight Shank Reamer	钢Steel HB180~280	6~12	0.04~0.25	铰削余量 0.08~0.12
	铸铁Cast-iron HB≤240~300	30~16	0.05~0.50	
整体硬质合金螺旋槽铰刀YLJD Solid Carbide Spirally fluted reamer	铝合金,铜 Aluminum Alloy, Copper	25~30	0.125~0.630	

	W	GK	MK	ZK
				
页码 Page	D1	D1	D2	D2



该工具主要用于车床上对轴类零件外圆的滚压加工，提高零件的抗疲劳性、耐磨性、耐腐蚀性，降低表面粗糙度，替代磨削工艺，提高生产效率。

其滚压参数（参考）为：

工件线速度 $V=10\sim 25\text{m/min}$

进给量 $f=0.08\sim 0.15\text{mm/r}$

滚压过盈量 $t=0.15\text{mm}$ （单边）

实际压入量 $0.01\sim 0.02\text{mm}$

The tool mostly for the lathe external rolling pressure process of cylindrical shaft parts, improve parts anti-fatigue, resistance wear, corrosion resistance, reduce surface roughness, substitute grinding technology, increasing productivity.

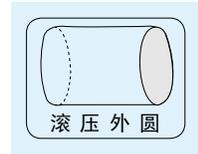
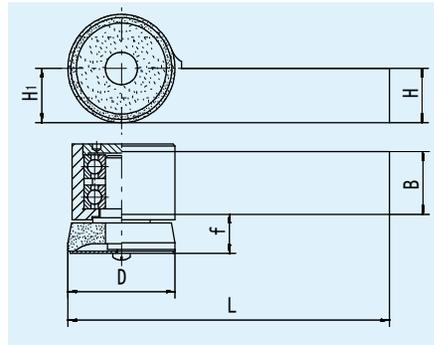
Rolling pressure parameter (for reference):

Workpiece line speed $V = 10 \sim 25\text{m/min}$

Feed-in $f = 0.08 \sim 0.15\text{mm/r}$

Pressure rolling amount of surplus $t = 0.15\text{mm}$ (unilateral)

The actual amount of pressure to $0.01 \sim 0.02\text{mm}$



型号规格 Type spec	尺寸 Dimension				
	H=H ₁	B	D	L	f
W1250	25	30	50	150	13
W1270	30	35	70	190	15

D1

硬质合金双轮深孔滚压工具

Carbide double wheel pressure rolling tool for deep holes

该工具适用于在车床上，对大直径深孔的滚压加工，降低工件表面粗糙度，调节范围大，滚压尺寸稳定可替代磨削，提高生产效率。

其滚压参数（参考）为：

工件线速度 $V=30\sim 40\text{m/min}$

进给量 $f=0.10\sim 0.15\text{mm/r}$

滚压过盈量 $t=0.2\sim 0.3\text{mm}$ （直径）

（原粗糙度 $\geq \text{Ra}3.2$ 和硬度 $\text{HB} > 320$ 时 $t=0.1\text{mm}$ ）

实际压入量 $0.02\sim 0.03\text{mm}$

The tool is applied to lathe for pressure rolling process of large diameter and deep hole, reducing the surface roughness, the regulation scope great, size of pressure rolling may substitute grinding, increasing productivity.

Rolling pressure parameter (for reference):

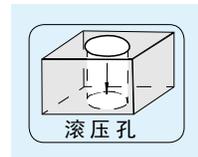
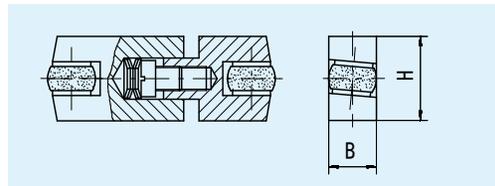
Workpiece line speed $V = 30 \sim 40\text{m/min}$

Feed-in $f = 0.10 \sim 0.15\text{mm/r}$

Pressure rolling amount of surplus = $0.2 \sim 0.3\text{mm}$ (diameter)

($\geq \text{Ra}3.2$ is original roughness and hardness is $\text{HB} > 320$ when $t = 0.1\text{mm}$)

The actual amount of pressure to $0.02 \sim 0.03\text{mm}$



型号规格 Type spec	加工范围 Dmin~Dmax	尺寸 Dimension		型号规格 Type spec	加工范围 Dmin~Dmax	尺寸 Dimension		型号规格 Type spec	加工范围 Dmin~Dmax	尺寸 Dimension	
		H	B			H	B			H	B
GK50	$\geq 50\sim 55$	30	16	GK100	$\geq 100\sim 110$	35	20	GK195	$\geq 195\sim 210$	40	28
GK55	$\geq 55\sim 60$			GK110	$\geq 110\sim 120$			GK210	$\geq 210\sim 225$		
GK60	$\geq 60\sim 65$			GK120	$\geq 120\sim 130$			GK225	$\geq 225\sim 240$		
GK65	$\geq 65\sim 70$			GK130	$\geq 130\sim 140$			GK240	$\geq 240\sim 255$		
GK70	$\geq 70\sim 75$			GK140	$\geq 140\sim 150$			GK255	$\geq 255\sim 270$		
GK75	$\geq 75\sim 80$			GK150	$\geq 150\sim 165$			GK270	$\geq 270\sim 285$		
GK80	$\geq 80\sim 90$	35	20	GK165	$\geq 165\sim 180$	40	28	GK285	$\geq 285\sim 300$		
GK85	$\geq 85\sim 95$			GK180	$\geq 180\sim 195$						
GK90	$\geq 90\sim 100$										

脉冲滚压工具

Pulsating pressure rolling tool



脉冲滚压工具主要用于有色金属零件的内孔滚压，其材料硬度 \leq HRC40，表面粗糙度可比原来降低2~3级，尺寸精度稳定，效率高，适用于大批量生产。

其滚压参数（参考）为：

工件线速度 $V=40\sim 50\text{m/min}$

进给量 $f=0.3\sim 0.8\text{mm/r}$

滚压过盈量 $t=0.02\sim 0.03\text{mm}$ （直径）

实际压入量0.01mm左右

Pulsating pressure rolling tool for non-ferrous metal parts inside the hole pressure rolling, the hardness of the material \leq HRC40, surface roughness lower than the original 2 to 3 class, precision stability of dimension, high efficiency, applicable to mass production.

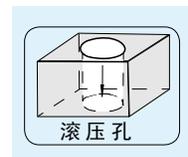
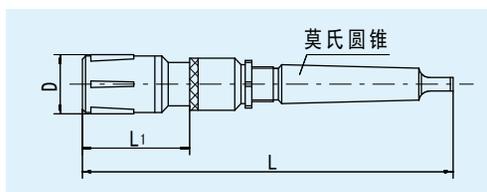
Rolling pressure parameter (for reference):

Workpiece line speed $V = 40 \sim 50\text{m/min}$

Feed-in $f = 0.3 \sim 0.8\text{mm/r}$

Pressure rolling amount of surplus = 0.02 ~ 0.03mm (diameter)

The actual amount of pressure to around 0.01mm



型号规格 Type spec	滚压孔径分级范围 Dmin~Dmax	莫氏圆锥号 Morse taper no	尺寸 Dimension		滚针 Needle	
			L	L ₁	尺寸 Dimension	数量 Amount
MK-□ (□-滚压孔径)	$\geq 18\sim 25$	M3	222	120	$\Phi 4\times 30$	6
	$\geq 25\sim 32$					8
	$\geq 32\sim 38$					10
	$\geq 38\sim 45$	M4	262	145	$\Phi 5\times 40$	12
	$\geq 45\sim 50$					

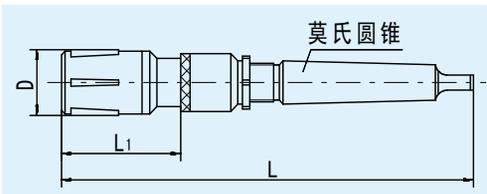
D2

锥滚柱滚压工具

Taper roller pressure rolling tool

该工具适用于小孔径零件的滚压加工，根据孔径不同可进行调节，范围达0.8mm，滚压后的表面粗糙度可比原来降低2~3级，尺寸稳定，广泛用于钢件、铸件内孔的滚压加工。

The tool is applicable the pressure rolling process of small aperture parts, according to the different size can be adjusted, an area 0.8mm, after the rolling surface roughness lower than the original 2 to 3 class, the size of stable, widely used pieces of steel, castings in pressure rolling the hole.

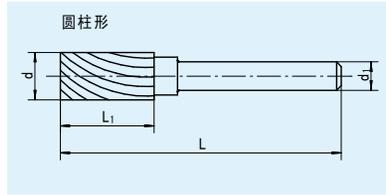


型号规格 Type spec	滚压孔径分级范围 Dmin~Dmax	莫氏圆锥号 Morse taper no	尺寸 Dimension		滚柱 Roller		滚压参数（参考） Pressure rolling parameters (for reference)	
			L	L ₁	尺寸 Dimension	数量	转速r/min	进给量mm/r
ZK-□ (□-滚压孔径)	$\geq 16\sim 28$	M2	220	60	ZK-□-11	5	500~800	0.2~0.5
	$\geq 28\sim 36$	70		400~600			0.3~0.8	
	$\geq 36\sim 40$	100	300~500	0.4~1.0				
	$\geq 40\sim 65$	M4	295	165			ZK-□-09	7

	A-M0640 	AE-M0640 	C-M0640 	D-M0640 	E-M0640 
页码 Page	E1	E1	E1	E1	E1
	F-M0640 	G-M0640 	H-M0640 	J-M0640 	K-M0640 
页码 Page	E1	E2	E2	E2	E2
	L-M0640 	M-M0640 	N-M0640 		
页码 Page	E2	E2	E2		

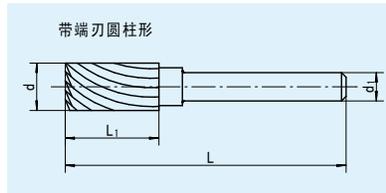


圆柱形 Cylindrical



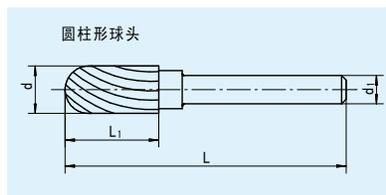
型号规格 Type spec	尺寸 Dimension			
	L	L ₁	d	d ₁
A0616M0640	56	16	6	6
A0820M0640	60	20	8	
A1020M0640			10	
A1225M0640			65	

带端刃圆柱形 Cylindrical with end edge



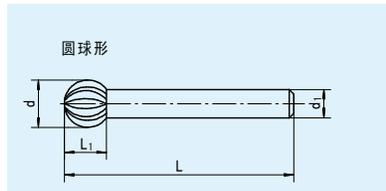
型号规格 Type spec	尺寸 Dimension			
	L	L ₁	d	d ₁
AE0616M0640	56	16	6	6
AE0820M0640	60	20	8	
AE1020M0640			10	
AE1225M0640			65	

圆柱形球头 Cylindrical ball head nose



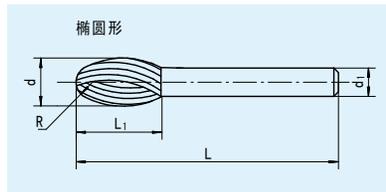
型号规格 Type spec	尺寸 Dimension			
	L	L ₁	d	d ₁
C0616M0640	56	16	6	6
C0820M0640	60	20	8	
C1020M0640			10	
C1225M0640			65	

圆球形 Spherical



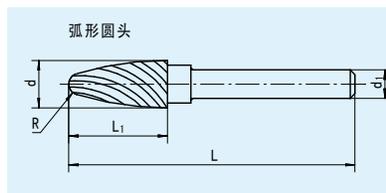
型号规格 Type spec	尺寸 Dimension			
	L	L ₁	d	d ₁
D0605M0640	45.4	5.4	6	6
D0807M0640	47.2	7.2	8	
D1009M0640	49	9.0	10	
D1210M0640	50.8	10.8	12	

椭圆形 Oval



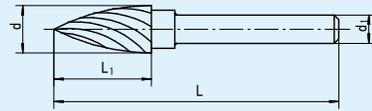
型号规格 Type spec	尺寸 Dimension				
	L	L ₁	d	d ₁	R
E0610M0640	50	10	6	6	2
E0813M0640	53	13	8		3
E1016M0640	56	16	10		3.5
E1220M0640	60	20	12		4.2

弧形圆头 Arch ball nose



型号规格 Type spec	尺寸 Dimension				
	L	L ₁	d	d ₁	R
F0618M0640	58	18	6	6	1.2
F1020M0640	60	20	10		2.5
F1225M0640	65	25	12		3

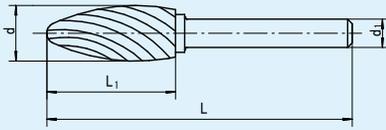
弧形尖头



弧形尖头 Arch pointed nose

型号规格 Type spec	尺寸 Dimension			
	L	L ₁	d	d ₁
G0618M0640	58	18	6	6
G1020M0640	60	20	10	
G1225M0640	65	25	12	

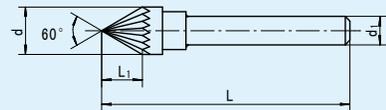
火炬形



火炬形 Torch

型号规格 Type spec	尺寸 Dimension			
	L	L ₁	d	d ₁
H0618M0640	58	18	6	6
H0820M0640	60	20	8	
H1025M0640	65	25	10	
H1232M0640	72	32	12	

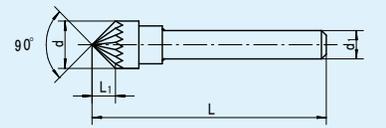
60°圆锥形



60°圆锥形 60°Conical

型号规格 Type spec	尺寸 Dimension			
	L	L ₁	d	d ₁
J0605M0640	49	5.2	6	6
J1008M0640	53	8.7	10	
J1210M0640	55	10.4	12	

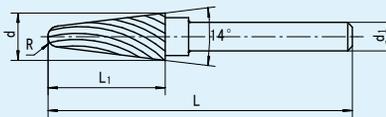
90°圆锥形



90°圆锥形 90° Conical

型号规格 Type spec	尺寸 Dimension			
	L	L ₁	d	d ₁
K0603M0640	50	3	6	6
K1005M0640		5	10	
K1206M0640		6	12	

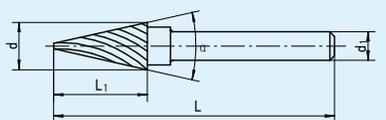
锥形圆头



锥形圆头 Conical ball nose

型号规格 Type spec	尺寸 Dimension				
	L	L ₁	d	d ₁	R
L0616M0640	56	16	6	6	1.2
L0822M0640	62	22	8		1.4
L1025M0640	65	25	10		2.2
L1228M0640	68	28	12		3

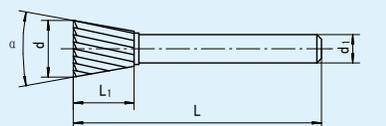
锥形尖头



锥形尖头 Conical pointed nose

型号规格 Type spec	尺寸 Dimension				
	L	L ₁	d	d ₁	α
M0618M0640	58	18	6	6	14°
M1020M0640	60	20	10		25°
M1225M0640	65	25	12		

倒锥形



倒锥形 Inverted conical

型号规格 Type spec	尺寸 Dimension				
	L	L ₁	d	d ₁	α
N0607M0640	47	7	6	6	10°
N1213M0640	53	13	12		20°
					30°

■ 产品预览

Product overview

■ 普通机床附件.....F1-F10

Commonly machine tools accessories

■ TSG工具系统F11-F21

TSG tooling system



一. 普通机床附件 Commonly machine tools accessories

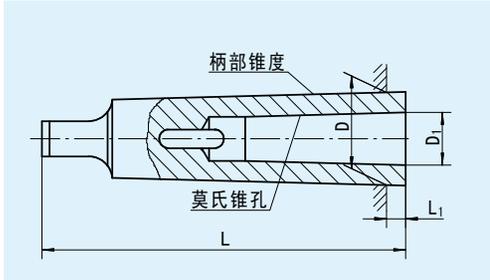
	MT 	MTA 	XZG 	XT-MW 	XT-MWA 
页码 Page	G1	G1	G1	G2	G2
	XT-M 	XT-MA 	XZA 	XT-XD- I 	XT-XD- II 
页码 Page	G2	G2	G3	G3	G3
	T-XD 	XD 	CA-B 	XT-XP 	KJ 
页码 Page	G4	G4	G5	G5	G6
	DJ 	DJB 	ZY 	T-KH 	XT-KH 
页码 Page	G6	G6	G7	G9,G10	G9,G10

二. TSG工具系统 TSG tooling system

	LDA 	LDB 	LD-BT 	A 	
页码 Page	G11	G11	G12	G13	
	JT/BT-XD- I 	JT/BT-XD- II 	JT/BT-XP 	JT/BT-Z 	JT/BT-QER 
页码 Page	G16	G16	G16	G17	G17
	JT/BT-XS 	JT/BT-MW 	JT/BT-M 	JT/BT-G 	GT 
页码 Page	G18	G18	G19	G19	G19
	JT/BT-QJ 	ZC 	BT-JDT-ER 		
页码 Page	G20	G20	G21		

带扁尾莫氏圆锥中间套

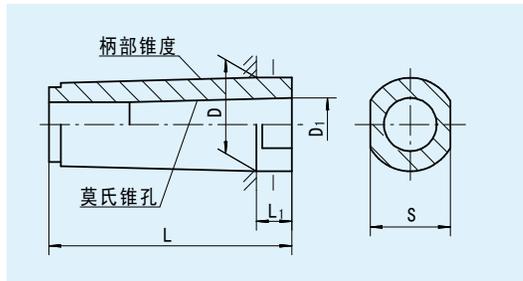
The morse taper middle sheath of have flat cauda



型号规格 Type spec	柄部 锥度 Petiole taper	莫氏 锥孔 Morse taper hole	尺寸 Dimension			
			D	D ₁	L	L ₁
MT2-1	M2	M1	17.780	12.065	92	17
MT3-1	M3		23.825		99	5
MT3-2				17.780	112	18
MT4-1	M4	M1	31.267	12.065	124	6.5
MT4-2		M2		17.780		
MT4-3		M3		23.825	140	22.5
MT5-2	M5	M2	44.399	17.780	156	6.5
MT5-3		M3		23.825		
MT5-4		M4		31.267	171	21.5
MT6-4	M6	M5	63.348	44.399	218	8
MT6-5						

无扁尾莫氏圆锥中间套

The morse taper middle sheath of without flat cauda

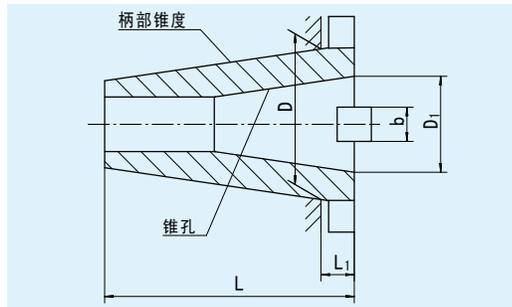


型号规格 Type spec	柄部 锥度 Petiole taper	莫氏 锥孔 Morse taper hole	尺寸 Dimension				
			D	D ₁	L	L ₁	S
MTA3-2	M3	M2	23.825	17.780	82	12	22
MTA4-2	M4		31.267				
MTA4-3				23.825	98	13	
MTA5-3	M5	M3	44.399				41
MTA5-4							
MTA6-4	M6	M4	63.348	31.267	124	13	55
MTA6-5		M5					

F1

7:24 圆锥过渡套

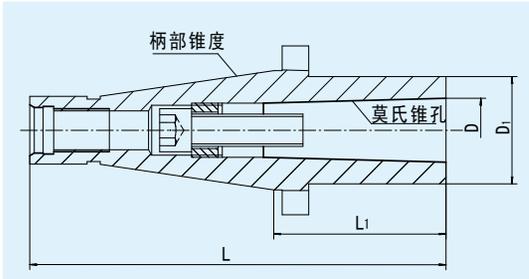
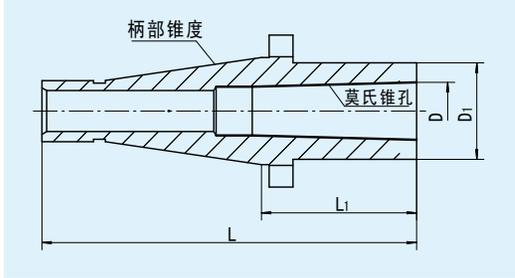
7:24 Taper interim sheath



型号规格 Type spec	柄部 锥度 Petiole taper	锥孔 Taper hole	尺寸 Dimension					键块 Key piece	螺钉 Screw	扳手 Wrench
			D	D ₁	L	L ₁	b			
XZG40MW2	XT40	MW2	44.45	17.780	110	16.6	—	—	—	—
XZG40MW3	XT40	MW3		23.825						
XZG 5040	XT50	XT40	69.85	44.450	117	15.2	15.8	XZG5040-2	M6×16	S5
XZG 6050	XT60	XT50	107.95	69.850	181	19.21	25.4	XZG6050-2	M12×25	S10

7:24圆锥/无扁尾莫氏圆锥中间套

7:24 Taper / The morse taper middle sheath of without flat cauda



型号规格 Type spec	柄部锥度 Petiole taper	莫氏锥孔 Morse taper hole	尺寸 Dimension			
			D	D ₁	L	L ₁
XT40-MW2-50	XT40	MW2	17.780	32	143	50
XT40-MW3-65		MW3	23.825	40	158	65
XT40-MW4-95		MW4	31.267	48	188	95
XT50-MW2-60	XT50	MW2	17.780	32	187	60
XT50-MW3-65		MW3	23.825	40	192	65
XT50-MW4-85		MW4	31.267	48	212	85
XT50-MW5-120	XT60	MW5	44.399	63	247	120
XT60-MW5-120		70		327		
XT60-MW6-160		MW6	63.348	85	367	160

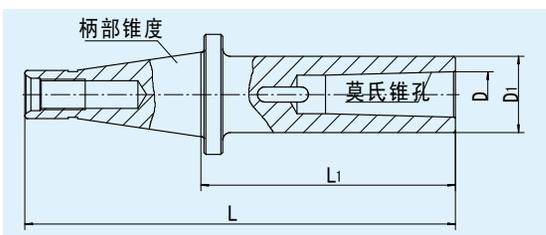
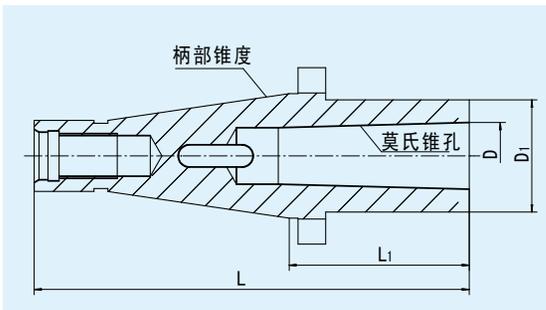
7:24圆锥/无扁尾带连接螺钉莫氏圆锥中间套

7:24 Taper / The morse taper middle sheath of without flat cauda and have link screw

型号规格 Type Spec	柄部锥度 Petiole taper	莫氏锥孔 Morse taper hole	尺寸 Dimension			
			D	D ₁	L	L ₁
XT50-MWA2-60	XT50	MW2	17.780	32	187	60
XT50-MWA3-65		MW3	23.825	40	192	65
XT50-MWA4-85		MW4	31.267	48	212	85
XT50-MWA5-120	XT60	MW5	44.399	63	247	120
XT60-MWA5-120		70		327	120	
XT60-MWA6-160		MW6	63.348	85	367	160

7:24圆锥/带扁尾莫氏圆锥中间套

7:24 Taper / The morse taper middle sheath of have flat cauda



型号规格 Type spec	柄部锥度 Petiole taper	莫氏锥孔 Morse taper hole	尺寸 Dimension			
			D	D ₁	L	L ₁
XT40-M2-50	XT40	M2	17.780	32	143	50
XT40-M3-65		M3	23.825	40	158	65
XT40-M4-95		M4	31.267	48	188	95
XT50-M2-60	XT50	M2	17.780	32	187	60
XT50-M3-65		M3	23.825	40	192	65
XT50-M4-85		M4	31.267	48	212	85
XT50-M5-120	XT60	M5	44.399	63	247	120
XT60-M5-120		70		327	120	
XT60-M6-160		M6	63.348	85	367	160

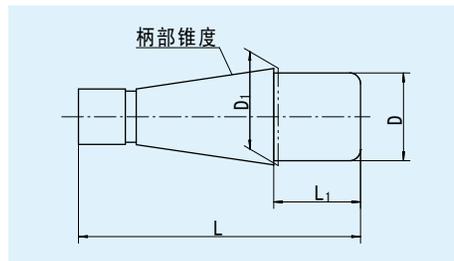
7:24圆锥/加长带扁尾莫氏圆锥中间套

7:24 Taper / The morse taper middle sheath of lengthen and have flat cauda

型号规格 Type spec	柄部锥度 Petiole taper	莫氏锥孔 Morse taper hole	尺寸 Dimension			
			D	D ₁	L	L ₁
XT40-MA2-120	XT40	M2	17.780	32	213	120
XT40-MA3-135		M3	23.825	40	228	135
XT40-MA4-165		M4	31.267	48	258	165
XT50-MA2-135	XT50	M2	17.780	32	262	135
XT50-MA3-150		M3	23.825	40	277	150
XT50-MA4-180		M4	31.267	48	307	180
XT50-MA5-190		M5	44.399	63	317	190

端面铣刀定位心轴

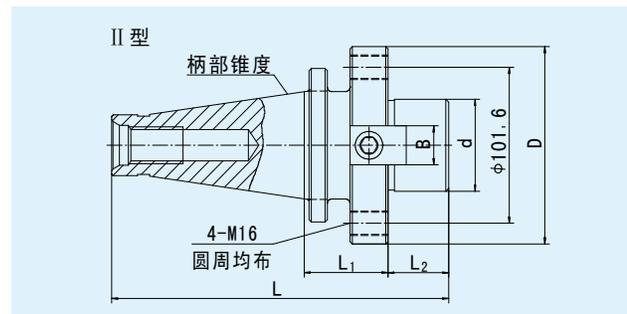
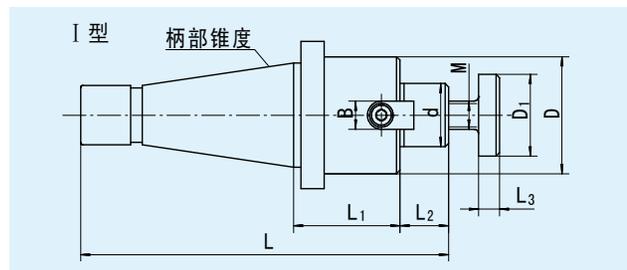
Locating mandrel for end face mills tools



型号规格 Type spec	柄部锥度 Petiole taper	尺寸 Dimension			
		D	D ₁	L	L ₁
XZA 4040	XT40	40	44.45	133	40
XZA 5060	XT50	60	69.85	174	48
XZA 6060	XT60		107.95	257	

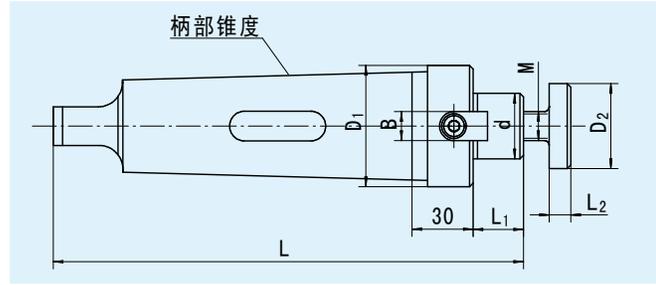
铣床装刀心轴

Mandrel of install cutter for milling machine



F3

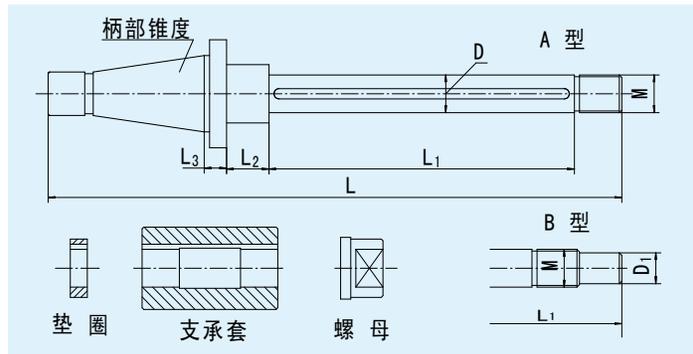
型号规格 Type spec	柄部锥度 Petiole taper	尺寸 Dimension									型式 Mode	键块 Key piece	压紧螺钉 Screw	扳手 Wrench
		d	L	D	L ₁	B	D ₁	L ₂	L ₃	M				
XT40-XD22-37	XT40	22	149	40	37	10	28	19	9	M10	I	XD22-2	XD22-1	S5,S6
XT40-XD27-37		27	151	48		12	33	21	10	M12		XD27-2	XD27-1	
XT40-XD32-52		32	169	58	52	14	42	24	12	M16		XD32-2	XD32-1	S5,S8
XT40-XD40-52		40	172	70		16	52	27	16	M20		XD40-2	XD40-1	S5,S10
XT50-XD27-55	XT50	27	203	48	55	12	33	21	10	M12	I	XD27-2	XD27-1	S5,S6
XT50-XD32-55		32	206	58		14	42	24	12	M16		XD32-2	XD32-1	S5,S8
XT50-XD40-55		40	209	70		16	52	27	16	M20		XD40-2	XD40-1	S5,S10
XT50-XD50-55		50	212	90		18	63	30	—	M24		XD50-2	XD50-1	S5,S12
XT50-XD60-55		60	222	128.57	25.4	—	40	—	—	II	XD60-1	—	S10	
XT60-XD27-60	XT60	27	287	48	60	12	33	21	10	M12	I	XD27-2	XD27-1	S5,S6
XT60-XD32-60		32	290	58		14	42	24	12	M16		XD32-2	XD32-1	S5,S8
XT60-XD40-60		40	293	70		16	52	27	16	M20		XD40-2	XD40-1	S5,S10
XT60-XD50-60		50	296	90		18	63	30	—	M24		XD50-2	XD50-1	S5,S12
XT60-XD60-60		60	306.8	128.57		25.4	—	40	—	—		II	XD60-1	—



型号规格 Type spec	柄部 锥度 Petiole taper	尺寸 Dimension								键块 Key piece	压紧螺钉 Screw	扳手 Wrench
		d	L	D ₁	L ₁	B	D ₂	L ₂	M			
T5-XD22-30	M5	22	198.5	40	19	10	28	9	M10	XD22-2	XD22-1	S5,S6
T5-XD27-30		27	200.5	48	21	12	33	10	M12	XD27-2	XD27-1	
T5-XD32-30		32	203.5	58	24	14	42	12	M16	XD32-2	XD32-1	S5,S8
T5-XD40-30		40	206.5	70	27	16	52	16	M20	XD40-2	XD40-1	S5,S10
T5-XD50-30		50	209.5	90	30	18	63		M24	XD50-2	XD50-1	S5,S12
T6-XD22-30	M6	22	259	40	19	10	28	9	M10	XD22-2	XD22-1	S5,S6
T6-XD27-30		27	261	48	21	12	33	10	M12	XD27-2	XD27-1	
T6-XD32-30		32	264	58	24	14	42	12	M16	XD32-2	XD32-1	S5,S8
T6-XD40-30		40	267	70	27	16	52	16	M20	XD40-2	XD40-1	S5,S10
T6-XD50-30		50	270	90	30	18	63		M24	XD50-2	XD50-1	S5,S12
T80-XD27-30	公制80	27	271	48	21	12	33	10	M12	XD27-2	XD27-1	S5,S6
T80-XD32-30		32	274	58	24	14	42	12	M16	XD32-2	XD32-1	S5,S8
T80-XD40-30		40	277	70	27	16	52	16	M20	XD40-2	XD40-1	S5,S10
T80-XD50-30		50	280	90	30	18	63		M24	XD50-2	XD50-1	S5,S12

铣床长刀杆

Long cutter pole for milling machine



型号规格 Type spec	型式 System	柄部 锥度 Petiole taper	尺寸 Dimension							垫圈 Clamp ring	支承套 Supporting sheath	螺母 Nut	
			D	L	L ₁	L ₂	L ₃	D ₁	M				
XD4016	A	XT40	16	379	250	2	11.6	—	M16×1.5	XDT16-□□	XDZT1642	XDLM16×1.5	
XD4022	B		22	503	315	30		16	M22×1.5	XDT22-□□	XDZT2256	XDLM22×1.5	
XD4027			27	514				20	M24×1.5	XDT27-□□	XDZT2756	XDLM24×1.5	
XD4032	A		32	488	—	M27×2.0		XDT32-□□	XDZT3256	XDLM27×2.0			
XD5022	B	XT50	22	550	315	30	15.2	18	M22×1.5	XDT22-□□	XDZT2260	XDLM22×1.5	
XD5027			27	554				M24×1.5	XDT27-□□	XDZT2760	XDLM24×1.5		
XD5032	A		32	840	630			800	—	M27×2.0	XDT32-□□	XDZT3260	XDLM27×2.0
XD5040			40	1017	—				M33×2.0	XDT40-□□	XDZT4070	XDLM33×2.0	
XD5050	A	50	1026	—	M39×3.0	XDT50-□□	XDZT5070	XDLM39×3.0					

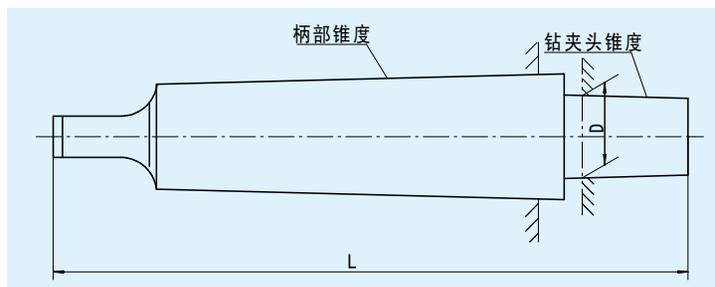
注: 1. 订购时请说明是否需要配件 Speak for time, please account whether demand spare part

2. 表中 □□ 为垫圈厚度, 备有5、10、15、20、30、60、100(D≥32)等规格, 可成套供应

Table inside □□ is shim ring thickness, stock 5、10、15、20、30、60、100(D≥32) and so on spec, can set serve

钻夹头接柄

Drill chuck link handl

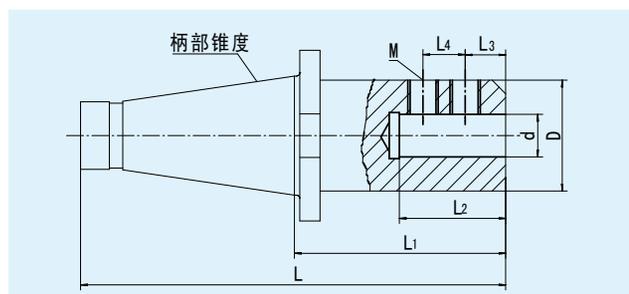


型号规格 Type spec	柄部锥度 Petiole taper	钻夹头锥度 Taper of drill chuck	尺寸 Dimension		配用钻夹头 Drilling chuck	
			L	D ₂	钻夹头型号 Drilling chuck mode	夹持范围 Clamp area
CA3-B10	M3	B10	117	10.094	J0106	0.5~6
CA3-B12		B12	121	12.065	J0110	1~10
CA3-B16		B16	128	15.733	J0113	1~13
CA3-B18		B18	136	17.780	J0116	3~16
CA4-B10	M4	B10	142	10.094	J0106	0.5~6
CA4-B12		B12	146	12.065	J0110	1~10
CA4-B16		B16	153	15.733	J0113	1~13
CA4-B18		B18	161	17.780	J0116	3~16
CA5-B10	M5	B10	174	10.094	J0106	0.5~6
CA5-B12		B12	178	12.065	J0110	1~10
CA5-B16		B16	185	15.733	J0113	1~13
CA5-B18		B18	193	17.780	J0116	3~16

削平型直柄刀具夹头

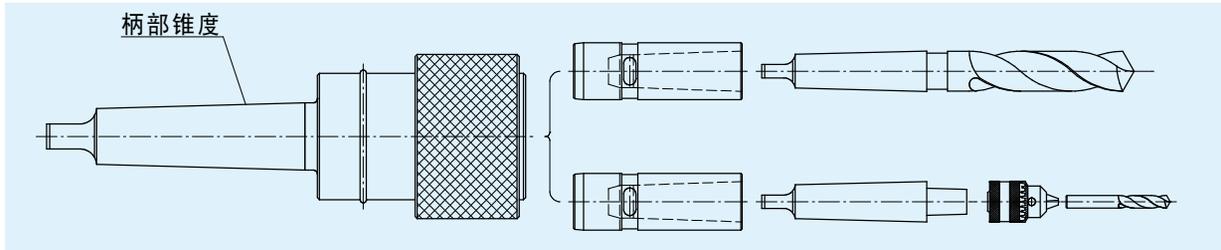
Tools chuck for cutter of cut flat and straight handle mode

F5

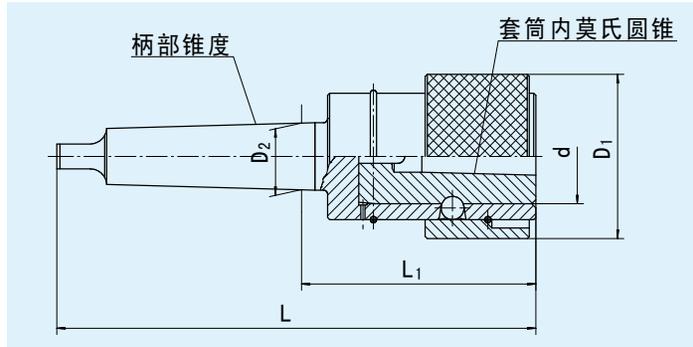


型号规格 Type spec	柄部锥度 Petiole taper	尺寸 Dimension								紧定螺钉 Screw	扳手 Wrench
		d	L	D	L1	L2	L3	L4	M		
XT40-XP12-50	XT40	12	143	42	50	44	22.5	-	M12	M12×16	S6
XT40-XP16-63		16	156	48	63	47	24		-	M14	
XT40-XP20-63		20		52		49	25			25	M16
XT40-XP25-80		25	65	80	54	24	25	M18	M18×20		
XT40-XP32-80		32	72		58			28	M20		M20×20
XT50-XP12-63		XT50	12	190	42	63	44	22.5	-	M12	M12×15
XT50-XP16-63	16		48		47		24	-		M14	M14×16
XT50-XP20-63	20		52		49		25			25	M16
XT50-XP25-80	25		65	80	54	24	25	M18	M18×20		
XT50-XP32-80	32		72		58			28	M20		M20×20
XT50-XP40-90	40		217	90	90	68	30	32		M20×24	

快换夹头配置图 The configuration map for quick exchange collet



快换夹头 Quick exchange collet



型号规格 Type spec	柄部 锥度 Petiole taper	尺寸 Dimension					套筒内莫氏圆锥号 Sleeve inside morse taper No
		d	D ₁	D ₂	L	L ₁	
KJ 225	M2	25	46	17.780	160	85	M1、M2
KJ 335	M3	35	60	23.825	190	96	M1、M2、M3
KJ 445	M4	45	78	31.267	230	112	M2、M3、M4
KJ 560	M5	60	100	44.399	285	135	M3、M4、M5

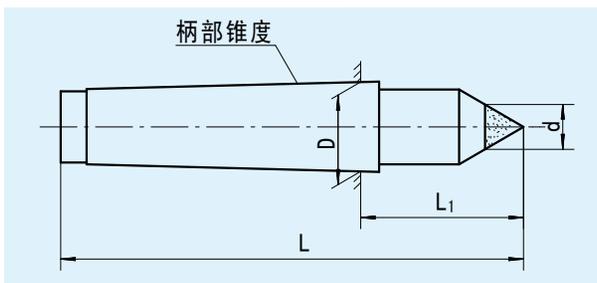
F6

硬质合金顶尖

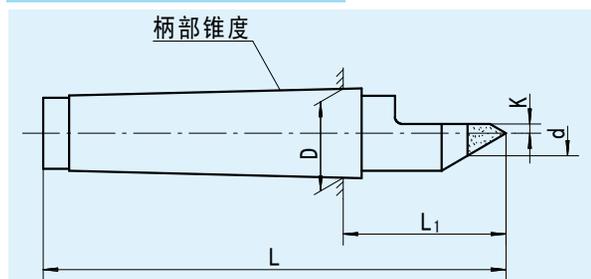
Carbide finial



全顶尖 Entirely finial



半顶尖 Half finial



型号规格 Type spec		柄部锥度 Petiole taper	尺寸 Dimension				
全顶尖	半顶尖		D	d	L	L ₁	K
DJ-2	DJB-2	MW2	17.780	8	100	36	1.5
DJ-3	DJB-3	MW3	23.825	12	125	44.5	2.5
DJ-4	DJB-4	MW4	31.267	15	160	57.3	3.2
DJ-5	DJB-5	MW5	44.399	18	200	70.3	5.5
DJ-6	DJB-6	MW6	63.348	36	280	98.9	7

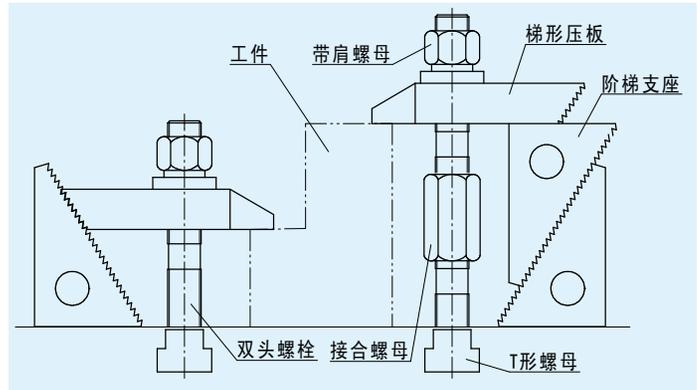
组合压板

Assembled clamp piece



组合压板适用于各类金切机床的工件夹紧，其夹紧力大，安全可靠，便于定置管理，并可作为各类机床的附件配套。

Assembled clamp piece applicable to all type of metal machine tools workpiece clamp, the clamp force great, safe reliable, easy management, and machine tools of various types for annex to the kit.



成套组合压板 Assembled clamp piece of kit

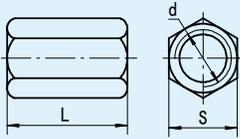
型号规格 Type spec	适用机床工作台 Apply the workbench of machine tools		每套配置零件及数量 Each set collocate part and/or amount						合计件数 Total number
	米制 Metric	英/美制 Imperial/American	接合螺母 Nut	带肩螺母 Nut	T形螺母 T-Nut	双头螺栓 Screw	梯形压板 Trapezia clamp piece	阶梯支座 Ladder sustain seat	
ZY 42	12	1/2"	4	4	4	2×6=12	2×3=6	4×3=12	42
ZY 58	14	5/8"		6	6	4×6=24			58
ZY 36	18	3/4"		4	4	2×6=12	2×2=4	4×2=8	36

组合压板零件

The parts of assembled clamp piece

接合螺母 Nut

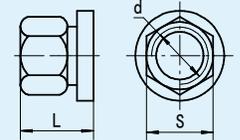
接合螺母



型号规格 Type spec	尺寸 Dimension									每套配置数量 Each set collocate amount
	d			S			L			
	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	
ZY 42-01	M10	3/8"-16		17	11/16"		24	15/16"		4
ZY 58-01	M12	1/2"-12	1/2"-13	19	7/8"		32	1-1/4"		
ZY 36-01	M16	5/8"-11		24	1-1/16"		40	1-9/16"		

带肩螺母 Nut

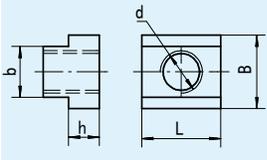
带肩螺母



型号规格 Type spec	尺寸 Dimension									每套配置数量 Each set collocate amount
	d			S			L			
	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	
ZY 42-02	M10	3/8"-16		17	11/16"		14	1/2"		4
ZY 58-02	M12	1/2"-12	1/2"-13	19	3/4"	7/8"	20	1-1/8"		6
ZY 36-02	M16	5/8"-11		24	1-1/16"		22	3/4"		4

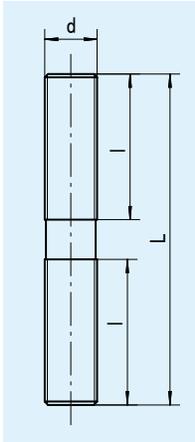
T形螺母 T-Nut

T形螺母



型号规格 Type spec	尺寸 Dimension									每套配置数量 Each set collocate amount
	d			b		B		h		
	米制 Metric	英制 Imperial	美制 American	米制 Metric	英/美制 Imperial/ American	米制 Metric	英/美制 Imperial/ American	米制 Metric	英/美制 Imperial/ American	
ZY 42-03	M10	3/8"-16		12	1/2"	18	7/8"	6	9/32"	4
ZY 58-03	M12	1/2"-12	1/2"-13	14	5/8"	22	1"	8	11/32"	6
ZY 36-03	M16	5/8"-11		18	3/4"	26	1-1/4"	11	7/16"	4

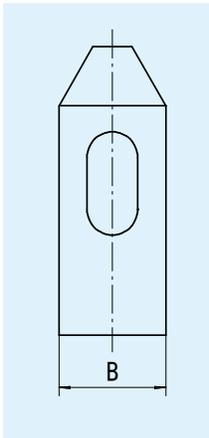
双头螺柱 Dicephalous bolt



型号规格 Type spec	尺寸 Dimension									每套配置 数量 Each set collocate amount
	d			L			l			
	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	
ZY 42-04	M10	3/8"-16		76	3"		32	1-1/8"		2
ZY 42-05				102	4"			1-1/4"		
ZY 42-06				127	5"					
ZY 42-07				152	6"					
ZY 42-08				178	7"					
ZY 42-09				203	8"					
ZY 58-04	M12	1/2"-12 1/2"-13		76	3"		38	1-1/8"		4
ZY 58-05				102	4"			1-1/2"		
ZY 58-06				127	5"					
ZY 58-07				152	6"					
ZY 58-08				178	7"					
ZY 58-09				203	8"					
ZY 36-04	M16	5/8"-11		76	3"		45	1-1/8"		2
ZY 36-05				102	4"			1-3/4"		
ZY 36-06				127	5"					
ZY 36-07				152	6"					
ZY 36-08				178	7"					
ZY 36-09				203	8"					

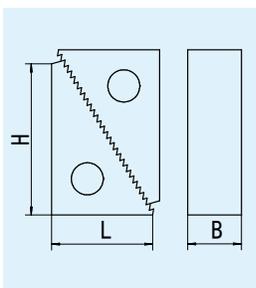
梯形压板 Trapezia clamp piece

F8



型号规格 Type spec	尺寸 Dimension									每套配置 数量 Each set collocate amount
	L			B			H			
	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	
ZY 42-010	63.5	2-1/2"		25.4	1"		12.7	1/2"		2
ZY 42-011	101.6	4"					15.87	5/8"		
ZY 42-012	152.4	6"		28.5	1-1/8"		19	3/4"		
ZY 58-010	63.5	2-1/2"					12.7	1/2"		
ZY 58-011	101.6	4"		32	1-1/4"		19	3/4"		
ZY 58-012	152.4	6"					22.23	7/8"		
ZY 36-010	101.6	4"		38.1	1-1/2"		19	3/4"		
ZY 36-011	152.4	6"					22.23	7/8"		

阶梯支座 Ladder sustain seat



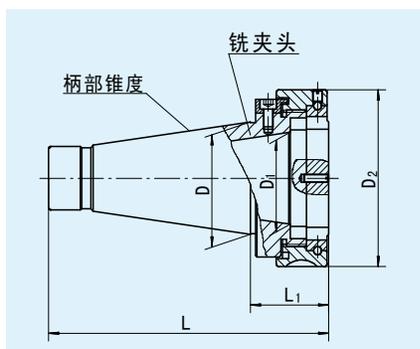
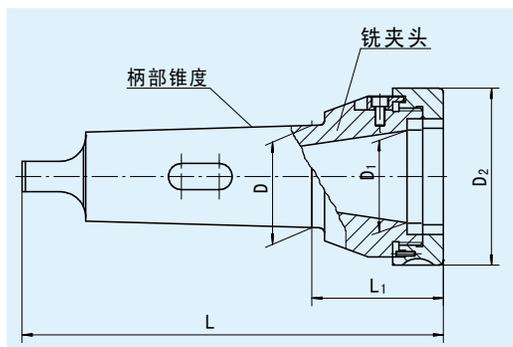
型号规格 Type spec	尺寸 Dimension									每套配置 数量 Each set collocate amount
	L			H			B			
	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	米制 Metric	英制 Imperial	美制 American	
ZY 42-013	18.5	3/4"		27.65	1-1/16"		25	1"		4
ZY 42-014	27	1-1/16"		39.89	1-9/16"					
ZY 42-015	63	2-1/2"		96.25	3-13/16"					
ZY 58-013	18.5	3/4"		27.65	1-1/16"					
ZY 58-014	27	1-1/16"		39.89	1-9/16"					
ZY 58-015	63	2-1/2"		96.25	3-13/16"					
ZY 36-012	50.8	2"		77.46	3-1/16"		27	1-1/16"		
ZY 36-013	76.2	3"		115.03	4-9/16"					

成套铣夹头

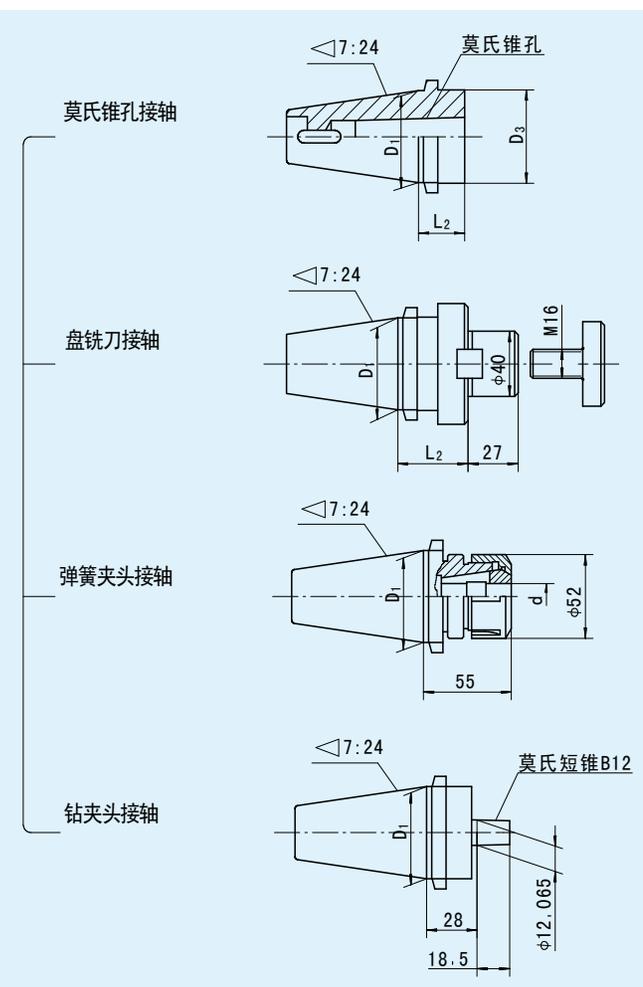
Milling chuck Set



配套示意图



成套铣夹头 Milling chuck set



F9

型号规格 Type spec	每套配置零件及数量 Each set collocate parts and/or amount				
	铣夹头 Milling chuck	莫氏锥柄接轴M2/MW2, M3/MW3, M4/MW4 Morse taper link axes M2/MW2, M3/MW3, M4/MW4	盘铣刀接轴 Discal milling tools link axes	弹簧夹头接轴 d=3,4,5,6,8,10,12,16,20 Spring chuck link axes d=3,4,5,6,8,10,12,16,20	钻夹头接轴 Drill chuck link axes
T6—KH45	1	3	1	9	1
T80—KH45					
XT50—KH45					
XT60—KH50					

铣夹头 Milling chuck

型号 Type	柄部锥度 Petiole taper	尺寸 Dimension				
		L	L ₁	D	D ₁	D ₂
T6—KH45—01	T6	298	88	63.348	57.15	110
T80—KH45—01	T80	303	83	80		
XT50—KH45—01	XT50	177	50	69.85		
XT60—KH50—01	XT60	259	52.2	107.95	69.85	160

莫氏锥孔接轴 Morse taper link axes

型号 Type	莫氏锥孔 Morse taper hole	尺寸 Dimension				
		L ₂			D ₁	D ₃
		M2/MW2	M3/MW3	M4/MW4		
T6—KH45—02	M2/MW2 M3/MW3 M4/MW4	25	27	31	57.15	58
T80—KH45—02						
XT50—KH45—02						
XT60—KH50—02		24.2			69.85	70

F10

盘铣刀接轴 Discal milling tools link axes

型号 Type	尺寸 Dimension	
	D ₁	L ₂
T6—KH45—03	57.15	44
T80—KH45—03		
XT50—KH45—03		
XT60—KH50—03	69.85	50

弹簧夹头接轴 Spring chuck link axes

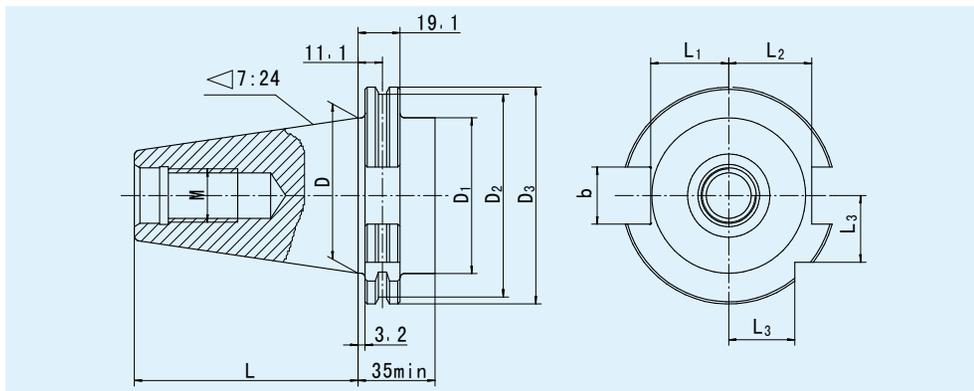
型号 Type	尺寸 Dimension	
	D ₁	d
T6—KH45—04	57.15	3,4,5,6, 8,10,12, 16,20
T80—KH45—04		
XT50—KH45—04		
XT60—KH50—04		

钻夹头接轴 Drill chuck holder link axes

型号 Type	尺寸 Dimension
	D ₁
T6—KH45—05	57.15
T80—KH45—05	
XT50—KH45—05	
XT60—KH50—05	

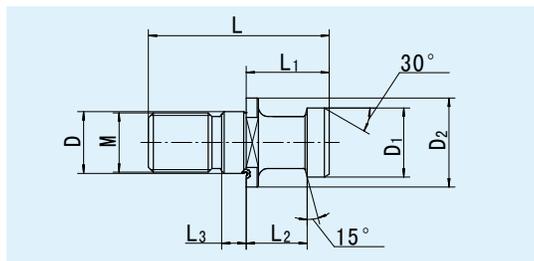
锥柄和拉钉标准型式

Standard type of taper shank and pull stud



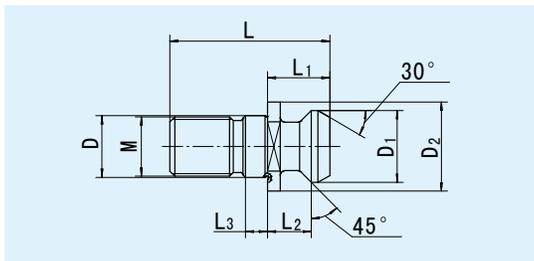
JT型GB10944 (ISO 7388/1-1983与德国 DIN 69871/1-1995等效)
(ISO 7388/1-1983 and Germany DIN 69871/1-1995 equivalent)

柄部型号 Petiole type	D	D ₁	D ₂	D ₃	M	L	L ₁	L ₂	L ₃	b
JT30	31.75	32	39.25	46.05	M12	47.8	16.4	19	15	16.1
JT40	44.45	44.7	56.25	63.55	M16	68.4	22.8	25	18.5	
JT45	57.15	57.4	75.25	82.55	M20	82.7	29.1	31.3	24	19.3
JT50	69.85	70.1	91.25	97.50	M24	101.75	35.5	37.7	30	25.7
JT60	107.95	107.95	147.70	155.0	M30	161.80	54.2	59.3	49	



LDA型 GB10945 (ISO 7388/2) Type LDA GB10945 (ISO 7388/2)

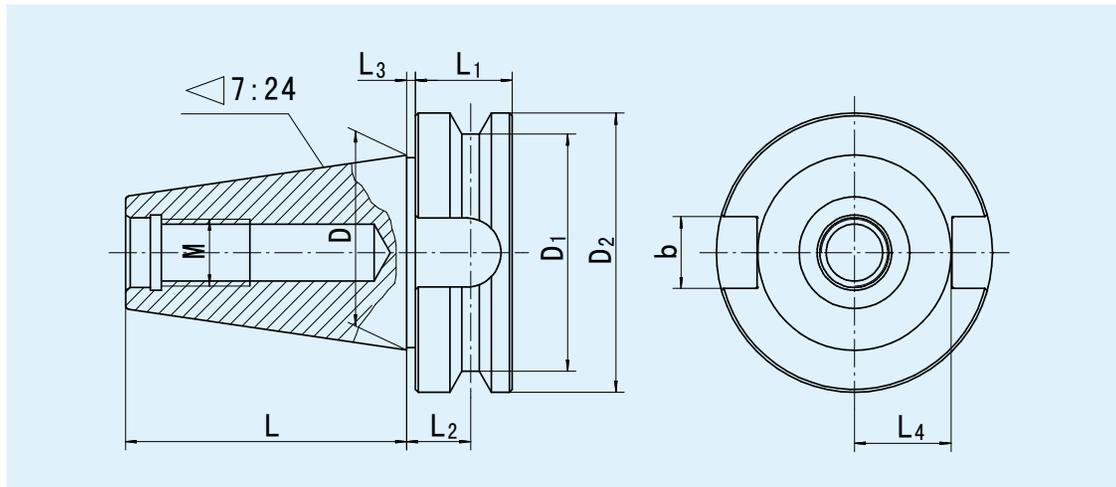
拉钉型号 Pull stud type	M	D	D ₁	D ₂	L	L ₁	L ₂	L ₃
LDA-30	M12	13	12	17	44	24	19	5
LDA-40	M16	17	19	23	54	26	20	7
LDA-45	M20	21	23	30	65	30	23	8
LDA-50	M24	25	28	36	74	34	25	10



LDB型 GB10945 (ISO 7388/2) Type LDB GB10945 (ISO 7388/2)

拉钉型号 Pull stud type	M	D	D ₁	D ₂	L	L ₁	L ₂	L ₃
LDB-30	M12	13	13.30	18	27.0	11.80	8.15	5
LDB-40	M16	17	18.95	23	44.5	16.40	11.15	7
LDB-45	M20	21	24.05	30	56.0	20.95	14.85	8
LDB-50	M24	25	29.10	36	65.5	25.55	17.95	10

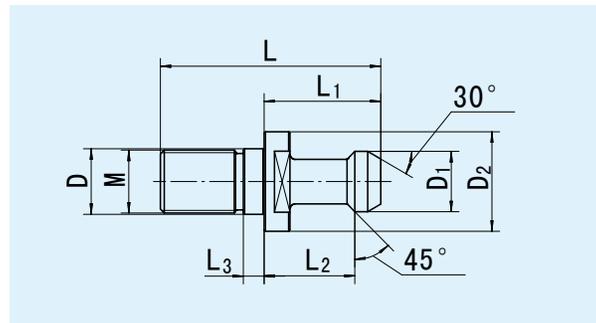
注：若需要内冷却孔，订购时请说明。 Note: If the need for cooling inside the hole, please specify when speak for.



BT型 日本标准 Type BT Japan standard MAS 403

柄部型号 Petiole type	D	D ₁	D ₂	M	L	L ₁	L ₂	L ₃	L ₄	b
BT30	31.75	38	46	M12	48.4	20	13.6	2	16.3	16.1
BT40	44.45	53	63	M16	65.4	25	16.6	1.6	22.5	
BT45	57.15	73	85	M20	82.8	30	21.2	3.2	29	19.3
BT50	69.85	85	100	M24	101.8	35	23.2		35.3	25.7
BT60	107.95	135	155	M30	161.8	45	28.2		60.1	

F12



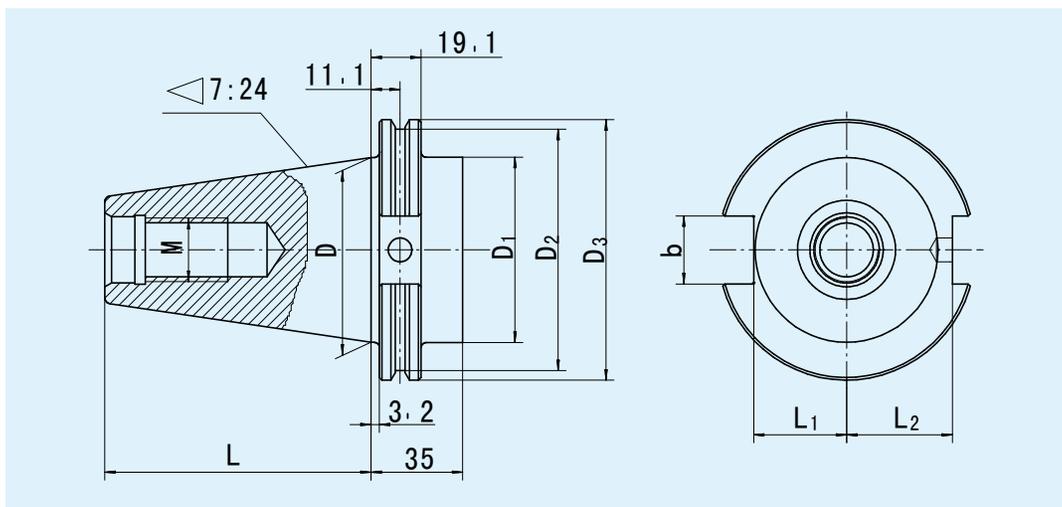
LD-BT型 日本标准 TypeLD-BT Japan standard MAS403

拉钉型号 Pull stud type	M	D	D ₁	D ₂	L	L ₁	L ₂	L ₃
LD-BT30	M12	12.5	11	16.5	43	23	18	4
LD-BT40	M16	17	15	23	60	35	28	5
LD-BT45	M20	21	19	21	70	40	31	6
LD-BT50	M24	25	23	38	85	45	35	8
LD-BT60	M30	31	32	56	115	65	53	10

注：若需要内冷却孔，订购时请说明。 Note: If the need for cooling inside the hole, please specify when speak for.

锥柄和拉钉标准型式

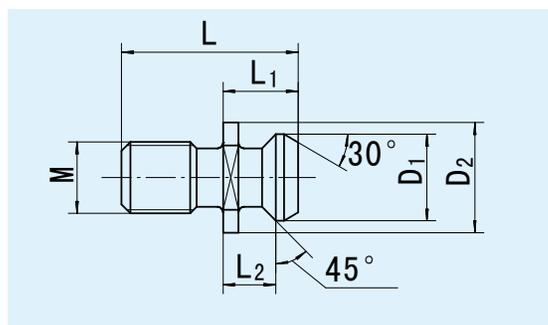
Standard type of taper shank and pull stud



CAT型 美国标准 Type CAT American standard ANSI B5.50CAT

柄部型号 Petiole type	D	D ₁	D ₂	D ₃	M	L	L ₁	L ₂	b
CAT30	31.75	31.75	38.89	46.02	M12	47.63	16.26	18.67	16.38
CAT40	44.45	44.45	56.35	63.55	M16	68.25	22.61	25.02	
CAT45	57.15	57.15	75.25	82.55	M20	82.70	28.96	31.37	19.56
CAT50	69.85	69.85	91.25	98.42	M24	101.75	35.31	37.72	
CAT60	107.95	107.95	132.56	139.70	M30	161.93	54.36	56.80	

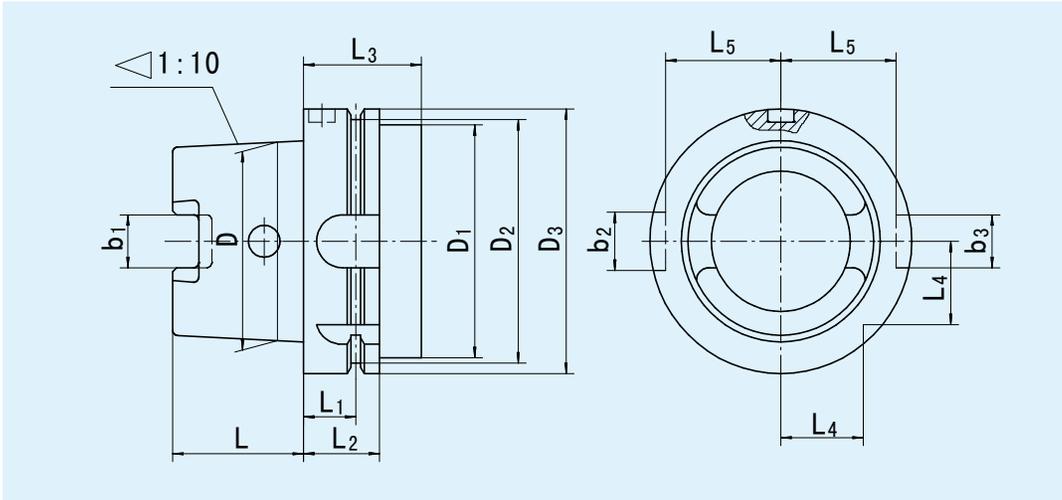
F13



A型 美国标准 Type A American standard ANSI B5.50

拉钉型号 Pull stud type	M	D ₁	D ₂	L	L ₁	L ₂
A30	M12	13.35	16.5	29	11.80	8.15
A40	M16	18.95	22.5	39	16.40	11.15
A45	M20	24.05	30.0	49	20.95	14.85
A50	M24	29.10	37.0	60	25.55	17.95
A60	M30	37.25	50.0	82	38.15	27.65

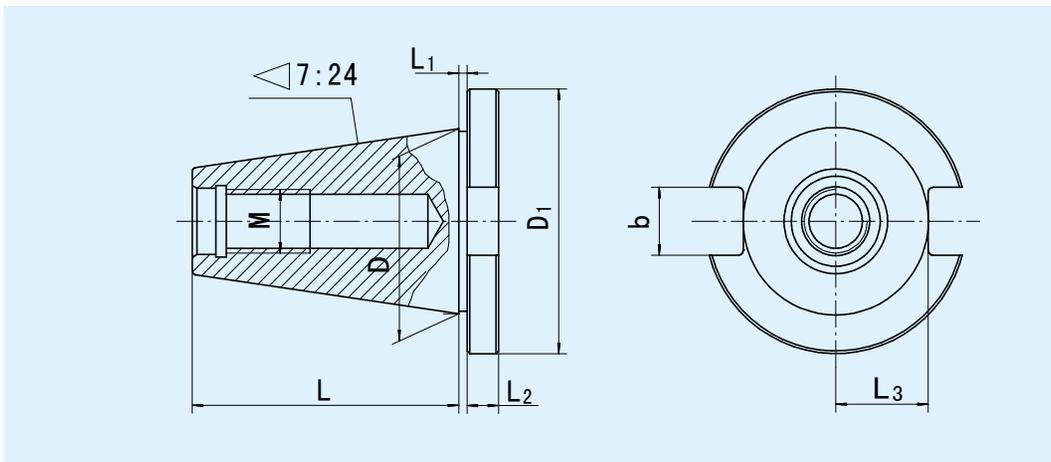
注：若需要内冷却孔，订购时请说明。Note: If the need for cooling inside the hole, please specify when speak for.



ISO/DIS 12164-1

柄部型号 Petiole type	D	D ₁	D ₂	D ₃	L	L ₁	L ₂	L ₃	L ₄	L ₅	b ₁	b ₂	b ₃
HSK 32	24.007	26	26.5	32	16	16	20	35	9.5	13.0	7.05	9	7
HSK 40	30.007	34	34.8	40	20				12.0	17.0	8.05	11	9
HSK 50	38.009	42	43	50	25	18	26	42	15.5	21.0	10.54	14	12
HSK 63	48.010	53	53	63	32				20.0	26.5	12.54	18	16
HSK 80	60.012	68	70	80	40				25.0	34.0	16.04	20	18
HSK100	75.013	88	92	100	50	20	29	45	31.5	44.0	20.02	22	20
HSK125	95.016	111	117	125	63				39.5	55.5	25.02	28	25
HSK160	120.016	144	152	160	80				22	31	47	50	72.0

F14

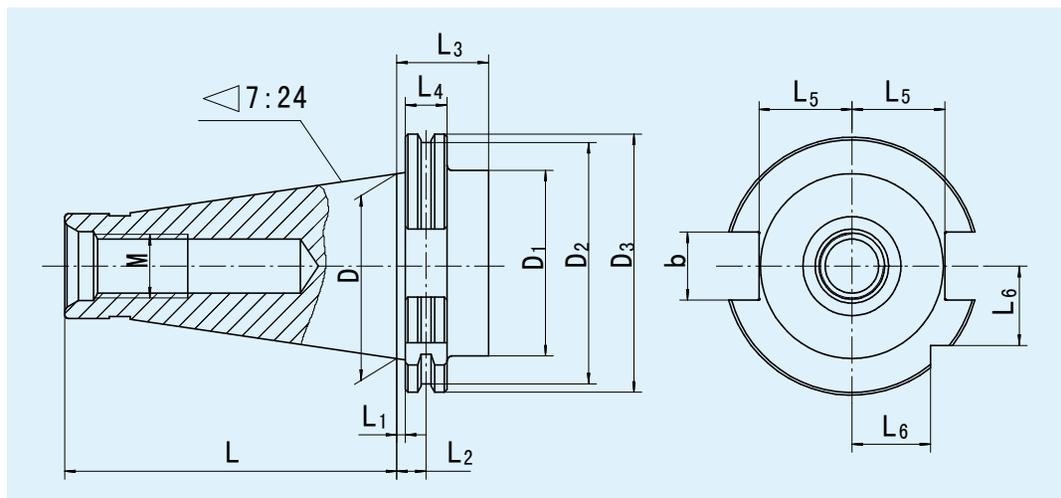


中国标准 GB3837 China standard GB3837

柄部型号 Petiole type	M	D	D ₁	L	L ₁	L ₂	L ₃	b	
ST30	M12	31.75	50	48.4	2.0	8	16.2	16.1	
ST40	M16	44.45	63	65.4	1.6	10	22.5		
ST45	M20	57.15	80	82.8	3.2		12	29.0	19.3
ST50	M24	69.85	100	101.8		16		60.0	25.7
ST60	M30	107.95	160	161.8					

锥柄和拉钉标准型式

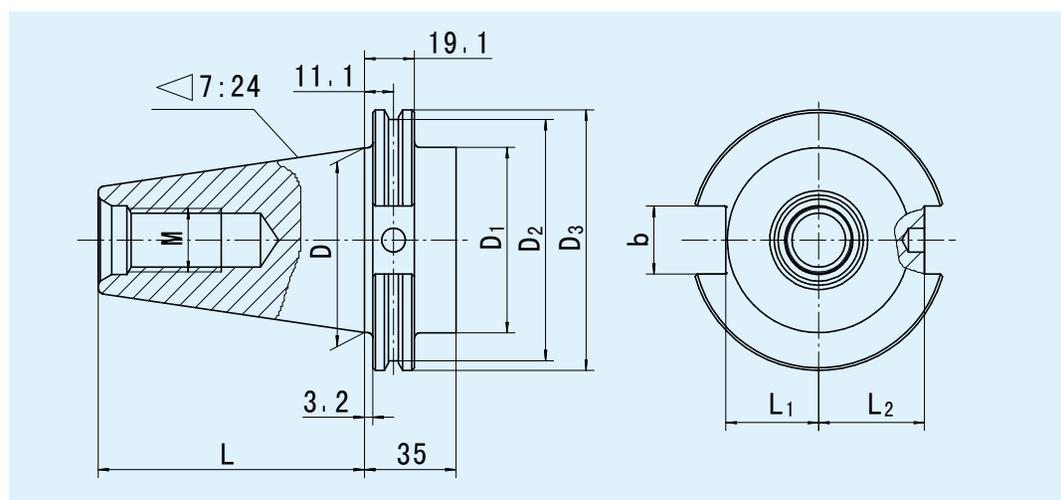
Standard type of taper shank and pull stud



德国标准 Germany standard VDI 2814-A

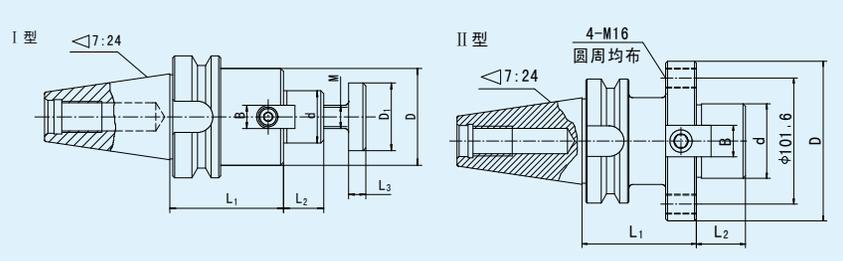
柄部型号 Petiole type	D	D ₁	D ₂	D ₃	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	M	b
JT30WA	31.75	40	43	47	68	1.9	5.6	24	7.7	16.2	15.5	M12	16.1
JT40WA	44.45	50	55	60	93		6.6	30		22.5	18.5	M16	
JT45WA	57.15	63	71	77	106	3.5	9.2	38	11.7	29.0	24.0	M20	19.3
JT50WA	69.85	80	91	97	126					35.3	30.0	M24	25.7

F15



美国标准 American standard ANSI B5.50

柄部型号 Petiole type	M	D	D ₁	D ₂	D ₃	L	L ₁	L ₂	b
JT30U	M12	31.75	32.0	39.25	46.05	47.80	16.4	19.7	16.1
JT40U	M16	44.45	44.7	56.25	63.55	68.40	22.8	26.0	
JT45U	M20	57.15	57.4	75.25	82.55	82.70	29.1	32.5	19.3
JT50U	M24	69.85	70.1	91.25	98.45	101.75	35.5	40.4	25.7
JT60U	M30	107.95	108.2	147.20	155.00	162.10	54.6	59.7	



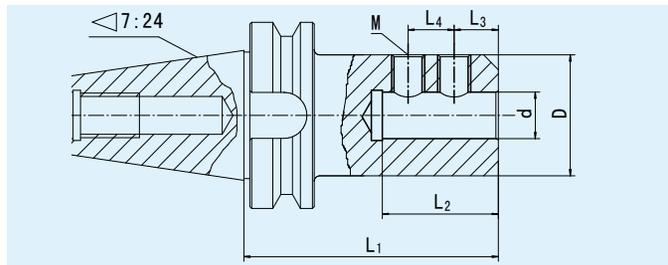
型号规格 Type spec	尺寸 Dimension								型式 System	键块 Key piece	压紧螺钉 Screw	扳手 Wrench	
	d	D	D ₁	L ₁	B	L ₂	L ₃	M					
BT(JT)40-XD22-60	22	40	28	60	10	19	9	M10	I	XD22-2	XD22-1	S5,S6	
BT(JT)40-XD27-60	27	50	33		12	21	10	M12		XD27-2	XD27-1		
BT(JT)40-XD32-60	32	60	42		14	24	12	M16		XD32-2	XD32-1		
BT(JT)40-XD40-60	40	70	52		16	27	16	M20		XD40-2	XD40-1		S5,S10
BT(JT)40-XD50-60	50	90	63		18	30		M24		XD50-2	XD50-1		S5,S12
BT(JT)45-XD22-60	22	40	28	60	10	19	9	M10	I	XD22-2	XD22-1	S5,S6	
BT(JT)45-XD27-60	27	50	33		12	21	10	M12		XD27-2	XD27-1		
BT(JT)45-XD32-60	32	60	42		14	24	12	M16		XD32-2	XD32-1		S5,S8
BT(JT)45-XD40-60	40	70	52		16	27	16	M20		XD40-2	XD40-1		S5,S10
BT(JT)45-XD50-60	50	90	63		18	30		M24		XD50-2	XD50-1		S5,S12
BT(JT)50-XD22-75	22	40	28	75	10	19	9	M10	I	XD22-2	XD22-1	S5,S6	
BT(JT)50-XD27-75	27	50	33		12	21	10	M12		XD27-2	XD27-1		
BT(JT)50-XD32-75	32	60	42		14	24	12	M16		XD32-2	XD32-1		S5,S8
BT(JT)50-XD40-75	40	70	52		16	27	16	M20		XD40-2	XD40-1		S5,S10
BT(JT)50-XD50-75	50	90	63		18	30		M24		XD50-2	XD50-1		S5,S12
BT(JT)50-XD60-75	60	128.57	—	25.4	40	—	—	II	XD60-1	—	S10		

F16



削平型直柄刀柄

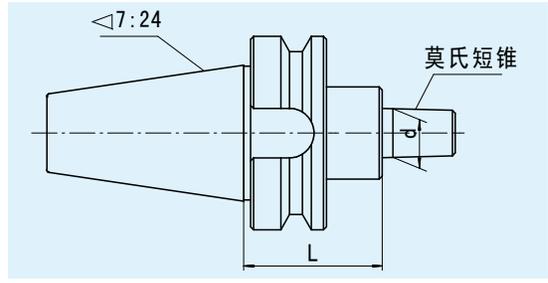
Cut flat and straight handle with cutter handle



型号规格 Type spec	尺寸 Dimension							紧定螺钉 Screw	扳手 Wrench
	d	L ₁	D	L ₂	L ₃	L ₄	M		
BT(JT)40-XP16-80	16	80	48	47	24	-	M14	M14×16	S6
BT(JT)40-XP20-80	20		52	49	25		M16	M16×16	
BT(JT)40-XP25-110	25	110	65	54	24	25	M18	M18×20	S8
BT(JT)40-XP32-110	32		72	58		28	M20	M20×20	
BT(JT)45-XP16-80	16	80	48	47	24	-	M14	M14×16	S6
BT(JT)45-XP20-80	20		52	49	25		M16	M16×16	
BT(JT)45-XP25-110	25	110	65	54	24	25	M18	M18×20	S8
BT(JT)45-XP32-110	32		72	58		28	M20	M20×20	
BT(JT)50-XP16-80	16	80	48	47	24	-	M14	M14×16	S6
BT(JT)50-XP20-80	20		52	49	25		M16	M16×16	
BT(JT)50-XP25-110	25	110	65	54	24	25	M18	M18×20	S8
BT(JT)50-XP32-110	32		72	58		28	M20	M20×20	

钻夹头刀柄

Drill chuck with cutter handle

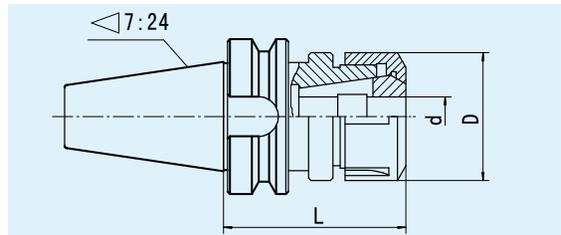


型号规格 Type spec	莫氏短锥 Morse taper of short	尺寸 Dimension		配用钻夹头 Adopt drill chuck		型号规格 Type	莫氏短锥 Morse taper of short	尺寸 Dimension		配用钻夹头 Drilling chuck	
		d	L	型号 Model	夹持范围 Clamp range			d	L	型号 Model	夹持范围 Clamps range
BT(JT)40-Z10-45	B10	10.094	45	J0106	0.5~6	BT(JT)45-Z16-45	B16	15.733	45	J0113	1~13
BT(JT)40-Z10-90			90			BT(JT)45-Z16-90			90		
BT(JT)40-Z12-45	B12	12.065	45	J0108	0.5~8	BT(JT)45-Z18-45	B18	17.780	45	J0116	3~16
BT(JT)40-Z12-90			90			BT(JT)45-Z18-90			90		
BT(JT)40-Z16-45	B16	15.733	45	J0113	1~13	BT(JT)50-Z10-45	B10	10.094	45	J0106	0.5~6
BT(JT)40-Z16-90			90			BT(JT)50-Z10-90			90		
BT(JT)40-Z18-45	B18	17.780	45	J0116	3~16	BT(JT)50-Z12-45	B12	12.065	45	J0108	0.5~8
BT(JT)40-Z18-90			90			BT(JT)50-Z12-90			90		
BT(JT)45-Z10-45	B10	10.094	45	J0106	0.5~6	BT(JT)50-Z16-45	B16	15.733	45	J0113	1~13
BT(JT)45-Z10-90			90			BT(JT)50-Z16-90			90		
BT(JT)45-Z12-45	B12	12.065	45	J0108	0.5~8	BT(JT)50-Z18-45	B18	17.780	45	J0116	3~16
BT(JT)45-Z12-90			90			BT(JT)50-Z18-90			90		

F17

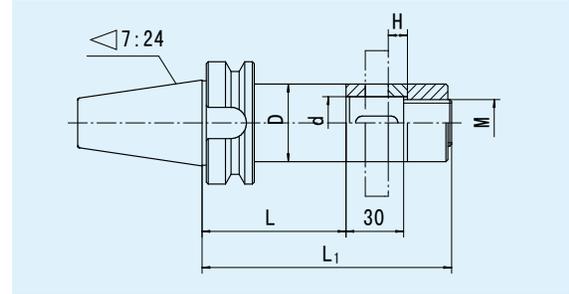
弹簧夹头刀柄

Collet chuck with cutter handle



型号规格 Type spec	尺寸 Dimension			弹簧夹头 Collet chuck	螺母 Nut	型号规格 Type	尺寸 Dimension			弹簧夹头 Collet chuck	螺母 Nut
	L	D	d				L	D	d		
BT(JT)40-QER20-75	75	35	>2.5	ER20-d	ER20-T1	BT(JT)45-QER32-75	75	50	>3.5	ER32-d	ER32-T2
BT(JT)40-QER20-120	120		~13	ER20-d		BT(JT)45-QER32-120	120		~20	ER32-d	
BT(JT)40-QER25-75	75	42	>2.5	ER25-d	ER25-T2	BT(JT)45-QER40-90	90	63	3.0	ER40-d	ER40-T2
BT(JT)40-QER25-120	120		~16	ER25-d		BT(JT)45-QER40-150	150		~26	ER40-d	
BT(JT)40-QER32-75	75	50	>3.5	ER32-d	ER32-T2	BT(JT)50-QER20-75	75	35	>2.5	ER20-d	ER20-T1
BT(JT)40-QER32-120	120		~20	ER32-d		BT(JT)50-QER20-120	120		~13	ER20-d	
BT(JT)40-QER40-75	75	63	3.0	ER40-d	ER40-T2	BT(JT)50-QER25-90	90	42	>2.5	ER25-d	ER25-T2
BT(JT)40-QER40-120	120		~26	ER40-d		BT(JT)50-QER25-150	150		~16	ER25-d	
BT(JT)45-QER20-75	75	35	>2.5	ER20-d	ER20-T1	BT(JT)50-QER32-90	90	50	>3.5	ER32-d	ER32-T2
BT(JT)45-QER20-120	120		~13	ER20-d		BT(JT)50-QER32-150	150		~20	ER32-d	
BT(JT)45-QER25-75	75	42	>2.5	ER25-d	ER25-T2	BT(JT)50-QER40-90	90	63	3.0	ER40-d	ER40-T2
BT(JT)45-QER25-120	120		~16	ER25-d		BT(JT)50-QER40-150	150		~26	ER40-d	

注：弹簧夹头不随刀柄，需另行订货。 Note: Collet chuck do not follow the cutter handle, need a separate order.



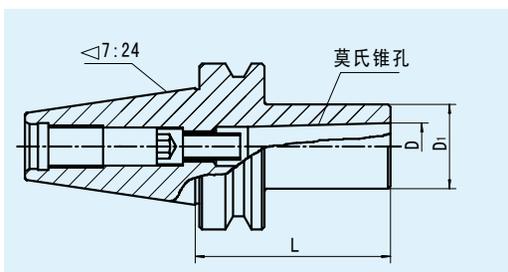
型号规格 Type spec	尺寸 Dimension						键 Key	垫圈 Clamp ring	螺母 Nut
	d	D	L	L ₁	M	H			
BT(JT)40-XS16-75	16	26	75	121	M14×1.5	5	GB1096-79 4×22	XS16-3-H	XS16-1
BT(JT)40-XS16-105			105	151					
BT(JT)40-XS22-75	22	34	75	126	M20×1.5	10	GB1096-79 6×22	XS22-3-H	XS22-1
BT(JT)40-XS22-120			120	171					
BT(JT)40-XS27-75	27	40	75	130	M24×2.0	15	XS27-2	XS27-13-H	XS27-1
BT(JT)40-XS27-120			120	175					
BT(JT)40-XS32-90	32	46	90	150	M30×2.0		GB1096-79 8×22	XS32-3-H	XS32-1
BT(JT)45-XS16-90	16	26	90	136	M14×1.5	5	GB1096-79 4×22	XS16-3-H	XS16-1
BT(JT)45-XS16-120			120	166					
BT(JT)45-XS22-90	22	34	90	141	M20×1.5	10	GB1096-79 6×22	XS22-3-H	XS22-1
BT(JT)45-XS22-135			135	186					
BT(JT)45-XS27-90	27	40	90	145	M24×2.0	15	XS27-2	XS27-3-H	XS27-1
BT(JT)45-XS27-135			135	190					
BT(JT)45-XS32-90	32	46	90	150	M30×2.0		GB1096-79 8×22	XS32-3-H	XS32-1
BT(JT)45-XS32-135			135	195					
BT(JT)50-XS16-90	16	26	90	136	M14×1.5	5	GB1096-79 4×22	XS16-3-H	XS16-1
BT(JT)50-XS16-120			120	166					
BT(JT)50-XS22-90	22	34	90	141	M20×1.5	10	GB1096-79 6×22	XS22-3-H	XS22-1
BT(JT)50-XS22-135			135	186					
BT(JT)50-XS27-90	27	40	90	145	M24×2.0	15	XS27-2	XS27-3-H	XS27-1
BT(JT)50-XS27-135			135	190					
BT(JT)50-XS32-90	32	46	90	150	M30×2.0		GB1096-79 8×22	XS32-3-H	XS32-1
BT(JT)50-XS32-135			135	195					
BT(JT)50-XS40-90	40	55	90	156	M36×3.0		GB1096-79 10×22	XS40-3-H	XS40-1
BT(JT)50-XS40-135			135	201					

F18

注：订购时请说明是否需要配垫圈 Note: When order, Please explain the whether need for allocation Clamp ring

无扁尾莫氏圆锥刀柄

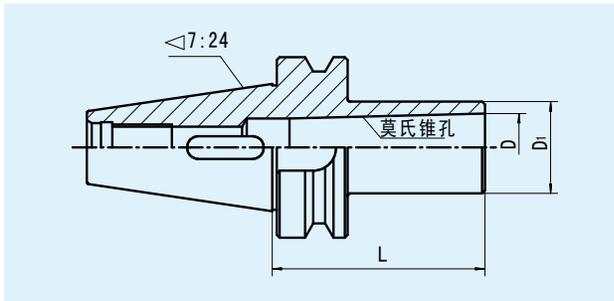
The morse taper cutter handle of without flat cauda



型号规格 Type spec	莫氏锥孔 Morse taper hole	尺寸 Dimension		
		D	D ₁	L
BT(JT)40-MW1-45	MW1	12.065	25	45
BT(JT)40-MW2-60	MW2	17.780	32	60
BT(JT)40-MW3-90	MW3	23.825	40	90
BT(JT)40-MW4-130	MW4	31.267	50	130
BT(JT)45-MW1-45	MW1	12.065	25	45
BT(JT)45-MW2-45	MW2	17.780	32	
BT(JT)45-MW3-60	MW3	23.825	40	60
BT(JT)45-MW4-110	MW4	31.267	50	120
BT(JT)50-MW2-45	MW2	17.780	32	45
BT(JT)50-MW3-60	MW3	23.825	40	60
BT(JT)50-MW4-75	MW4	31.267	50	75

带扁尾莫氏圆锥刀柄

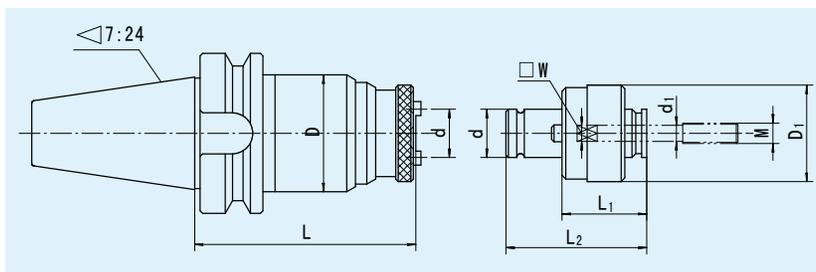
The morse taper cutter handle of have flat cauda



型号规格 Type spec	莫氏锥孔 Morse taper hole	尺寸 Dimension		
		D	D ₁	L
BT(JT)40-M1-45	M1	12.065	25	45
BT(JT)40-M2-60	M2	17.780	32	60
BT(JT)40-M3-75	M3	23.825	40	75
BT(JT)40-M4-95	M4	31.267	50	95
BT(JT)45-M1-45	M1	12.065	25	45
BT(JT)45-M2-45	M2	17.780	32	
BT(JT)45-M3-75	M3	23.825	40	75
BT(JT)45-M4-90	M4	31.267	50	90
BT(JT)50-M2-45	M2	17.780	32	45
BT(JT)50-M3-60	M3	23.825	40	60
BT(JT)50-M4-75	M4	31.267	50	75
BT(JT)50-M5-105	M5	44.399	70	105

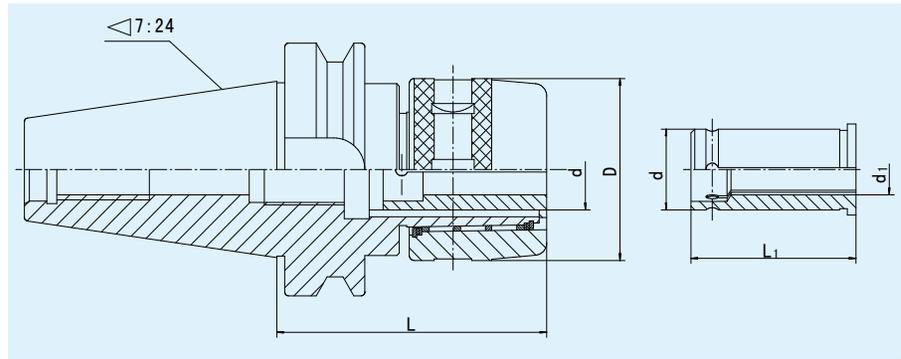
攻丝夹头刀柄

Tap chuck cutter handle



型号规格 Type spec	攻丝范围 Mmin~Mmax	尺寸 Dimension			配用攻丝夹套 Adopt tap collets sheath
		L	D	d	
BT(JT) 40-G3-90	M3~M12	90	46	19	GT3-M
JT 40-G12-150	M12~M24	150	66	30	GT12-M
BT 40-G12-135		135			
BT(JT) 45-G3-95	M3~M12	95	46	19	GT3-M
BT(JT) 45-G12-135	M12~M24	135	66	30	GT12-M
BT(JT) 50-G3-95	M3~M12	95	46	19	GT3-M
BT(JT) 50-G12-135	M12~M24	135	66	30	GT12-M

夹套型号 Collets sheath type	丝锥尺寸 Tap cutter dimension			夹套尺寸 Collets sheath dimension			
	M	d ₁	□W	d	D ₁	L ₁	L ₂
GT3-3	3	3.25	2.5	19	38	33.7	56
GT3-4	4	4.1	3.15				
GT3-5	5	5.1	4.0				
GT3-6	6	6.4	5.0				
GT3-8	8						
GT3-10	10	8.1	6.3				
GT3-12	12	9.1	7.1	30	58	51.7	82
GT12-12	12	9.1	7.1				
GT12-14	14	11.3	9.0				
GT12-16	16	12.6	10.0				
GT12-18	18	14.1	11.2				
GT12-20	20						
GT12-22	22	16.1	12.5				
GT12-24	24	18.1	14.0				



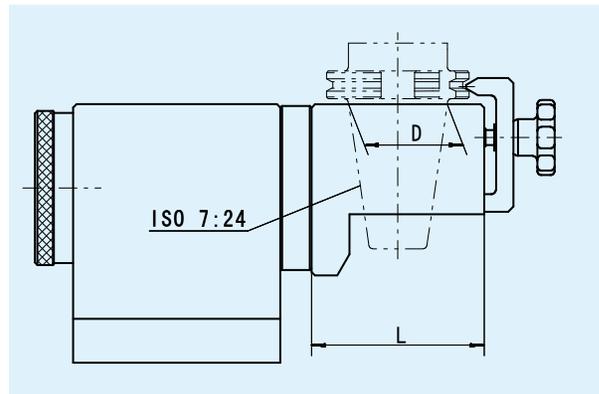
型号规格 Type spec	尺寸 Dimension			配用弹簧夹头 Adopt collet chuck			
	d	D	L		L_1	d	d_1
BT(JT)40-QJ20-90	20	60	90	QJ20-09	50	20	4、5、6、8、10、12、14、16
BT(JT)40-QJ20-120			120				
BT(JT)40-QJ32-90	32	73	90	QJ32-09	65	32	6、8、10、12、16、20、25
BT(JT)40-QJ32-120			120				
BT(JT)50-QJ20-105	20	60	105	QJ20-09	50	20	4、5、6、8、10、12、14、16
BT(JT)50-QJ20-135			135				
BT(JT)50-QJ20-165			165				
BT(JT)50-QJ32-105	32	73	105	QJ32-09	65	32	6、8、10、12、16、20、25
BT(JT)50-QJ32-135			135				
BT(JT)50-QJ32-165			165				
BT(JT)50-QJ42-110	42	90	110	QJ42-09	80	42	6、8、10、12、16、20、25、32
BT(JT)50-QJ42-135			135				
BT(JT)50-QJ42-165			165				

F20

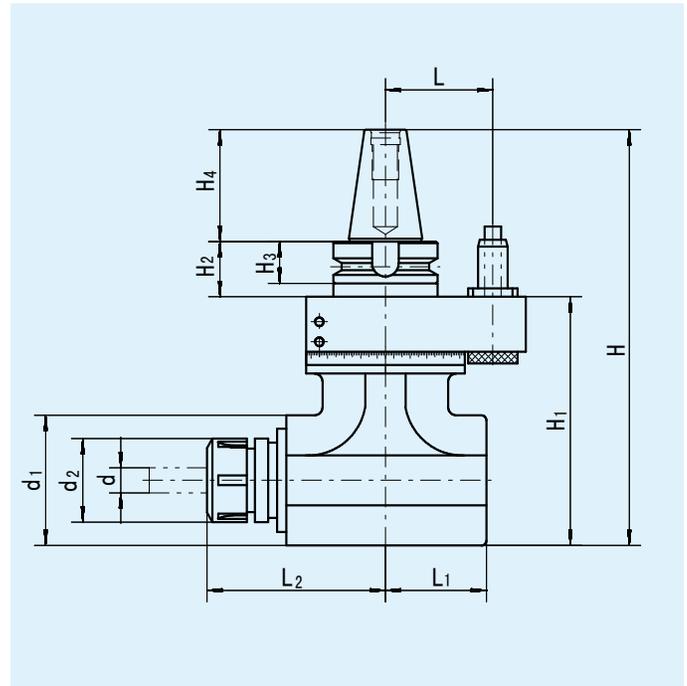
注：订购时请说明是否需要配夹头 Note: When Order, Please explain the whether need for distribution chuck.

刀柄装拆工具

Instrument of assembling for cutter handle



型号规格 Type spec	尺寸 Dimension	
	L	D
ZC40	94	44.45
ZC45	100	57.15
ZC50	112	69.85

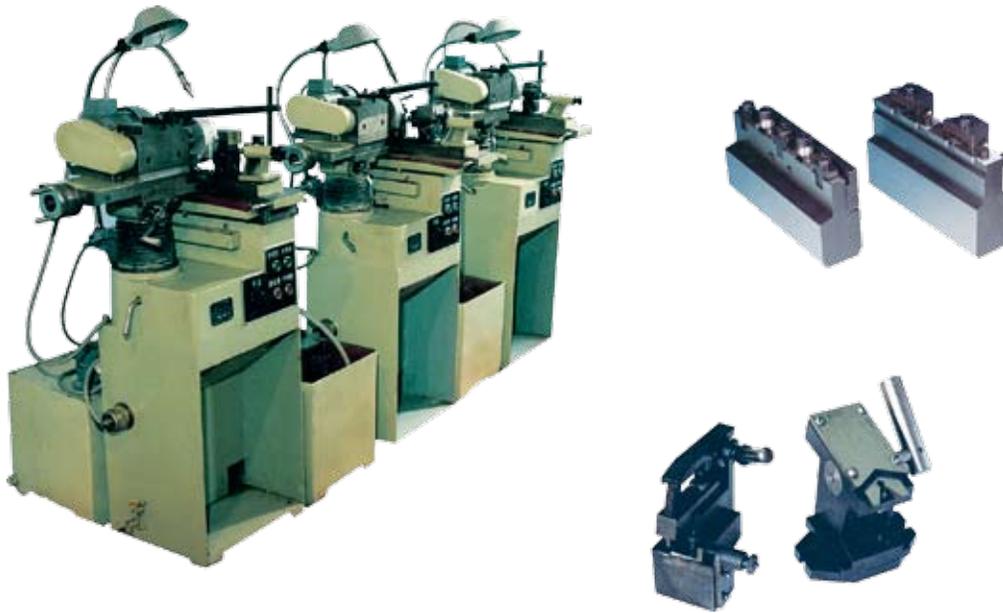


型号规格 Type spec	尺寸 Dimension											弹簧夹头 Collet chuck	螺母 Lock Nut
	L	L ₁	L ₂	H	H ₁	H ₂	H ₃	H ₄	d	d ₁	d ₂		
BT40-JDT9065-ER32	65	61	106	248	148	33	25	67	3~20	78	50	ER32-d	ER32-T2
BT50-JDT9080-ER32	80			296		43	35	105					

2M7310W 刃磨机 Type 2M7310W Machine of grinding blades

2M7310W型刃磨机体积小, 重量轻, 操作灵活。机床配有刀片刃磨夹具等附件, 适用于各种可转位刀片的周边、倒角、倒棱的刃磨, 还适用于铣刀、铰刀的前、后角及其它机械小零件的磨削。

Type 2M7310W Machine of grinding blades cubage small, heft light, manipulate agility. Machine tool stock clamp of grinding blades and accessories etc, be the same with full grinding of indexable carbide blades for around, resect sharp-angle, take out arris fairish be the same with grinding the tool orthogonal rake and tool clearance of milling tools, reaming. and/or grinding of else machine small part.



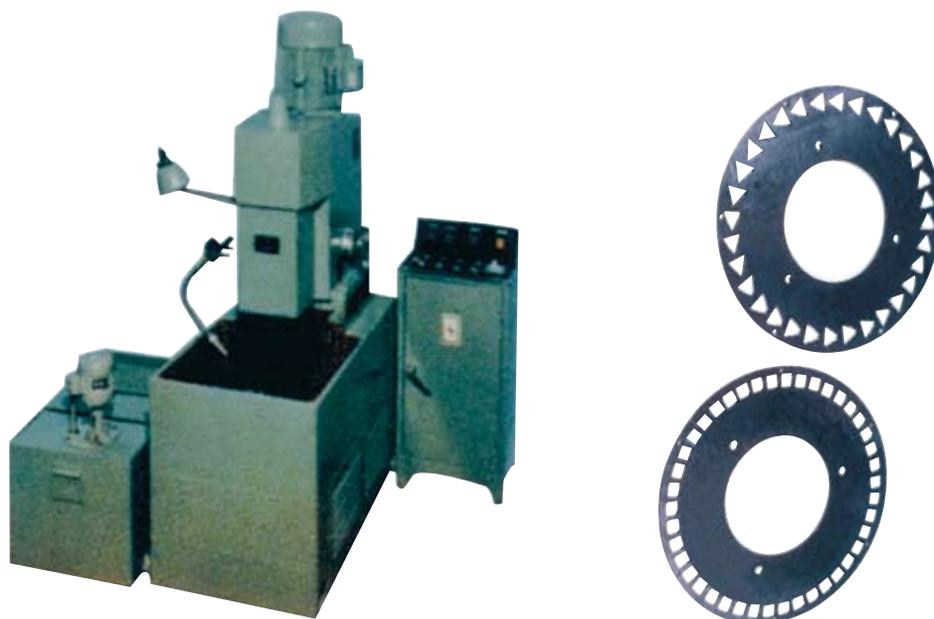
G1

1.工作台面 (长×宽): Workbench-face (longness×width)	450 mm×110 mm
2.工作台面最大回转角度: Workbench-face most gyration angle	±30°
3.工作台纵向最大位移量: Workbench longitudinal most shift quantity	200 mm
4.磨头水平最大回转角度: Grinding head level most gyration angle	±60°
5.磨头垂直最大移动量: Grinding head plumb most shift quantity	185 mm
6.磨头中心与工作台面最小距离: Grinding head center to workbench-face least distance	0
7.磨头中心与工作台面最大距离: Grinding head center to workbench-face most disrance	185 mm
8.磨头横向最大移动量: Grinding head infeed most shift quantity	100 mm
9.磨头转速 (2级): Grinding head rev (two grade)	转速 (rev) 3800 r/min, 4480 r/min
10.主电机: Main electromotor	型号 (Type) A02— 7122, 功率550W, 转速2800 r/min
11.冷却泵: Cooling pump	型号 (Type) AB12, 功率 40W

2M7431圆盘磨 Type 2M7431 Grinding machine of discal

2M7431圆盘磨床主要用于硬质合金可转位刀片二平面的磨削,装上特制夹具或磁性吸盘后,也可用于其它小零件的平面磨削。

Type 2M7431 Grinding machine of discal mostly suitable for indexable carbide blades a couple of plane milling , install handtailor clamp or magnetism acetabula, also can suitable else plane milling of small parts



机床主要规格及参数:

Machine tools mostly spec and/or parameter

1.圆盘工作台最大直径: Discal workbench most diameter	φ310mm
2.磨头砂轮最大直径: Milling head grinding wheel most diameter:	φ125mm
3.磨头垂直进给位移量: Milling head plumb feed movement shift quantity:	100mm
4.砂轮平面与工作台基准盘最小距离: Grinding wheel plane to workbench benchmark discal least distance:	0
5.砂轮平面与工作台基准盘最大距离: Grinding wheel plane to workbench benchmark discal most distance:	100mm
6.磨头横向进给位移量度: Grinding head infeed shift quantity:	120mm
7.圆盘工作台转速: discal workbench rev:	7.6 r/min
8.磨头转速: Grinding head rev:	3200 r/min
9.圆盘工作台电机: Discal workbench with electromotor:	型号 (Type) Y100L—6,功率 (Power) 1.5kw,转速 (rev) 940 r/min
10.磨头电机: Grinding head with electromotor	型号 (Type) Y100L—6,功率 (Power) 5.5kw,转速 (rev) 2900 r/min
11.冷却泵: Cooling pump:	型号 (Type) JCB—22,功率 (Power) 125w,流量 (Flow quantity) 22 L/min
12.水平进给: Level feed movement:	5 mm/r,0.05 mm/格 (Scale)
13.垂直进给: Plumb feed movement:	0.5 mm/r,0.005 mm/格 (Scale)

本公司具备硬质合金压制、烧结的能力，可生产切瓷砖刀片、玻璃切刀、化纤切刀、棉纱剪刀及各种异形耐磨零件。

Company possess ability for press-make and fritting of carbide, Can produce blades of incision tile, glass incision knives, synthetic fibre incision knives cotton forfex and/or manifold wearable part of abnormity.



本公司生产多种类型的气动工具。主要产品有：气扳机系列、定扭矩气扳机系列、气砂轮系列（直柄、角向式）、气钻系列、气螺刀系列及各种规格的气铲、气镐、捣固机等。

Company produce pneumatic tool of manifold type. Mostly product have: air-spanner series, ration torque wrench series, air grinding wheel series (straight handle, cornerwise mode), air drill series, air screwdriver series and/or manifold spec air shovel, air pickax, tamp machine etc.



S40Z190气砂轮机 Type S40Z190 air grinding wheel machine

S40Z190气砂轮机结构简单，使用、维修方便。用于手持修磨焊缝、清理机件毛刺及各种模具的修形等工作。如以布轮代替砂轮，可用于机械零件的表面抛光工作。广泛用于航空、汽车、装潢等行业。

Type S40Z190 Air grinding wheel machine framework simpleness, use and servicing conveniency. Be the same with hand hold milling weld, clean up machine member burr and/or manifold mould finishing task etc. Exempli gratia use cloth-wheel substitute grinding wheel, can machine parts surface polishing. Abroad be the same with aviation, automobile, upholster vocation etc .



主要技术参数: Mostly technic parameter

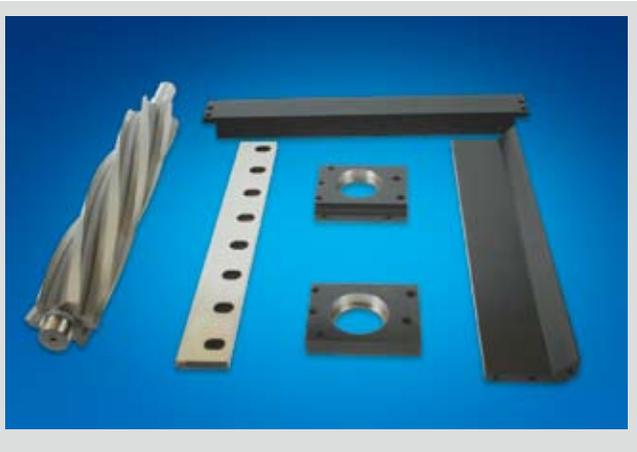
1.最大钻孔直径: Drilling Capacity:	40 mm	5.空转耗气量: Idling air consumption:	6L/S
2.砂轮杆直径: Grinding wheel pole diameter:	6mm	6.全长: Span:	181mm
3.工作气压: Work air Pressure:	0.63MPa	7.进气口螺纹: Thread of air-inlet:	ZG1/4"
4.空转转数: Idling turn quantity:	19000~22000rpm	8.气管内径: Air hose aperture:	6.35mm



加工中心机床零件
Machining center machine tool parts



线切割机床零件
Thread incise machine tool parts



碎纸机零件
A scrap of paper machine parts



冲剪机零件
Punching machine spare parts



阀球、阀座
Ball valve block



气动工具零件
Pneumatic tool parts