

使用快速钻头注意事项

- 1 使用快速钻头尽量有高压中心出水，以增加刀片使用寿命及排屑良好。
- 2 使用CNC车床时刀具中心点与机械主轴中心尽量平行。
- 3 CNC车床使用如须扩孔，刀片外刃必须和刀塔移动角度平行。
- 4 随时注意刀片磨损状况，如有异响立即停机检查。

WARNING

- 1 Use the High Speed Drill the best to drain water from the high pressure center to extending inserts life and good for removing the metal chips
- 2 Using CNC Lathe the cutting center point with spindle center of Machine best to be parallel.
- 3 If you need to expand hole when using CNC Lathe, the outer insert must parallel with the remove angle of cutter tower.
- 4 The inserts have to be checked regularly for wear, and stop immediately once noise occurred.



浅孔钻切削数据参考

Recommended cutting parameters for u drills

孔公差 Hole tolerance

钻削深度 Drilling depth	孔公差 Hole tolerance
2XD	+0.2/-0.1
3XD	+0.25/-0.1
4XD	+0.3/-0.1
5XD	+0.4/-0.1

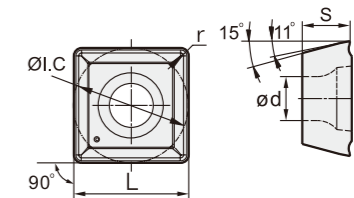
推荐-钻切削条件

Recommended drilling and cutting condition

材质 Materials	速度 (m/min)	进给量 $f_n$ (mm/rev)									
		Ø12.5-Ø15	Ø15.5-Ø21.5	Ø22-Ø27.5	Ø28-Ø33	Ø34-Ø41	Ø42-Ø50	Ø51-Ø56	Ø57-Ø66	Ø67-Ø73	Ø74-Ø80
低碳钢 (-0.3%C) Low carbon steel	180-250	0.05-0.08	0.06-0.10	0.06-0.12	0.07-0.13	0.08-0.15	0.08-0.16	0.06-0.12	0.08-0.12	0.08-0.12	0.08-0.12
碳钢 (0.3%C-) Carbon steel	180-220	0.08-0.12	0.08-0.15	0.10-0.18	0.12-0.22	0.12-0.24	0.13-0.25	0.10-0.15	0.12-0.18	0.12-0.18	0.12-0.18
低碳合金钢 Low alloy steel	150-220	0.06-0.12	0.08-0.14	0.10-0.18	0.12-0.22	0.12-0.23	0.13-0.24	0.08-0.15	0.10-0.18	0.10-0.18	0.10-0.18
高碳合金钢 High alloy steel	130-180	0.06-0.10	0.08-0.15	0.10-0.20	0.12-0.23	0.12-0.24	0.13-0.25	0.08-0.15	0.10-0.15	0.10-0.15	0.10-0.15
不锈钢 Stainless steel	170-240	0.05-0.10	0.06-0.12	0.08-0.15	0.09-0.16	0.10-0.17	0.11-0.19	0.06-0.12	0.08-0.15	0.18-0.15	0.08-0.15
铸铁 Cast iron	180-250	0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30	0.12-0.20	0.15-0.22	0.15-0.22	0.15-0.22
球墨铸铁 Nodular cast iron	130-200	0.06-0.10	0.08-0.15	0.10-0.18	0.12-0.20	0.15-0.23	0.18-0.25	0.10-0.15	0.10-0.20	0.10-0.20	0.10-0.20
铝合金 Aluminum alloy	330-380	0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26	0.15-0.22	0.15-0.25	0.15-0.25	0.15-0.25
钛合金 Titanium alloy	30-60	0.05-0.10	0.06-0.14	0.08-0.18	0.10-0.22	0.14-0.23	0.15-0.24	0.10-0.15	0.12-0.16	0.12-0.16	0.12-0.16

★ 刀片选择 Matching Insert

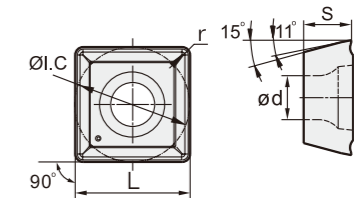
型号 Type	SD1205	SD2136	SD2336	SD4326	SD4226	SD4236	SD5346	SD5236	SD5450	SD5440	SD5146	基本尺寸(mm) Dimension				
												L	ØI.C	S	Ød	r
SPMG050204	●	●	●						○			5	5	2.38	2.2	0.4
SPMG060204	●	●	●						○			6	6	2.38	2.6	0.4
SPMG07T308	●	●	●						○			7.94	7.94	3.97	2.8	0.8
SPMG090408	●	●	●						○			9.8	9.8	4.3	4.2	0.8
SPMG110408	●	●	●						○			11.5	11.5	4.76	4.4	0.8
SPMG140512	●	●	●									14.3	14.3	5.2	5.75	1.2
P 钢	■	■	■													
M 不锈钢	■	□	■						■							
K 铸铁	■		■													
N 有色金属																
S 耐热合金、钛合金				■												
H 淬硬材料																



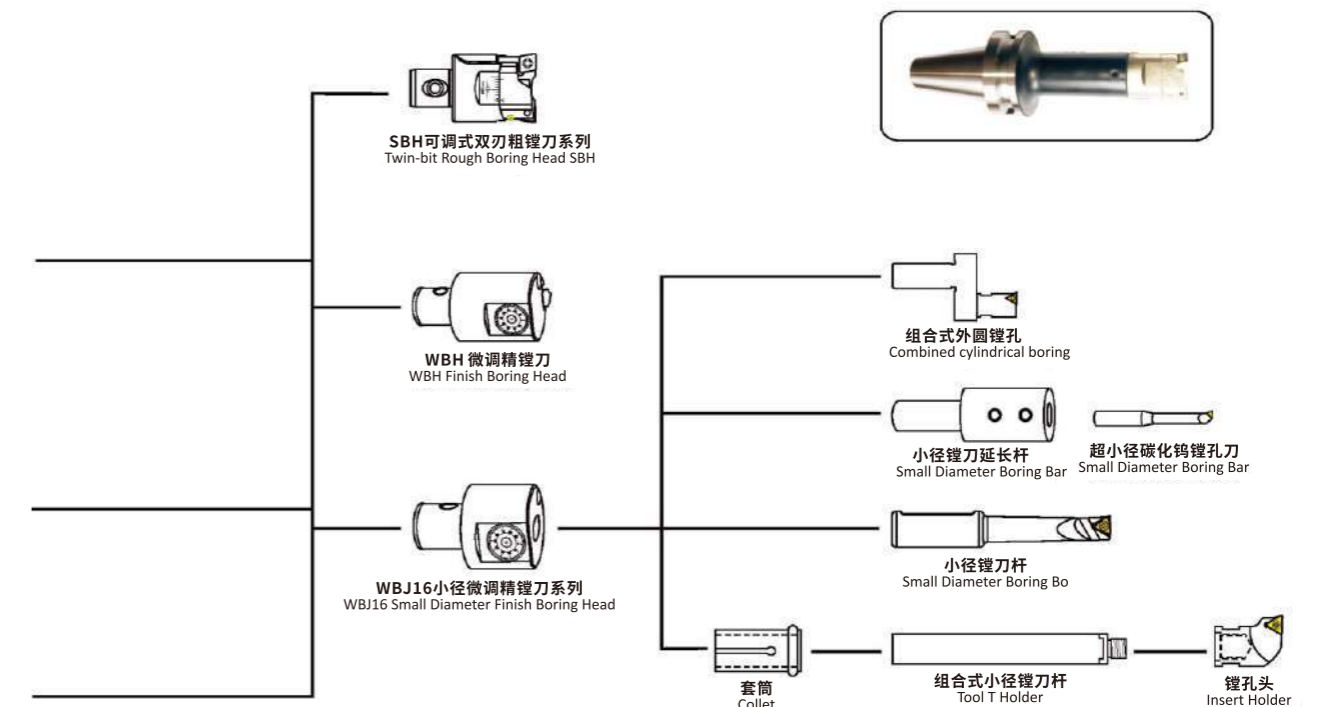
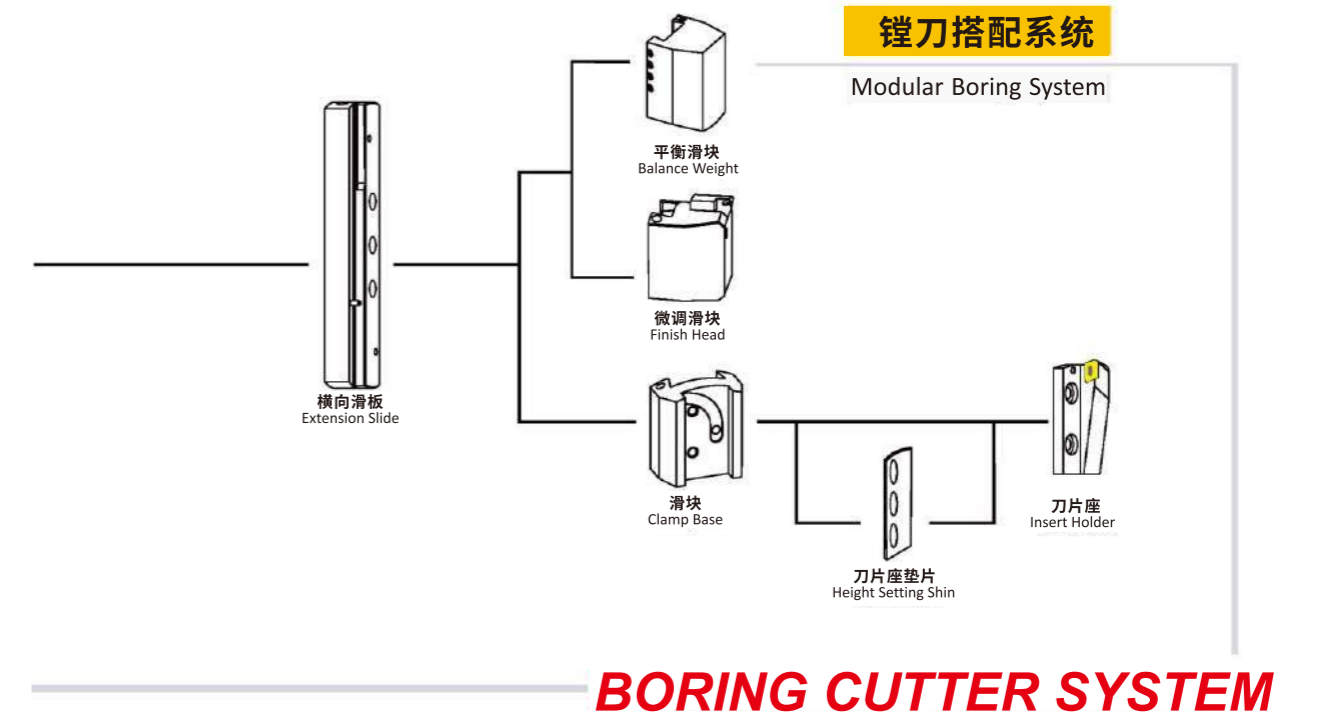
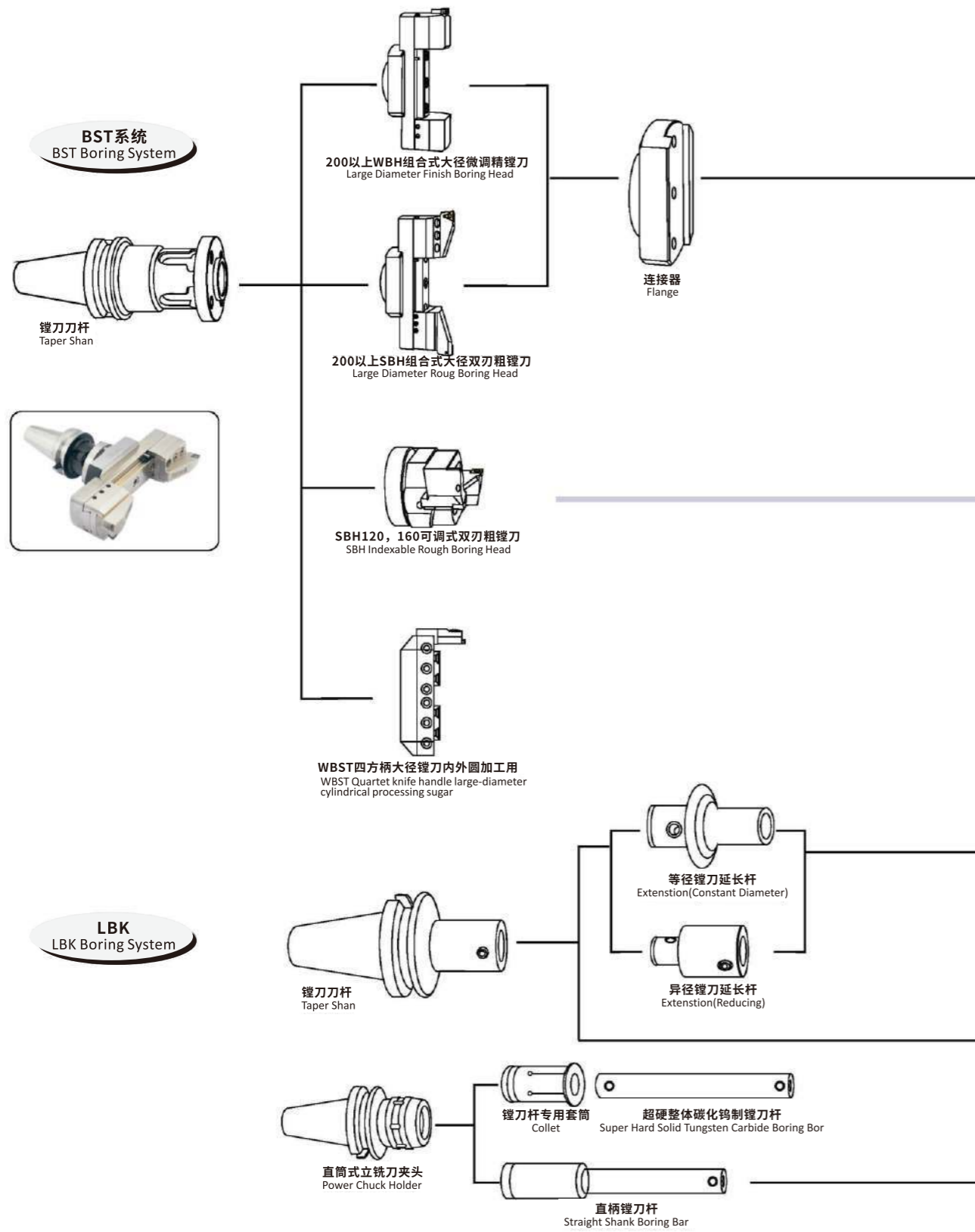
● 常备库存 Unallocated stock ○ 可备库存 Available stock ■ 推荐应用 Main application □ 拓展应用 Extended application

★ 刀片选择 Matching Insert

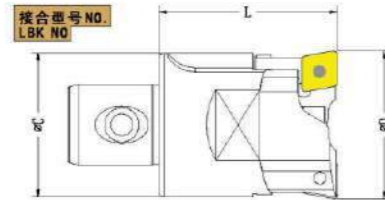
型号 Type	SD1205	SD2136	SD2336	SD4326	SD4226	SD4236	SD5346	SD5236	SD5450	ST9110	ST9015	基本尺寸(mm) Dimension				
												L	ØI.C	S	Ød	r
SPGT050204-SPM										●	●	5	5	2.38	2.2	0.4
SPGT060204-SPM										●	●	6	6	2.38	2.6	0.4
SPGT07T308-SPM										●	●	7.94	7.94	3.97	2.8	0.8
SPGT090408-SPM										●	●	9.8	9.8	4.3	4.2	0.8
SPGT110408-SPM										●	●	11.5	11.5	4.76	4.4	0.8
SPGT110408-SPM										○	○	14.3	14.3	5.2	5.75	1.2
P 钢										■	■					
M 不锈钢										■	■					
K 铸铁										■	■					
N 有色金属																
S 耐热合金、钛合金										■	□					
H 淬硬材料																



● 常备库存 Unallocated stock ○ 可备库存 Available stock ■ 推荐应用 Main application □ 拓展应用 Extended application



**SBH可调式双刃粗镗刀系列 《镗孔范围 $\phi 25-\phi 204\text{mm}$ 》**  
Twin-bit Rough Boring Head SBH<Boring Range Form  $\phi 25-\phi 204\text{mm}$ >



特色

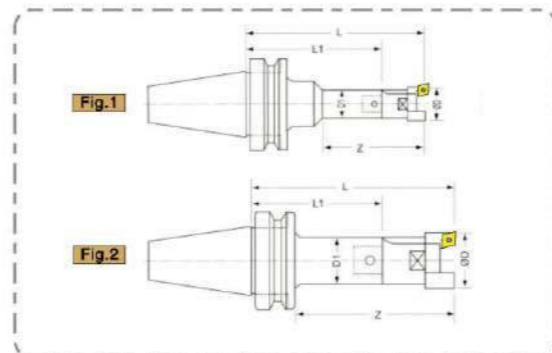
- 1、刀体整体缩短，刚性增强。
- 2、内藏式水孔，直接冷却，刀片寿命长。
- 3、排屑槽设计，增加深孔排屑功能。
- 4、刀片座降低高度，刚性增强。
- 5、独特高低段差设计，平刃或高低刃均可采用。

Features

1. Shortened boring head, with strengthened rigidity
2. Inner coolant nozzle directly cools the inserts and prolongs the working life.
3. Design of chip pocket increases the chipping function on deep holes.
4. The lowered height of insert holder strengthens the rigidity.
5. Unique design of height difference, suitable for level boring and step boring.

镗头型号 Boring Head Type	接合型号 LBK No.	镗孔范围 $\phi$ Dmm Boring Range	L mm	C mm	刀片规格 Insert	重量 kg Weight	
	SBH25-35-C	LBK2	25-33	32	24	CCMT060204	0.1
	SBH32-45-C	LBK3	32-42	39	31	CCMT09T304	0.2
	SBH40-55-C	LBK4	40-55	48	39		0.4
	SBH52-75-C	LBK5	52-75	54	50		0.7
	SBH68-100-C	LBK6	68-100	68	63	CCMTI 20408	1.6
SBH90-130-C	90-130		78	88	2.6		
	SBH120-164-C	BST Series	120-164	100	100	CCMTI 20408	4.1
	SBH160-204-C		160-204	100	128	CCMTI 20408	5.2

**SBH双刃粗镗刀+LBK刀柄 (MAS 403BT)**  
SBH Twin-bit Rough Boring Head+LBK Shank(MAS 403BT)



**SBH双刃粗镗刀组合系列 SBH Finish Boring Head**

型号 Tape	样式 Fig.	镗孔范围 $\phi$ (Dmm)	有效长 Z	组合内容 Tool Connection		接合型号 LBK No	全长 L	刀杆长 L1	刀杆外径 D1	重量 KG
				LBK刀杆 LBK shank	SBH刀头 SBH boring head					
BT30-SBH25-112	2	25-35	82	BT30-LBK2-80	SBH25	2	112	80	24	0.8
BT30-SBH32-119		32-45	89	BT30-LBK3-80	SBH32	3	119		31	1.0
BT30-SBH40-118		40-55	75	BT30-LBK4-70	SBH40	4	118	70	39	1.3
BT30-SBH52-114		52-75	84	BT30-LBK5-60	SBH52	5	114	60	50	1.8
BT30-SBH68-128		68-100	98	BT30-LBK6-60	SBH68	6	128		64	3.0
BT30-SBH90-138		90-130	108		SBH90		6	138	3.9	
BT40-SBH25-117	2	25-35	82	BT40-LBK2-85	SBH25	2	117	85	24	1.3
BT40-SBH25-147			112	BT40-LBK2-115	SBH32	3	147	115	31	1.6
BT40-SBH32-134		32-45	99	BT40-LBK3-95		3	134	95	1.5	
BT40-SBH32-164			129	BT40-LBK3-125		3	164	125	1.8	
BT40-SBH32-194			159	BT40-LBK3-155	3	194	155	2.0		
BT40-SBH40-133		40-55	85	BT40-LBK4-85	SBH40	4	133	85	39	1.8
BT40-SBH40-178			130	BT40-LBK4-130		4	178	130	2.4	
BT40-SBH40-223			175	BT40-LBK4-175		4	223	175	2.7	
BT40-SBH52-129			94	BT40-LBK5-75		SBH52	5	129	75	2.3
BT40-SBH52-179		144	BT40-LBK5-125	5	179		125	3.3		
BT40-SBH52-229		194	BT40-LBK5-175	5	229		175	4.0		
BT40-SBH68-133		68-100	98	BT40-LBK6-65	SBH68	6	133	65	64	3.3
BT40-SBH68-183	148		BT40-LBK6-115	6			183	115	4.7	
BT40-SBH68-233	198		BT40-LBK6-165	6			233	165	5.9	
BT40-SBH90-143	108		BT40-LBK6-65	SBH90			6	143	65	4.2
BT40-SBH90-193	158	BT40-LBK6-115	6		193	115		5.6		
BT40-SBH90-243	208	BT40-LBK6-165	6		243	165		6.8		
BT40-SBH120-172	120-164	137	BT40-BST-70	SBH120	BST	172	70	95	7.0	
BT40-SBH160-170	160-204	135		SBH160		170	8.0			
BT50-SBH25-142	2	25-35	92	BT50-LBK2-110	SBH25	2	142	110	24	4.1
BT50-SBH25-172			122	BT50-LBK2-140	2	172	140	4.2		
BT50-SBH32-164		32-45	114	BT50-LBK3-125	SBH32	3	164	125	31	4.4
BT50-SBH32-194			144	BT50-LBK3-155			3	194	155	4.5
BT50-SBH40-163		40-55	100	BT50-LBK4-115	SBH40	4	163	115	39	4.8
BT50-SBH40-193			130	BT50-LBK4-145			4	193	145	4.9
BT50-SBH40-223			160	BT50-LBK4-175			4	223	175	5.3
BT50-SBH40-253			190	BT50-LBK4-205			4	253	205	5.4
BT50-SBH52-159		52-75	109	BT50-LBK5-105	SBH52	5	159	105	50	5.5
BT50-SBH52-234			184	BT50-LBK5-180			5	234	180	6.5
BT50-SBH52-294			244	BT50-LBK5-240			5	294	240	7.2
BT50-SBH52-354			1	244			BT50-LBK5-300	5	354	300
BT50-SBH68-163	68-100	113	BT50-LBK6-95	SBH68	6	163	95	64	6.5	
BT50-SBH68-238		188	BT50-LBK6-170			6	238	170	8.3	
BT50-SBH68-298		248	BT50-LBK6-230			6	298	230	9.6	
BT50-SBH68-358		308	BT50-LBK6-290			6	358	290	11.0	
BT50-SBH68-418	1	368	BT50-LBK6-350	SBH90	6	418	350	90/64	15.5	
IBT50-SBH68-418	1	368	IBT50-LBK6-350			6	13.2			
BT50-SBH90-173	90-130	123	BT50-LBK6-95	SBH90	6	173	95	64	7.4	
BT50-SBH90-248		198	BT50-LBK6-170			6	248	170	9.2	
BT50-SBH90-308		258	BT50-LBK6-230			6	308	230	10.5	
BT50-SBH90-368		318	BT50-LBK6-290			6	368	290	11.9	
BT50-SBH90-428	1	378	BT50-LBK6-350	SBH120	BST	428	350	90/64	16.4	
IBT50-SBH90-428	1	378	IBT50-LBK6-350			6	14.1			
BT50-SBH120-202	120-164	157	BT50-BST-100	SBH120	BST	202	100	95	8.9	
BT50-SBH120-252		207	BT50-BST-150			202	150		10.6	
BT50-SBH120-302		257	BT50-BST-200			302	200		13.3	
BT50-SBH120-352		307	BT50-BST-250			352	250		15.3	
BT50-SBH120-402		357	BT50-BST-300			402	300		17.3	
BT50-SBH120-452		407	BT50-BST-350			452	350		19.3	
BT50-SBH120-502	2	457	BT50-BST-400	SBH160	BST	502	400	21.3		
BT50-SBH160-200	160-204	155	BT50-BST-100			200	100	13.3		
BT50-SBH160-250		205	BT50-BST-150			250	150	13.8		
BT50-SBH160-300		255	BT50-BST-200			300	200	14.3		
BT50-SBH160-350		305	BT50-BST-250			350	250	16.3		
BT50-SBH160-400		355	BT50-BST-300			400	300	18.3		
BT50-SBH160-450		405	BT50-BST-350	450	350	20.3				
BT50-SBH160-500	455	BT50-BST-400	500	400	22.3					

▲ IBT是专为抑制镗孔共振而改良的专用刀杆 IBT is the improved type dedicated to resonance in boring

φ200以上SBH组合式大径粗镗刀系列

Indexable Twin-bit Rough Boring Head SBH<Boring Rang Form φ25-φ204mm>

特色

- 1、通用φ200-φ1250mm大型孔径加工使用。
- 2、粗、精镗刀使用同基础组件，且可另选配附件搭配使用。加工调整范围为φ110mm。SBH600与SBH900调整范围为350mm。
- 3、粗镗刀，具有多种刀片选择，可适用于多种材质及加工方式。
- 4、精镗刀另有铝合金横向滑板，可选用来降低刀具重量。
- 5、另有外圆镗孔组件可选用，加工范围φ20-φ300mm。



Features

1. This type is suitable for large diameter boring with ranges from φ200mm to φ1250mm.
2. The structure includes common flange and extension slide for both rough and finish boring heads. Available can be optional accessories for different works. Adjustment range is within 110mm on diameter. The adjustment rang for bother SBH600 and SBH900 is 350mm.
3. Options of various inserts fou rough boring of different materials and boring styles.
4. Available is the horizontal slide made of Aluminum alloy to reduce total weight.
5. Option of external boring kit with boring range from φ20mm to φ300mm.

规格 Specifications

型号 Type		SBH 200	SBH 300	SBH 400	SBH 500	SBH 600	SBH 900	
镗头型号 Boring Head Type	长度 Length(mm)	130	130	130	130	150	150	
	整组重量 Total Weight(kg)	合金钢 Alloy Steel	9.5	11.5	13.5	15.5	33	43
		铝合金 Aluminum Alloy	7.2	8.0	8.8	9.6	16.0	20.7
加工直径 D(mm) Boring Diameter		200-310	300-410	400-510	500-610	600-910	900-1250	
组合型式 Module	接合刀杆 Taper Shank	BT50-BST/NT50-BST系列 BT50-BST/NT50-BST Series				BT50-FMA-47.625		
	连接器 Flange	BR200				BR600	BR900	
	重量(kg) Weight	合金钢 Alloy Steel	2.7kg			19	29	
		铝合金 Aluminum Alloy				8.8	13.5	
	横向滑板 Extension Slide	RST200		RST300	RST400	RST500	RST300X2板(pieces)	
	重量(kg) Weight	合金钢 Alloy Steel	3.4	5.4	7.4	9.4	10.8	
		铝合金 Aluminum Alloy	1.1	1.9	2.7	3.5	3.8	
	滑块 Clamp Base	RS200						
	重量(kg) Weight	0.98kg						
	刀片座垫片 Height Setting Shin	RS201						
重量(kg) Weight	0.05kg							
刀片座 Insert Holder	RB200C12	RB200T16	RB200T22	RB200S12				
适合刀片 Applicable Insert	CCMT120404	TCMT16T304	TCMT220404	SCMT120404				
重量(kg) Weight	0.68kg							

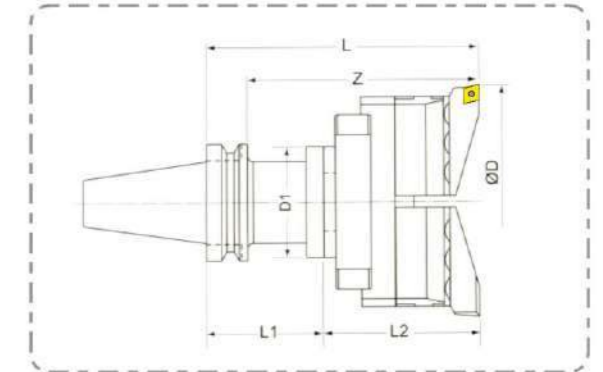
φ200以上SBH组合式大径双刃粗镗刀+BST刀柄 (MAS 403BT)

SBH Indexable Twin-bit Rough Boring Head For Large Hole Boring+BST Shank <MAS 403BT>

《镗孔范围 φ200-φ1250mm》

《Boring Range From φ200-φ1250mm》

镗头型号 Boring Head Type	接合型号 LBK No.	镗孔范围 φ Dmm Boring Range	镗头长度mm Length	刀片规格 Insert	重量 KG	
					合金钢 Alloy Steel	铝合金 Aluminum Alloy
SBH200-310 SBH300-410 SBH400-510 SBH500-610	BST series	200-310	130	(适配刀片座) Optional Inserts CCMT120408	9.5	7.2
		300-410			11.5	8.0
		400-510			13.5	8.8
		500-610			15.5	9.6
SBH600-910	FMA-47.625	600-910	150		33.0	16.0
SBH900-1250		900-1250			43.0	20.7



规格 Specifications

型号 Type	镗孔范围 φ ( Dmm)	有效长 Z	组合内容 Tool Connection		接合型号 LBK No	全长 L	刀杆长 L1	刀杆外径 D1	重量 KG	
			LBK刀杆 LBK shank	SBH刀柄 SBH boring head					合金钢 Alloy Steel	铝合金 Aluminum Alloy
BT50-SBH200-230	200-310	185	BT50-BST-100	SBH200	FMA 47.625	230	100	95	14.6	12.3
BT50-SBH200-280		235	BT50-BST-150			280	150		16.3	14
BT50-SBH200-330		285	BT50-BST-200			330	200		19	16.7
BT50-SBH200-380		335	BT50-BST-250			380	250		21	18.7
BT50-SBH200-430		385	BT50-BST-300			430	300		23	20.7
BT50-SBH200-480		435	BT50-BST-350			480	350		25	22.7
BT50-SBH200-530		485	BT50-BST-400			530	400		27	24.7
BT50-SBH300-230	300-410	185	BT50-BST-100	SBH300	FMA 47.625	230	100	95	16.6	13.1
BT50-SBH300-280		235	BT50-BST-150			280	150		18.3	14.8
BT50-SBH300-330		285	BT50-BST-200			330	200		21	17.5
BT50-SBH300-380		335	BT50-BST-250			380	250		23	19.5
BT50-SBH300-430		385	BT50-BST-300			430	300		25	21.5
BT50-SBH300-480		435	BT50-BST-350			480	350		27	23.5
BT50-SBH300-530		485	BT50-BST-400			530	400		29	25.5
BT50-SBH400-230	400-510	185	BT50-BST-100	SBH400	FMA 47.625	230	100	95	18.6	13.9
BT50-SBH400-280		235	BT50-BST-150			280	150		20.3	15.6
BT50-SBH400-330		285	BT50-BST-200			330	200		23	18.3
BT50-SBH400-380		335	BT50-BST-250			380	250		25	20.3
BT50-SBH400-430		385	BT50-BST-300			430	300		27	22.3
BT50-SBH400-480		435	BT50-BST-350			480	350		29	24.3
BT50-SBH400-530		485	BT50-BST-400			530	400		31	26.3
BT50-SBH500-230	500-610	185	BT50-BST-100	SBH500	FMA 47.625	230	100	95	20.6	14.7
BT50-SBH500-280		235	BT50-BST-150			280	150		22.3	16.4
BT50-SBH500-330		285	BT50-BST-200			330	200		25	19.1
BT50-SBH500-380		335	BT50-BST-250			380	250		27	21.1
BT50-SBH500-430		385	BT50-BST-300			430	300		29	23.1
BT50-SBH500-480		435	BT50-BST-350			480	350		31	25.1
BT50-SBH500-530		485	BT50-BST-400			530	400		33	27.1
BT50-SBH600-230	600-910	185	BT50-	SBH600	FMA 47.625	230	75	128	40	23
BT50-SBH900-230	900-1250		FMA47.625-75	SBH900					50	27.7

### SBH非标类粗镗刀

微调结构



特色

1. 采用独特高低差形式，1个刀座采用微调结构设计。
2. 适用于余量适中，精度要求低的零件。
3. 粗精镗一次完成加工，效率要求低的零件。

Features

1. Adopt the unique shape of height difference, the insert holder use the fine-tune structure.
2. Suitable for workpiece of moderate margin and low accuracy.
3. Finish the rough boring and fine boring in one time, with high efficiency, low cost.



特色

1. 自主研发刀粒经济实用成本低效率高。
2. 采用SN型刀粒，每个刀粒可更换8次使用。
3. 适用于200以上的大径切削镗孔。

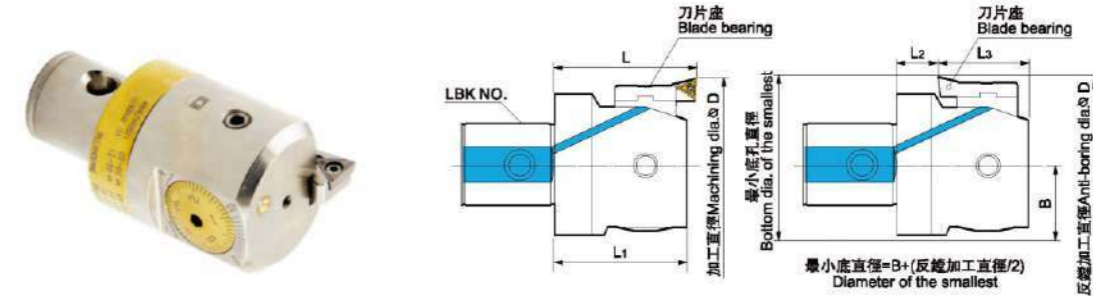
Features

1. Originally created and independently researched and developed by LPK, economical and practical, with low cost and high efficiency.
2. Use SN type inserts, every insert is replaceable for 8 times when using.
3. Suitable for boring holes of large diameter above  $\phi 200\text{mm}$

### WBH微调式精镗刀系列 WBH adjustable fine boring knife

有预平衡设计，可获得稳定的加工精度。  
There are pre-balanced design, availability and stability of the machining accuracy.

标准对应反镗工加工，适用范围广，增大附加价值。  
Standard corresponding to the anti-boring work processing, using a wide range of increasing added value.



### 规格 Specifications

型号 Type	接口型号 LBK NO	刀片座 Blade Block	正镗 Is boring			反镗 Anti-boring				重量 KG	适用刀片 Blade
			加工范围	L	L1	加工范围	L2	L3	B		
WBH20-36 LBK1	LBK1	WBH1-1	20-26	32	29.5	---	10.5	19	10	0.07	TP08/M2.2/T7
		WBH1-2	25-31			30-31					
		WBH1-3	30-36			30-36					
WBH25-47 LBK2	LBK2	WBH2-1	25-33	32	29.5	---	11.5	21	12.5	0.12	
		WBH2-2	32-40			36-40					
		WBH2-3	39-47			39-47					
WBH32-60 LBK3	LBK3	WBH3-1	32-42	38	35	---	10	25	16	0.21	
		WBH3-2	41-51			46-51					
		WBH3-3	50-60			50-60					
WBH41-74 LBK4	LBK4	WBH4-1	41-54	46	43	---	14	29	20	0.40	
		WBH4-2	50-63			53-63					
		WBH4-3	61-74			61-74					
WBH53-95 LBK5	LBK5	WBH5-1	53-70	56	53	62-70	19	34	25.5	1.10	
		WBH5-2	65-82			65-82					
		WBH5-3	78-95			78-95					
WBH68-150 LBK6	LBK6	WBH6-1	88-100	71	67.2	80-100	22	45.2	32.5	1.74	
		WBH6-2	94-126			94-126					
		WBH6-3	118-150			118-150					
WBH100-203 LBK6	LBK6	WBH6-1	100-153	78	67.2	112-153	22	45.2	45.5	2.46	
		WBH6-2	126-179			126-179					
		WBH6-3	150-203			150-203					
WBH150-253 LBK6	LBK6	WBH6-1	150-203	88	67.2	162-203	22	45.2	70.5	4.20	
		WBH6-2	176-229			176-229					
		WBH6-3	200-253			200-253					

### 刀片座 PAT.P



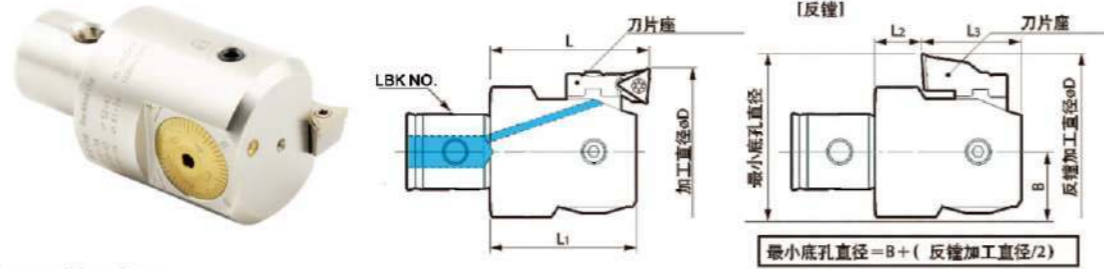
**注意** WBH镗头自身允许最高切削速度为1200m/min，但实际加工时还与基础镗的长短、机器及工件的刚性等周边条件有关。请再容许范围内选择最合适的加工条件。

型号	形状图	对应镗头	型号	形状图	对应镗头	型号	形状图	对应镗头
WBH1-1	[Diagram]	WBH20-36	WBH4-1	[Diagram]	WBH41-74	WBH1-1E	[Diagram]	WBH41-74
WBH1-2			WBH4-2			WBH1-2E		
WBH1-3			WBH4-3			WBH1-3E		
WBH2-1	[Diagram]	WBH25-47	WBH5-1	[Diagram]	WBH53-95	WBH2-1E	[Diagram]	WBH53-95
WBH2-2			WBH5-2			WBH2-2E		
WBH2-3			WBH5-3			WBH2-3E		
WBH3-1	[Diagram]	WBH32-60	WBH6-1	[Diagram]	WBH68-150 WBH68-150 WBH100-203 WBH150-253	WBH3-1E	[Diagram]	WBH68-150 WBH68-150 WBH100-203 WBH150-253
WBH3-2			WBH6-2			WBH3-2E		
WBH3-3			WBH6-3			WBH3-3E		

不附带刀片，请另外订购。

CBH微调式精镗刀系列  
CBH adjustable fine boring knife

有预平衡设计，可获得稳定的加工精度。  
There are pre-balanced design, availability and stability of the machining accuracy.  
标准对应反镗工加工，适用范围广，增大附加价值。  
Standard corresponding to the anti-boring work processing, using a wide range of increasing added value.



规格 Specifications

型号 Tape	接口型号 LBK NO	刀片座 Blade Block	正镗 Is boring			反镗 Anti-boring				重量 KG	适用刀片 Blade
			加工范围	L	L1	加工范围	L2	L3	B		
CBH20-36 LBK1	LBK1	WBH1-1 WBH1-2 WBH1-3	20-26	32	29.5	--	10.5	19	10	0.07	TP08/M2.2/T7
			25-31			30-31					
			30-36			30-36					
CBH25-47 LBK2	LBK2	WBH2-1 WBH2-2 WBH2-3	25-33	32	29.5	--	11.5	21	12.5	0.12	
			32-40			36-40					
			39-47			39-47					
CBH32-60 LBK3	LBK3	WBH3-1 WBH3-2 WBH3-3	32-42	38	35	--	10	25	16	0.21	
			41-51			46-51					
			50-60			50-60					
CBH41-74 LBK4	LBK4	WBH4-1 WBH4-2 WBH4-3	41-54	46	43	--	14	29	20	0.40	
			50-63			53-63					
			61-74			61-74					
CBH53-95 LBK5	LBK5	WBH5-1 WBH5-2 WBH5-3	53-70	56	53	62-70	19	34	25.5	1.10	
			65-82			65-82					
			78-95			78-95					
CBH68-150 LBK6	LBK6	WBH6-1 WBH6-2 WBH6-3	68-100	71	67.2	80-100	22	45.2	32.5	1.74	TP11/M3/T8 TC11/M2.5/T8
			94-126			94-126					
			118-150			118-150					
CBH100-203 LBK6	LBK6	WBH6-1 WBH6-2 WBH6-3	100-153	78	67.2	112-153	22	45.2	45.5	2.46	
			126-179			126-179					
			150-203			150-203					
CBH150-253 LBK6	LBK6	WBH6-1 WBH6-2 WBH6-3	150-203	88	67.2	162-203	22	45.2	70.5	4.20	
			176-229			176-229					
			200-253			200-253					

**注意** WBH镗头自身允许最高切削速度为1200m/min，但实际加工时还与基础柄的长度、机器及工件的刚性等周边条件有关。请再容许范围内选择最合适的加工条件。

刀片座 PAT.P

型号	形状图	对应镗头	型号	形状图	对应镗头	型号	形状图	对应镗头
WBH1-1		WBH20-36	WBH4-1		WBH41-74	WBH1-1E		WBH41-74
WBH1-2			WBH4-2			WBH1-2E		
WBH1-3			WBH4-3			WBH1-3E		
WBH2-1		WBH25-47	WBH5-1		WBH53-95	WBH2-1E		WBH53-95
WBH2-2			WBH5-2			WBH2-2E		
WBH2-3			WBH5-3			WBH2-3E		
WBH3-1		WBH32-60	WBH6-1		WBH68-150 WBH68-150 WBH100-203 WBH150-253	WBH3-1E		WBH68-150 WBH68-150 WBH100-203 WBH150-253
WBH3-2			WBH6-2			WBH3-2E		
WBH3-3			WBH6-3			WBH3-3E		

不附带刀片，请另外订购。

WBH(CBH) 微调式精镗刀组合系列  
WBH(CBH) adjustable fine boring knife

型号 Tape	样式 Fig.	有效长 Z	组合内容 Tool Connection		接合型号 LBK No	全长 L	刀杆长 L1	刀杆外径 D1	重量 KG
			LBK刀杆 LBK shank	WBH刀座 WBH boring head					
BT30-WBH20-105	2	75	BT30-LBK1-70	WBH20	1	100	70	19	0.6
BT30-WBH25-120			BT30-LBK2-80	WBH25	2	115	80	24	0.8
BT30-WBH32-120			BT30-LBK3-80	WBH32	3		31	1.0	
BT30-WBH41-120		BT30-LBK4-70	WBH41	4	70		39	1.3	
BT30-WBH53-120		BT30-LBK5-60	WBH53	5	60	50	1.8		
BT30-WBH68-130		BT30-LBK6-60	WBH68	6	125	64	3.0		
BT40-WBH20-110	2	75	BT40-LBK1-75	WBH20	1	105	75	19	1.1
BT40-WBH20-140		105	BT40-LBK1-105	WBH25	2	135	105	24	1.3
BT40-WBH25-125		90	BT40-LBK2-85		120	85	1.3		
BT40-WBH25-155		120	BT40-LBK2-115		150	115	1.6		
BT40-WBH32-135		100	BT40-LBK3-95	WBH32	3	130	95	31	1.5
BT40-WBH32-165		130	BT40-LBK3-125		160	125	1.8		
BT40-WBH32-195		160	BT40-LBK3-155		190	155	2.0		
BT40-WBH41-135		100	BT40-LBK4-85	WBH41	4	130	85	39	1.8
BT40-WBH41-180		145	BT40-LBK4-130		175	130	2.4		
BT40-WBH41-225		190	BT40-LBK4-175		220	175	2.7		
BT40-WBH53-135		100	BT40-LBK5-75	WBH53	5	130	75	50	2.3
BT40-WBH53-185		150	BT40-LBK5-125		180	125	3.3		
BT40-WBH53-235	200	BT40-LBK5-175	230		175	4.0			
BT40-WBH68-135	100	BT40-LBK6-65	WBH68	6	130	65	64	3.3	
BT40-WBH68-185	150	BT40-LBK6-115			180	115	4.7		
BT40-WBH68-235	200	BT40-LBK6-165			230	165	5.9		
BT40-WBH100-135	100	BT40-LBK6-65	WBH100	5	130	65	64	4.2	
BT40-WBH100-185	150	BT40-LBK6-115			180	115	5.6		
BT40-WBH100-235	200	BT40-LBK6-165			230	165	6.8		
BT50-WBH20-150	1	75	BT50-LBK1-115	WBH20	1	145	115	31/19	4.1
BT50-WBH20-180		105	BT50-LBK1-145	WBH25	2	175	145	24	4.2
BT50-WBH25-150		105	BT50-LBK2-110		145	110	4.1		
BT50-WBH25-180		135	BT50-LBK2-140		175	140	4.2		
BT50-WBH32-165		120	BT50-LBK3-125	WBH32	3	160	125	31	4.4
BT50-WBH32-195		150	BT50-LBK3-155		190	155	4.5		
BT50-WBH41-165		120	BT50-LBK4-115		WBH41	4	160	115	39
BT50-WBH41-195		150	BT50-LBK4-145	190		145	4.9		
BT50-WBH41-225		180	BT50-LBK4-175	220		175	5.3		
BT50-WBH41-255		210	BT50-LBK4-205	WBH53	5	220	205	50	5.4
BT50-WBH53-165		120	BT50-LBK5-105			160	108	5.5	
BT50-WBH53-240		195	BT50-LBK5-180			235	180	6.5	
BT50-WBH53-300	255	BT50-LBK5-240	295	240	7.2				
BT50-WBH53-360	1	255	BT50-LBK5-300	355	300	64/50	8.6		
BT50-WBH68-165	120	BT50-LBK6-95	WBH68	6	160	95	64	6.5	
BT50-WBH68-240	195	BT50-LBK6-170			235	170	8.3		
BT50-WBH68-300	255	BT50-LBK6-230			295	230	9.6		
BT50-WBH68-360	315	BT50-LBK6-290	355	290	11.0				
BT50-WBH68-420	1	375	BT50-LBK6-350	415	350	90/64	15.5		
IBT50-WBH68-420	2	375	IBT50-LBK6-350	415	350	64	13.2		
BT50-WBH100-165	120	BT50-LBK6-95	WBH100	6	160	95	64	7.4	
BT50-WBH100-240	195	BT50-LBK6-170			235	170	9.2		
BT50-WBH100-300	255	BT50-LBK6-230			295	230	10.5		
BT50-WBH100-360	315	BT50-LBK6-290	355	290	11.9				
BT50-WBH100-420	1	375	BT50-LBK6-350	415	350	90/64	16.4		
IBT50-WBH100-420	2	375	IBT50-LBK6-350	415	350	64	14.1		
BT50-WBH150-165	120	BT50-LBK150-165	WBH150	6	165	95	64	8.7	
BT50-WBH150-240	195	BT50-LBK150-240			240	170	10.5		
BT50-WBH150-300	255	BT50-LBK150-300			300	230	11.8		
BT50-WBH150-360	315	BT50-LBK150-360	360	290	13.2				
BT50-WBH150-420	1	375	BT50-LBK150-420	420	350	90/64	17.7		
IBT50-WBH150-420	2	375	IBT50-LBK150-420	420	350	64	15.4		

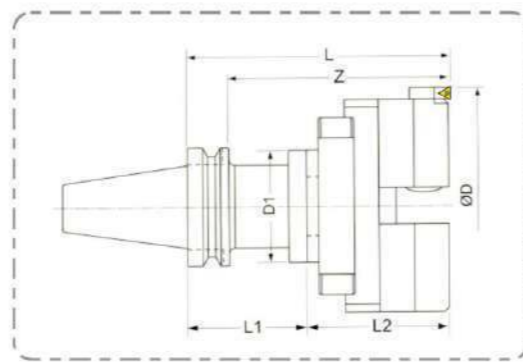
### φ200以上WBH大孔径微调精镗刀+BST刀柄 (MAS 403BT)

WBH Large Diameter Modular Finish Boring Head+BST Shank(MAS 403BT)

《镗孔范围 φ200-φ1250mm》

《Boring Range from φ200-φ1250mm》

镗头型号 Boring Head Type	接合型号 LBK No.	镗孔范围 φ Dmm Boring Range	镗头长度 L2 mm	刀片规格/螺丝/扳手 Insert/ Clamp Screw/ Wrench	重量 KG	
					合金钢 Alloy Steel	铝合金 Aluminum Alloy
WBH200	BST系列 BST series	200~310	130	TC11/M2.5/T8	9.7	7.0
WBH300		300~410			11.7	7.8
WBH400		400~510			13.7	8.6
WBH500		500~610			15.7	9.4
WBH600	FMA-47.625	600~910	150	TP11/M3.0/T8	33.0	15.8
WBH900		900~1250			43.0	20.5



#### 规格 Specifications

型号 Tape	镗孔范围 φ ( Dmm)	有效长 Z	组合内容 Tool Connection		接合型号 LBK No	全长 L	刀杆长 L1	刀杆外径 D1	重量 KG	
			LBK刀杆 LBK shank	WBH刀头 WBH boring head					合金钢 Alloy Steel	铝合金 Aluminum Alloy
BT50-WBH200-230	200~310	185	BT50-BST-100	WBH200	BST	230	100	95	14.8	12.1
BT50-WBH200-280		235	BT50-BST-150			16.5	13.8			
BT50-WBH200-330		285	BT50-BST-200			19.2	16.5			
BT50-WBH200-380		335	BT50-BST-250			21.2	18.5			
BT50-WBH200-430		385	BT50-BST-300			23.2	20.5			
BT50-WBH200-480		435	BT50-BST-350			25.2	22.5			
BT50-WBH200-530		485	BT50-BST-400			27.2	24.5			
BT50-WBH300-230	300~410	185	BT50-BST-100	WBH300	BST	230	100	95	16.8	12.9
BT50-WBH300-280		235	BT50-BST-150			18.5	14.6			
BT50-WBH300-330		285	BT50-BST-200			21.2	17.3			
BT50-WBH300-380		335	BT50-BST-250			23.2	19.3			
BT50-WBH300-430		385	BT50-BST-300			25.2	21.3			
BT50-WBH300-480		435	BT50-BST-350			27.2	23.3			
BT50-WBH300-530		485	BT50-BST-400			29.2	25.3			
BT50-WBH400-230	400~510	185	BT50-BST-100	WBH400	BST	230	100	95	18.8	13.7
BT50-WBH400-280		235	BT50-BST-150			20.5	15.4			
BT50-WBH400-330		285	BT50-BST-200			23.2	18.1			
BT50-WBH400-380		335	BT50-BST-250			25.2	20.1			
BT50-WBH400-430		385	BT50-BST-300			27.2	22.1			
BT50-WBH400-480		435	BT50-BST-350			29.2	24.1			
BT50-WBH400-530		485	BT50-BST-400			31.5	26.1			
BT50-WBH500-230	500~610	185	BT50-BST-100	WBH500	BST	230	100	95	20.8	14.5
BT50-WBH500-280		235	BT50-BST-150			22.5	16.2			
BT50-WBH500-330		285	BT50-BST-200			25.2	18.9			
BT50-WBH500-380		335	BT50-BST-250			27.2	20.9			
BT50-WBH500-430		385	BT50-BST-300			29.2	22.9			
BT50-WBH500-480		435	BT50-BST-350			31.2	24.9			
BT50-WBH500-530		485	BT50-BST-400			33.2	26.9			
BT50-WBH600-230	600~910	185	BT50-	WBH600	FMA	230	75	128	40.0	22.8
BT50-WBH900-230	900~1250	185	FMA47.625-75	WBH900	47.625	230	75	128	50.0	27.5

了解具体库存情况请致电厂家 详情请登陆网站www.hnsant.com

### WBJ16微调精镗孔系统

WBJ16 Fine-tune the Precision Boring System



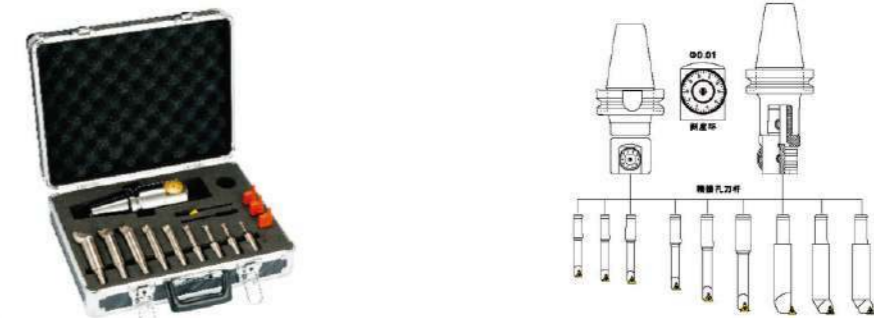
#### 规格 Specifications

型号 Cat. No	镗孔范围 Boring Range	调整精度 Tuning precision	调整行程 Stroke	重量 Weight ( KG )
WBJ 16	φ6 - φ51	φ0.01mm/格	6.0mm	1.2

型号 Cat. No	镗孔范围 Boring Range	D	DM	L	适用刀片 Applicable inserts	螺钉 Clamp screw	扳手 spanner	重量 Weight ( KG )
SBJ1606-24 (选配)	6~9	16	24	73	WBGTO601..L	M2X4	T6	0.014
SBJ1608-32	8~11		32	80	TBGT0801..L	M2X5		0.077
SBJ1610-40	10~13		40	87				0.082
SBJ1612-53	12~15		53	98	TPGH0902..L	M2.5X6	T8	0.095
SBJ1616-68	16~21		68	110				0.143
SBJ1620-83	20~26		83	125				0.203
SBJ1625-90	25~31		90	128				0.275
SBJ1630-90	30~41		90	128	TPGH1103..L	M3.0X7	T8	0.275
SBJ1640-90	40~51		90	128				0.286

### WBJ16 微调精镗孔系统 (含8只镗杆)

WBJ16 Fine-tune the Precision Boring System (8PCS)



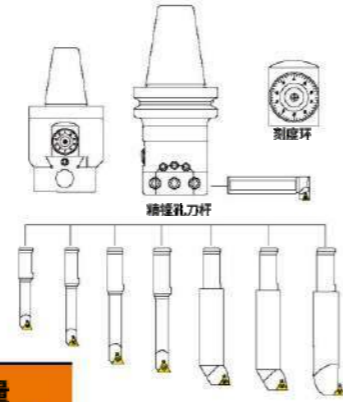
#### 规格 Specifications

型号 Cat. No	镗孔范围 Boring Range	主轴柄规格 Spindle handle models	镗头型号 Head NO	镗刀杆 Bar keep out	重量 Weight ( KG )
BT40-WBJ16-8P	6-51	BT40-LBK6-55	WBJ16	WBJ-16..	9.1
BT50-WBJ16-8P	6-51	BT50-LBK6-65		WBJ-16..	11.7
NT40-WBJ16-8P	6-51	NT40-LBK6-55		WBJ-16..	8.5
NT50-WBJ16-8P	6-51	NT50-LBK6-65		WBJ-16..	10.3
SK40-WBJ16-8P	6-51	SK40-LBK6-55		WBJ-16..	8.9
SK50-WBJ16-8P	6-51	SK50-LBK6-65		WBJ-16..	10.5

了解具体库存情况请致电厂家 详情请登陆网站www.hnsant.com

### NBH2084 微调精镗孔系统

NBH2084 Fine-tune the Precision Boring System



#### 规格 Specifications

型号 Cat. No	镗孔范围 Boring Range	调整精度 Tuning precision	调整行程 Stroke	重量 Weight (KG)
NBH2084	Φ8~Φ280	Φ0.01mm/格	28.0mm	3.0

型号 Cat. No	镗孔范围 Boring Range	D	L1	L	适用刀片 Applicable inserts	螺钉 Clamp screw	扳手 spanner	重量 Weight (KG)
SBJ2008-32	8~11	20	32	80	TBGT0601..L	M2.0X5	T6	0.095
SBJ2010-40	10~13		40	87	TPGH0902..L	M2.5X6	T8	0.095
SBJ2012-53	12~17		53	98				0.12
SBJ2016-68	16~21		68	110	TPGH1103..L	M3.0X7	T8	0.16
SBJ2020-83	20~130		83	123				0.22
SBJ2025-96	25~135		96	137				0.34
SBJ2030-115	30~140		115	152				0.54
SBJ20-L20-100	120~280		84+BTL1	100				0.23

### NBH2084 微调精镗孔系统 (套装)

NBH2084 Fine-tune the Precision Boring System(Set)



#### 规格 Specifications

型号 Cat. No	镗孔范围 Boring Range	主轴柄规格 Spindle handle models	镗头型号 Head NO	镗刀杆 Bar keep out	重量 Weight (KG)
BT40-NBH2084-8P	08~280	BT40-NBH-50	NBH2084	WBJ-20..	9.5
BT50-NBH2084-8P	08~280	BT50-NBH-55			12.0
NT40-NBH2084-8P	08~280	NT40-NBH-50			9.3
NT50-NBH2084-8P	08~280	NT50-NBH-55			10.8
SK40-NBH2084-8P	08~280	SK40-NBH-50			9.5
SK50-NBH2084-8P	08~280	SK50-NBH-55			12.0
R8-NBH2084-8P	08~280	R8-NBH-50			10.0

### 可接受以下各种组合非标刀具定制

侧固式



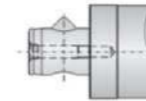
2° 侧固



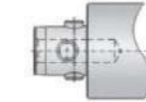
7:24接口



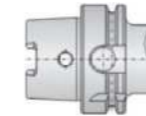
TMG21接口



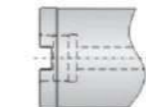
KB接口



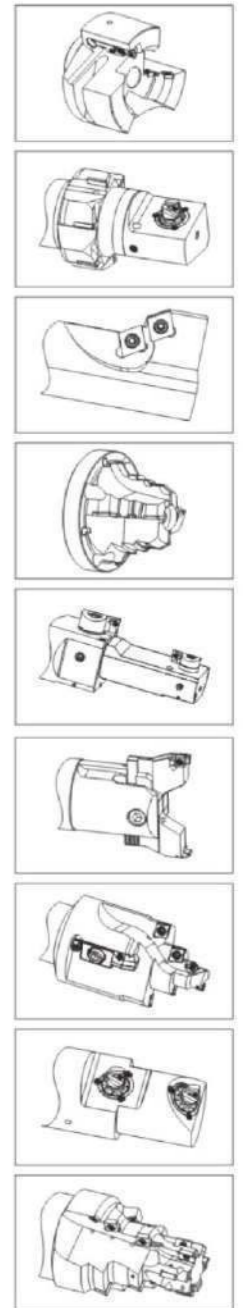
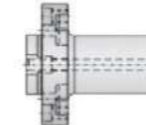
HSK



面铣刀接口



XME接口



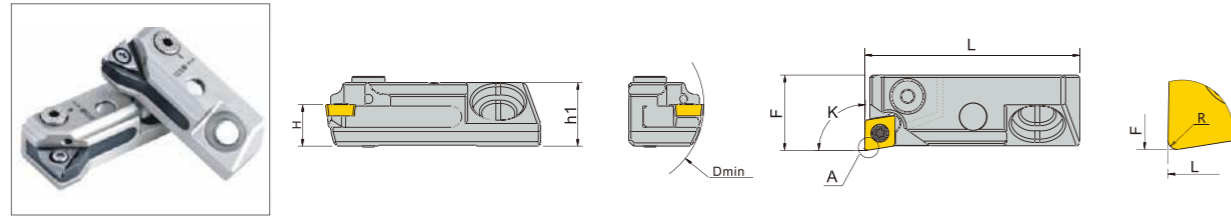
#### 非标镗刀技术特点:

- 任意组合  
各部分在一定范围内可以进行任意组合, 形成组合镗削刀具。
- 多种工序  
多种工序可组合在一把刀具内, 并且可在一次进给内完成。
- 灵活件  
镗削单元可由刀片、小刀夹、精镗单元等切削单元根据需要任意组合成组合镗刀。



# 微调刀座

Mini Adjustable Cartridge



★ 刀具规格型号 Type of milling tools

型号 Type		基本尺寸 (mm) Dimension							适用刀片 Suitable Insert
右手型号 Right hand	左手型号 Left hand	K	H	F	L	h1	Dmin	R	
STR90 F16.CC06	STL90 F16.CC06	90	8.8	16	45.6	13.5	28	0.4	CC.0602..
STR95 F16.CC06	STL95 F16.CC06	95	8.8	16	45.6	13.5	28	0.4	CC.0602..
STR90 F16.TP09	STL90 F16.TP09	90	8.8	16	45.6	13.5	28	0.4	TP.0902..
STR95 F16.TP09	STL95 F16.TP09	95	8.8	16	45.6	13.5	28	0.4	TP.0902..
STR90 F20.TC11	STL90 F20.TC11	90	8.8	20	45.6	13.5	36	0.4	TC..1102..
STR95 F20.TC11	STL95 F20.TC11	95	8.8	20	45.6	13.5	36	0.4	TC..1102..
STR90 F20.TP11	STL90 F20.TP11	90	8.8	20	45.6	13.5	36	0.4	TP..1103..
STR95 F20.TP11	STL95 F20.TP11	95	8.8	20	45.6	13.5	36	0.4	TP..1103..
STR30 F16.DC07	STL30 F16.DC07	120	8.8	16	48.5	13.5	28	0.4	DC..0702..

- 刀片请根据不同材料单独订购。 Inserts with different materials should be ordered separately
- 常备库存有左手和右手型号。 There are right and left hand specifications available in stock.
- 微调精度直径 0.01mm、半径 0.005mm。 The adjustment: 0.01 mm on diameter and 0.005mm on radius.
- 径向最大调整量直径 0.6mm, 轴向调整量 1mm。 The adjustment range: 0.6mm on diameter by radial direction, 1 mm on diameter by axial direction.

## 备件

Spare Parts



刀片型号 Insert	刀片锁紧螺钉 Clamping screw insert	轴向调整螺钉 Axial adjusting screw	刀座锁紧螺钉 Clamping screw for cartridge	轴向调整环 Axial adjusting ring	刀片锁紧扳手 Allen key for clamping screw	径向调整扳手 Allen key for radial adjusting	压紧扳手 Allen key for clamping	径向调整扳手 Allen key for radial adjusting
CC..0602..	SR21 M2.5x5.3	SR57 M5X16	SR55 M5x20	HFX.3	KEY02 T7	KEY01 M2.5	KEY01 M4	KEY01 M3
TP..0902..	SR22 M2.5x6	SR57 M5X16	SR55 M5x20	HFX.3	KEY02 T8	KEY01 M2.5	KEY01 M4	KEY01 M3
TC..1102..	SR21 M2.5x5.3	SR57 M5X16	SR55 M5x20	HFX.3	KEY02 T7	KEY01 M2.5	KEY01 M4	KEY01 M3
TP..1103..	SR22 M3x6	SR57 M5X16	SR55 M5x20	HFX.3	KEY02 T8	KEY01 M2.5	KEY01 M4	KEY01 M3

# 微调刀座安装尺寸

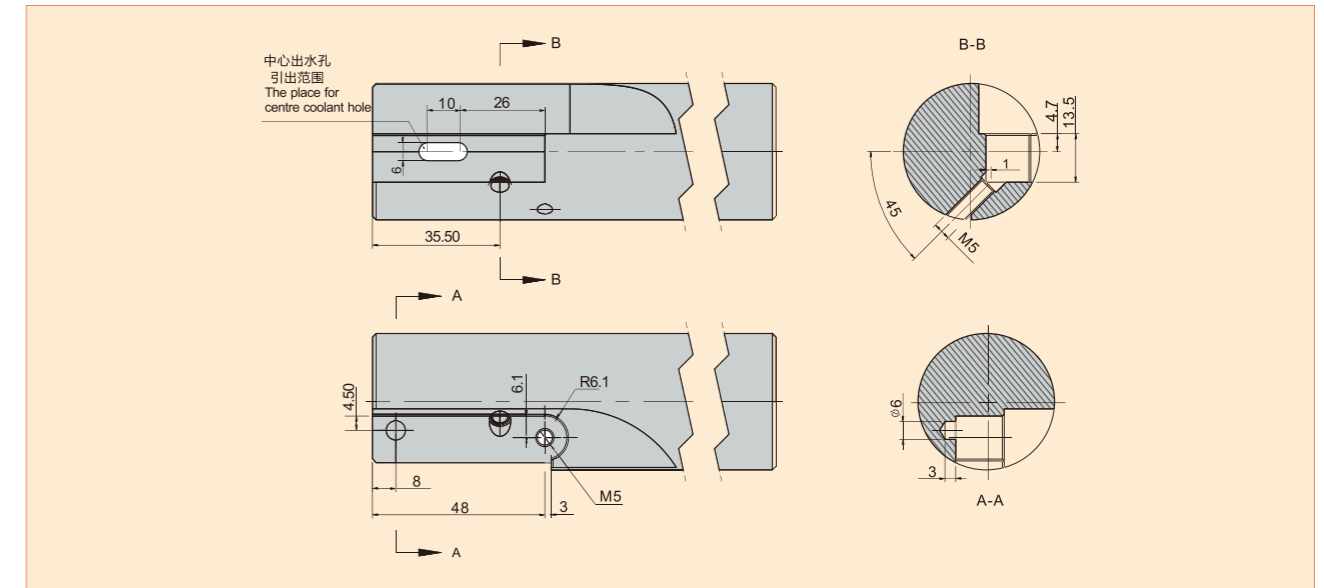
Assembly Instruction for Mini Adjustable Cartridge

图示按照右手 R.H 刀座的方向设置。 The figure is for the right hand specification.

使用左手 L.H 刀座时请按照镜像的方式设置。 For the left hand specification, please refer to the opposite figure. Setting Instruction

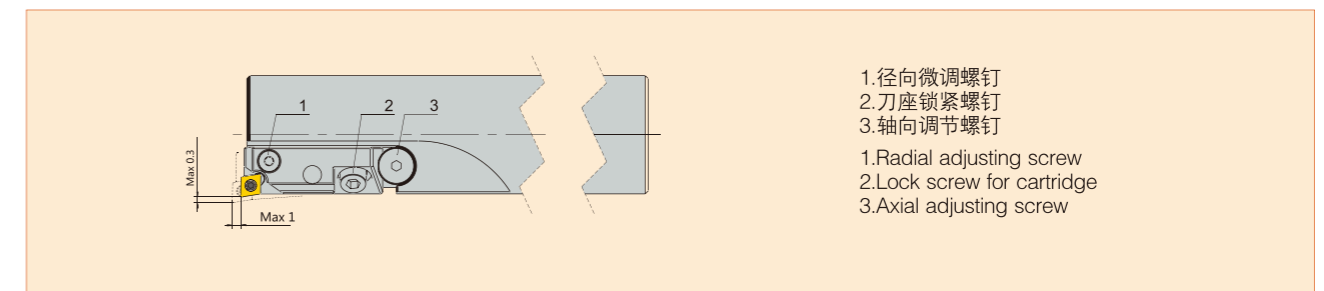
## 刀座安装尺寸

Assembly Instruction



## 刀座调节方法

Adjustment Instruction



## 轴向调节方法

Adjusting on axial direction

- 稍微松开刀座锁紧螺钉 2。
- 顺时针旋转轴向调节螺钉 3, 刀座向前移动至需要的尺寸。
- 夹紧刀座锁紧螺钉 2。
- Loosening the 2# lock screw lightly.
- Rotating the 3# axial adjusting screw on the anticlockwise direction, so that the cartridge can be moved forward to the required size.
- Tightening the 2# lock screw firmly.

注意: 如果刀座需要向后调节, 应当松开刀座锁紧螺钉, 并把刀座移动到后面, 然后逐渐向前调节直到需要的尺寸。

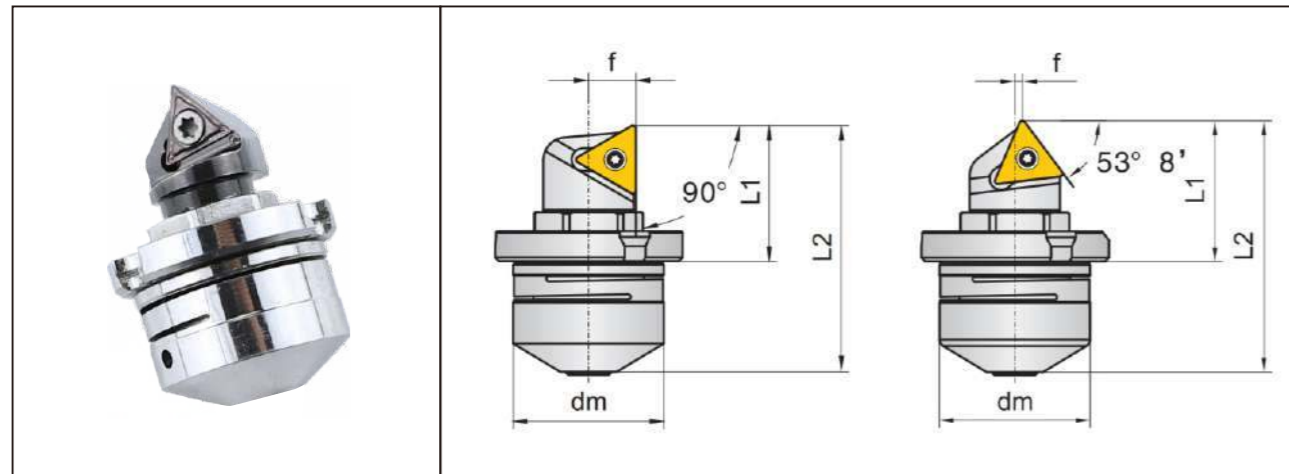
Note: If the cartridge should be moved backward, please loosen the lock screw, and then move the cartridge to the back, finally adjust the cartridge to forward little by little to meet the required size.

## 刀具直径调节方法

Adjusting on radial direction

- 顺时针方向旋转径向调节螺钉 1, 刀具直径逐渐变大。
- 逆时针方向旋转径向调节螺钉 1, 刀具直径逐渐变小。
- 径向微调螺钉调节是每旋转一个刻度, 刀具直径变化 0.01mm。
- Rotating the 1# radial adjusting screw on the clockwise direction, so that the diameter of tool will be larger and larger.
- Rotating the 1# radial adjusting screw on the anticlockwise direction, so that the diameter of tool will be smaller and smaller.
- The adjustment on diameter: 0.01mm as per dial.

## R/L 148C 精镗单元



★ 调节量 (尺寸): 0.02mm/格

左手刀图例

型号 Type	基本尺寸 (mm) Dimension						刀片 Insert	螺钉 Screw	扳手 Wrench
	dm	l1	l2min	f	Dmin	Rmax			
L148C-11-0602	16	10.1	24.1	5.1	27.6	2.5	CC..060204	L60 M2.5X5.2	T8
L148C-12-0902	20	14.3	32.9	6.3	37.1	3.5	TC..090204	L60 M2.2X5.0	T6
L148C-13-1102	22	17.1	44.3	7.2	49.1	6	TC..110204	L60 M2.5X5.2	T8
L148C-14-16T3	32	25.7	62.7	10.3	69	10	TC..16T308	L60 M4X8	T15
L148C-31-0602	16	11.3	25.15	0.45	25.9	2	CC..060204	L60 M2.5X5.2	T8
L148C-32-0902	20	15.3	33.7	0.9	33.1	2.8	TC..090204	L60 M2.2X5.0	T6
L148C-33-1102	22	18	45.3	1.1	42.6	4.8	TC..110204	L60 M2.5X5.2	T8
L148C-34-16T3	32	27	62.3	1.2	60	8	TC..16T308	L60 M4X8	T15

· L2 系刀尖圆弧为r=0 时尺寸  
· 定货示例: 1件L148C-11-0602

## R/L 148C 精镗单元

### 特点:

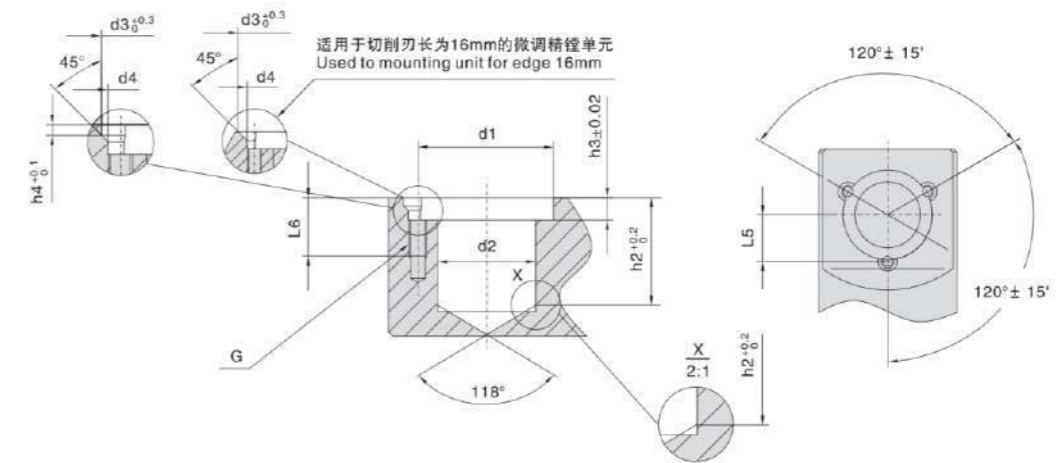
- 能加工盲孔
- 从前端调整
- 镗头具有自锁性, 即在调整前不需解锁, 调整后不需锁紧。

### 注意:

- 调整倾斜安装精镗单元时, 调整刀具径向尺寸时, 刀具轴向位移量=径向位移量/tan 53° 8'
- 不要将精镗单元调出相应精镗单元的最大调整范围, 如果超出调整范围, 精镗单元可能因此而损坏。

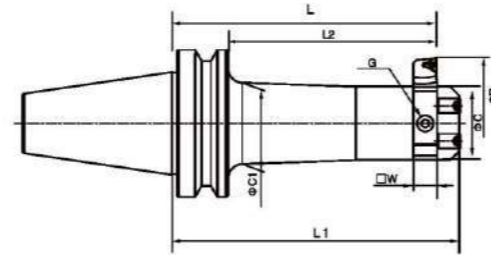


### 精镗单元安装尺寸



型号	h2	h3	h4	d1	d2	d3	d4	G	l6	l5
L148C-xx-0602	11.5	2.8	1.9	19	16	4.6	3.2	M3	9	9.8±0.02
L148C-xx-0902	15.5	4.0	1.6	25	20	4.6	3.2	M3	9	12.5±0.02
L148C-xx-1102	24.0	5.0	1.8	30	22	6.5	4.3	M4	13	15.4±0.02
L148C-xx-16T3	33.0	6.3	-	46	32	11.9	5.4	M5	16	23.0±0.02

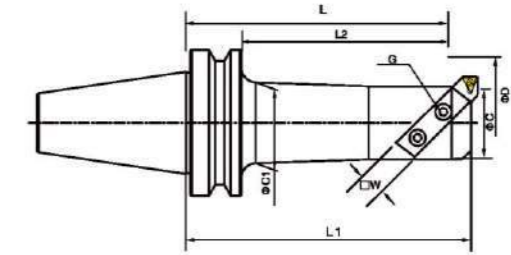
**BT-BSB 90° 直角粗镗刀**  
BT-BSB 90° angle Rough Boring Tool



型号 Cat. No	范围 $\phi D$		L	L1	L2	L3	$\phi C$	$\phi C1$	W	G	净重 KG
	min	max									
BT40-BSB 25-135	25	52	135	150	105	50	20	22	8	M8	1.5
BT40-BSB 38-165	38	70	165	180	135	70	30	33	10	M10	2.0
BT40-BSB 50-165	50	90	165	180	135	85	40	44	13	M10	2.8
BT40-BSB 50-210	50	90	210	225	180	85	40	44	13	M10	3.3
BT40-BSB 62-165	62	115	165	180	135	—	50	—	16	M10	4.0
BT40-BSB 62-225	62	115	225	240	195	95	50	56	16	M10	5.0
BT40-BSB 72-165	72	135	165	180	135	—	60	—	19	M10	4.8
BT40-BSB 72-225	72	135	225	240	195	—	60	—	19	M10	6.1
BT40-BSB 90-165	90	150	165	180	135	60	75	—	19	M12	7.1
BT40-BSB 90-210	90	150	210	225	180	60	75	—	19	M12	9.0
BT50-BSB 25-135	25	52	135	150	92	50	20	22	8	M8	4.3
BT50-BSB 38-180	38	70	180	195	137	70	30	32	10	M10	4.9
BT50-BSB 50-180	50	90	180	195	137	85	40	44	13	M10	5.5
BT50-BSB 50-240	50	90	240	255	197	85	40	44	13	M10	5.8
BT50-BSB 62-195	62	115	195	210	152	95	50	56	16	M10	6.4
BT50-BSB 62-270	62	115	270	285	227	95	50	56	16	M10	7.8
BT50-BSB 72-195	72	135	195	210	152	110	60	66	19	M10	7.3
BT50-BSB 72-285	72	135	285	300	242	110	60	66	19	M10	9.6
BT50-BSB 90-210	90	150	210	225	167	130	75	80	19	M12	9.7
BT50-BSB 90-300	90	150	300	315	257	130	75	80	19	M12	12.8
BT50-BSB105-195	105	190	195	210	152	—	90	—	25	M12	11.4
BT50-BSB105-285	105	190	285	300	242	150	90	94	25	M12	15.7

粗镗刀适于通孔，也可用来反镗  
Boring Bar for rough cutting best suiting through-hole boring. Also app<sup>l</sup> cable to counter bore spot facing.

**BT-BSA 45° 斜角粗镗刀**  
BT-BSA 45° oblique angle rough boring tool

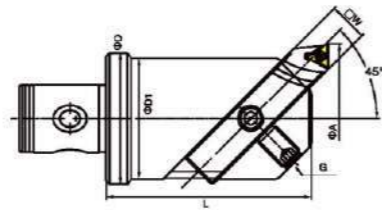


型号 Cat. No	范围 $\phi D$		L	L1	L2	L3	$\phi C$	$\phi C1$	W	G	净重 KG
	min	max									
BT30-BSA25-120	25	38	120	92	—	1	20	—	8	M6	0.8
BT30-BSA30-150	30	42	150	121	—	1.6	24	—	8	M6	1.0
BT30-BSA38-165	38	52	165	135	—	2.6	30	—	10	M8	1.4
BT30-BSA42-165	42	56	165	138	—	2	34	—	10	M8	1.7
BT40-BSA25-135	25	38	135	105	35	1	20	22	8	M6	1.4
BT40-BSA30-135	30	42	135	105	40	1.6	24	26	8	M6	1.6
BT40-BSA 38-165	38	52	165	133	50	2.6	30	33	10	M8	2.9
BT40-BSA42-180	42	56	180	148	60	2	34	37	10	M8	2.4
BT40-BSA50-165	50	65	165	133	65	3	40	44	13	M10	3.7
BT40-BSA50-210	50	65	210	178	65	3	40	44	13	M10	3.2
BT40-BSA62-165	62	90	165	133	—	2	50	—	16	M10	4.9
BT40-BSA62-225	62	90	225	193	80	2	50	56	16	M10	4.8
BT40-BSA72-165	72	110	165	—	—	2.4	60	—	19	M10	5.5
BT40-BSA72-225	72	110	225	—	—	2.4	60	—	19	M10	6.8
BT40-BSA90-165	90	125	165	133	60	4	75	—	19	M12	10.2
BT50-BSA25-135	25	38	135	92	35	1	20	22	8	M6	4.2
BT50-BSA30-165	30	42	165	122	40	1.6	24	26	8	M6	4.4
BT50-BSA38-180	38	52	180	137	50	2.6	30	33	10	M8	4.8
BT50-BSA42-210	42	56	210	167	60	2	34	37	10	M8	5
BT50-BSA50-180	50	65	180	137	65	3	40	44	13	M10	5.4
BT50-BSA50-240	50	65	240	197	65	3	40	44	13	M10	5.7
BT50-BSA62-195	62	90	195	152	80	2	50	56	16	M10	6.2
BT50-BSA62-270	62	90	270	227	80	2	50	56	16	M10	7.6
BT50-BSA72-195	72	110	195	152	95	2.4	60	66	19	M10	7
BT50-BSA72-285	72	110	285	242	95	2.4	60	66	19	M10	9.3
BT50-BSA90-210	90	125	210	167	110	4	75	80	19	M12	9.2
BT50-BSA90-300	90	125	300	257	110	4	75	80	19	M12	12.3
BT50-BSA105-195	105	160	195	—	—	3	90	—	25	M12	10.7
BT50-BSA105-285	105	160	285	—	130	3	90	94	25	M12	15

粗镗刀、适于通孔及盲孔加工  
滑槽与刀刃平行  
镗刀头单独订购  
注意D的最小尺寸与L, L1, L2

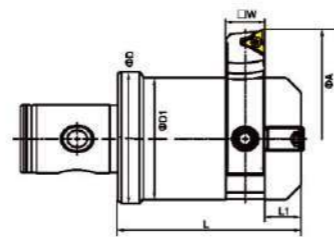
Boring Bar rough cutting best suiting through-hole and blind hole borings  
• The same location of drive key and cunina edae.  
• Please order boring bits separately.  
• Dimension of L, L1, L2 criteria, when D is minimum dimension.

**BSA 斜角型镗头**  
BSA bevel-type sugar head



型号 Cat. No	镗孔范围 Boring Range		尺寸 Size					
	ΦA min	ΦA max	ΦD	ΦD1	L	E	□W	G
BSA30-LBK2	Φ30	Φ42	24	24	40	1.6	8	M6x1.00P
BSA38-LBK3	Φ38	Φ52	31	60	60	2.6	10	M8x1.25P
BSA50-LBK4	Φ50	Φ65	42	40	70	3	13	M10x1.50P
BSA62-LBK5	Φ62	Φ90	55	50	85	2	16	M12x1.75P
BSA72-LBK6	Φ72	Φ110	63	60	98	2.4	19	M12x1.75P

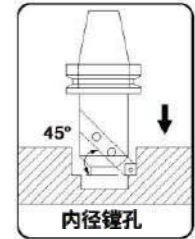
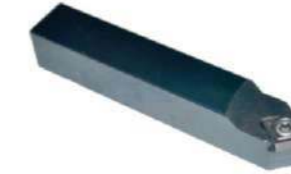
**BSB 斜角型镗头**  
BSB bevel-type sugar head



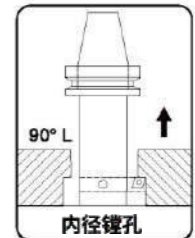
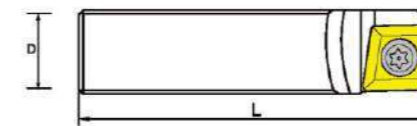
型号 Cat. No	镗孔范围 Boring Range		尺寸 Size					
	ΦA min	ΦA max	ΦD	ΦD1	L	L1	□W	G
BSB25-LBK2	Φ26	Φ52	24	20	45	10	8	M6x1.00P
BSB38-LBK3	Φ38	Φ70	31	30	55	10	10	M8x1.25P
BSB50-LBK4	Φ50	Φ90	42	40	60	10	13	M10x1.50P
BSB62-LBK5	Φ62	Φ115	55	50	70	12	16	M12x1.75P
BSB72-LBK6	Φ72	Φ135	63	60	85	12	19	M12x1.75P

**CBS 刀夹**  
CBS turner

适用于BSA、BSB粗镗刀，适合重切削加工  
For BSA, BSB coarse sugar cutter, suitable for heavy machining

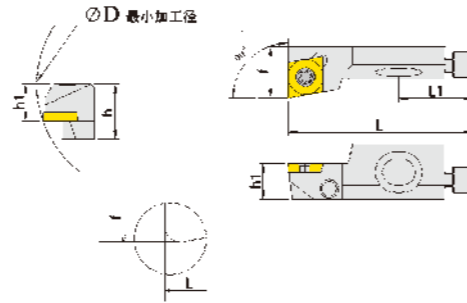


型号 Cat. No	D	L	角度 Angle	刀片规格 Insert	螺丝 Clamp Screw	扳手 Wrench
CBS-408	8	50	45°	CCMT0602	M2.5-6.0-3.5-60	T9
CBS-410	10	60		CCMT09T3	M4-10-5.7-60	T15
CBS-413	13	70				
CBS-416	16	100				
CBS-419	19	150				
CBS-425	25	150				
CBS-908	8	50	90°	CCMT0602	M2.5-6.0-3.5-60	T9
CBS-910	10	60		CCMT09T3	M4-10-5.7-60	T15
CBS-913	13	70				
CBS-916	16	100				
CBS-919	19	150				
CBS-925	25	150				



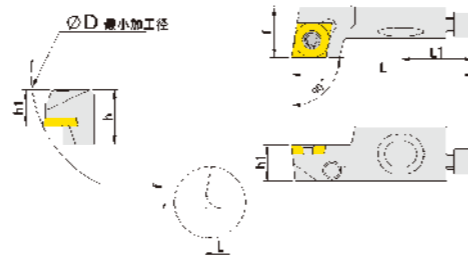
型号 Cat. No	D	L	角度 Angle	刀片规格 Insert	螺丝 Clamp Screw	扳手 Wrench
CBS908L	8	50	90°	CCMT0602	M2.5-6.0-3.5-60	T9
CBS910L	10	60		CCMT09T3	M4-10-5.7-60	T15
CBS913L	13	70				
CBS916L	16	100				
CBS919L	19	150				

SCF◇R/L



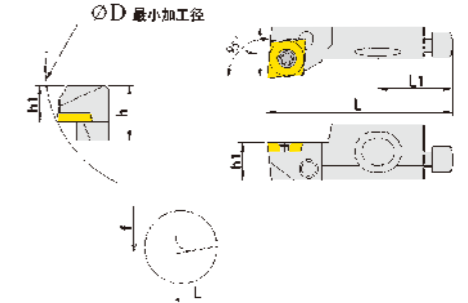
型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
SCFPR/L 06CA-05	CP□□050204	20	8.5	8	25	12	6	M2.2*5	03510	03009	03006	T6
SCFCR/L 08CA-06	CC□□060204	25	10	10	32	17	8	M2.5*6	04016	04012	04008	T8
SCFCR/L 10CA-09	CC□□09T308	40	15	14	50	20	10	M3.5*8	06020			T15

SCG◇R/L



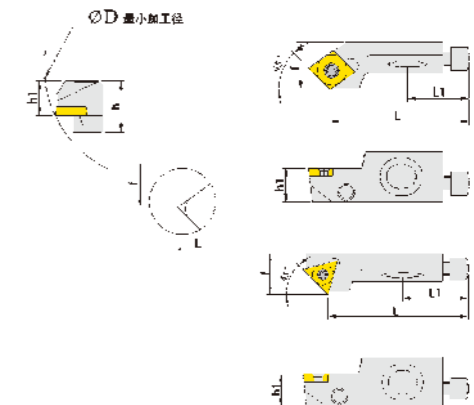
型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
SCGPR/L 06CA-05	CP□□050204	20	8.5	8	25	12	6	M2.2*5	03510	03009	03006	T6
SCGCR/L 08CA-06	CC□□060204	25	10	10	32	17	8	M2.5*6	04016	04012	04008	T8
SCGCR/L 10CA-09	CC□□09T308	40	15	14	50	20	10	M3.5*8	06020	04012	04008	T15

SCL◇R/L



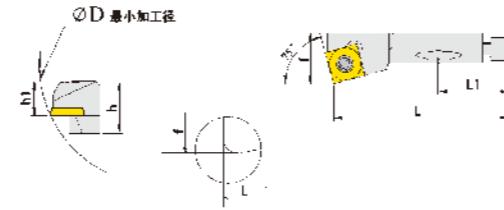
型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
SCLPR/L 06CA-05	CP□□050204	20	8.5	8	25	12	6	M2.2*5	03510	03009	03006	T6
SCLCR/L 08CA-06	CC□□060204	25	10	10	32	17	8	M2.5*6	04016	04012	04008	T8
SCLCR/L 10CA-09	CC□□09T308	40	15	14	50	20	10	M3.5*8	06020			T15
SCLCR/L 12CA-12	CC□□120408	50	20	20	55	20	12	M5*12	06025	05014	04012	T20

S◇S◇R/L



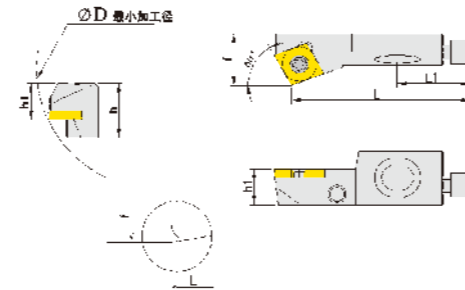
型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
SCSPR/L 06CA-05	CP□□050204	20	8.5	8	21.4	12	6	M2.2*5	03510	03009	03006	T6
SCSCR/L 08CA-06	CC□□060204	25	10	10	28	17	8	M2.5*6	04016	04012	04008	T8
SCSCR/L 10CA-09	CC□□09T308	40	15	14	44	20	10	M3.5*8	06020	04012	04008	T15
STSCR/L 08CA-09	TC□□090204	25	10	10	33.5	17	8	M2.2*6	04016	04012	03006	T6
STSCR/L 10CA-11	TC□□110204	40	15	14	44	20	10	M2.5*6	06020	04012	04008	T8
STSCR/L 12CA-16	TC□□120408	50	20	20	47	20	12	M3.5*8	06025	05014	04012	T15
STSCR/L 16CA-16	TC□□16T308	55	21	25	53	25	16	M3.5*8	08030	06019	04012	T15

### S◇KCR/L



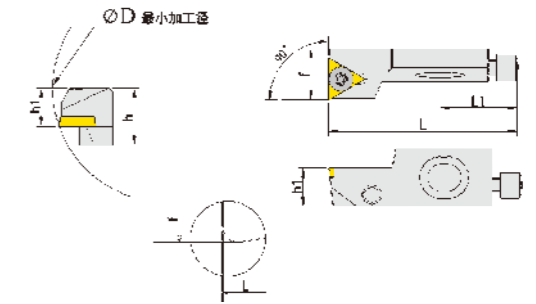
型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
SCKCR/L 08CA-06	CC□□060204	25	10	10	32	17	8	M2.5*6	04016	04012	03006	T8
SSKCR/L 10CA-09	SC□□09T308	40	15	14	50	20	10	M3.5*8	06020	04012	04008	T15
SSKCR/L 12CA-12	SC□□120408	50	20	20	55	20	12	M5*12	06025	05014	04012	T20
SSKCR/L 16CA-12	SC□□16T308	55	21	25	63	25	16	M5*12	08030	06019	04012	T20

### SCW◇R/L



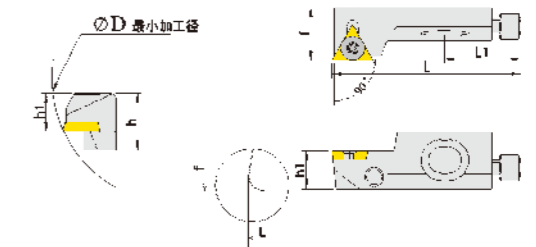
型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
SCWPR/L 06CA-05	CP□□050204	20	8.5	8	22.7	12	6	M2.2*5	03510	03009	03006	T6
SCWCR/L 08CA-06	CC□□060204	25	10	10	29	17	8	M2.5*6	04016	04012	03006	T8

### STFCR/L



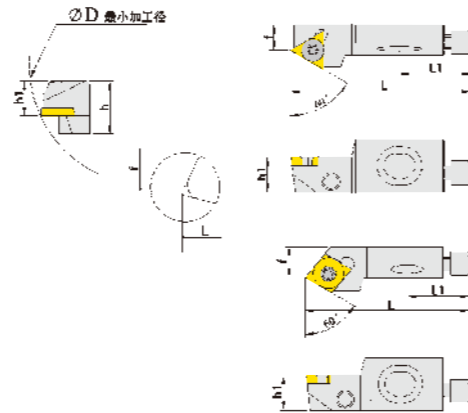
型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
STFCR/L 08CA-09	TC□□090204	25	10	10	32	17	8	M2.5*6	04016	04012	03006	T8
STFCR/L 10CA-11	TC□□110204	40	15	14	50	20	10	M2.5*6	06020	04012	04008	T8
STFCR/L 12CA-16	TC□□12T308	50	20	20	55	20	12	M3.5*8	06025	05014	04012	T15
STFCR/L 16CA-16	TC□□16T308	55	21	25	63	25	16	M3.5*8	08030	06019	04012	T15

### STGCR/L



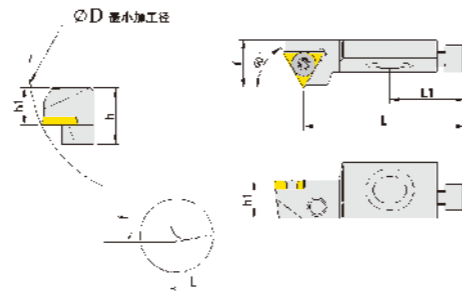
型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
STGCR/L 08CA-09	TC□□090204	25	10	10	32	17	8	M2.5*6	04016	04012	03006	T8
STGCR/L 10CA-11	TC□□110204	40	15	14	50	20	10	M2.5*6	06020	04012	04008	T8
STGCR/L 12CA-16	TC□□12T308	50	20	20	55	20	12	M3.5*8	06025	05014	04012	T15
STGCR/L 16CA-16	TC□□16T308	55	21	25	63	25	16	M3.5*8	08030	06019	04012	T15

### STTCR/L



型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
STTCR/L 10CA-11	TC□□110204	40	15	9	50	20	10	M2.5*6	06020	04012	04008	T8
STTCR/L 12CA-16	TC□□16T308	50	20	13	55	20	12	M3.5*8	06025	05014	04012	T15
STTCR/L 16CA-16	TC□□16T308	55	21	15	63	25	16	M3.5*8	08030	06019	04012	T15
SCTPR/L 06CA-05	CP□□050204	20	8.5	5.5	25	12	6	M2.2*5	03510	03009	03006	T6
SCTCR/L 08CA-06	CC□□060204	25	10	6	32	17	8	M2.5*6	04016	04012	03006	T8

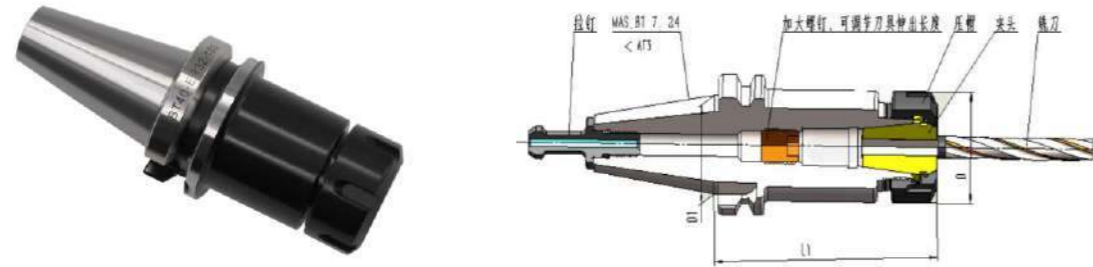
### STWCR/L



型号 Model		∅D	h	f	L	L1	h1	螺丝 Screw	螺丝GD Screw GD	螺丝TJLS Screw TJLS	螺丝DJ Screw DJ	扳手 Wrench
STWCR/L 10CA-11	TC□□110204	40	15	14	44	20	10	M2.5*6	06020	04012	04008	T8
STWCR/L 12CA-16	TC□□16T308	50	20	20	47	20	12	M3.5*8	06025	05014	04012	T15
STWCR/L 16CA-16	TC□□16T308	55	21	25	53	25	16	M3.5*8	08030	06019	04012	T15

数控铣夹头刀柄 MILLING CHUCK ARBORS	P280~P282	HSK(A型)铣刀柄 ER COLLET CHUCK	P311~P313
莫氏变径套 (扁尾型) MORSE TAPER(WITH TANG)	P283~P285	HSK(A型)变径套 MORSE TAPER ADAPTER	P314
莫氏变径套 (后拉型) MORSE TAPER(WITH DRAWBAR)	P286~P288	HSK(A型)混合插入式铣刀柄 OMBI-SHELL END MILL HOLDER	P315
钻接刀柄 DRILL CHUCK ARBORS	P289~P291	HSK(A型)套式铣刀柄 SHELL END MILL HOLDER	P316
整体式钻夹头 SELF-FASTEN DRILL CHUCK	P292	HSK刀柄-侧固式 HSK-SIDE LOCK TOOL HOLDER	P317
平面铣刀柄 SHELL MILL ARBORS	P293~P295	HSK数控强力刀柄 MILLING CHUCK ARBORS	P318
混合插入式铣刀柄 COMBI SHELL END MILL ARBORS	P296	HSK刀柄-SK系列 HSK HEAT SHRINKABLE SHANK-SK SERIES	P319
立铣刀柄 END MILL ADAPTERS	P297~P300	BT组合基础刀柄 BORING SHANK	P320
强力刀柄 POWER MILLING CHUCK	P301	组合刀柄系列 COMBINATION SERIES	P321
滚针式铣夹头套装/直柄夹头 MILLING CHUCK SET/STRAIGHT SHANK COLLETS	P302	BT_SLO油路刀柄 BT_SLO OIL ROAD HANDLE	P322
可限位直柄铣夹头/MT变径铣夹头 MILLING COLLET/MILLING ADAPTER	P303	CSO油路刀套 CSO OIL-FEED HOLDERS REDUCING SLEEVE	P323
螺纹锁固式刀柄 THREAD LOCKING TYPE CHUCK	P304~P305	C/ER 直柄延长杆 C/ER STRAIGHT SHANK COLLET CHUCK	P324~325
BT/SK高转速精密刀柄系列 BT/SK HIGH SPEED PRECISION HOLDER SERIES	P306	刀柄用拉钉 RETENTION KNOB	P326~327
弹性伸缩攻牙刀柄 ELASTIC EXPANSION TAPPING THE HANDLE	P307	夹头 COLLET	P328~P329
MS/直柄TER攻丝刀柄 MS/STRAIGHT SHANK TER TAPPING HOLDER	P308	ER 套装铣夹头 ER MILLING CHUCK SET	P330
BT/DC后拉式立铣刀夹头体 BT/DC SILM-FIT COLLET CHUCK	P309	SK高转速筒夹 SK HIGH SPEED DOLLET	P331
DC专用夹头 DC COLLET	P310	ER压帽 ER NUT	P332
		扳手 SPANNER	P333

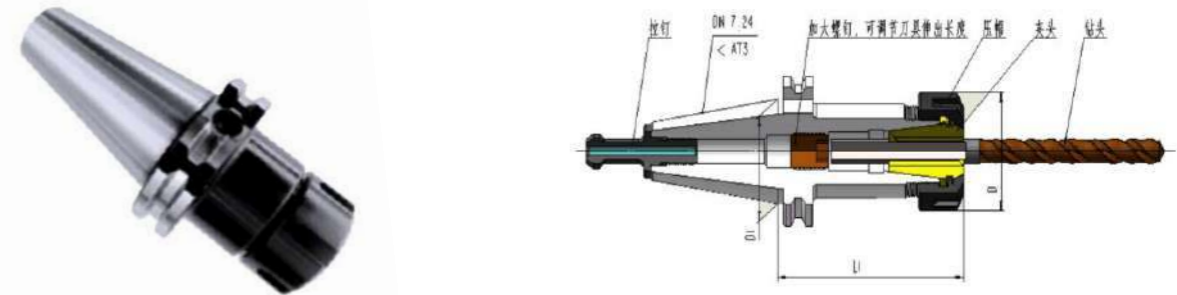
BT 锥数控铣夹头刀柄 MILLING CHUCK ARBORS



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 用于加工中心或数控机床的专用刀柄
- ★: 订购时需注明刀柄标型号。如需中心进水与法兰盘侧面进水冷却的刀柄, 请标明AD/B型, 如BT40AD/BxER32-70
- ★: 使用时夹头必须先装入压帽, 再装入刀具, 然后锁固入刀柄体
- ★: 可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Special tool holder for machining center or CNC machine
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: First put the collet into the nut, then the drill bit into collet, and finally tighten the nut to lock the holder
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No. BT - ER-L1	D mm	D1 mm	型号 Model No. BT - ER-L1	D mm	D1 mm
BT30-ER16-70	28	31.75	BT45-ER25-70	42	57.15
BT30-ER20-70	34	31.75	BT45-ER25-100	42	57.15
BT30-ER25-70	42	31.75	BT45-ER32-70	50	57.15
BT30-ER32-70	50	31.75	BT45-ER32-100	50	57.15
BT30-ER40-80	63	31.75	BT45-ER32-120	50	57.15
BT40-ER16-70	28	44.45	BT45-ER40-80	63	57.15
BT40-ER20-70	34	44.45	BT45-ER40-100	63	57.15
BT40-ER20-100	34	44.45	BT45-ER40-120	63	57.15
BT40-ER20-150	34	44.45	BT50-ER16-70	28	69.85
BT40-ER25-60	42	44.45	BT50-ER16-90	28	69.85
BT40-ER25-70	42	44.45	BT50-ER20-70	34	69.85
BT40-ER25-100	42	44.45	BT50-ER20-150	34	69.85
BT40-ER25-150	42	44.45	BT50-ER25-70	42	69.85
BT40-ER32-70	50	44.45	BT50-ER32-70	50	69.85
BT40-ER32-100	50	44.45	BT50-ER32-80	50	69.85
BT40-ER32-150	50	44.45	BT50-ER32-100	50	69.85
BT40-ER40-70	63	44.45	BT50-ER32-120	50	69.85
BT40-ER40-80	63	44.45	BT50-ER40-80	63	69.85
BT40-ER40-150	63	44.45	BT50-ER40-100	63	69.85
BT40-ER50-100	78	44.45	BT50-ER40-120	63	69.85

DIN69871 数控铣夹头刀柄 MILLING CHUCK ARBORS

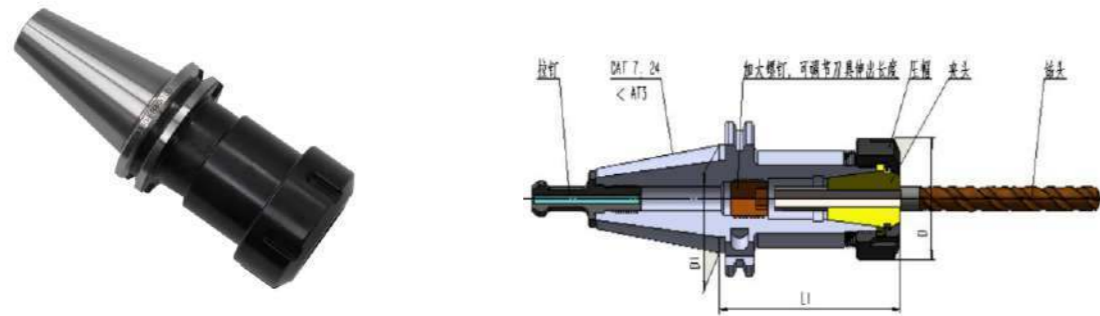


- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 用于加工中心或数控机床的专用刀柄
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请标明AD/B型, 如DIN69871.A40-ER32-70
- ★: 使用时夹头必须先装入压帽, 再装入刀具, 接着锁固入刀柄体
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Special tool holder for machining center or CNC machine
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: First put the collet into the nut, then the drill bit into collet, and finally tighten the nut to lock the holder
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No. DIN69871.A-ER-L1	D mm	D1 mm	型号 Model No. DIN69871.A-ER-L1	D mm	D1 mm
DIN69871.A30-ER11-70	19	31.75	DIN69871.A40-ER40-80	63	44.45
DIN69871.A30-ER16-63	28	31.75	DIN69871.A40-ER40-100	63	44.45
DIN69871.A30-ER20-63	34	31.75	DIN69871.A40-ER40-150	63	44.45
DIN69871.A30-ER25-63	42	31.75	DIN69871.A40-ER50-100	78	44.45
DIN69871.A40-ER11-100	19	44.45	DIN69871.A50-ER16-70	28	69.85
DIN69871.A40-ER16-63	28	44.45	DIN69871.A50-ER16-100	28	69.85
DIN69871.A40-ER16-70	28	44.45	DIN69871.A50-ER20-70	34	69.85
DIN69871.A40-ER16-100	28	44.45	DIN69871.A50-ER20-100	34	69.85
DIN69871.A40-ER20-70	34	44.45	DIN69871.A50-ER25-70	42	69.85
DIN69871.A40-ER20-100	34	44.45	DIN69871.A50-ER25-100	42	69.85
DIN69871.A40-ER25-50	42	44.45	DIN69871.A50-ER25-150	42	69.85
DIN69871.A40-ER25-70	42	44.45	DIN69871.A50-ER32-80	50	69.85
DIN69871.A40-ER25-100	42	44.45	DIN69871.A50-ER32-100	50	69.85
DIN69871.A40-ER25-150	42	44.45	DIN69871.A50-ER40-80	63	69.85
DIN69871.A40-ER32-70	50	44.45	DIN69871.A50-ER40-120	63	69.85
DIN69871.A40-ER32-100	50	44.45	DIN69871.A50-ER50-100	78	69.85
DIN69871.A40-ER32-150	50	44.45	DIN69871.A50-ER50-150	78	69.85



CAT 锥数控铣夹头刀柄 MILLING CHUCK ARBORS

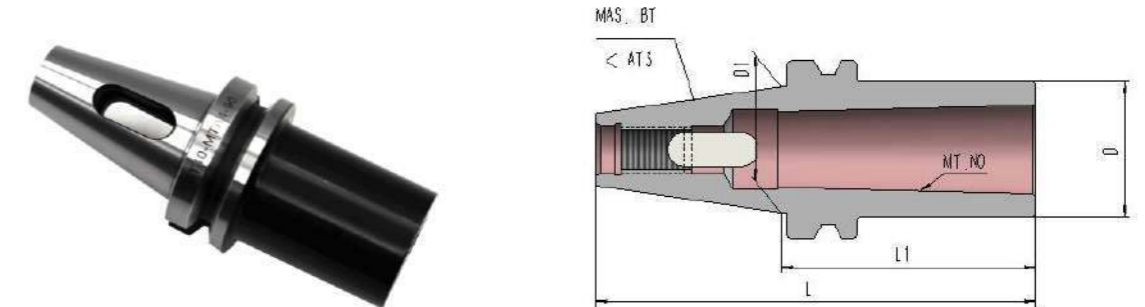


- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 用于加工中心或数控机床的专用刀柄
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明 具体精度
- ★: 使用时夹头必须先装入压帽, 再装入刀具, 接着锁固入刀柄体
- ★: 夹头有弹性, 止水, 刚性攻牙等可供选择
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Special tool holder for machining centers or CNC machine tools
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.
- ★: First put the collet into the nut, then the drill bit into collet, and finally tighten the nut to lock the holder
- ★: Collet has spring, sealed-up, tapping, etc.

型号 Model No. CAT - ER-L1	D mm	D1 mm	型号 Model No. CAT - ER-L1	D mm	D1 mm
CAT40-ER16-63	28	44.45	CAT40-ER50-80	78	44.45
CAT40-ER16-70	28	44.45	CAT40-ER50-100	78	44.45
CAT40-ER16-100	28	44.45	CAT50-ER16-70	28	69.85
CAT40-ER16-150	28	44.45	CAT50-ER16-90	28	69.85
CAT40-ER20-70	34	44.45	CAT50-ER16-100	28	69.85
CAT40-ER20-100	34	44.45	CAT50-ER20-90	34	69.85
CAT40-ER20-150	34	44.45	CAT50-ER20-100	34	69.85
CAT40-ER25-70	42	44.45	CAT50-ER20-150	34	69.85
CAT40-ER25-100	42	44.45	CAT50-ER25-100	42	69.85
CAT40-ER25-150	42	44.45	CAT50-ER25-150	42	69.85
CAT40-ER32-70	50	44.45	CAT50-ER32-70	50	69.85
CAT40-ER32-100	50	44.45	CAT50-ER32-80	50	69.85
CAT40-ER32-150	50	44.45	CAT50-ER32-100	50	69.85
CAT40-ER40-70	63	44.45	CAT50-ER40-80	63	69.85
CAT40-ER40-80	63	44.45	CAT50-ER40-100	63	69.85
CAT40-ER40-100	63	44.45	CAT50-ER50-90	78	69.85
CAT40-ER40-150	63	44.45	CAT50-ER50-100	78	69.85

BT 锥数控莫氏变径套(扁尾型)

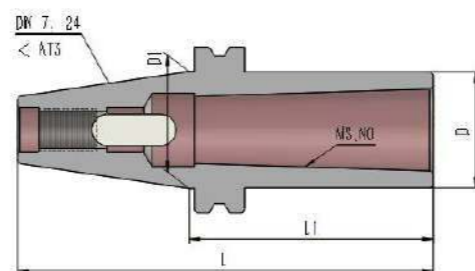
MORSE TAPER(WITH TANG)



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 外锥柄连接于数控机床, 内锥连接不同型号的莫氏变径套
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷刀的刀柄, 请标明AD/B型, 如 BT40AD/B-MTA3-75
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明具体精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: The external taper shank is connected to the CNC machine tool, the inner cone is connected to different types of MT sleeve
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No. BT- MT.NO.-L1	L mm	D mm	D1 mm	重量 Wt(kg)
BT30- MTA1-45	93.4	25	31.75	0.55
BT30- MTA2-60	108.4	32	31.75	0.90
BT30- MTA3-80	128.4	40	31.75	0.90
BT40- MTA1-45	110.4	25	44.45	1.20
BT40- MTA2-50	115.4	32	44.45	1.55
BT40- MTA2-60	125.4	32	44.45	1.65
BT40- MTA3-70	135.4	40	44.45	1.80
BT40- MTA4-90	155.4	48	44.45	2.30
BT40- MTA4-95	160.4	48	44.45	2.40
BT40- MTA4-165	230.4	48	44.45	2.65
BT45- MTA1-120	202.8	25	57.15	1.90
BT45- MTA2-120	202.8	32	57.15	2.30
BT45- MTA3-120	202.8	40	57.15	2.40
BT50- MTA1-50	151.8	25	69.85	4.10
BT50- MTA2-50	151.8	32	69.85	4.00
BT50- MTA2-60	161.8	32	69.85	4.20
BT50- MTA2-135	236.8	32	69.85	4.30
BT50- MTA3-65	166.8	40	69.85	4.20
BT50- MTA3-135	236.8	40	69.85	4.40
BT50- MTA3-150	251.8	40	69.85	4.68
BT50- MTA4-95	196.8	48	69.85	5.00
BT50- MTA5-105	206.8	63	69.85	5.00

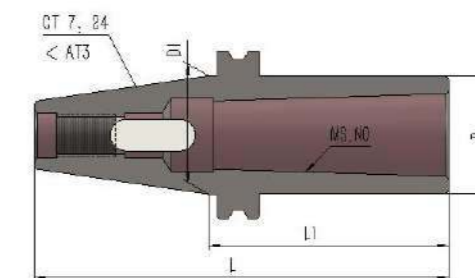
DIN69871 数控莫氏变径套(扁尾型) MORSE TAPER WITH TANG



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 外锥柄连接于数控机床, 内锥连接不同型号的莫式变径套
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请标明AD/B型, 如DIN69871.40AD/B × MT3-75
- ★: 根据需要可提供动平衡刀柄, 标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明具体精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: The external taper shank is connected to the CNC machine tool, the inner cone is connected to different types of MT sleeve
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No. DIN69871 .A- MT.NO. -L1	L mm	D mm	D1 mm	重量 Wt(kg)
DIN69871 .A30- MTA1-50	97.8	25	31.75	0.55
DIN69871 .A30- MTA2-60	107.8	32	31.75	0.80
DIN69871 .A30- MTA3-80	127.8	40	31.75	0.85
DIN69871 .A40- MTA1-45	113.4	25	44.45	1.20
DIN69871 .A40- MTA1-50	118.4	25	44.45	1.30
DIN69871 .A40- MTA2-50	118.4	32	44.45	1.50
DIN69871 .A40- MTA3-70	138.4	40	44.45	1.80
DIN69871 .A40- MTA4-95	163.4	48	44.45	2.40
DIN69871 .A50- MTA1-45	146.75	25	69.85	4.05
DIN69871 .A50- MTA2-60	161.75	32	69.85	4.40
DIN69871 .A50- MTA3-65	166.75	40	69.85	4.50
DIN69871 .A50- MTA4-95	196.75	48	69.85	4.90
DIN69871 .A50- MTA5-120	221.75	61	69.85	5.10
DIN69871 .A50- MTA5-105	206.75	61	69.85	5.15

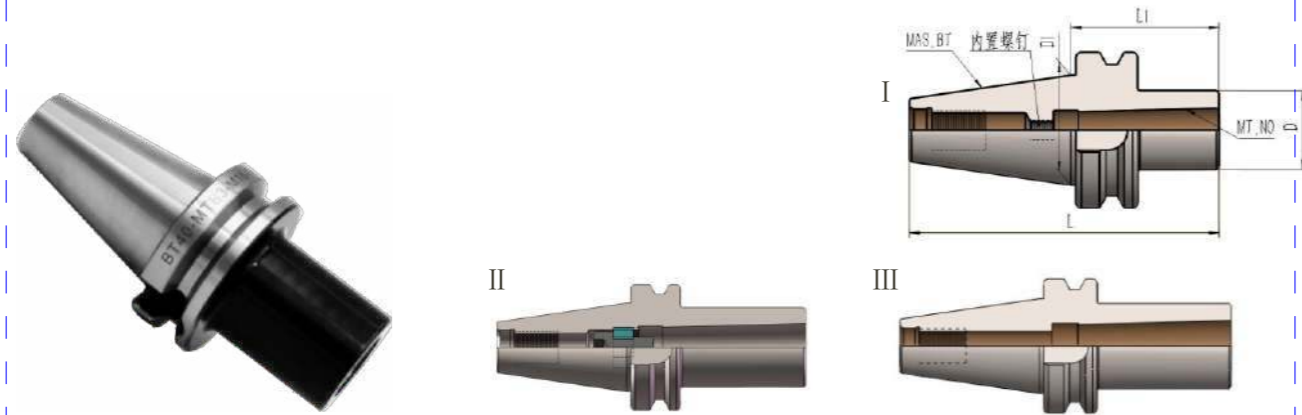
CAT 数控莫氏变径套(扁尾型) MORSE TAPER WITH TANG



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 外锥柄连接于数控机床, 内锥连接不同型号的莫式变径套
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: The external taper shank is connected to the CNC machine tool, the inner cone is connected to different types of MT sleeve
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No. CAT- MT.NO. -L1	L mm	D mm	D1 mm	重量 Wt(kg)
CAT40-MTA1-45	113.25	25	44.45	1.30
CAT40-MTA2-63	131.25	32	44.45	1.70
CAT40-MTA3-75	143.25	40	44.45	2.00
CAT40-MTA4-100	168.25	48	44.45	2.50
CAT45-MTA1-40	122.55	25	57.15	2.70
CAT45-MTA2-50	132.55	32	57.15	3.80
CAT45-MTA3-73	155.55	40	57.15	4.20
CAT45-MTA4-95	177.55	48	57.15	4.60
CAT45-MTA5-125	207.55	61	57.15	5.50
CAT50-MTA1-40	141.6	25	69.85	4.00
CAT50-MTA2-50	151.6	32	69.85	4.00
CAT50-MTA2-135	236.6	32	69.85	5.00
CAT50-MTA3-63	164.6	40	69.85	4.50
CAT50-MTA3-150	251.6	40	69.85	5.50
CAT50-MTA4-85	186.6	48	69.85	4.80
CAT50-MTA5-105	206.6	61	69.85	5.20

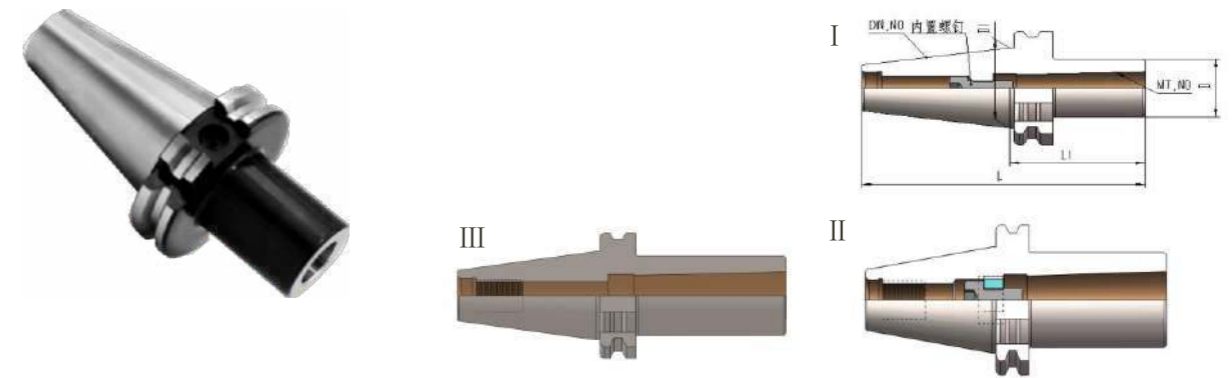
BT 锥数控莫氏变径套(后拉型) MORSE TAPER(WITH DRAWBAR)



- ★: 示意图1所示的刀柄使用时需安装内六角螺钉
- ★: 示意图2所示的刀柄使用时需安装内六角螺钉及螺纹套
- ★: 示意图3所示的刀柄使用时无需内六角螺钉
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请标明AD/B型, 如BT40AD/B-MTB3-75
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明。
- ★:Note:1. See figure 1,when the arbor being used, it is necessary to fix inner hex screw.
- ★:See figure 2,when the arbor bein used, it is necessary to fix standard knob,please note when order it.
- ★:See figure 3,when the arbor being used, it is necessary to fix extension knob,please onte when order it.
- ★:When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★:According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No. BT-MT.NO.-L1	L mm	D mm	D1 mm	示意图Figure
BT40-MTB1-45	110.4	25	44.45	I
BT40-MTB2-60	125.4	32	44.45	I
BT40-MTB3-75	140.4	40	44.45	II
BT40-MTB3-90	155.4	40	44.45	II
BT40-MTB4-100	165.4	48	44.45	II
BT50-MTB1-45	146.8	25	69.85	I
BT50-MTB2-60	161.8	32	69.85	I
BT50-MTB3-60	161.8	40	69.85	I
BT50-MTB3-75	176.8	40	69.85	I
BT50-MTB4-100	201.8	48	69.85	II
BT50-MTB5-105	206.8	63	69.85	III
BT50-MTB5-120	221.8	63	69.85	II

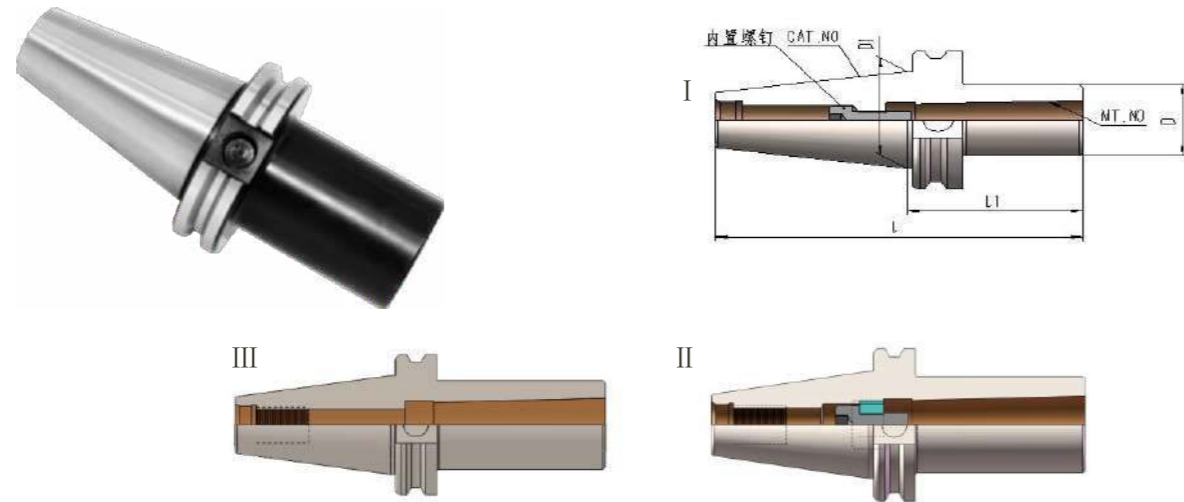
DIN69871 数控莫氏变径套(后拉型) MORSE TAPER(WITH DRAWBAR)



- ★: 示意图1所示的刀柄使用时需安装内六角螺钉
- ★: 示意图2所示的刀柄使用时需安装内六角螺钉及螺纹套
- ★: 示意图3所示的刀柄使用时无需内六角螺钉
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请标明AD/B型, 如DIN69871.40AD/B-MTB3-70
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明具体精度
- ★:Note: 1. See figure 1,when the arbor being used,it is necessary to fix inner hex screw.
- ★:See figure 2,when the arbor bein used,it is necessary to fix standard knob,please note when order it.
- ★:See figure 3,when the arbor being used,it is necessary to fix extension knob,please onte when order it.
- ★:When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★:According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 ModelNo. DIN69871.A-MT.NO.-L1	L mm	D mm	D1 mm	示意图Figure	
DIN69871.A40-MTB1-50	118.4	25	44.45	I	
DIN69871.A40-MTB2-60	128.4	32		I	
DIN69871.A40-MTB3-70	138.4	40		III	
DIN69871.A40-MTB3-80	148.4	40		II	
DIN69871.A40-MTB3-100	168.4	40		II	
DIN69871.A40-MTB4-90	158.4	48		III	
DIN69871.A40-MTB4-100	168.4	48		II	
DIN69871.A50-MTB1-45	146.8	25		69.85	I
DIN69871.A50-MTB2-45	146.8	32			I
DIN69871.A50-MTB3-150	251.8	40			I
DIN69871.A50-MTB3-80	181.8	40	I		
DIN69871.A50-MTB4-80	181.8	48	III		
DIN69871.A50-MTB4-90	191.8	48	II		
DIN69871.A50-MTB4-100	201.8	48	II		
DIN69871.A50-MTB5-100	201.8	61	III		
DIN69871.A50-MTB5-120	221.8	61	II		

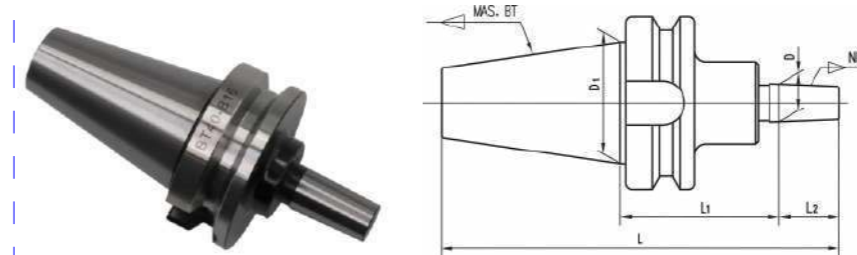
CAT锥数控莫氏变径套(后拉型) MORSE TAPER(WITH DRAWBAR)



- ★: 示意图1所示的刀柄使用时需安装内六角螺钉
- ★: 示意图2所示的刀柄使用时需安装内六角螺钉及螺纹套
- ★: 示意图3所示的刀柄使用时无需内六角螺钉
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明精度
- ★: Note: See figure 1, when the arbor being used, it is necessary to fix inner hex screw.
- ★: See figure 2, when the arbor being used, it is necessary to fix standard knob, please note when order it.
- ★: See figure 3, when the arbor being used, it is necessary to fix extension knob, please note when order it.
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No. CAT-MT.NO.-L1	L mm	D mm	D1 mm	示意图Figure
CAT40-MTB1-45	113.25	25	44.45	I
CAT40-MTB2-60	128.25	32		I
CAT40-MTB3-75	143.25	40		II
CAT40-MTB3-90	158.25	40		II
CAT40-MTB4-100	168.25	48	69.85	II
CAT50-MTB2-60	161.6	31.75		I
CAT50-MTB3-60	161.6	41.28		I
CAT50-MTB4-90	191.6	50.8		II
CAT50-MTB5-100	201.6	69.85		III

BT锥数控钻接刀柄 DRILL CHUCK ARBORS

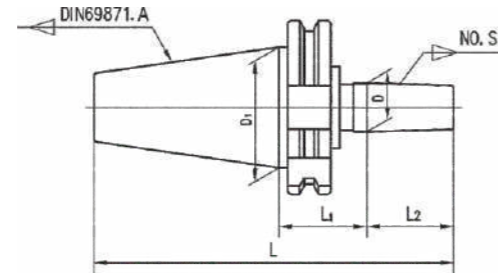


- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 柄部与机床主轴连接, 前端与各种内锥式钻夹头联用

- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: The shank is connected with the spindle of the machine, and the front end is used in conjunction with various internal cone drill chucks

型号 Model No. BT-NO.S-L1	L2 mm	L mm	D mm	D1 mm	拉杆 Drawbar thread	重量 Wt(kg)
BT30-J1-45	16.669	110	9.754	31.75	M12	0.60
BT30-J2-45	22.225	115.6	14.199	31.75	M12	0.70
BT30-J3-45	30.956	124.4	20.599	31.75	M12	0.80
BT30-J6-45	25.4	118.8	17.170	31.75	M12	0.75
BT30-J33-45	25.4	118.8	15.850	31.75	M12	0.75
BT30-B10-45	14.5	107.9	10.094	31.75	M12	0.60
BT30-B12-45	18.5	111.9	12.065	31.75	M12	0.60
BT30-B16-45	24	117.4	15.733	31.75	M12	0.70
BT30-B18-45	32	125.4	17.780	31.75	M12	0.82
BT40-J1-45	16.669	127.1	9.754	44.45	M16	1.15
BT40-J2-45	22.225	132.6	14.199	44.45	M16	1.25
BT40-J2S-45	19.05	129.4	13.940	44.45	M16	1.20
BT40-J3-45	30.956	141.4	20.599	44.45	M16	1.45
BT40-J4-45	42.069	152.5	28.550	44.45	M16	1.55
BT40-J5-45	47.625	158	35.890	44.45	M16	1.60
BT40-J6-45	25.4	135.8	17.170	44.45	M16	1.30
BT40-J33-45	25.4	135.8	15.850	44.45	M16	1.30
BT40-B10-45	14.5	124.9	10.094	44.45	M16	1.40
BT40-B10-120	14.5	199.9	10.094	44.45	M16	1.76
BT40-B12-45	18.5	128.9	12.065	44.45	M16	1.34
BT40-B16-32	24	121.4	15.733	44.45	M16	1.40
BT40-B16-45	24	134.4	15.733	44.45	M16	1.45
BT40-B16-75	24	164.4	15.733	44.45	M16	1.55
BT40-B16-90	24	179.4	15.733	44.45	M16	1.40
BT40-B18-45	32	142.4	17.780	44.45	M16	1.70
BT40-B18-75	32	172.4	17.780	44.45	M16	1.76
BT50-J1-45	16.669	163.5	9.754	69.85	M24	3.60
BT50-J2-45	22.225	169	14.199	69.85	M24	3.95
BT50-J2S-45	19.05	165.9	13.940	69.85	M24	3.90
BT50-J3-45	30.956	177.8	20.599	69.85	M24	3.70
BT50-J4-45	42.069	188.9	28.550	69.85	M24	3.75
BT50-J5-45	47.625	194.4	35.890	69.85	M24	3.80
BT50-J6-45	25.4	172.2	17.170	69.85	M24	4.00
BT50-J33-45	25.4	172.2	15.850	69.85	M24	4.00
BT50-B10-45	14.5	161.3	10.094	69.85	M24	3.60
BT50-B10-100	14.5	216.3	10.094	69.85	M24	3.80
BT50-B12-45	18.5	165.3	12.065	69.85	M24	3.60
BT50-B16-45	24	170.8	15.733	69.85	M24	3.65
BT50-B16-60	24	185.8	15.733	69.85	M24	3.70
BT50-B16-75	24	200.8	15.733	69.85	M24	3.74
BT50-B16-90	24	215.8	15.733	69.85	M24	3.78
BT50-B18-45	32	178.8	17.780	69.85	M24	3.70

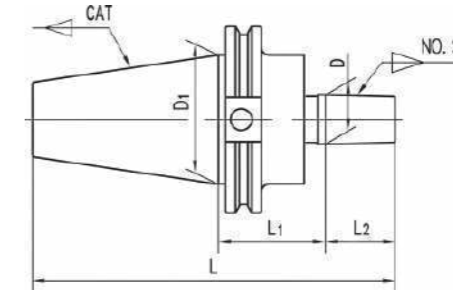
DIN 锥数控钻接刀柄 DRILL CHUCK ARBORS



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 柄部与机床主轴连接, 前端与各种内锥式钻夹头联用
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: The shank is connected with the spindle of the machine, and the front end is used in conjunction with various internal cone drill chucks

型 ModelNo. DIN69871 . A-NO. S-L1	L2 mm	L mm	D mm	D1 mm	拉杆 Drawbar thread
DIN69871 . A40-J0-32	11.112	111.5	6.35	44.45	M16
DIN69871 . A40-J1-32	16.669	117	9.754	44.45	M16
DIN69871 . A40-J2-32	22.225	122.6	14.199	44.45	M16
DIN69871 . A40-J2S-32	19.05	119.5	13.940	44.45	M16
DIN69871 . A40-J3-32	30.956	131.4	20.599	44.45	M16
DIN69871 . A40-J4-32	42.069	142.5	28.550	44.45	M16
DIN69871 . A40-J5-32	47.625	148	35.890	44.45	M16
DIN69871 . A40-J6-32	25.4	125.8	17.170	44.45	M16
DIN69871 . A40-J33-32	25.4	125.8	15.850	44.45	M16
DIN69871 . A40-B6-32	10	110.4	6.35	44.45	M16
DIN69871 . A40-B10-32	14.5	114.9	10.094	44.45	M16
DIN69871 . A40-B10-45	14.5	127.9	10.094	44.45	M16
DIN69871 . A40-B12-32	18.5	118.9	12.065	44.45	M16
DIN69871 . A40-B12-80	18.5	166.9	12.065	44.45	M16
DIN69871 . A40-B16-26	24	118.4	15.733	44.45	M16
DIN69871 . A40-B16-32	24	124.4	15.733	44.45	M16
DIN69871 . A40-B16-45	24	137.4	15.733	44.45	M16
DIN69871 . A40-B18-32	32	132.4	17.780	44.45	M16
DIN69871 . A40-B18-45	32	145.4	17.780	44.45	M16
DIN69871 . A40-B22-32	40.5	140.9	21.793	44.45	M16
DIN69871 . A40-B24-32	50.5	150.9	23.825	44.45	M16
DIN69871 . A50-B16-45	24	170.75	15.733	69.85	M24
DIN69871 . A50-J3-45	30.965	177.7	20.599	69.85	M24
DIN69871 . A50-J6-45	25.4	172.1	17.170	69.85	M24
DIN69871 . A50-J33-45	25.4	172.1	15.850	69.85	M24
DIN69871 . A50-B16-45	24	170.8	15.733	69.85	M24
DIN69871 . A50-B18-45	32	178.8	17.780	69.85	M24
DIN69871 . A50-B22-60	40.5	202.3	21.793	69.85	M24
DIN69871 . A50-B24-60	50.5	212.3	23.825	69.85	M24

CAT 锥数控钻接刀柄 DRILL CHUCK ARBORS

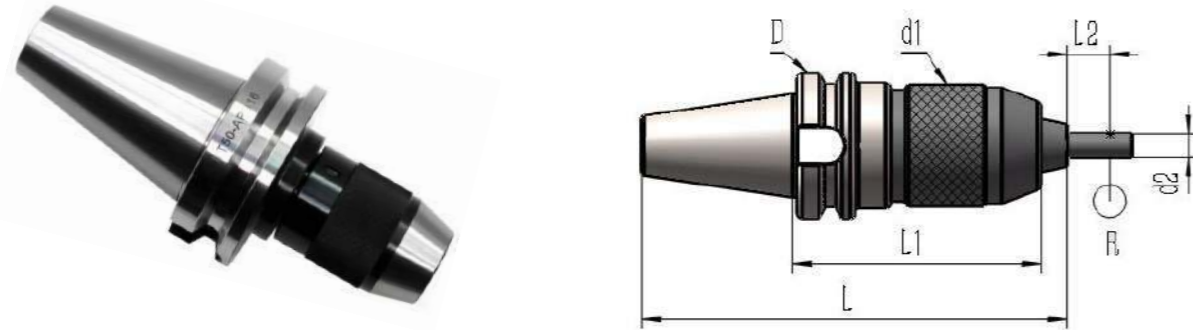


- ★: 采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 柄部与机床主轴连接, 前端与各种内锥式钻夹头联用
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: The shank is connected with the spindle of the machine, and the front end is used in conjunction with various internal cone drill chucks

型号 Model No. CAT-NO. S-L1	L2 mm	L mm	D mm	D1 mm	拉杆 Drawbar thread
CAT40-J2-45	22.225	135.5	14.199	44.45	5/8"-11
CAT40-J3-45	30.956	144.2	20.599	44.45	5/8"-11
CAT40-J4-45	42.069	155.3	28.55	44.45	5/8"-11
CAT40-J6-45	25.4	138.65	17.17	44.45	5/8"-11
CAT40-J33-45	25.4	138.65	15.85	44.45	5/8"-11
CAT40-B16-45	24	137.25	15.733	44.45	5/8"-11
CAT40-B18-45	32	145.25	17.780	44.45	5/8"-11
CAT45-J1-45	16.669	144.2	9.754	57.15	3/4"-10
CAT45-J2-45	22.225	150	14.199	57.15	3/4"-10
CAT45-J3-45	30.956	158.5	20.599	57.15	3/4"-10
CAT45-J4-45	42.069	169.6	28.55	57.15	3/4"-10
CAT45-J5-45	47.625	175.2	35.89	57.15	3/4"-10
CAT45-J6-45	25.4	153	17.17	57.15	3/4"-10
CAT45-J33-45	25.4	153	15.85	57.15	3/4"-10
CAT45-B10-45	14.5	142	10.094	57.15	3/4"-10
CAT45-B12-45	18.5	146	12.065	57.15	3/4"-10
CAT45-B16-32	24	138.6	15.733	57.15	3/4"-10
CAT45-B16-45	24	151.6	15.733	57.15	3/4"-10
CAT45-B18-45	32	159.6	17.780	57.15	3/4"-10
CAT50-J2-45	22.225	168.85	14.199	69.85	1"-8
CAT50-J3-45	30.956	177.56	20.599	69.85	1"-8
CAT50-J4-45	42.069	188.67	28.55	69.85	1"-8
CAT50-J5-45	47.625	194.23	35.89	69.85	1"-8
CAT50-J6-45	25.4	172	17.17	69.85	1"-8
CAT50-J33-45	25.4	172	15.85	69.85	1"-8
CAT50-B10-45	14.5	161.1	10.094	69.85	1"-8
CAT50-B12-45	18.5	165.1	12.065	69.85	1"-8
CAT50-B16-60	24	185.6	15.773	69.85	1"-8
CAT50-B18-60	32	193.6	17.780	69.85	1"-8
CAT50-B22-60	40.5	202.1	21.793	69.85	1"-8
CAT50-B24-60	50.5	212.1	23.825	69.85	1"-8

整体式钻夹头 SELF-FASTEN DRILL CHUCK

- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 用于加工中心或数控机床的专用刀柄, 前端装配钻夹头
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Special tool holder for machining center or CNC machine, front end assembly drill chuck



BT/APU 整体式钻夹头 SELF-FASTEN DRILL CHUCK

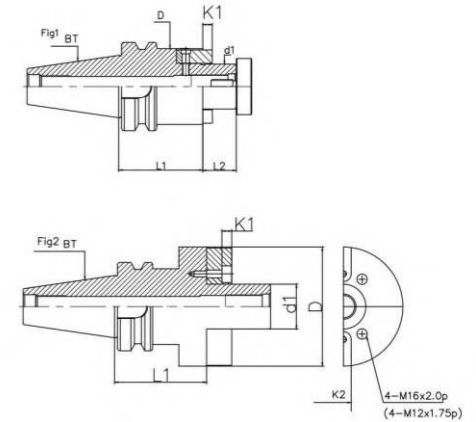
型号 Model No.	L1mm	Lmm	L2mm	Dmm	d1mm	d2mm	R	重量 Wt(kg)
BT30-APU8-85	85	139.4	55	46	37	8	0.04	0.72
BT30-APU13-110	110	170.4	75		50	13	0.04	1.85
BT30-APU16-125	125	185.4	80		57	16	0.04	2.18
BT40-APU8-90	90	161.4	55	63	37	6	0.04	1.46
BT40-APU13-100	100	177.4	75		50	13	0.04	2.00
BT40-APU16-105	105	182.4	80		57	16	0.04	2.33
BT50-APU8-95	95	202.8	55	100	37	8	0.04	4.16
BT50-APU13-115	115	228.8	75		50	13	0.04	4.70
BT50-APU16-120	120	223.8	80		57	16	0.04	5.03

DIN69871/APU 整体式钻夹头 SELF-FASTEN DRILL CHUCK

型号 Model No.	L1 mm	L mm	L2 mm	D mm	d1 mm	d2 mm	R	重量Wt(kg)
DIN69871.30-APU8-95	95	148.8	55	50	37	8	0.04	0.60
DIN69871.30-APU13-120	120	179.8	80		50	13	0.04	1.45
DIN69871.30-APU16-125	125	184.8	80		57	16	0.04	1.78
DIN69871.40-APU8-75	75	149.4	55	63.55	37	8	0.04	1.46
DIN69871.40-APU13-100	100	180.4	75		50	13	0.04	2.00
DIN69871.40-APU16-115	115	195.4	75		57	16	0.04	2.33
DIN69871.50-APU13-115	115	228.75	75	97.50	50	13	0.04	4.40
DIN69871.50-APU16-120	120	233.75	80		57	16	0.04	4.73

BT/FMA 平面铣刀柄

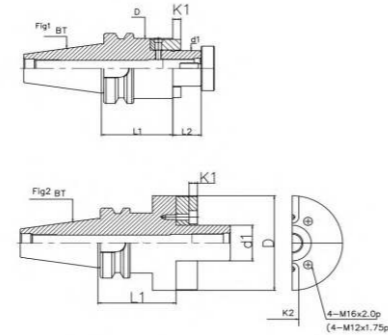
BT/FMA SHELL MILL ARBORS



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 用于加工中心或数控机床的专用刀柄, 前端装配刀盘
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请注明AD/B
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明具体精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Special tool handle for the processing center or CNC machine's, front end assembly tool
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No.	L1 mm	L2 mm	D mm	d1 mm	K1 mm	K2 mm	重量Wt(kg)
BT30- FMA25.4-63.5	63.5	17.45	57	25.40	4.52	9.53	1.10
BT30- FMA31.75-45	45	17.45	63	31.75	6.70	12.70	1.35
BT40- FMA25.4-45	45	17.45	57	25.40	4.52	9.53	1.80
BT40- FMA25.4-60	60	17.45	57	25.40	4.52	9.53	2.00
BT40- FMA25.4-90	90	17.45	57	25.40	4.52	9.53	2.60
BT40- FMA25.4-105	105	17.45	57	25.40	4.52	9.53	2.70
BT40- FMA31.75-45	45	17.45	63	31.75	6.70	12.70	2.00
BT40- FMA31.75-75	75	17.45	63	31.75	6.70	12.70	2.70
BT40- FMA31.75-90	90	17.45	63	31.75	6.70	12.70	2.90
BT40- FMA38.1-60	60	23.8	80	38.10	8.87	15.88	2.80
BT40- FMA50.80-60	60	24.4	100	50.80	9.75	19.05	4.00
BT50- FMA25.4-45	45	17.45	57	25.40	4.52	9.53	4.40
BT50- FMA25.4-90	90	17.45	57	25.40	4.52	9.53	5.10
BT50- FMA25.4-150	150	17.45	57	25.40	4.52	9.53	6.10
BT50- FMA31.75-45	45	17.45	63	31.75	6.70	12.70	4.50
BT50- FMA31.75-75	75	17.45	63	31.75	6.70	12.70	5.30
BT50- FMA31.75-105	105	17.45	63	31.75	6.70	12.70	5.70
BT50- FMA38.10-45	45	25	80	38.10	8.87	15.88	4.80
BT50- FMA38.10-75	75	25	80	38.10	8.87	15.88	6.00
BT50- FMA50.80-45	45	36	100	50.80	9.75	19.05	5.70
BT50- FMA50.80-75	75	36	100	50.80	9.75	19.05	6.80

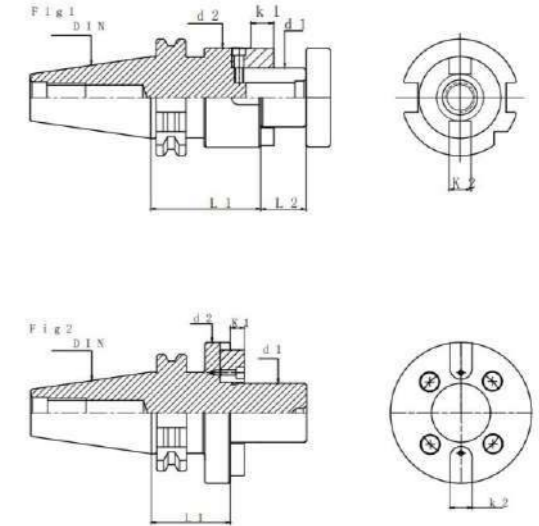
BT/FMB平面铣刀柄 BT/FMB SHELL MILL ARBORS



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 用于加工中心或数控机床的专用刀柄, 前端装配刀盘
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请注明AD/B
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明具体精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Special tool handle for the processing center or CNC machine's, front end assembly tool
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No.	L1 mm	L2 mm	D mm	d1 mm	K1 mm	K2 mm	重量 Wt(kg)
BT30-FMB16-45	45	16	38	16	4.8	8	0.85
BT30-FMB22-45	45	18	48	22	4.8	10	0.85
BT30-FMB27-45	45	20	60	27	5.8	12	1.20
BT30-FMB27-60	60	20	60	27	5.8	12	1.35
BT30-FMB27-100	100	20	60	27	5.8	12	1.35
BT30-FMB32-45	45	22	62	32	6.8	14	1.35
BT40-FMB22-45	45	18	48	22	4.8	10	1.45
BT40-FMB22-60	60	18	48	22	4.8	10	1.70
BT40-FMB22-100	100	18	48	22	4.8	10	2.20
BT40-FMB27-45	45	20	60	27	5.8	12	1.60
BT40-FMB27-60	60	20	60	27	5.8	12	2.00
BT40-FMB27-90	90	20	60	27	5.8	12	2.30
BT40-FMB27-100	100	20	60	27	6.8	12	2.50
BT40-FMB32-45	45	22	62	32	6.8	14	1.75
BT40-FMB32-60	60	22	62	32	8.3	14	2.10
BT40-FMB40-60	60	25	78	40	4.8	14	2.80
BT50-FMB22-45	45	18	48	22	4.8	10	4.50
BT50-FMB22-100	100	18	48	22	4.8	10	5.10
BT50-FMB27-60	60	20	60	27	5.8	12	7.00
BT50-FMB27-100	100	20	60	27	5.8	12	8.00
BT50-FMB27-150	150	20	60	27	5.8	12	7.50
BT50-FMB32-60	60	22	62	32	6.8	14	9.50
BT50-FMB32-90	90	22	62	32	6.8	14	11.0
BT50-FMB40-50	50	25	80	40	8.3	16	5.70
BT50-FMB40-90	90	25	80	40	8.3	16	5.80
BT50-FMB40-100	100	25	80	40	8.3	16	5.20
BT50-FMB40F-90	90	26	110	40	8.3	16	6.00

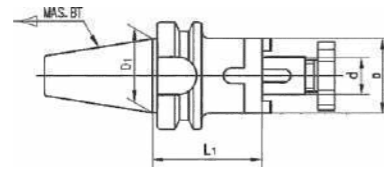
DIN69871/FMB 平面铣刀柄 DIN69871/FMB SHELL MILL ARBORS



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 用于加工中心或数控机床的专用刀柄, 前端装配刀盘
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请注明AD/B
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明具体精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Special tool handle for the processing center or CNC machine's, front end assembly tool
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No.	L1 mm	L2 mm	d1 mm	d2 mm	K1 mm	K2 mm	重量 Wt(kg)
DIN69871.A30-FMB16-45	45	16	16	38	4.8	8	0.60
DIN69871.A30-FMB22-45	45	18	22	48	4.8	10	1.00
DIN69871.A30-FMB27-45	45	20	27	60	5.8	12	1.05
DIN69871.A40-FMB16-45	45	16	16	38	4.8	8	1.10
DIN69871.A40-FMB22-45	45	18	22	48	4.8	10	1.20
DIN69871.A40-FMB27-100	100	20	27	60	5.8	12	1.80
DIN69871.A40-FMB32-45	45	22	32	62	6.8	14	2.30
DIN69871.A40-FMB40-60	60	25	40	78	8.3	16	2.58
DIN69871.A50-FMB22-45	45	18	22	48	4.8	10	3.40
DIN69871.A50-FMB27-45	45	20	27	60	5.8	12	3.50
DIN69871.A50-FMB40-60	60	25	40	78	8.3	16	4.70
DIN69871.A50-FMB50-60	60	25	50	90	9.7	18	5.80
DIN69871.A50-FS40-70	70	25	40	110	8.3	16	5.70
DIN69871.A50-FS60-70	70	25	60	138	12.5	25.4	5.50

BT 锥数控混合插入式铣刀柄  
COMBI SHELL END MILL ARBORS



DIN 锥数控混合插入式铣刀柄  
COMBI SHELL END MILL ARBORS

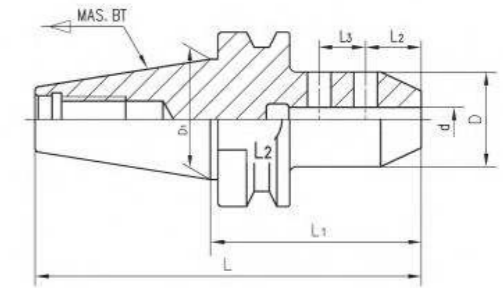


- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 用于加工中心或数控机床的专用刀柄, 前端连接刀盘, 用于铣削
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请标明AD/B型, 如BT40AD/Bx32-60
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明具体精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Special tool handle for the processing center or CNC machine's, front end assembly tool
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No. BT- d-L1	D	D1	重量 Wt(kg)
BT30- 16-55	32	31.75	1.00
BT30- 22-55	40	31.75	1.20
BT30- 27-55	48	31.75	1.20
BT30- 32-60	58	31.75	1.50
BT30- 40-60	70	31.75	2.30
BT40- 16-55	32	44.45	1.20
BT40- 16-100	32	44.45	1.50
BT40- 22-55	40	44.45	1.25
BT40- 22-100	40	44.45	1.85
BT40- 27-55	48	44.45	1.50
BT40- 27-100	48	44.45	2.00
BT40- 32-60	58	44.45	1.50
BT40- 32-100	58	44.45	2.30
BT40- 40-60	70	44.45	2.00
BT40- 40-100	70	44.45	3.00
BT50- 16-63	32	69.85	3.60
BT50- 16-100	32	69.85	4.00
BT50- 22-70	40	69.85	3.70
BT50- 22-100	40	69.85	4.00
BT50- 27-70	48	69.85	4.00
BT50- 27-100	48	69.85	4.40
BT50- 32-70	58	69.85	4.20
BT50- 32-100	58	69.85	4.70
BT50- 40-75	70	69.85	4.50
BT50- 40-100	70	69.85	5.50
BT50- 50-75	90	69.85	4.60
BT50- 50-125	90	69.85	7.20

型号 ModelNo. BT x d-L1	D	D1	重量 Wt(kg)
DIN69871 . A30x 16-55	32	31.75	1.00
DIN69871 . A30x 22-55	40	31.75	2.00
DIN69871 . A30x 27-55	48	31.75	2.10
DIN69871 . A30x 32-60	58	31.75	1.80
DIN69871 . A30x 40-60	70	31.75	7.30
DIN69871 . A40x 16-55	32	44.45	1.20
DIN69871 . A40x 16-100	32	44.45	1.50
DIN69871 . A40x 22-55	40	44.45	1.23
DIN69871 . A40x 22-100	40	44.45	1.83
DIN69871 . A40x 27-55	48	44.45	1.30
DIN69871 . A40x 27-100	48	44.45	2.20
DIN69871 . A40x 32-60	58	44.45	1.50
DIN69871 . A40x 32-100	58	44.45	2.30
DIN69871 . A40x 40-60	70	44.45	1.80
DIN69871 . A40x 40-100	70	44.45	3.00
DIN69871 . A50x 16-63	32	69.85	3.50
DIN69871 . A50x 16-100	32	69.85	3.80
DIN69871 . A50x 22-70	40	69.85	3.60
DIN69871 . A50x 22-100	40	69.85	4.00
DIN69871 . A50x 27-70	48	69.85	3.70
DIN69871 . A50x 27-100	48	69.85	4.40
DIN69871 . A50x 32-70	58	69.85	3.80
DIN69871 . A50x 32-100	58	69.85	4.70
DIN69871 . A50x 40-75	70	69.85	3.90
DIN69871 . A50x 40-100	70	69.85	5.30
DIN69871 . A50x 50-75	90	69.85	4.50
DIN69871 . A50x 50-125	90	69.85	7.20

BT 锥数控立铣刀柄 END MILL ADAPTERS



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 刀柄用于数控机床, 内孔配刀具
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请标明AD/B型, 如BT40AD/Bx12-63
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明具体精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Special tool handle for the CNC machine's, Inner hole with cutter
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

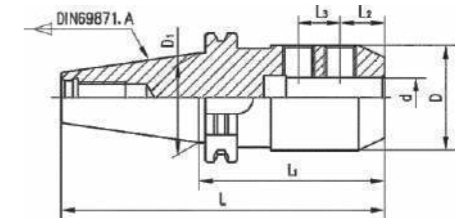
型号 Model No. BT- d-L1	L mm	D mm	D1 mm	L2 mm	L3 mm	重量 Wt(kg)	
BT30- 6-50	98.4	25	31.75	18	/	0.66	
BT30- 6-60	108.4	25	31.75	18		0.72	
BT30- 8-60	108.4	28	31.75	18		0.80	
BT30- 10-60	108.4	35	31.75	20		0.83	
BT30- 10-80	128.4	35	31.75	20		0.83	
BT30- 12-60	108.4	40	31.75	22.5		0.88	
BT30- 14-60	108.4	42	31.75	22.5		1.02	
BT30- 16-75	123.4	44	31.75	24		1.04	
BT30- 18-75	123.4	46	31.75	24		1.26	
BT30- 20-75	123.4	50	31.75	25		1.36	
BT30- 25-90	138.4	53	31.75	24		25	1.50



数控立铣刀柄 END MILL ADAPTERS

型号 Model No. BT- d-L1	L mm	D mm	D1 mm	L2 mm	L3 mm	重量 Wt(kg)	
BT40- 6-50	115.4	25	44.45	18		0.96	
BT40- 6-60	125.4	25	44.45	18		0.98	
BT40- 8-50	115.4	28	44.45	18		1.00	
BT40- 10-63	128.4	35	44.45	20		1.08	
BT40- 12-63	128.4	40	44.45	22.5		1.20	
BT40- 14-63	128.4	42	44.45	22.5		1.22	
BT40- 16-63	128.4	44	44.45	24		1.24	
BT40- 16-70	135.4	44	44.45	24		1.30	
BT40- 18-63	128.4	46	44.45	24		1.36	
BT40- 20-63	128.4	50	44.45	25		1.36	
BT40- 20-70	135.4	50	44.45	25		2.10	
BT40- 25-90	155.4	53	44.45	24		25	2.07
BT40- 25-100	165.4	53	44.45	24		25	2.08
BT40- 32-100	165.4	61	44.45	24		28	2.25
BT40- 32-160	225.4	61	44.45	24	28	2.30	
BT40- 40-120	185.4	80	44.45	30	32	2.50	
BT40- 40-100	165.4	80	44.45	30	32	2.80	
BT50- 6-63	164.8	25	69.85	18		3.20	
BT50- 8-63	164.8	28	69.85	18		3.23	
BT50- 10-63	164.8	35	69.85	20		3.24	
BT50- 12-80	181.8	40	69.85	22.5		3.36	
BT50- 16-80	181.8	44	69.85	24		3.48	
BT50- 20-80	181.8	52	69.85	25		3.52	
BT50- 25-100	201.8	53	69.85	24		25	4.28
BT50- 25-150	251.8	53	69.85	24		25	4.35
BT50- 25-200	301.8	53	69.85	24		25	4.40
BT50- 32-100	201.8	61	69.85	24		28	4.44
BT50- 32-150	251.8	61	69.85	24		28	4.56
BT50- 40-110	211.8	80	69.85	30		32	4.58
BT50- 40-120	221.8	80	69.85	30		32	4.58
BT50- 50-150	251.8	100	69.85	35		35	4.90

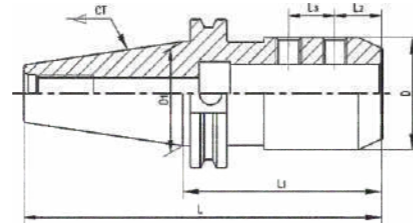
DIN 锥数控立铣刀柄 END MILL ADAPTERS



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 刀柄连接于数控机床, 内孔配刀具
- ★: 订购时请注明刀柄的标准形式。如需中心进水与法兰盘侧面进水冷却的刀柄, 请标明AD/B型, 如DIN69871.40AD/Bx12-50
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: The holder is connected to the CNC machine, the inner hole with the cutter
- ★: When order please indicate the hilt the concrete form. If needs in the center cold and the flange water leakage hilt, please mark AD/B.
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

型号 Model No. DIN69871 . A- d-L1	L	D	D1	L2	L3	重量 Wt(kg)	
DIN69871 . A30- 6-50	97.8	25	31.75	18		0.58	
DIN69871 . A30- 8-50	97.8	28	31.75	18		0.64	
DIN69871 . A30- 10-50	97.8	35	31.75	20		0.72	
DIN69871 . A30- 12-50	97.8	40	31.75	22.5		0.80	
DIN69871 . A30- 16-50	97.8	44	31.75	24		0.96	
DIN69871 . A40- 6-50	118.4	25	44.45	18		0.92	
DIN69871 . A40- 8-50	118.4	28	44.45	18		0.96	
DIN69871 . A40- 10-50	118.4	35	44.45	20		2.00	
DIN69871 . A40- 12-63	131.4	40	44.45	22.5		1.12	
DIN69871 . A40- 14-50	118.4	42	44.45	22.5		1.12	
DIN69871 . A40- 16-63	131.4	44	44.45	24		1.20	
DIN69871 . A40- 18-63	131.4	46	44.45	24		1.20	
DIN69871 . A40- 20-63	131.4	50	44.45	25		1.32	
DIN69871 . A40- 25-100	168.4	53	44.45	24		25	2.04
DIN69871 . A40- 32-100	168.4	61	44.45	24	28	2.24	
DIN69871 . A40- 40-120	188.4	80	44.45	30	32	2.40	
DIN69871 . A50- 6-63	164.75	25	69.85	18		3.30	
DIN69871 . A50- 8-63	164.75	28	69.85	18		3.40	
DIN69871 . A50- 10-63	164.75	35	69.85	20		3.42	
DIN69871 . A50- 12-63	164.75	40	69.85	22.5		3.42	
DIN69871 . A50- 14-63	164.75	42	69.85	22.5		3.44	
DIN69871 . A50- 16-63	164.75	44	69.85	24		3.46	
DIN69871 . A50- 18-63	164.75	46	69.85	24		3.48	
DIN69871 . A50- 20-63	164.75	50	69.85	25		4.24	
DIN69871 . A50- 25-80	181.75	53	69.85	24		25	4.40
DIN69871 . A50- 32-100	201.75	61	69.85	24		28	4.52
DIN69871 . A50- 40-120	221.75	80	69.85	30		32	4.72

CAT 锥数控立铣刀柄 END MILL ADAPTERS



- ★: 刀柄采用进口高强度材质, 经特殊处理后产品具有高耐磨性
- ★: 刀柄连接于数控机床, 内孔配刀具
- ★: 根据需要可提供动平衡刀柄, 动平衡标准精度为G6.3/12000rpm, 精密精度为G2.5/20000rpm, 订购时请注明精度
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: The holder is connected to the CNC machine, the inner hole with the cutter
- ★: According to needs to be possible to provide the balanced hilt, the standard precision is G6.3/12000rpm, the precise precision is G2.5/20000rpm.

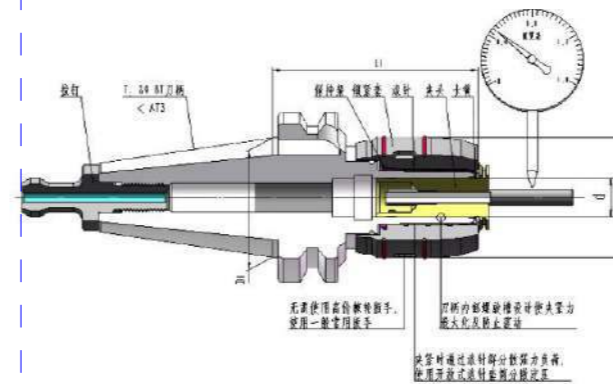
型号 Model No. CAT-D-L1	L mm	D mm	D1 mm	L2 mm	L3 mm	
CAT40-3/16"-2~1/2"	131.8	19.05	44.45	14.3		
CAT40-1/4"-2~1/2"	131.8	20.6		19.8		
CAT40-5/16"-2~1/2"	131.8	22.22		19.8		
CAT40-3/8"-2~1/2"	131.8	31.75		19.8		
CAT40-1/4"-63	131.25	20.6		19.8		
CAT40-1/2"-2~5/8"	134.9	44.45		22.2		
CAT40-5/8"-2~1/2"	131.8	44.45		23.8		
CAT40-3/4"-3~3/4"	163.5	44.45		25.4		
CAT40-7/8"-4"	169.9	52		27		22.2
CAT40-1"-4"	169.9	63		28.6		25.4
CAT40-1~1/4"-4~1/8"	173	69.85	28.6	25.4		
CAT50-3/8"-2.5"	165.1	31.75	69.85	19.8		
CAT50-3/8"-6~1/2"	266.7	31.75		19.8		
CAT50-1/2"-2~5/8"	168.3	44.45		22.2		
CAT50-1/2"-4~5/8"	219.1	44.45		22.2		
CAT50-5/8"-3~3/4"	196.85	44.45		23.8		
CAT50-5/8"-5~3/4"	247.7	44.45		23.8		
CAT50-3/4"-3~3/4"	196.85	44.45		25.4		
CAT50-3/4"-5~3/4"	247.7	44.45		25.4		
CAT50-7/8"-3~3/4"	196.85	52		27		22.2
CAT50-7/8"-5~3/4"	247.7	52		27		22.2
CAT50-1"-4"	203.2	63		28.6		25.4
CAT50-1"-6"	254	63		28.6		25.4
CAT50-1~1/4"-4"	203.2	69.85		28.6		25.4
CAT50-1~1/4"-6"	254	69.85		28.6		25.4
CAT50-1~1/2"-4"	203.2	69.85		28.6		25.4
CAT50-1~1/2"-6"	254	69.85	28.6	25.4		
CAT50-2"-5~5/8"	244.5	69.85	30.2	36.5		
CAT50-2"-7~5/8"	295.3	69.85	30.2	36.5		

BT 数控强力刀柄 POWER MILLING CHUCK

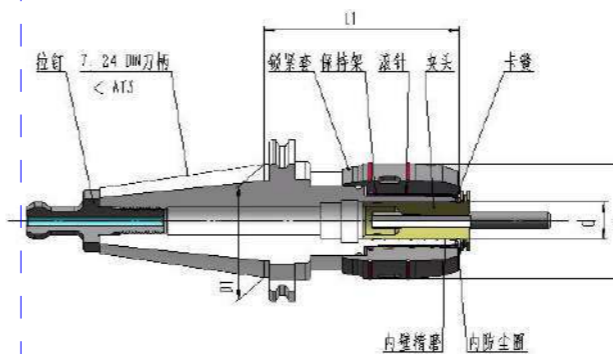


- ★: 采用高强度特殊材质, 淬火、回火后经特殊处理, 产品性能稳定, 耐磨耐用
- ★: 采用滚针式旋转夹紧, 力度均匀牢固, 降低了切削振动, 可用于强力切削
- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: Adopt needle rolling rotary clamping, the force is even and firm, reduce the cutting vibration, can be used for strong cutting

型号 Model No. BT- MC-L1	d	D	D1
BT40- C20-100	20	56	44.45
BT40- C20-135	20	56	
BT40- C25-105	25	63	
BT40- C32-110	32	70	
BT40- C32-135	32	70	
BT40- C42-115	42	90	69.85
BT50- C20-100	20	56	
BT50- C32-110	32	70	
BT50- C32-165	32	70	
BT50- C42-125	42	90	
BT50- C42-150	42	90	
BT50- C42-165	42	90	



DIN69871 数控强力刀柄 POWER MILLING CHUCK



型号 Model No. DIN69871- MC-L1	d	D	D1
DIN69871.40- C20-100	20	56	44.45
DIN69871.40- C20-120	20	56	
DIN69871.40- C25-105	25	63	
DIN69871.40- C32-105	32	70	
DIN69871.40- C32-135	32	70	
DIN69871.40- C42-135	42	90	69.85
DIN69871.50- C20-110	20	56	
DIN69871.50- C20-150	20	56	
DIN69871.50- C25-105	25	63	
DIN69871.50- C32-150	32	70	
DIN69871.50- C32-165	32	70	
DIN69871.50- C42-130	42	90	
DIN69871.50- C42-150	42	90	
DIN69871.50- C42-165	42	90	

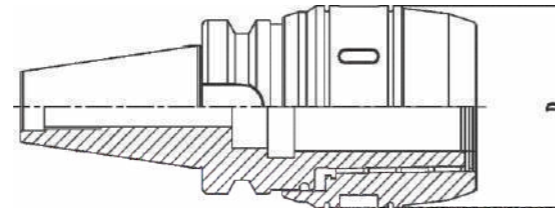
优 耐 淬 厚

精选钢材 Best steel    耐磨耐用 Good quality    淬火加硬 Quenching hardened    加厚设计 Increase thickness

滚针式铣夹头套装 MILLING CHUCK SET

- ★: 具有夹紧力大, 定心精度高的特点, 特别适用于强力切削加工
- ★: 可适用于机床主轴锥度为MT2~MT5, 7:24 30~50及R8锥的各种铣床
- ★: 每套铣夹头包括1支夹头体, 整套夹头及1支扳手

- ★: The milling chuck clamp with exceptional force and with a very tight tolerance on run out
- ★: Used for the spindle taper of milling machine:R8, MT2 ~ MT5,7:24 30~50
- ★: A set included:1 collet chuck, full set of collets and 1spann



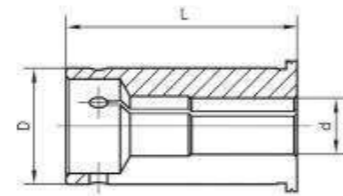
- ★: 订货时, 请注明夹头体的型号及拉杆螺纹  
Please notify the thread of collet chuck draw bar

- ★: 我们还可以根据您的要求, 提供不同规格及件数的成套夹头, 夹头体  
We are glad supply collets and chucks with different shank and quantities according to your requirement

型号 Model No.	支/套 Pcs/set	夹持范围 clamping range (mm)	柄部 Shank	D (mm)
C20	8	4 5 6 8 10 12 14 16	R8 MT2 MT3 MT4 MT5 NT30 NT40 NT50	56
C25	10	4 5 6 8 10 12 14 16 18 20		63
C32	11	4 5 6 8 10 12 14 16 18 20 25		70
C42	12	6 8 10 12 14 16 18 20 25 28 30 32		90

直柄夹头 STRAIGHT SHANK COLLETS

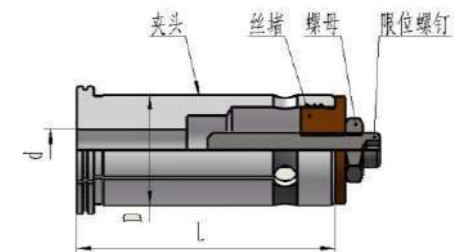
- ★: 采用高强度特殊材质, 淬火、回火后经深冷处理, 产品性能稳定, 耐磨耐用
- ★: 采用滚针式旋转夹紧, 力度均匀牢固, 降低了切削振动, 可用于强力切削
- ★: 属于高精度弹性夹头, 定心精度高
- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: Adopt needle rolling rotary clamping, the force is even and firm, reduce the cutting vibration, can be used for strong cutting
- ★: High precision spring collet, high centering accuracy



型号 Model No.	D (mm)	d (mm)	L (mm)
C20	20	4-16	50
C22	22	4-16	55
C25	25	4-20	60
C32	32	4-25	65
C40	40	6-32	80
C42	42	6-32	80

可限位直柄铣夹头 MILLING COLLET

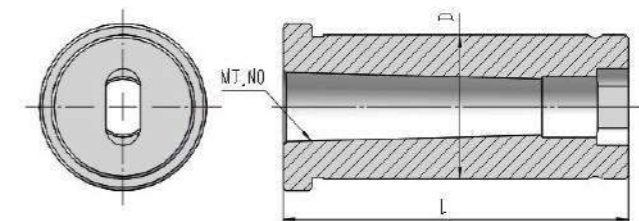
- ★: 采用高强度特殊材质, 淬火、回火后经深冷处理, 产品性能稳定, 耐磨耐用
- ★: 夹头增加了限位结构, 在对刀具定长的同时使夹持更稳固
- ★: 采用滚针式旋转夹紧, 力度均匀牢固, 降低了切削振动, 可用于强力切削
- ★: 属于高精度弹性夹头, 定心精度高
- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: The clamp has a limit structure, which makes the clamping more stable while the length of the tool is fixed, For strong cutting work.
- ★: Adopt needle rolling rotary clamping, the force is even and firm, reduce the cutting vibration, can be used for strong cutting
- ★: High precision spring collet, high centering accuracy



型号 Model No.	D (mm)	d (mm)	L (mm)
C20	20	4-16	60
C22	22	4-16	65
C25	25	4-20	70
C32	32	4-25	75
C40	40	6-32	90
C42	42	6-32	90

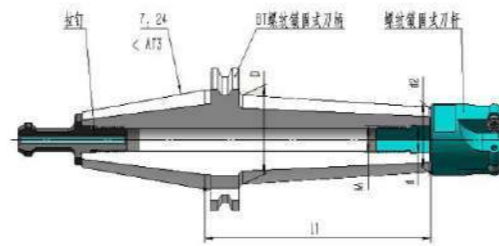
直柄/MT变径铣夹头 MILLING ADAPTER

- ★: 采用高强度特殊材质, 淬火、回火后经深冷处理, 产品性能稳定, 耐磨耐用
- ★: 采用滚针式旋转夹紧, 力度均匀牢固, 降低了切削振动, 可用于强力切削
- ★: 变径套内锥可夹持莫式柄刀具
- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: Adopt needle rolling rotary clamping, the force is even and firm, reduce the cutting vibration, can be used for strong cutting
- ★: The inner cone of the sleeve can clamp the MT cutting tool



型号 Model No.	D (mm)	MT. NO	L (mm)
C25	25	MT1	60
C32	32	MT1	65
C40	40	MT1 MT2	80
C42	42	MT1 MT2	80

螺纹锁固式刀柄 THREAD LOCKING TYPE CHUCK

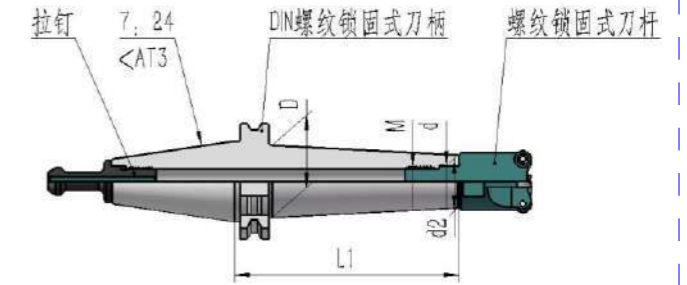


- ★: 采用高强度特殊材质, 经特殊处理后产品具有高耐磨性
- ★: 淬火硬度可达HRC58-62, 渗碳深度>0.8mm
- ★: 标准动平衡精度G6.3/12000rpm
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Quenching hardness up to HRC58-62, carburizing depth of > 0.8 mm
- ★: Standard dynamic equilibrium G6.3/12000rpm

- ★: 高性能可换刀头与刚性刀柄的结合采用螺纹链接可迅速更换, 降低成本
- ★: 螺纹刀柄的锁固方式依靠螺牙来锁紧操作简单方便
- ★: The combination of high performance replaceable tool head and rigid tool handle adopts screw joint it can be replaced quickly to reduce the cost.
- ★: The locking method of threaded tool handle relies on the screw teeth for simple locking operation convenient

型号 Model No.	M	d1	d2	D	L1
BT30-MCA06-50	6	6.5	10	20	50
BT30-MCA08-50	8	8.5	13	23	50
BT30-MCA08-75	8	8.5	13	23	75
BT30-MCA08-100	8	8.5	13	25	100
BT30-MCA10-50	10	10.5	18	23	50
BT30-MCA10-75	10	10.5	18	28	75
BT30-MCA10-100	10	10.5	18	32	100
BT30-MCA12-50	12	12.5	21	30	50
BT30-MCA12-75	12	12.5	21	31	75
BT30-MCA12-100	12	12.5	21	36	100
BT30-MCA16-50	16	17	29	34	50
BT30-MCA16-75	16	17	29	34	75
BT30-MCA16-100	16	17	29	40	100
BT40-MCA06-50	6	6.5	10	20	50
BT40-MCA08-50	8	8.5	13	23	50
BT40-MCA08-75	8	8.5	13	23	75
BT40-MCA08-100	8	8.5	13	25	100
BT40-MCA10-50	10	10.5	18	23	50
BT40-MCA10-75	10	10.5	18	28	75
BT40-MCA10-100	10	10.5	18	32	100
BT40-MCA12-50	12	12.5	21	30	50
BT40-MCA12-75	12	12.5	21	31	75
BT40-MCA12-100	12	12.5	21	36	100
BT40-MCA16-50	16	17	29	34	50
BT40-MCA16-75	16	17	29	34	75
BT40-MCA16-100	16	17	29	40	100
BT50-MCA06-50	6	6.5	10	20	50
BT50-MCA08-50	8	8.5	13	23	50
BT50-MCA08-75	8	8.5	13	23	75
BT50-MCA08-100	8	8.5	13	25	100
BT50-MCA10-50	10	10.5	18	23	50
BT50-MCA10-75	10	10.5	18	28	75
BT50-MCA10-100	10	10.5	18	32	100
BT50-MCA12-50	12	12.5	21	30	50
BT50-MCA12-75	12	12.5	21	31	75
BT50-MCA12-100	12	12.5	21	36	100
BT50-MCA16-50	16	17	29	34	50
BT50-MCA16-75	16	17	29	34	75
BT50-MCA16-100	16	17	29	40	100

螺纹锁固式刀柄 THREAD LOCKING TYPE CHUCK



- ★: 采用高强度特殊材质, 经特殊处理后产品具有高耐磨性
- ★: 淬火硬度可达HRC58-62, 渗碳深度>0.8mm
- ★: 标准动平衡精度G6.3/12000rpm
- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Hardness up to HRC58-62, carburizing depth of > 0.8mm
- ★: Standard dynamic equilibrium G6.3/12000rpm

- ★: 高性能可换刀头与刚性刀柄的结合采用螺纹链接可迅速更换, 降低成本。
- ★: 螺纹刀柄的锁固方式依靠螺牙来锁紧操作简单方便
- ★: The combination of high performance replaceable tool head and rigid tool handle adopts screw joint it can be replaced quickly to reduce the cost.
- ★: The locking method of threaded tool handle relies on the screw teeth for simple locking operation convenient

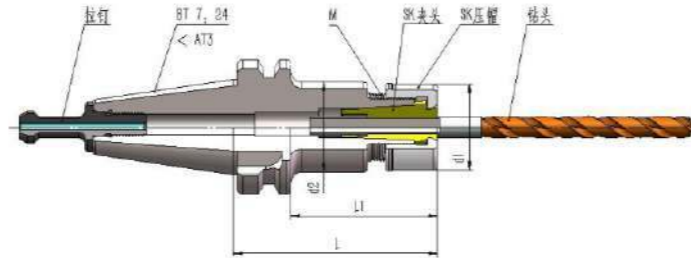
型号 Model No.	M	d	d2	D	L1
DIN69871_30-MCA06-50	6	6.5	10	20	50
DIN69871_30-MCA08-50	8	8.5	13	23	50
DIN69871_30-MCA08-75	8	8.5	13	23	75
DIN69871_30-MCA08-100	8	8.5	13	25	100
DIN69871_30-MCA10-50	10	10.5	18	23	50
DIN69871_30-MCA10-75	10	10.5	18	28	75
DIN69871_30-MCA10-100	10	10.5	18	32	100
DIN69871_30-MCA12-50	12	12.5	21	30	50
DIN69871_30-MCA12-75	12	12.5	21	31	75
DIN69871_30-MCA12-100	12	12.5	21	36	100
DIN69871_30-MCA16-50	16	17	29	34	50
DIN69871_30-MCA16-75	16	17	29	34	75
DIN69871_30-MCA16-100	16	17	29	40	100
DIN69871_40-MCA06-50	6	6.5	10	20	50
DIN69871_40-MCA08-50	8	8.5	13	23	50
DIN69871_40-MCA08-75	8	8.5	13	23	75
DIN69871_40-MCA08-100	8	8.5	13	25	100
DIN69871_40-MCA10-50	10	10.5	18	23	50
DIN69871_40-MCA10-75	10	10.5	18	28	75
DIN69871_40-MCA10-100	10	10.5	18	32	100
DIN69871_40-MCA12-50	12	12.5	21	30	50
DIN69871_40-MCA12-75	12	12.5	21	31	75
DIN69871_40-MCA12-100	12	12.5	21	36	100
DIN69871_40-MCA16-50	16	17	29	34	50
DIN69871_40-MCA16-75	16	17	29	34	75
DIN69871_40-MCA16-100	16	17	29	40	100
DIN69871_50-MCA06-50	6	6.5	10	20	50
DIN69871_50-MCA08-50	8	8.5	13	23	50
DIN69871_50-MCA08-75	8	8.5	13	23	75
DIN69871_50-MCA08-100	8	8.5	13	25	100
DIN69871_50-MCA10-50	10	10.5	18	23	50
DIN69871_50-MCA10-75	10	10.5	18	28	75
DIN69871_50-MCA10-100	10	10.5	18	32	100
DIN69871_50-MCA12-50	12	12.5	21	30	50
DIN69871_50-MCA12-75	12	12.5	21	31	75
DIN69871_50-MCA12-100	12	12.5	21	36	100
DIN69871_50-MCA16-50	16	17	29	34	50
DIN69871_50-MCA16-75	16	17	29	34	75
DIN69871_50-MCA16-100	16	17	29	40	100

# 工具系统 | TOOL SYSTEM



BT/SK 高转速精密刀柄系列 HIGH SPEED PRECISION HOLDER SERIES

BT/SK SK高转速精密刀柄系列 BT/SK SK high speed precision holder series



- ★: 刀柄采用高强度特殊材质, 经特殊处理后产品具有高耐磨性
- ★: 锥度精度: <AT3
- ★: 硬度: HRC58-62
- ★: 渗碳深度 : >0.8mm
- ★: 刀柄精密动平衡 G2.5/20000rpm

- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: Precision taper: <AT3
- ★: Hardness: HRC58-62
- ★: Carbon Depth: >0.8mm
- ★: Shank dynamic balance standard: G2.5/20000rpm

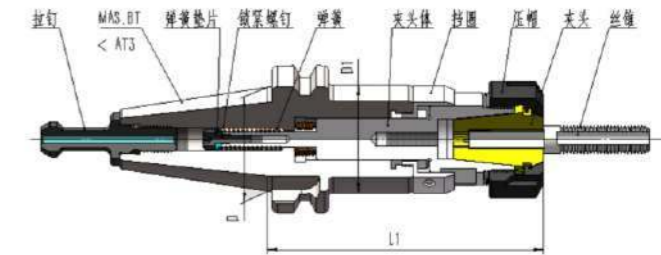
型号 Cat. No	d1mm	d2mm	Lmm	M	螺帽 Nut
BT30-SK10-60	27.5	27.6	60	M21.5x1.0	SK10
BT30-SK10-90	27.5	27.6	90	M21.5x1.0	SK10
BT30-SK10-120	27.5	27.6	120	M21.5x1.0	SK10
BT30-SK16-60	40	42	60	M32x1.5	SK16
BT30-SK16-90	40	42	90	M32x1.5	SK16
BT30-SK16-120	40	42	120	M32x1.5	SK16
BT30-SK20-60	48	50	60	M40x1.5	SK20
BT30-SK20-90	48	50	90	M40x1.5	SK20
BT40-SK10-60	27.5	27.6	60	M21.5x1.0	SK10
BT40-SK10-90	27.5	27.6	90	M21.5x1.0	SK10
BT40-SK10-120	27.5	27.6	120	M21.5x1.0	SK10
BT40-SK10-150	27.5	27.6	150	M21.5x1.0	SK10
BT40-SK16-60	40	42	60	M32x1.5	SK16
BT40-SK16-90	40	42	90	M32x1.5	SK16
BT40-SK16-120	40	42	120	M32x1.5	SK16



# 工具系统 | TOOL SYSTEM

ELASTIC EXPANSION TAPPING THE HANDLE 弹性伸缩攻牙刀柄

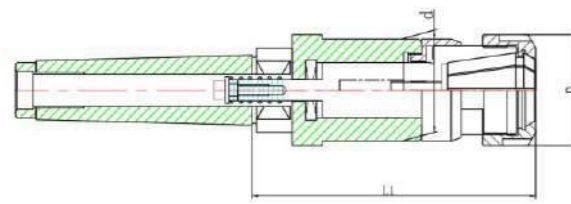
弹性伸缩攻牙刀柄 ELASTIC EXPANSION TAPPING THE HANDLE



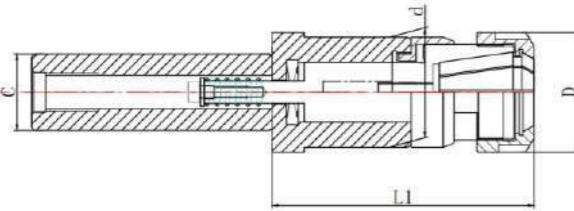
- ★: 该刀柄是攻丝专用刀柄, 内部含有弹簧, 在柔性攻丝的同时既保护丝锥, 防止丝锥折断, 也延长了丝锥的使用寿命
- ★: 攻完螺纹反转时, 刀柄在拉伸方向也提供补偿, 减少了对丝锥的损伤
- ★: 可用于自动工作机床, 多轴攻丝机和没有同步攻丝功能的数控加工中心上
- ★: Special holder for tapping, with a spring inside, which can not only protect the tap and prevent the tap from breaking, but also extend the service life of the tap
- ★: When the tap is reversed after tapping, the holder also provides compensation in the drawing direction, reducing the damage to the tap
- ★: It can be used on automatic working machine tools, multi-axis tapping machines and nc machining centers without synchronous tapping function

型号 Model No.	D	L1	D1
BT30-TER20-100	31.75	100	36
BT30-TER25-100		100	42
BT40-TER20-100	44.45	100	36
BT40-TER25-110		110	42
BT40-TER32-110		110	46
BT40-TER40-120		120	56
BT50-TER20-120	69.85	120	36
BT50-TER25-120		120	42
BT50-TER32-120		120	46
BT50-TER40-130		130	56
型号 Model No.	D	L1	D1
DIN69871.40-TER20-100	44.45	100	36
DIN69871.40-TER25-110		110	42
DIN69871.40-TER32-110		110	46
DIN69871.40-TER40-120		120	56

MS/直柄TER攻丝刀柄 MS/straight shank TER tapping holder



型号 Model No.	L1 mm	D mm	d mm
MS4-TER40	130	63	56
MS4-TER32	120	50	46
MS4-TER25	120	42	42
MS4-TER20	110	34	36



型号 Model No.	L1 mm	d mm	D mm
C32-TER40	130	56	63
C40-TER40	130	56	63
C32-TER32	120	46	50
C40-TER32	120	46	50
C1-1/4-TER32	120	46	50
C40-TER25	120	42	42
C32-TER25M	120	42	35
C32-TER20	110	36	34
C40-TER20	110	36	34

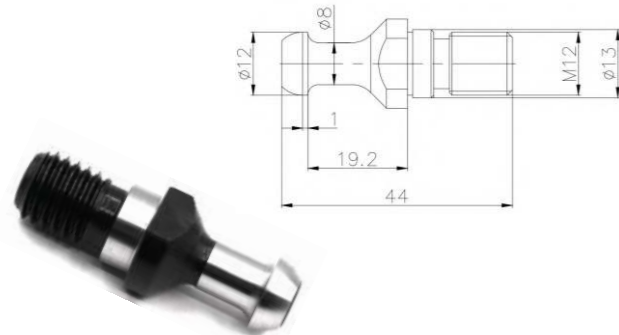
ISO30 木工数控雕刻机刀柄 The handle CNC engraving machine



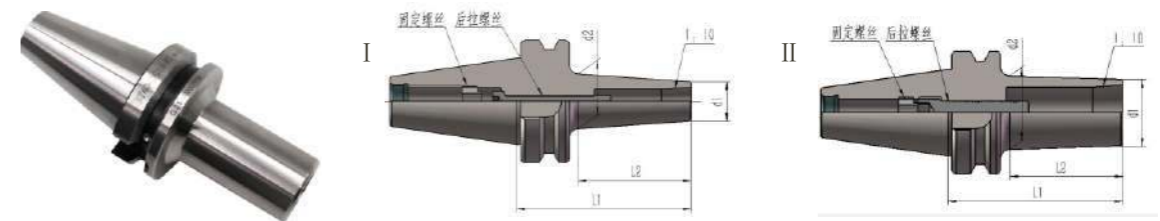
ISO30拉钉 RETENTION KNOB

型号	L1	D
ISO30-ER32-L1		
ISO30-ER32-45	45	45
ISO30-ER32-60	60	45
ISO30-ER32-100	100	45
ISO30-OZ25-70	70	45

哥伦布拉钉 COLUMBUS



BT/DC后拉式立铣刀夹头体 BT/DC SILM-FIT COLLET CHUCK



- ★: 采用高强度特殊材质, 经特殊处理后产品具有高耐磨性
- ★: 前端小径设计, 降低干涉
- ★: 淬火硬度可达HRC58-62, 渗碳深度>0.8mm
- ★: 标准动平衡精度G2.5/20000rpm

- ★: The holder is made of imported high strength material and has high wear resistance after special treatment
- ★: The slim design reduces interference while cutting
- ★: Quenching hardness up to HRC58-62, carburizing depth of >0.8mm
- ★: Standard dynamic equilibrium 2.5/20000rpm

规格Spec.	夹持范围 Gripping Range	筒夹 Collet	L	L	d	d	后拉螺丝 Slim-Fit Screw	固定螺丝 Fixed Screw	扳手 Wrench	扭力值 (N.m) Torque	Fig.	重量 (KGS) Weight
BT30-DC06-70	2-6	DC06	70	38	14	18.1	DC06-M5	DC06-M12	PT5	6.0	I	1.00
BT30-DC06-100			100	68	14	21.2	DC06-M5					0.60
BT30-DC12-70	3-12	DC12	70	47	26	33.4	DC12-M10	DC12-M14	PT6	10.0	II	0.63
BT30-DC12-100			100	77	26	38.1						0.84
BT30-DC20-80	3-20	DC20	80	55	34	37.7	DC20-M12	DC20-M16	PT8	12.0	II	0.68
BT30-DC20-100			100	77	34	39.2						0.85
BT40-DC06-70	2-6	DC06	70	28	14	17.1	DC06-M5	DC06-M12	PT5	6.0	I	1.2
BT40-DC06-100			100	58	14	20.1						DC06-M5
BT40-DC12-70	3-12	DC12	70	33	26	31	DC12-M10	DC12-M14	PT6	10.0	II	1.3
BT40-DC12-100			100	63	26	31.6						DC12-M10
BT40-DC20-70	3-20	DC20	70	33	35	38.1	DC20-M12	DC20-M16	PT8	12.0	II	1.50
BT40-DC20-100			100	68	35	41						DC20-M12
BT50-DC06-70	2-6	DC06	70	17	14	15.9	DC06-M5	DC06-M12	PT5-S	6.0	I	4.00
BT50-DC06-100			100	47	14	19.1						DC06-M5
BT50-DC12-70	3-12	DC12	70	22	26	28.1	DC12-M10	DC12-M14	PT6-S	10.0	II	4.00
BT50-DC12-100			100	52	26	30.6						DC12-M10
BT50-DC20-70	3-20	DC20	70	22	35	36.9	DC20-M12	DC20-M16	PT8-S	12.0	II	3.90
BT50-DC20-100			100	52	35	39.6						DC20-M12

PT扳手 PT-Type Wrench



规格 Spec.	S	L	扭力值 (N.m) Torque
PT5	5	70	6.0
PT5-S	5	130	
PT6	6	70	10.0
PT6-S	6	130	
PT8	8	140	12.0

固定螺丝 Fixed Screw



规格Spec.
DC06-M12
DC12-M14
DC20-M16

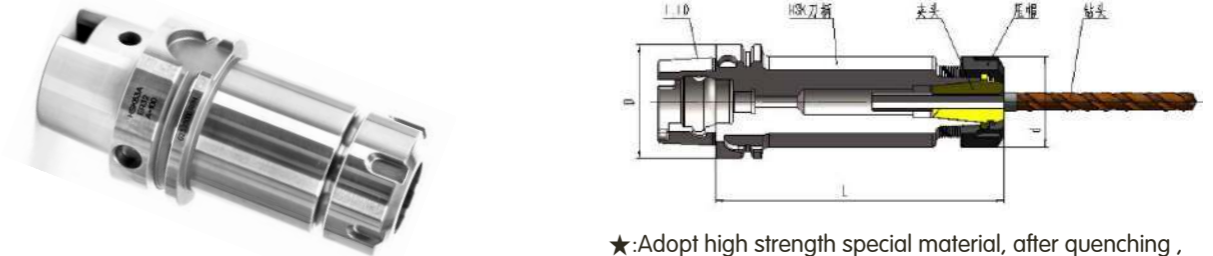
DC专用夹头 DC COLLET



- ★:采用高强度特殊材质, 淬火、回火后经深冷处理, 产品性能稳定, 耐磨耐用
- ★:属于高精度弹性夹头, 定心精度高
- ★:适用模具产业
- ★:Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★:High precision spring collet, high centering accuracy
- ★:Applicable industry: mold industry

规格 Spec.	夹持范围d Clamping Range	D	L	刀具最小夹持长度 Min.	(KGS) Weight		
DC06-d	2.0-6.0	9.6	36	16	0.02		
DC12-3	3.0	22	60	20	0.06		
DC12-4	4.0			22	0.18		
DC12-5	5.0						
DC12-6	6.0			30	0.18		
DC12-8	8.0						
DC12-10	10.0						
DC12-12	12.0			27	70	22	0.18
DC20-3	3.0					20	0.20
DC20-4	4.0	22	0.20				
DC20-5	5.0						
DC20-6	6.0						
DC20-8	8.0						
DC20-10	10.0	32	0.20				
DC20-12	12.0						
DC20-16	16.0						
DC20-20	20	26	0.20				

HSK(A型) ER铣刀柄 ER COLLET CHUCK

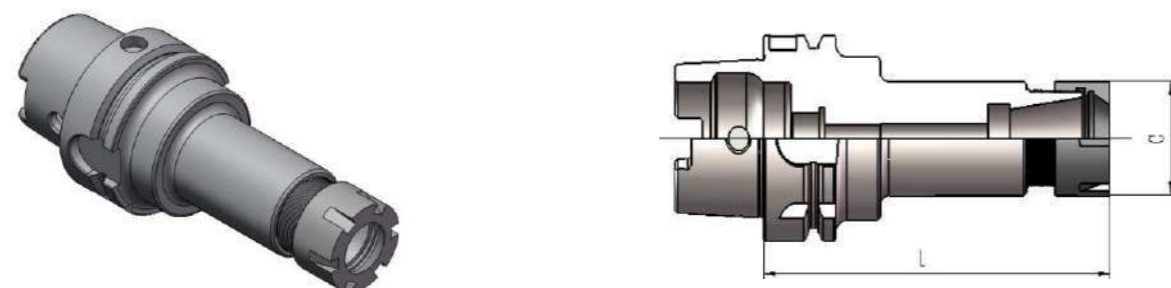


- ★:HSK刀柄采用高强度材质加工, 在淬火、回火后经深冷处理, 性能稳定, 耐磨耐用
- ★:属于高速切削应用刀具的柄, 可承受最大弯矩、扭矩
- ★:ER夹头符合DIN6499标准
- ★:整支通孔, 利于出水防震
- ★:夹头精度有标准级(0.01mm以内), A级(0.005mm)
- ★:刀具置入筒夹必须先置入螺帽, 再装入刀具, 最后锁固入刀柄体

- ★:Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: HSK tool holder is used for high speed cutting applications, can withstand the maximum bending moment, torque
- ★:nut with balls, strong clamping power, Special purpose for heavy cutting.
- ★:Standard: DIN6388
- ★:With whole through hole, is beneficial to prevent vibration when water out
- ★:First put the collet into the nut, then the drill bit into collet, and finally tighten the nut to lock the holder

型号 Model No	夹持范围 clamping range	L mm	d mm	D mm
HSK.A-ER-L1				
HSK40A-ER20-80	1-13	80	34	40
HSK40A-ER25-80	1-16	80	42	40
HSK50A-ER16-80	1-10	80	28	50
HSK50A-ER16-100	1-10	100	28	50
HSK50A-ER25-80	1-16	80	42	50
HSK50A-ER25-100	1-16	100	42	50
HSK50A-ER32-100	2-20	100	50	50
HSK50A-ER32-120	2-20	120	50	50
HSK63A-ER16-80	1-10	80	28	63
HSK63A-ER16-100	1-10	100	28	63
HSK63A-ER25-80	1-16	80	42	63
HSK63A-ER25-100	1-16	100	42	63
HSK63A-ER25-120	1-16	120	42	63
HSK63A-ER32-80	2-20	80	50	63
HSK63A-ER32-100	2-20	100	50	63
HSK63A-ER32-120	2-20	120	50	63
HSK63A-ER40-80	3-26	80	63	63
HSK63A-ER40-100	3-26	100	63	63
HSK63A-ER40-120	3-26	120	63	63
HSK100A-ER25-100	1-16	100	42	100
HSK100A-ER25-120	1-16	120	42	100
HSK100A-ER32-100	2-20	100	50	100
HSK100A-ER32-120	2-20	120	50	100
HSK100A-ER40-100	3-26	100	63	100
HSK100A-ER40-120	3-26	120	63	100

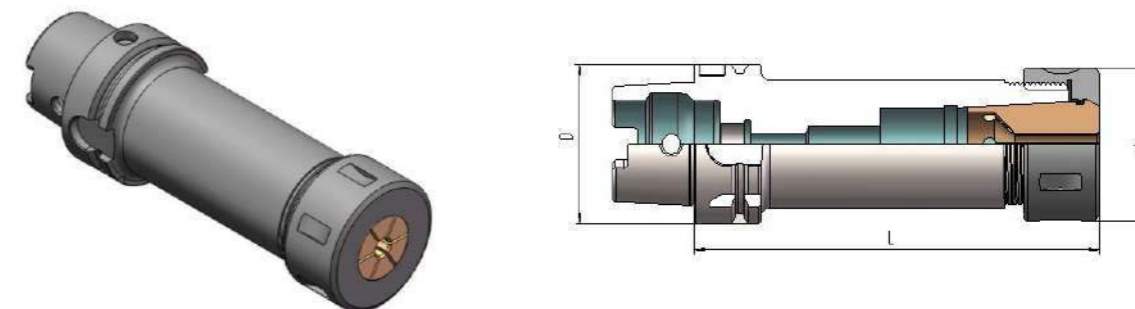
HSK(A型)ERM型铣刀柄 COLLET CHUCK



- ★: HSK刀柄采用高强度材质加工, 在淬火、回火后经深冷处理, 性能稳定, 耐磨耐用
- ★: 该刀柄是用于高速切削应用刀具的柄, 可承受最大弯矩、扭矩
- ★: 夹头样式有弹性、止水、刚性攻丝、攻丝止水可供选择。
- ★: 整支通孔, 利于出水防震
- ★: 刀柄内锥跳动精度0.002mm
- ★: 刀具置入筒夹必须先置入螺帽, 再装入刀具, 最后锁固入刀柄体
- ★: HSK Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: HSK tool holder is used for high speed cutting applications, can withstand the maximum bending moment, torque
- ★: Collet has spring sealed, tapping, tapping sealed and other types available.
- ★: With whole through hole, is beneficial to prevent vibration when water out
- ★: The chuck run-out precision have standard grade 0.002mm
- ★: First put the collet into the nut, then the drill bit into collet, and finally tighten the nut to lock the holder

型号 MODEL No.	夹持范围CLAMPING RANGE	C mm	L mm	NUT/COLLET	重量(kg)
HSK 50A-ER11M-75	0.5~7.0	16	75	ER11M/ER11	0.3
HSK 50A-ER16M-90	0.5~10.0	22	90	ER16M/ER16	0.4
HSK 50A-ER20M-95	0.5~13.0	28	95	ER20M/ER20	0.8
HSK 50A-ER25M-105	1.0~16.0	35	105	ER25M/ER25	1.2
HSK 63A-ER11M-75	0.5~7.0	16	75	ER11M/ER11	0.8
HSK 63A-ER16M-90	0.5~10.0	22	90	ER16M/ER16	1.0
HSK 63A-ER20M-95	0.5~13.0	28	95	ER20M/ER20	1.2
HSK 63A-ER25M-105	1.0~16.0	35	105	ER25M/ER25	1.4
HSK100A-ER11M-85	0.5~7.0	16	85	ER11M/ER11	2.4
HSK100A-ER16M-95	0.5~10.0	22	95	ER16M/ER16	2.7
HSK100A-ER20M-105	0.5~13.0	28	105	ER20M/ER20	3.0
HSK100A-ER25M-120	1.0~16.0	35	120	ER25M/ER25	3.2

HSK(A型)EOC/OZ型铣刀柄 COLLET CHUCK

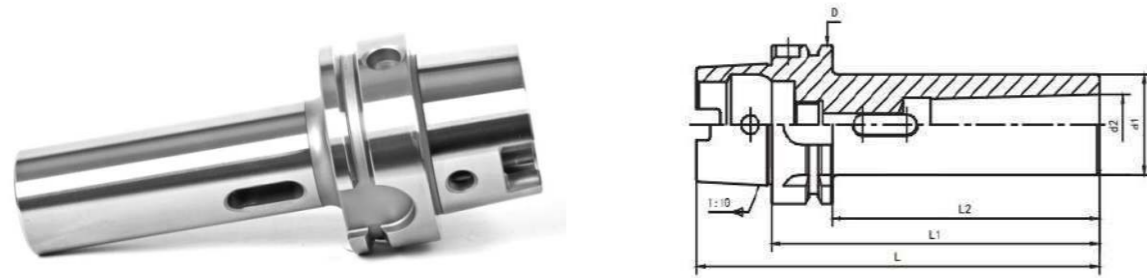


- ★: HSK刀柄采用高强度材质加工, 在淬火、回火后经深冷处理, 性能稳定, 耐磨耐用
- ★: 该刀柄是用于高速切削应用刀具的柄, 可承受最大弯矩、扭矩
- ★: 钢珠螺帽设计, 增大了夹持力, 属于重切削专用
- ★: 筒夹规格符合DIN6388标准
- ★: 整支通孔, 利于出水防震
- ★: 刀具置入筒夹必须先置入螺帽, 再装入刀具, 最后锁固入刀柄体
- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: HSK tool holder is used for high speed cutting applications, can withstand the maximum bending moment, torque
- ★: nut with balls, strong clamping power, Special purpose for heavy cutting.
- ★: Standard: DIN6388
- ★: With whole through hole, is beneficial to prevent vibration when water out
- ★: First put the collet into the nut, then the drill bit into collet, and finally tighten the nut to lock the holder

规格 TYPE —L	L mm	D mm	d mm	重量(KGS) WEIGHT
HSK 50A-OZ25-100	100	50	60	1.10
HSK 50A-OZ25-120	120			1.30
HSK 50A-OZ25-150	150			1.50
HSK 50A-OZ32-120	120		72	2.1
HSK 50A-OZ32-150	150			2.30
HSK 63A-OZ25-100	100	63	60	1.30
HSK 63A-OZ25-120	120			1.50
HSK 63A-OZ25-150	150			1.70
HSK 63A-OZ32-120	120		72	2.30
HSK 63A-OZ32-150	150			
HSK100A-OZ25-100	100	100	60	3.50
HSK100A-OZ25-120	120			3.70
HSK100A-OZ25-150	150			4.70
HSK100A-OZ32-130	130		72	4.10
HSK100A-OZ32-150	150			



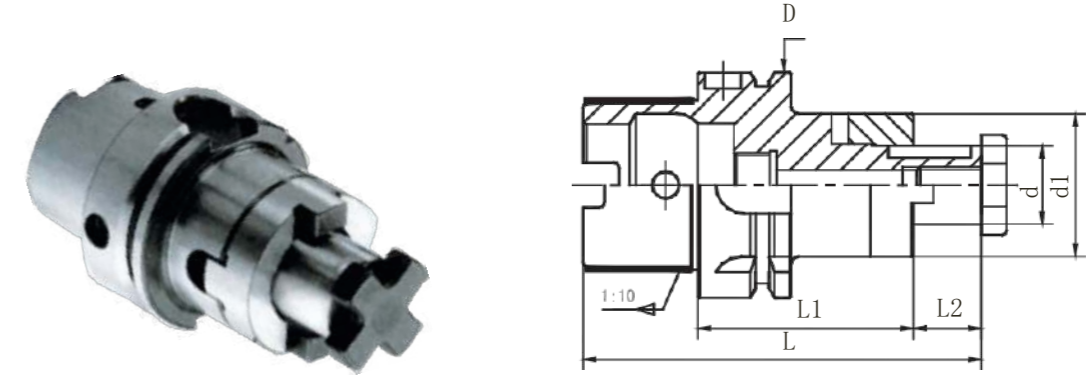
HSK (A型) 变径套 MORSE TAPER ADAPTER



- ★: HSK刀柄采用高强度材质加工, 在淬火、回火后经深冷处理, 性能稳定, 耐磨耐用
- ★: 该刀柄是用于高速切削应用刀具的柄, 可承受最大弯矩、扭矩
- ★: 内锥可装夹刀具用于加工零件
- ★: 可快速取出刀具, 使用方便
- ★: 降低了刀具和刀套的磨损度
- ★: Adopt high strength special material, after quenching , through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★ HSK tool handle is used for high speed cutting applications tool handle, can withstand the maximum bending moment, torque
- ★: The inside cone can be installed clamping tool for processing parts
- ★ Can quickly take out the tool, easy to use
- ★ reduced tool and tool wear
- ★ Reduced tool and tool wear

型号 Model No. HSK , A-MS-L1	Lmm	L2mm	Dmm	d1mm	d2mm
HSK50A-MS2-120	145	94	50	32	17.780
HSK50A-MS3-140	165	114	50	40	23.825
HSK63A-MS2-120	152	94	63	32	17.780
HSK63A-MS3-140	172	114	63	40	23.825
HSK63A-MS4-160	192	134	63	48	31.267
HSK100A-MS1-110	160	81	100	25	12.065
HSK100A-MS2-120	170	91	100	32	17.780
HSK100A-MS3-150	200	121	100	40	23.825
HSK100A-MS4-170	220	141	100	48	31.267
HSK100A-MS5-200	250	171	100	63	44.399

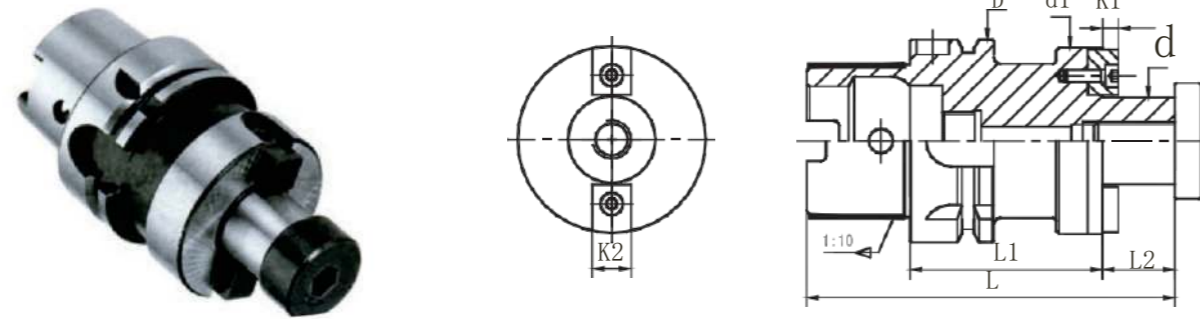
HSK (A型) 混合插入式铣刀柄 COMBI-SHELL END MILL HOLDER



- ★: HSK刀柄采用高强度材质在淬火、回火后经深冷处理, 性能稳定, 耐磨耐用
- ★: 该刀柄是用于高速切削应用刀具的柄, 可承受最大弯矩、扭矩
- ★: 前端装配刀盘, 用于各种铣削
- ★: 此结构有助于缓冲和均匀分布切削力
- ★: Adopt high strength special material, after quenching , through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★ HSK tool holder is used for high speed cutting applications tool handle, can withstand the maximum bending moment, torque
- ★: Front end assembly cutter disc, used for all kinds of milling
- ★ This structure helps to buffer and evenly distribute cutting forces

型号 Model No. HSK , A-d-L1	L mm	L2 mm	D mm	d mm	d1 mm
HSK50A-16-50	92	17	50	16	32
HSK50A-22-50	94	19	50	22	40
HSK50A-27-65	111	21	50	27	48
HSK50A-32-65	114	24	50	32	58
HSK63A-16-60	109	17	63	16	32
HSK63A-22-60	111	19	63	22	40
HSK63A-27-60	113	21	63	27	48
HSK63A-32-60	116	24	63	32	58
HSK63A-40-60	119	27	63	40	70
HSK100A-22-60	127	17	100	22	40
HSK100A-27-60	129	19	100	27	48
HSK100A-32-60	131	21	100	32	58
HSK100A-40-60	134	24	100	40	70
HSK100A-50-70	147	27	100	50	90
HSK100A-50-80	160	30	100	50	90

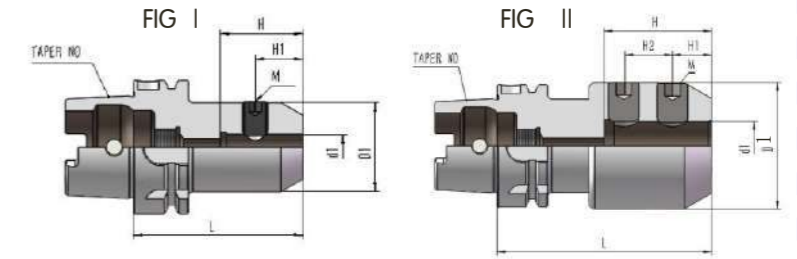
HSK (A型) 套式铣刀柄 SHELL END MILL HOLDER



- ★: HSK刀柄采用高强度材质加工, 在淬火、回火后经深冷处理, 性能稳定, 耐磨耐用
- ★: 该刀柄是用于高速切削应用刀具的柄, 可承受最大弯矩、扭矩
- ★: 前端装配刀盘, 用于各种铣削
- ★: 此结构有助于缓冲和均匀分布切削力
- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★ HSK tool holder is used for high speed cutting applications tool handle, can withstand the maximum bending moment, torque
- ★: Front end assembly cutter disc, used for all kinds of milling
- ★ This structure helps to buffer and evenly distribute cutting forces

型号 Model No. HSK, A-d-L1	L mm	L2 mm	D mm	d1 mm	k1 mm	k2 mm
HSK40A-16-50	86	16	40	38	3.8	8
HSK40A-22-60	98	18	40	48	4.8	10
HSK40A-27-60	100	20	40	60	5.8	12
HSK40A-32-60	102	22	40	62	6.8	14
HSK50A-16-50	91	16	50	38	3.8	8
HSK50A-22-60	103	18	50	48	4.8	10
HSK50A-27-60	105	20	50	60	5.8	12
HSK50A-32-60	107	22	50	62	6.8	14
HSK63A-16-50	98	16	63	38	3.8	8
HSK63A-22-50	100	18	63	48	4.8	10
HSK63A-27-60	112	20	63	60	5.8	12
HSK63A-32-60	116	22	63	62	6.8	14
HSK63A-40-60	119	25	63	78	8.3	16
HSK100A-22-50	118	18	100	48	4.8	10
HSK100A-27-50	120	20	100	60	5.8	12
HSK100A-32-50	122	22	100	62	6.8	14
HSK100A-40-60	135	25	100	78	8.3	16

HSK刀柄-侧固式 HSK-SIDE LOCK TOOL HOLDER

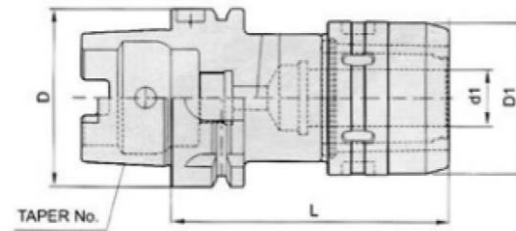


- ★: HSK刀柄采用高强度材质加工, 在淬火、回火后经深冷处理, 性能稳定, 耐磨耐用
- ★: 该刀柄是用于高速切削应用刀具的柄, 可承受最大弯矩、扭矩
- ★: 锥度精度 < AT3
- ★: 硬度: HRC58~62, 渗碳深度 > 0.8mm

- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: HSK tool holder is used for high speed cutting applications tool handle, can withstand the maximum bending moment, torque
- ★: Taper accuracy < AT3
- ★: Hardness: HRC58~62, carburized depth of > 0.8

型号 MODEL No.	d1 mm	D1 mm	L mm	H mm	H1 mm	M	FIG.	重量(kg)
HSK40A-SLN6-60	6	25	60	35	18	M6	I	0.30
HSK40A-SLN8-60	8	28	60	35	18	M8	I	0.30
HSK40A-SLN10-60	10	35	60	35.5	20	M10	I	0.40
HSK40A-SLN12-70	12	40	70	36	22.5	M12	I	0.40
HSK40A-SLN14-70	14	42	70	36	22.5	M12	I	0.60
HSK40A-SLN16-80	16	44	80	46	24	M14	I	0.70
HSK50A-SLN6-65	6	25	65	35	18	M6	I	0.80
HSK50A-SLN8-65	8	28	65	35	18	M8	I	0.80
HSK50A-SLN10-65	10	35	65	35.5	20	M10	I	1.20
HSK50A-SLN12-80	12	40	80	36	22.5	M12	I	1.30
HSK50A-SLN14-80	14	42	80	36	22.5	M12	I	1.30
HSK50A-SLN16-80	16	44	80	46	24	M14	I	1.40
HSK50A-SLN18-80	18	46	80	46	24	M14	I	1.50
HSK50A-SLN20-80	20	50	80	48	25	M16	I	0.80
HSK63A-SLN6-65	6	25	65	35	18	M6	I	0.80
HSK63A-SLN8-65	8	28	65	35	18	M8	I	0.8
HSK63A-SLN10-65	10	35	65	35.5	20	M10	I	0.90
HSK63A-SLN12-80	12	40	80	36	22.5	M12	I	1.10
HSK63A-SLN14-80	14	42	80	36	22.5	M12	I	1.20
HSK63A-SLN16-80	16	44	80	46	24	M14	I	1.30
HSK63A-SLN18-80	18	46	80	46	24	M14	I	1.40
HSK63A-SLN20-80	20	50	80	48	25	M16	I	1.50
HSK63A-SLN25-110	25	53	110	55	25	M18	II	2.30
HSK63A-SLN32-110	32	61	110	57	28	M20	II	2.60
HSK100A-SLN6-80	6	25	80	35	18	M6	I	2.15
HSK100A-SLN8-80	8	28	80	35	18	M8	I	2.20
HSK100A-SLN10-80	10	35	80	35.5	20	M10	I	2.35
HSK100A-SLN12-80	12	40	80	36	22.5	M12	I	2.45
HSK100A-SLN14-80	14	44	80	36	22.5	M12	I	2.65
HSK100A-SLN16-100	16	44	100	46	24	M14	I	2.85
HSK100A-SLN18-100	18	46	100	46	24	M14	I	2.90
HSK100A-SLN20-100	20	50	100	48	25	M16	I	2.95
HSK100A-SLN25-100	25	53	100	55	25	M18	II	3.45
HSK100A-SLN32-100	32	61	100	57	28	M20	II	3.65
HSK100A-SLN40-120	40	80	120	68	32	M20	II	5.50

HSK数控强力刀柄 MILLING CHUCK ARBORS

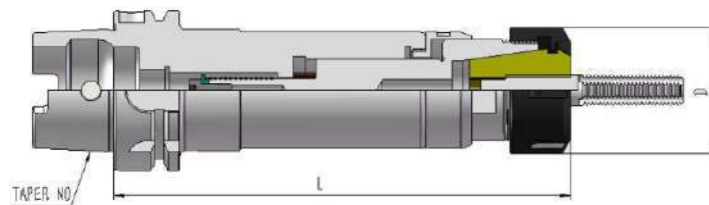


- ★: 刀柄采用高强度材质在淬火、回火后经深冷处理, 性能稳定, 耐磨耐用
- ★: HSK刀柄是用于高速切削应用刀具的柄, 可承受最大弯矩、扭矩
- ★: 具有夹紧力大, 定心精度高的特点, 特别适用于强力切削加工
- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: HSK tool holder is used for high speed cutting applications tool handle, can withstand the maximum bending moment, torque
- ★: With the characteristics of large clamping force and high centering accuracy, especially suitable for strong cutting

型号 MODEL No.	d1 mm	D mm	D1 mm	L mm	重量(kg)
HSK50A-C20-110	20	50	54	110	1.30
HSK63A-C20-105	20	63	54	105	1.50
HSK63A-C25-120	25	63	62.5	120	2.20
HSK63A-C32-130	32	63	70	130	2.70
HSK100A-C20-110	20	100	54	110	3.50
HSK100A-C25-130	25	100	62.5	130	3.80
HSK100A-C32-135	32	100	70	135	4.20
HSK100A-C42-140	42	100	87	140	5.30

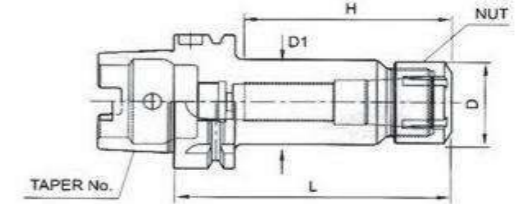
HSK-TER 刀柄

- ★: 该刀柄是攻丝专用刀柄, 内部含有弹簧, 在柔性攻丝的同时既保护丝锥, 防止丝锥折断, 也延长了丝锥的使用寿命
- ★: 攻完螺纹反转时, 刀柄在拉伸方向也提供补偿, 减少了对丝锥的损伤
- ★: Special holder for tapping, with a spring inside, which can not only protect the tap and prevent the tap from breaking, but also extend the service life of the tap
- ★: When the tap is reversed after tapping, the holder also provides compensation in the drawing direction, reducing the damage to the tap



型号 MODEL No.	尺寸 TAP SIZE	夹持范围 CLAMPING RANGE	NUT	D mm	L mm
HSK63A-TER16-175	M3~M10	4.0~7.0	ER16	28	175
HSK63A-TER20-180	M3~M14	4.0~10.5	ER20	34	180
HSK63A-TER32-185	M4~M18	5.0~14.0	ER32	50	185

HSK刀柄-SK系列 HSK HEAT SHRINKABLE SHANK-SK SERIES



- ★: 刀柄采用高强度材质在淬火、回火后经深冷处理, 性能稳定, 耐磨耐用
- ★: HSK刀柄是用于高速切削应用刀具的柄, 可承受最大弯矩、扭矩
- ★: SK夹头具有高转速, 高精度特性, 是数控机床专用夹头
- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: HSK tool holder is used for high speed cutting applications, it can withstand the maximum bending moment and torque
- ★: SK chuck with high speed, high precision characteristics, is a special chuck CNC machine tools

型号 MODEL No.	D mm	D1 mm	L mm	H	
				Min	Max
HSK32A-SK06-50	20	19.5	50	21	35
HSK32A-SK10-60	28	27.5	60	30	50
HSK40A-SK06-60	20	19.5	60	21	35
HSK40A-SK10-60	28	27.5	60	30	50
HSK40A-SK13-80	33	33	80	31	65
HSK50A-SK06-80	20	19.5	80	21	35
HSK50A-SK10-100	28	27.5	100	30	50
HSK50A-SK13-100	33	33	100	31	65
HSK63A-SK06-100	20	19.5	100	21	35
HSK63A-SK10-100	28	27.5	100	30	50
HSK63A-SK13-100	33	33	100	31	65
HSK63A-SK16-120	40	40	120	45	70
HSK63A-SK20-120	48.5	48.5	120	65	75
HSK63A-SK25-150	55	55	150	55	85
HSK80A-SK6-100	20	19.5	100	21	35
HSK80A-SK10-120	28	27.5	120	30	50
HSK80A-SK13-120	33	33	120	31	65
HSK80A-SK16-120	40	40	120	45	70
HSK80A-SK20-130	48.5	48.5	130	65	75
HSK80A-SK25-150	55	55	150	55	85
HSK100A-SK06-120	20	19.5	120	21	35
HSK100A-SK10-150	28	27.5	150	30	50
HSK100A-SK13-150	33	40	150	31	65
HSK100A-SK16-150	40	40	150	45	70
HSK100A-SK20-150	48.5	48.5	150	65	75
HSK100A-SK25-160	55	55	160	55	85

# 工具系统 | TOOL SYSTEM



## BT组合基础刀柄 BORING SHANK

### BT 组合基础刀柄 BORING SHANK

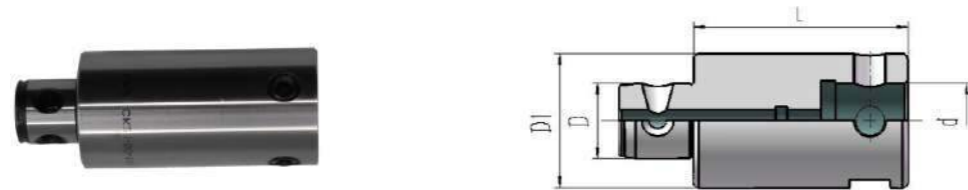
- ★:采用高强度特殊材质加工, 产品性能稳定, 耐磨耐用
- ★:柄部与机床主轴连接, 前端内孔装配不同规格的组合刀柄
- ★:Adopt high strength special material, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★:The holder is connected with the machine, front end assembly can be fitted with different specifications of the tool



Cone	型号 Modelo	D mm	D1 mm	L mm
BT 40	BT 40 MD22-40	22	50	54
	BT 40 MD28-50	28	50	54
	BT 40 MD36-63	36	63	66
BT 50	BT 50 MD28-50	28	50	65
	BT 50 MD36-63	36	63	75
	BT 50 MD36-80	36	80	75



Cone	Modelo	d mm	D mm	L mm
DIN40	SK40 MD28-50	28	50	46
	SK40 MD36-63	36	63	66
DIN50	SK50 MD28-50	28	50	46
	SK50 MD36-63	36	63	56
	SK50 MD36-80	36	80	56



Modelo—L	D mm	d mm	D1 mm
CK22-CK22-40-40	22	22	40
CK28-CK28-50-40	28	28	50
CK28-CK28-50-80			
CK28-CK28-50-100			
CK36-CK36-63-50	36	36	63
CK36-CK36-63-80			
CK36-CK36-63-125			
CK36-CK36-80-50	36	36	80
CK36-CK36-80-80			
CK36-CK36-80-125			
CK36-CK36-80-275			

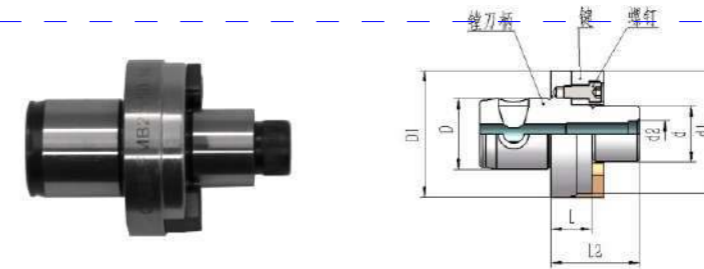
了解具体库存情况请致电厂家 详情请登陆网站www.hnsant.com



# 工具系统 | TOOL SYSTEM

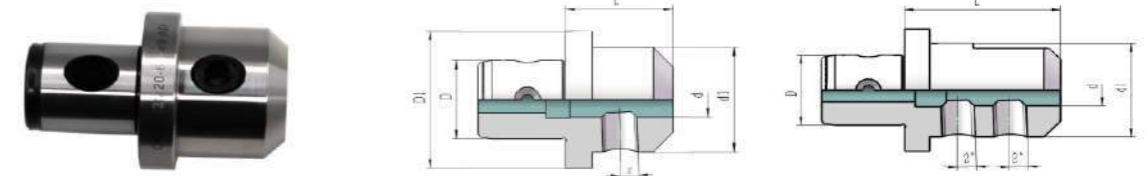
## COMBINATION SERIES 组合刀柄系列

### 组合刀柄系列 COMBINATION SERIES



- ★:采用高强度特殊材质加工, 产品性能稳定, 耐磨耐用
- ★:柄部与基础刀柄装配, 前端内孔装夹不同规格的刀具
- ★:The holder is made of imported high strength material and has high wear resistance after special treatment
- ★:the collet can be fitted with different specifications of the tool

Modelo	L (mm)	L2 (mm)	D (mm)	D1 (mm)	d (mm)	d1 (mm)	d2 (mm)
CK28-FMB16-50-16	16	33	28	50	16	38	M8x1.25
CK28-FMB22-50-16	16	35	28	50	22	48	M10x1.5
CK36-FMB22-63-16	16	35	36	63	22	48	M10x1.5
CK36-FMB27-63-16	16	37	36	63	27	58	M12x1.75
CK36-FMB32-78-16	16	40	36	78	32	78	M16x2.0

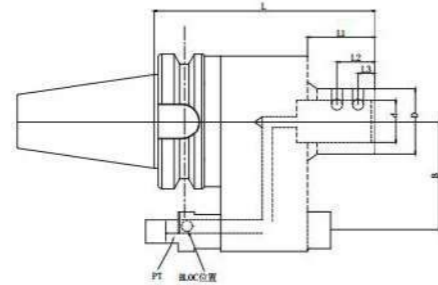


Modelo	L (mm)	D (mm)	D1 (mm)	d (mm)	d1 (mm)
CK28-H2M6-50-36	36	28	50	6	25
CK28-H2M8-50-36	36	28	50	8	28
CK28-H2M10-50-44	44	28	50	10	35
CK28-H2M12-50-44	44	28	50	12	42
CK28-H2M14-50-44	44	28	50	14	44
CK28-H2M16-50-49	49	28	50	16	48
CK28-H2M18-50-49	49	28	50	18	50
CK28-H2M20-52-60	60	28	52	20	52
CK36-H2M6-63-36	36	36	63	6	25
CK36-H2M8-63-36	36	36	63	8	28
CK36-H2M10-63-44	44	36	63	10	35
CK36-H2M12-63-44	44	36	63	12	42
CK36-H2M14-63-44	44	36	63	14	44
CK36-H2M16-63-49	49	36	63	16	48
CK36-H2M18-63-49	49	36	63	18	50
CK36-H2M20-63-49	49	36	63	20	52
CK36-H2M25-63-75	75	36	63	25	63
CK36-H2M32-72-75	75	36	72	32	72



Modelo	L (mm)	D (mm)	D1 (mm)	d (mm)	d1 (mm)
CK28-ER32-50-57	57	28	50	50	2-20
CK36-ER32-63-57	57	36	63	50	2-20
CK36-ER40-63-64	64	36	63	63	3-26

了解具体库存情况请致电厂家 详情请登陆网站www.hnsant.com



型号	D	d	L1	L2	L3	B	D1
Model No.	mm	mm	mm	mm	mm	mm	mm
BT40-SLO32-150	53	32	50	15	15	60/65	36
SLO40-150	60	40	50	18	19	60/65	42
BT50-SLO32-160	54	32	50	15	15	80/82	36
SLO40-160	64	40	50	18	19	80/82	42

油路刀柄安装示意图

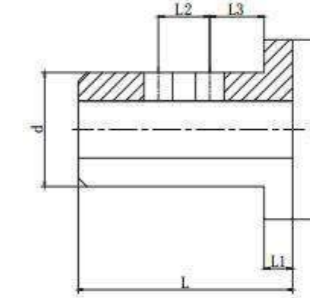
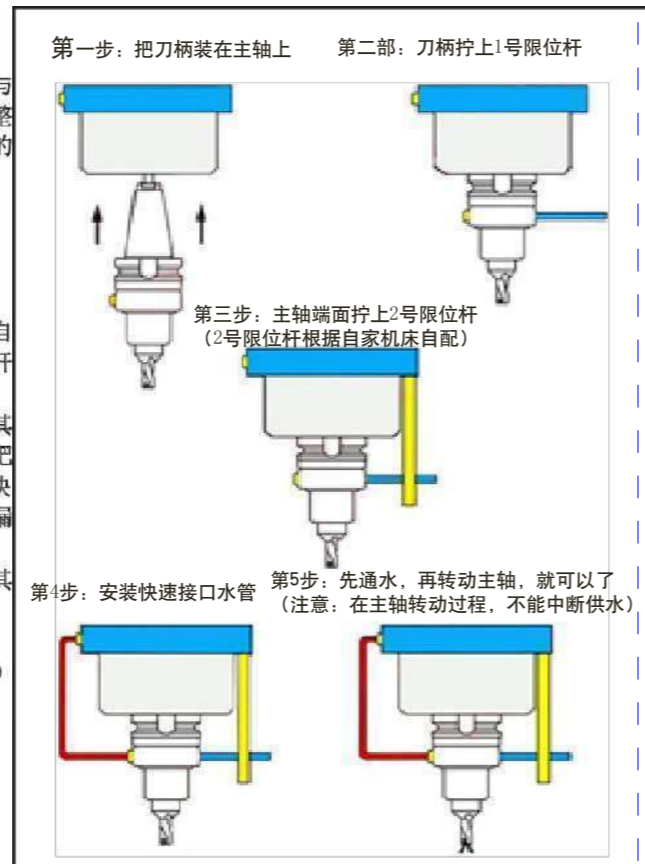
油路刀柄安装调整步骤

1. 确认刀柄的中心至定位柱的距离: BT40=65mm; BT50=80mm. 再与机床主转中心至固定座距离做对比, 若距离不符, 使用厂家调整固定座进水孔位置, 再行安装 (固定块需要根据机床主轴端面的防尘盖螺孔配)

2. 安装

- a. 首先把固定块安装在机床端面, 固定块进水管接上。
- b. 油路刀柄安装, 先把定位键上 M6 螺丝松开, 使定位柱能够自由上下移动 (注: 定位柱下有弹簧), 定位环上 3 只 M6 螺丝松开使用与油路刀柄主轴自由转动 (注: 螺丝不能太松)
- c. 机床主轴锁紧, 调整油路刀柄键槽与机床主轴位置, 使其对其同时调整定位柱角度, 使其对其定位块出水孔, 压紧定位柱后把油路刀柄装在机床主轴上, (注: 装后要检测定位柱与定位块是否对齐且定位柱上端面要与定位块下端面贴紧, 否则会出现漏水, 如不能紧贴, 需调整定位块向下的距离或定位块厚度)
- d. 检查是否装好后打开出水, 检查出水是否从油路刀柄中心或其它地方是否漏水, 机床。

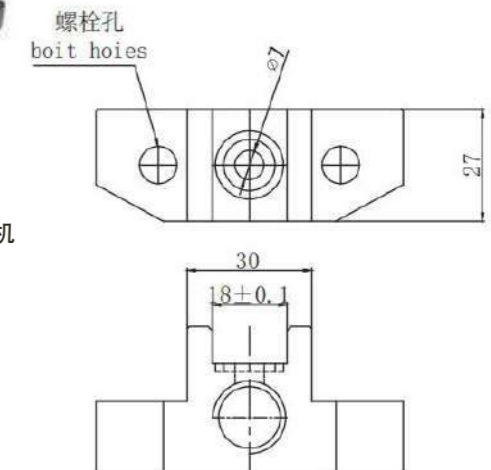
以上完成后, 先用 S100-300-500 进行油路刀柄跑合 (10 分钟) 在使用过程中最高转速不得超过 BT40S3500, BT50S3000.



型号	D	d	L1	L2	L3	L	重量
Model No.	mm	mm	mm	mm	mm	mm	
CSO 32-16	53	32	10	15	15	65	0.40
32-20	53	32	10	15	15	65	0.35
32-25	53	32	10	15	15	65	0.26
40-16	63	40	10	18	19	75	0.74
40-20	63	40	10	18	19	75	0.68
40-25	63	40	10	18	19	75	0.59
40-32	63	40	10	18	19	75	0.41

SLO 油路止动块  
CSO Oil Road Stop Block

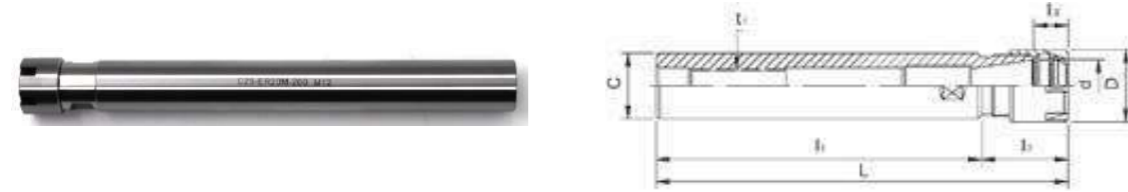
型号 Model No.	重量
BT40PB30-35	0.53
BT50PB30-35	0.46



注意在使用油路刀柄时, 止动块是必须的配套附件, 止动块可以安装到 ATC 等机器上, 因此, 随着出现越来越多的不同型号的机器, 有必要与机器制造商协商正确安装。

Note that the stop block is a necessary accessory when using the oil-feed holder. The stop block can be installed on ATC and other machines. Therefore, with more and more different types of machines, it is necessary to consult with the machine manufacturer for proper installation.

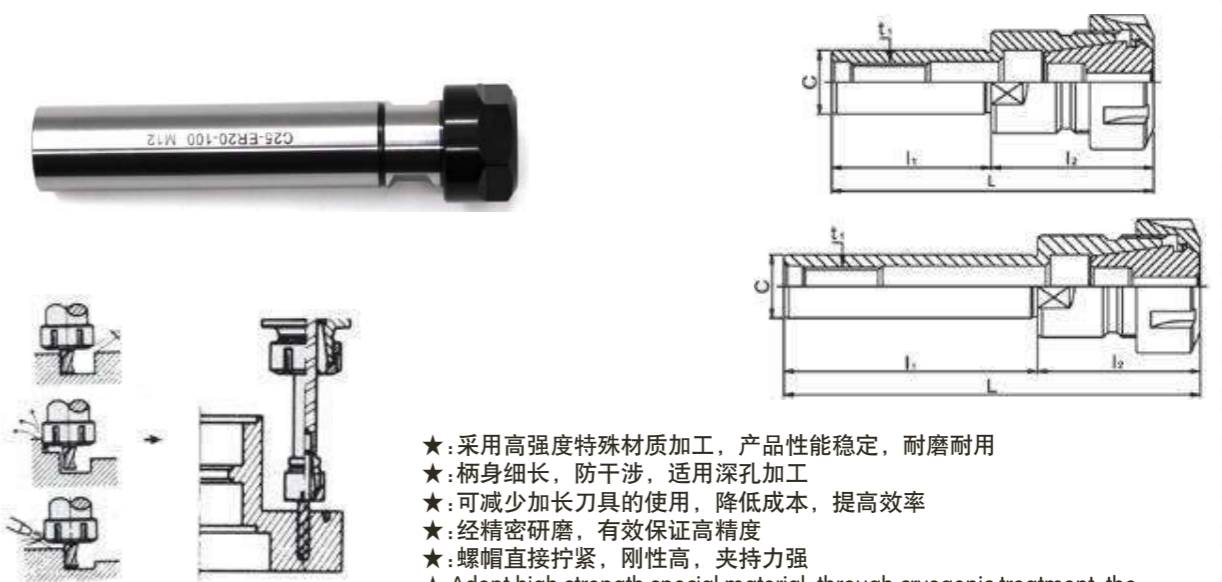
C/ER 直柄延长杆 (M型小径螺帽) C/ER Straight shank collet chuck and extension type



- ★: 采用高强度特殊材质加工, 产品性能稳定, 耐磨耐用
- ★: 柄身细长, 防干涉, 适用于深孔加工
- ★: 可减少加长刀具的使用, 降低成本, 提高效率
- ★: 经精密研磨, 有效保证高精度
- ★: 螺帽直接拧紧, 刚性高, 夹持力强
- ★: Adopt high strength special material, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: Long shank, suitable for deep hole processing
- ★: Can reduce the use of lengthened tools, reduce costs, improve efficiency
- ★: Precision grinding, effectively ensure high precision
- ★: Nut directly tightened, high rigidity, strong blessing force

型号 Model No. L1	L mm	l <sub>2</sub> mm	l <sub>3</sub> mm	D mm	t1
C 8- ER8M-55	79	24	6	12	/
C10- ER8M-100	117	17			
C10- ER8M-150	167				
C10- ER8M-180	197				
C12- ER8M-55	72				
C12- ER8M-120	137	26.5	6.6	16	M5x0.8
C12- ER8M-180	206.5				
C12- ER11M-80	96.6	16.6			
C16- ER11M-50	66.6				
C16- ER11M-100	116.6				
C16- ER11M-140	156.6				
C20- ER16M-80	105	25	10.6	22	M10x1.5
C20- ER16M-100	125				
C20- ER16M-140	165				
C20- ER16M-160	185				
C20- ER20M-60	100	40	11.5	28	M12x1.75
C20- ER20M-100	140				
C20- ER20M-120	160				
C20- ER20M-150	190				
C20- ER20M-180	220				
C25- ER20M-140	168	28	12	35	
C20- ER25M-100	150	50			

C/ER 直柄延长杆 C/ER Straight shank collet chuck and extension type

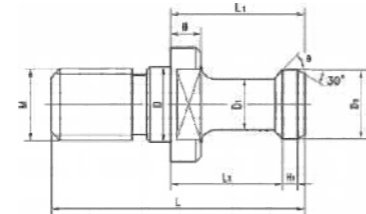


- ★: 采用高强度特殊材质加工, 产品性能稳定, 耐磨耐用
- ★: 柄身细长, 防干涉, 适用深孔加工
- ★: 可减少加长刀具的使用, 降低成本, 提高效率
- ★: 经精密研磨, 有效保证高精度
- ★: 螺帽直接拧紧, 刚性高, 夹持力强
- ★: Adopt high strength special material, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: Long shank, suitable for deep hole processing
- ★: Can reduce the use of lengthened tools, reduce costs, improve efficiency
- ★: Precision grinding, effectively ensure high precision
- ★: Nut directly tightened, high rigidity, strong blessing force

型号 Model No.	Lmm	l <sub>2</sub> mm	t <sub>1</sub>	重量(kg) Weight
C16- ER11A-140	156.5	16.6	M6x1.0	0.23
C16- ER16A-50	90	40	M10x1.5	0.15
C16- ER16A-100	140			0.20
C16- ER16A-150	190			0.28
C20- ER16A-50	90			40.5
C20- ER16A-100	140	0.35		
C20- ER16A-150	190	0.40		
C20- ER20A-60	100.5	0.35		
C20- ER20A-120	160.5	0.40		
C20- ER20A-180	220.5	0.50		
C20- ER20A-140	180.5	0.50		
C20- ER25-50	101	51	0.40	
C20- ER25-100	151	51.5	M10x1.5	0.45
C20- ER32-50	101.5			0.42
C20- ER32-100	151.5	35.1	M12x1.75	0.55
C25- ER16A-150	185.1			0.45
C25- ER20A-140	180.5	40.5	M16x2.0	0.55
C25- ER25-50	101	51		0.40
C25- ER25-100	151	51.5	M16x2.0	0.55
C25- ER32-50	101.5			0.60
C25- ER40-50	115	65	2.10	
C32- ER32-60	111.5	51.5	M16x2.0	1.15
C32- ER32-100	151.5			0.80
C32- ER40-50	115	65	2.23	

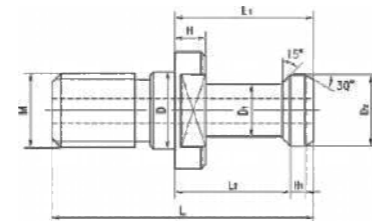
MAS403-1982 BT刀柄用拉钉 RETENTION KNOB

- ★:采用高强度特殊材质加工, 淬火、回火后经特殊处理, 产品性能稳定, 耐磨耐用
- ★:拉钉一端和机床卡口相连, 一端和刀柄相连, 起到对刀柄锁紧的作用
- ★:Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★:One end of the pull stud is connected with the bayonet of the machine, and the other end is connected with the tool holder to lock it



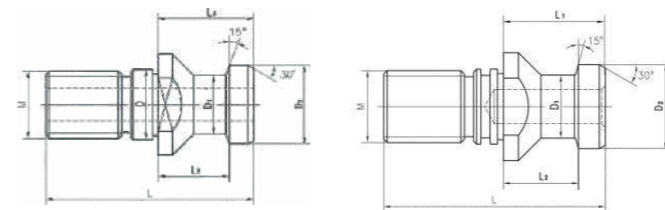
型号 Model No.	Dmm	D1mm	D2mm	Mmm	Lmm	L1mm	L2mm	Hmm	H1mm	θ
LDB-P30T(θ)	12.5	7	11	M12	43	23	18	5	2.5	45° 60° 90
LDB-P40T(θ)	17	10	15	M16	60	35	28	6	3	45° 60° 90
LDB-P45T(θ)	21	14	19	M20	70	40	31	8	4	45° 60° 90
LDB-P50T(θ)	25	17	23	M24	85	45	35	10	5	45° 60° 90

JIS B6339-1986 BT 刀柄用拉钉 RETENTION KNOB



型号 Model No.	D mm	D1 mm	D2 mm	M	L mm	L1 mm	L2 mm	H mm	H1 mm
LDJ-30P	12.5	8	12	M12	43	23.4	18.4	5	3
LDJ-35P	12.5	11	15	M12	44	24	19	5	3
LDJ-40P	17	14	19	M16	54	29	23	7	3
LDJ-45P	21	17	23	M20	60	30	23	7	4
LDJ-50P	25	21	28	M24	74	34	25	7	5
LDJ-55P	31	27	36	M30	98	48	36	11	7

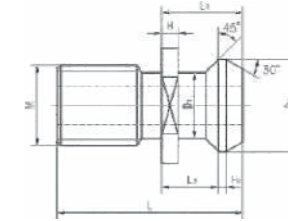
DIN69872-1988 DIN刀柄用拉钉 RETENTION KNOB



型号 Model No.	Dmm	D1mm	D2mm	M	Lmm	L1mm	L2mm
LDD-30A(B)	13	9	13	M12	44	24	19
LDD-40A(B)	17	14	19	M16	54	26	20
LDD-45A(B)	21	17	23	M20	65	30	23
LDD-50A(B)	25	21	28	M24	74	34	25

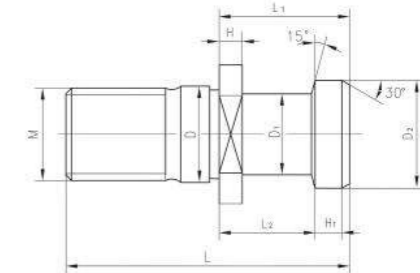
ANSI/ASME B5.50-1985 CAT 刀柄用拉钉 RETENTION KNOB

- ★:采用高强度特殊材质加工, 淬火、回火后经特殊处理, 产品性能稳定, 耐磨耐用
- ★:拉钉一端和机床卡口相连, 一端和刀柄相连, 起到对刀柄锁紧的作用
- ★:Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★:One end of the pull stud is connected with the bayonet of the machine, and the other end is connected with the tool holder to lock it



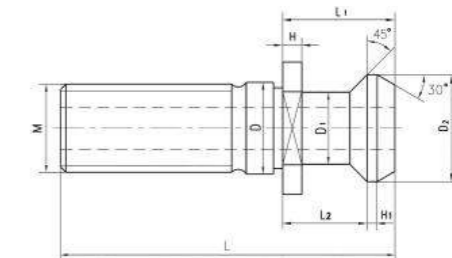
型号 Model No.	D1mm	D2mm	M	Lmm	L1mm	L2mm	Hmm	H1mm
LDA-30	9.78	13.21	1/2"-13	27.94	11.68	8.13	2.54	1.01
LDA-40	12.45	18.80	5/8"-11	38.10	16.26	11.18	3.05	1.52
LDA-45	15.37	23.88	3/4"-10	45.72	20.83	14.73	4.06	2.03
LDA-50	20.83	28.96	1"-8	58.42	25.4	17.78	5.08	2.54

ISO/DIS7388/2-1984A 7: 24 A型刀柄用拉钉 RETENTION KNOB



型号 Model No.	Dmm	D1mm	D2mm	M	Lmm	L1mm	L2mm	Hmm	H1mm
LDI-30A	13	8	12	M12	44	24	19	4	3
LDI-40A	17	14	19	M16	54	26	20	4	4
LDI-45A	21	17	23	M20	65	30	23	5	5
LDI-50A	25	21	28	M24	74	34	25	6	7

ISO/DIS7388/2-1984B 7: 24 B型刀柄用拉钉 RETENTION KNOB

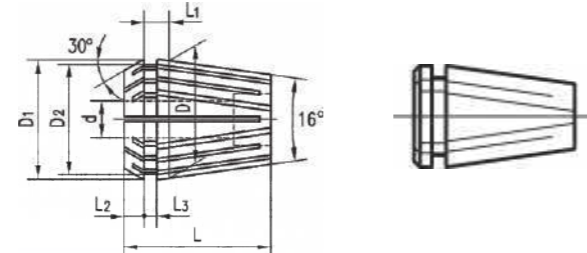


型号 Model No.	Dmm	D1mm	D2mm	M	Lmm	L1mm	L2mm	Hmm	H1mm
LDI-30B	13	9.3	13.3	M12	27	11.8	8.1	2.7	1.2
LDI-40B	17	12.95	18.95	M16	44.5	16.4	11.15	3.25	1.75
LDI-45B	21	16.3	24.05	M20	56	20.95	14.85	4.25	2.25
LDI-50B	25	19.6	29.1	M24	65.5	25.55	17.95	5.25	2.75

DIN6499B 标准ER系列夹头 ER SERIES COLLETS WITH STANDARD DIN6499B

- ★:采用高强度特殊材质, 淬火、回火后经深冷处理, 产品性能稳定, 耐磨耐用
- ★:夹紧力大, 夹持范围广, 属于高精度弹性夹头
- ★:广泛用于镗、铣、钻、攻丝、磨、雕刻等加工。

- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★:Clamping force is large, clamping range is wide, belongs to the high precision spring chuck
- ★: Used for boring,milling,drilling,tapping,grinding and engraving operation etc.

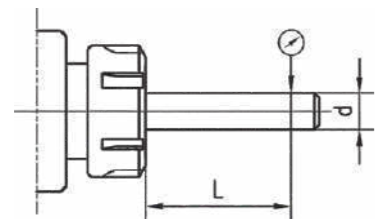


ER11-ER50

ER8

型号 Model No.	d H7mm	Dmm	D1mm	D2mm	Lmm	L1mm	L2mm	L3mm	弹性收缩量 Collapsible capacity
ER8	≥1.0~5.0	8	8.45	6.5	13.5	2.98	1.5	1.2	0.5
ER11	≥1.0~7.0	11	11.5	9.5	18.0	3.8	2.5	2.0	0.5
ER16	≥1.0~2.5	16	17	13.8	27.5	6.26	4.0	2.7	0.5
	>2.5~10.0	16	17	13.8	27.5	6.26	4.0	2.7	1.0
ER20	≥1.0~2.5	20	21	17.4	31.5	6.36	4.8	2.8	0.5
	>2.5~13.0	20	21	17.4	31.5	6.36	4.8	2.8	1.0
ER25	≥1.0~2.5	25	26	22.0	34.0	6.66	5.0	3.1	0.5
	>2.5~16.0	25	26	22.0	34.0	6.66	5.0	3.1	1.0
ER32	≥2.0~2.5	32	33	29.2	40.0	7.16	5.5	3.6	0.5
	>2.5~20.0	32	33	29.2	40.0	7.16	5.5	3.6	1.0
ER40	≥3.0~26.0	40	41	36.2	46.0	7.66	7.0	4.1	1.0
ER50	≥6.0~10.0	50	52	46.0	60.0	12.6	8.5	5.5	1.0
	>10.0~34.0	50	52	46.0	60.0	12.6	8.5	5.5	2.0

精度检测 Inspection of Accuracy



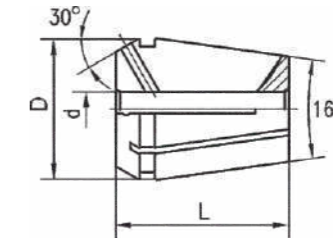
D	L	径向跳动 Run out tolerance	
		I	II
1.0~1.6	4D处	0.008	0.015
>1.6~3.0			
>3.0~6.0			
>6.0~10.0			
>10.0~18.0			
>18.0~26.0			
>26.0~30.0			
>30.0~34.0			

说明: 无特殊要求, 一般按 II 级供货, 如需 I 级, 则需特殊订货, 价格另议  
If no special requirement, we would supply to you according to II grade; if you require I grade, the price would be advanced

ERC 型夹头 ERC COLLET

- ★:采用高强度特殊材质, 淬火、回火后经深冷处理, 产品性能稳定, 耐磨耐用
- ★:夹紧力大, 夹持范围广, 属于高精度弹性夹头
- ★:利用沟槽的差异, 以及橡胶塞的应用, 达到周围止水, 仅中心出水的功用

- ★:Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★:Clamping force is large, clamping range is wide, belongs to the high precision spring chuck
- ★:Use groove and rubber plug to achieve the function of stopping water around and only discharging water from the center

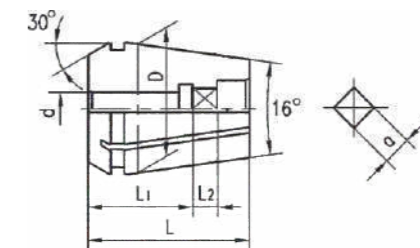


型号 Model No.	孔径 d	D	L
ER16C-d	2-10	16.6	27.5
ER20C-d	2-13	21.6	31.5
ER25C-d	2-16	25.6	34
ER32C-d	3-20	32.6	40
ER40C-d	3-26	40.6	46

ERG 型攻丝夹头 TAPPING COLLET

- ★:采用高强度特殊材质, 淬火、回火后经深冷处理, 产品性能稳定, 耐磨耐用
- ★:夹紧力大, 精度高, 互换性强
- ★:前圆后方, 可有效夹持丝锥, 防止丝锥打滑, 提高工作效率

- ★:Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★:High clamping force, high precision, Strong substitutability
- ★:Round front and square back can effectively hold the tap, prevent the tap from slipping, improve work efficiency



型号 Model No.	ER16G-d	ER20G-d	ER25G-d	ER32G-d	ER40G-d
D	16	20	25	32	40
L	27.5	31.5	34	40	46
d	3.5~8	3.5~10	3.5~16	3.5~20	3.5~25

dxa	3.5X2.7	4.0X3.0	4.5X3.4	5.5X4.3	6.0X4.9	7.0X5.5
	8.0X6.2	9.0X7.0	10X8.0	11X9.0	12X9.0	14X11
	16X12	18X14.5	20X16	22X18	25X20	



ER 套装铣夹头 ER MILLING CHUCK SET

- ★: 每套铣夹头包括1支夹头体, 1支压帽, 整套夹头及1支扳手
- ★: 木盒或塑料盒包装
- ★: A set included: 1 collet chuck, 1 clamping nut, full set of collets and 1 spanner
- ★: Packed in a wooden case or plastic case



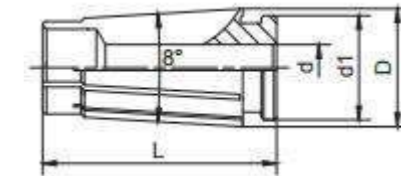
型号 Model No.	孔径 Hole size		支数/套 Pcs/set	柄 Shank
	in	mm		
ER16-8in (mm)	3/32 1/8 3/16 7/32 1/4 5/16 11/32 3/8	2 3 4 5 6 7 8 10	8	R8 MT2~MT6 NT30
ER25-6in (mm)	1/8 3/16 5/16 3/8 1/2 5/8	4 6 8 10 12 16	6	NT40 NT50
ER25-10in (mm)	3/32 1/8 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8	3 4 5 6 8 10 12 14 15 16	10	C8 C10C12
ER32-6in (mm)	1/4 5/16 3/8 1/2 5/8 3/4	6 8 10 12 16 20	6	C16 C20
ER32-12in (mm)	3/32 1/8 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4	3 4 5 6 8 10 12 14 15 16 18 20	12	C25 C32
ER40-8in (mm)	1/8 1/4 3/8 1/2 5/8 3/4 7/8 1	3 5 8 12 15 18 22 26	8	C40
ER40-15in (mm)	1/8 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8 15/16 1	3 4 5 6 8 10 12 14 15 16 18 20 22 24 26	15	1/2" str.sh 5/8" str.sh 3/4" str.sh 1" str.sh 1-1/4" str.sh

夹头体的拉杆螺纹 Thread of draw bar

锥柄 Taper of collet chuck	拉杆螺纹 Thread of draw bar	
R8	7/16"-20UNF	
7:24 30	M12 × 1.75	1/2"-13UNC
7:24 40	M16 × 2.0	5/8"-11UNC
7:24 50	M24 × 3.0	1"-8UNC
MT2	M10 × 1.5	3/8"-16UNC
MT3	M12 × 1.75	1/2"-13UNC
MT4	M16 × 2.0	5/8"-11UNC
MT5	M20 × 2.5	3/4"-10UNC

1. 订货时, 请注明夹头体的型号、拉杆螺纹及夹头的规格(公制或英制)
  2. 订购直柄铣夹头时, 请注明直柄的直径及长度
  3. 我们还可以根据您的要求, 提供不同规格及件数的成套夹头、夹头体
1. Please notify the thread of collet chuck draw bar and the specification of collets (metric or inch)
  2. Please notify the length of straight shank and dia
  3. We are glad to supply collets and chucks with different shank and quantities according to your requirement

SK 高速筒夹 SK HIGH SPEED DOLLET



- ★ 采用高强度特殊材质, 淬火、回火后经深冷处理, 产品性能稳定, 耐磨耐用
- ★ 夹紧力大, 精度高, 适于高速旋转, 是数控机床专用夹头
- ★ 夹头压紧面受力均匀, 具有疲劳极限性好与稳定性高等特性
- ★: Adopt high strength special material, after quenching, through cryogenic treatment, the product performance is stable, wear-resisting and durable
- ★: Large clamping force, high precision, suitable for high-speed rotation, is a special collet for CNC machine
- ★: Clamping surface of the chuck is stressed evenly, with good fatigue limit and high stability

型号	d	d1	D	L
SK06	2-6	8.9	10.5	25
SK10	2-10	13.5	15.6	30.5
SK13	3-13	18.5	20.1	39
SK16	3-16	20.6	24.65	45
SK20	4-20	26.5	30	50
SK25	6-25	31.1	35.6	57

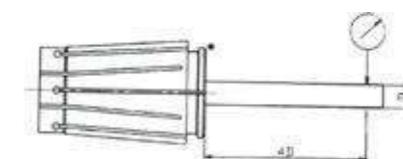
SK 高速筒夹套装 SK HIGH SPEED COLLET SET

- ★: 请于订购时注册 AA 级或 A 级: 例如: SK16-6AA
- ★: 筒夹直径小于 3mm, 夹持范围为 0.25mm, 直径大于 3mm 则为 0.5mm
- ★: When ordering, please specify the GRADE for sk collets is A or AA TYPE. For example: SK16-6AA
- ★: The gripping range of dia below 3mm is 0.25mm. The gripping range of dia over 3mm is 0.5mm

型号 Model No.	规格 Type
SK10-8PCS	3, 4, 5, 6, 7, 8, 9, 10
SK10-17PCS	2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10
SK16-7PCS	3, 4, 6, 8, 10, 12, 16
SK16-27PCS	3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15, 15.5, 16
SK16-14PCS	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
SK25-7PCS	6, 8, 10, 12, 16, 20, 25
SK25-11PCS	6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 25

精度检测: Inspection of

Accuracy	径向跳动 (Run out)	
	A 级 (A class)	AA 级 (AA class)
4 $\times$ D	≤0.008	≤0.005



ER 压帽 ER NUT

型号 Model No.	型式 Type	D(mm)	L(mm)	M	重量 W(kg)
ER16	T1	27	19	M2X1.5	0.005
ER20	T1	35	21	M2.5X1.5	0.01
ER25	T1	40	23.5	M2X1.5	0.14
ER32	T1	48	24	M4X1.5	0.2
ER8-M	M	12	12	M1.0X0.75	0.005
ER11-M	M	16	12	M1.3X0.75	0.01
ER16-M	M	22	18	M1.9X1	0.05
ER20-M	M	28	19	M2.4X1	0.05
ER25-M	M	35	20	M3X1	0.08
ER11-T1	A	19	12	M1.4X0.75	0.005
ER16-T1	A	28	19	M2.2X1.5	0.01
ER20-T1	A	34	21	M2.5X1.5	0.05
ER25-T2	UM	42	22	M2.2X1.5	0.14
ER32-T2	UM	50	24	M4X1.5	0.2
ER40-T2	UM	63	27	M5X1.5	0.3
ER50-T2	UM	78	36	M6.4X2	0.5

EOC/SK 压帽 EOC/SK CLAMPING NUT

压帽 Model No.	D mm	L mm	T	压帽 Model No.	LMM		D mm	M				
					Fig1	Fig2						
YMEOC/OZ8	26	19	M20x1.5	SK6	15	21	19.5	M15.5X1				
				SK10	17	24	27.5	M21.5X1				
				SK16	24	31	40	M32X1.5				
YMEOC/OZ10	30	19	M22x1.5	SK20	27	35	48	M40X1.5				
									YMEOC/OZ12	35	20	M27x1.5
									YMEOC/OZ16	43	24	M33x1.5
									YMEOC/OZ20	50	28	M42x2
									YMEOC/OZ25	60	30	M48x2
									YMEOC/OZ32	72	33.5	M60x2.5
YMEOC/OZ40	85	37	M68x2.5									

扳手 SPANNER

扳手	型号 ModelNo.	B mm	L mm	适用压帽 Clamping Nut
	SPANNER-ER11	17	110	ER11-A ER11-T1
	SPANNER-ER16	25	120	ER16-A ER16-T1
	SPANNER-ER20	30	130	ER20-A ER20-T1
扳手	型号 ModelNo.	B mm	L mm	适用压帽 Clamping Nut
	SPANNER-ER25-S	37	210	ER25-B ER25-T2
	SPANNER-ER32-S	45	250	ER32-B ER32-T2
	SPANNER-ER40-S	58	290	ER40-B ER40-T2
	SPANNER-ER50-S	72	350	ER50-B ER50-T2
扳手	型号 ModelNo.	L mm	规格 Size	适用压帽 Clamping Nut
	SPANNER-ER25	168	38-42	ER25-B ER25-T2
	SPANNER-ER32	190	45-52	ER32-B ER32-T2
	SPANNER-ER40	210	55-63	ER40-B ER40-T2
	SPANNER-ER50	240	78-85	ER50-B ER50-T2
	扳手	型号 ModelNo.	B mm	L mm
	SPANNER-ER8M	7.5	70	ER8-M
	SPANNER-ER11M	11	90	ER11-M
	SPANNER-ER16M	15	110	ER16-M
	SPANNER-ER20M	19.5	120	ER20-M
	SPANNER-ER25M	25	130	ER25-M
扳手	型号 ModelNo.	D	M	
	SK06	19.5	120	
	SK10	27.5	130	
	SK16	40	193	
	SK20	48	200	
	SK25	55	210	