

高速、高精度、高寿命**ER**铣夹头系列

High speed high accuracy high durability **ER** milling chuck series



刀柄动平衡检测
Accuracy dynamic balance

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES



精度5u
Integrated
precision
5u

高精度、高寿命ER筒夹特点：

- ◎材质：SUJ2;
- ◎硬度：46-50HRC;
- ◎筒夹空刀槽采用磨削加工工艺，更适合于高速加工;
- ◎内孔、外圆及端面精密研磨，可达Ra0.4;
- ◎表面“环保”特殊涂层处理，提高表面硬度、耐磨性，提高清洁度，精度更稳定，表面更光滑，防锈、防腐蚀效果更好，手感更舒适，外观更美观。

High accuracy high durable ER collet

- ◎Material: SUJ2;
- ◎Hardness:46-50HRC;
- ◎Inner hole grinding for many times, so as to reach Ra0.4,has a mirror effect;
- ◎Collet groove use grinding process, suitable for high speed machining;
- ◎End and the cylindrical are grinding for many times, can reach Ra0.4,has a mirror effect;
- ◎Surface" environmental protection", special coating surface treatment, improve the hardness and endurance of the surface, cleanliness better, accuracy stable, surface more smooth, antirust, feel comfortable, appearance nice.

》》》 精湛的加工/工艺 Superb machining technology

*深冷处理

- 1、-196℃超长深冷处理，使接近全部的残余奥氏体转变为马氏体；
- 2、析出的纳米级碳化物颗粒，增加硬度和韧性；
- 3、减少残余应力；
- 4、耐磨性显著提高。

*Cryogenic treatment

- 1.-196℃ long cryogenic, nearly all of the residual austenite into martensite;
2. Carbide precipitation of Nanoscale particles, increasing the hardness and toughness;
3. Reducing residual stresses;
4. Wear resistance significantly improved.

*时效处理

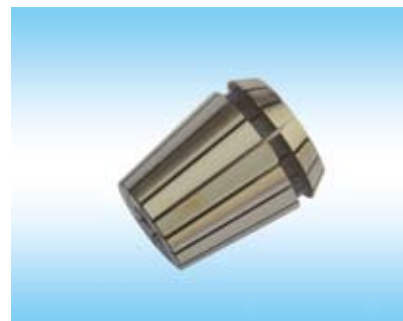
- * ≥ 超长定型热时效去除磨加工时的残余内应力.

* Thermal aging processing

- ≥ long stereotyped thermal limitation removal of grinding residual stress.



深冷处理 (Cryogenic treatment)

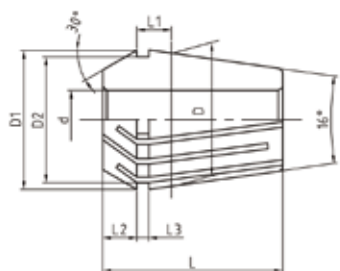


时效处理 (Thermal aging processing)

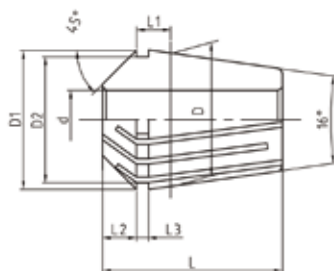
高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0101-01 ER筒夹 DIN6499B ER COLLET DIN6499B

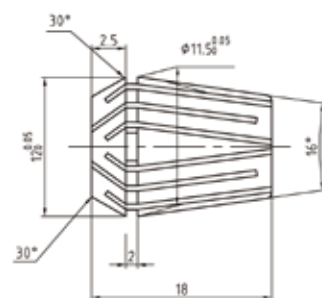
精度 $5\ \mu / 8\ \mu$
Integrated precision
 $5\ \mu / 8\ \mu$



ER11-ER50



ER8



ER12

- ◎ 材质: SUJ2 ◎ 硬度: 46-50HRC
- ◎ Material: : SUJ2 ◎ Hardness: 46-50HRC
- ◎ 广泛应用于镗、铣、钻、攻丝、磨、雕刻等加工。
- ◎ Widely used for boring, milling, drilling, tapping, grinding, carving processing, etc.

高精度 High Accuracy

型号 Model No.	dH7	D	D1	D2	L	L1	L2	L3	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	3.8	2.5	2	0.5
ER16	1.0-2.5	16	17	13.8	27.5	6.26	4	2.7	0.5
	>2.5-10.0	16	17	13.8	27.5	6.26	4	2.7	1
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
ER25	1.0-2.5	25	26	22	34	6.66	5	3.1	0.5
	>2.5-16.0	25	26	22	34	6.66	5	3.1	1
ER32	2.0-2.5	32	33	29.2	40	7.16	5.5	3.6	0.5
	>2.5-20.0	32	33	29.2	40	7.16	5.5	3.6	1
ER40	3.0-26.0	40	41	36.2	46	7.66	7	4.1	1
ER50	6.0-10.0	50	52	46	60	12.6	8.5	5.5	1
	>10.0-34.0	50	52	46	60	12.6	8.5	5.5	2

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

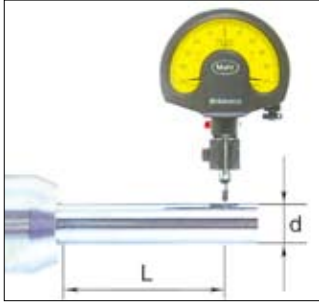
CD0101-01 ER筒夹 DIN6499B ER COLLET DIN6499B

型号 Model No.	规格 Type	
	公制 Metric	英制 Inch
ER8	1,1.5,2,2.5,3,3.5,4,4.5,5	1/32,3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16
ER11	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	1/32,3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16,13/64,7/32,15/64,1/4,17/64
ER16	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	1/32,3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16,13/64,7/32,15/64,1/4,17/64,9/32,19/64,5/16,21/64,11/32,23/64,3/8
ER20	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	1/32,3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16,13/64,7/32,15/64,1/4,17/64,9/32,19/64,5/16,21/64,11/32,23/64,3/8,25/64,13/32,27/64,7/16,29/64,15/32,31/64,1/2,33/64
ER25	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13,13.5,14,14.5,15,15.5,16	3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16,13/64,7/32,15/64,1/4,17/64,9/32,19/64,5/16,21/64,11/32,23/64,3/8,25/64,13/32,27/64,7/16,29/64,15/32,31/64,1/2,33/64,17/32,35/64,9/16,37/64,19/32,39/64,5/8
ER32	1,1.5,2,2.5,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	1/16,3/32,1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8,13/32,7/16,15/32,1/2,17/32,9/16,19/32,5/8,21/32,11/16,23/32,3/4,25/32
ER40	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8,13/32,7/16,15/32,1/2,17/32,9/16,19/32,5/8,21/32,11/16,23/32,3/4,25/32,13/16,27/32,7/8,29/32,15/16,31/32,1"
ER50	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34	1/4,9/32,5/16,11/32,3/8,13/32,7/16,15/32,1/2,17/32,9/16,19/32,5/8,21/32,11/16,23/32,3/4,25/32,13/16,27/32,7/8,29/32,15/16,31/32,1",1-1/32,1-1/16,1-3/32,1-1/8,1-5/32,1-3/16,1-7/32,1-1/4,1-9/32,1-5/16
ER12		1/8,2,3,4,5,6

ER8		ER11		ER16		ER20		ER25		ER32		ER40	
型号 Model No.	范围 Range	型号 Model No.	范围 Range	型号 Model No.	范围 Range	型号 Model No.	范围 Range	型号 Model No.	范围 Range	型号 Model No.	范围 Range	型号 Model No.	范围 Range
ER8-1	1-0.5	ER11-1	1-0.5	ER16-1	1-0.5	ER20-1	1-0.5	ER25-1	1-0.5	ER32-1	1-0.5	ER40-3	3-2
ER8-1.5	1.5-1	ER11-1.5	1.5-1	ER16-1.5	1.5-1	ER20-1.5	1.5-1	ER25-1.5	1.5-1	ER32-1.5	1.5-1	ER40-4	4-3
ER8-2	2-1.5	ER11-2	2-1.5	ER16-2	2-1.5	ER20-2	2-1.5	ER25-2	2-1.5	ER32-2	2-1.5	ER40-5	5-4
ER8-2.5	2.5-2	ER11-2.5	2.5-2	ER16-2.5	2.5-2	ER20-2.5	2.5-2	ER25-2.5	2.5-2	ER32-2.5	2.5-2	ER40-6	6-5
ER8-3	3-2.5	ER11-3	3-2.5	ER16-3	3-2	ER20-3	3-2	ER25-3	3-2	ER32-3	3-2	ER40-7	7-6
ER8-3.5	3.5-3	ER11-3.5	3.5-3	ER16-4	4-3	ER20-4	4-3	ER25-4	4-3	ER32-4	4-3	ER40-8	8-7
ER8-4	4-3.5	ER11-4	4-3.5	ER16-5	5-4	ER20-5	5-4	ER25-5	5-4	ER32-5	5-4	ER40-9	9-8
ER8-4.5	4.5-4	ER11-4.5	4.5-4	ER16-6	6-5	ER20-6	6-5	ER25-6	6-5	ER32-6	6-5	ER40-10	10-9
ER8-5	5-4.5	ER11-5	5-4.5	ER16-7	7-6	ER20-7	7-6	ER25-7	7-6	ER32-7	7-6	ER40-11	11-10
		ER11-5.5	5.5-5	ER16-8	8-7	ER20-8	8-7	ER25-8	8-7	ER32-8	8-7	ER40-12	12-11
		ER11-6	6-5.5	ER16-9	9-8	ER20-9	9-8	ER25-9	9-8	ER32-9	9-8	ER40-13	13-12
		ER11-6.5	6.5-6	ER16-10	10-9	ER20-10	10-9	ER25-10	10-9	ER32-10	10-9	ER40-14	14-13
		ER11-7	7-6.5			ER20-11	11-10	ER25-11	11-10	ER32-11	11-10	ER40-15	15-14
						ER20-12	12-11	ER25-12	12-11	ER32-12	12-11	ER40-16	16-15
						ER20-13	13-12	ER25-13	13-12	ER32-13	13-12	ER40-17	17-16
								ER25-14	14-13	ER32-14	14-13	ER40-18	18-17
								ER25-15	15-14	ER32-15	15-14	ER40-19	19-18
								ER25-16	16-15	ER32-16	16-15	ER40-20	20-19
										ER32-17	17-16	ER40-21	21-20
										ER32-18	18-17	ER40-22	22-21
										ER32-19	19-18	ER40-23	23-22
										ER32-20	20-19	ER40-24	24-23
												ER40-25	25-24
												ER40-26	26-25

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

精度检测 Inspection of Accuracy



DIN6499B	CD标准 CD Standard	d	径向跳动Run out	
			A级 A class	AA级 AA class
6	7.5	1.0-1.4	≤0.015	≤0.01
10	12	1.5-2.9		
16	20	3.0-5.9	≤0.008	≤0.005
25	30	6.0-9.9		
40	48	10.0-17.9		
50	60	18.0-26.9		
60	72	27.0-34	≤0.015	≤0.01

ER8,ER12,ER50:

A CLASS: 0.015mm. AA CLASS: 0.01mm

特制非标大孔ER夹头规格及精度检测 Specification and accuracy inspection of ER collets

型号 Model No.	规格 Type		径向跳动Run-out	
	公制 metric	英制 inch	A级 Aclass	AA级 AAclass
ER11	7.5	5/16	≤0.015	≤0.01
ER16	11,12	13/32,7/16,15/32		
ER20	14,15	17/32,9/16		
ER25	17,18	21/32,11/16		
ER32	21,22	13/16,27/32,7/8		
ER40	27,28,29,30	1-1/32,1-1/16,1-3/32,1-1/8		



ER高精度5μ夹头表面涂层处理外观特点:

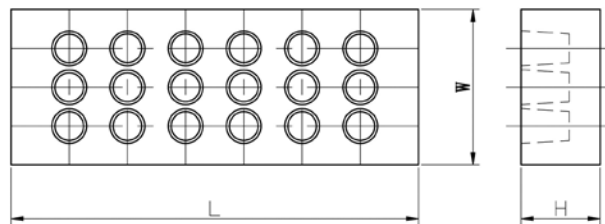
- 防锈蚀
- 提高表面硬度、耐磨性
- 清洁度更好, 精度稳定
- 表面更光滑, 手感舒适, 外观更漂亮

精度5 μ
Integrated
precision
5 μ

ER collets feature:

- Antirust
- Improve the hardness and endurance of the surface
- Cleaness better, Accuracy stable
- Surface more smooth, Feel comfortable, Appearance nice

ER 筒夹托盘 ER COLLET WOODEN TRAYS



Model No.	L (长)	W (宽)	H (高)	PCS	KGS
ER8	210	20	13	9	0.01
ER11	210	20	13	13	0.01
ER16	130	50	28	10	0.14
ER20	198	98	28	12	0.12
ER25	180	130	30	16	0.18
ER32	190	150	30	18	0.48
ER40	368	193	30	24	0.76
ER50	235	210	37	12	0.64

●可以根据客户要求订做装不同规格筒夹的托盘。

●Can be customized according to customer requirements of different specifications collet tray.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0101-02 ER筒夹套装 ER COLLET SET



ER8 A 级 A class

型号 Model No.	规格 Type	支/套 PCS/SET
ER8-9PCS	1,1.5,2,2.5,3,3.5,4,4.5,5	9PCS/SET
ER8-6PCS(inch)	1/32,1/16,3/32,1/8,5/32,3/16	6PCS/SET



ER11 A 级 A class

型号 Model No.	规格 Type	支/套 PCS/SET
ER11-7PCS	1,2,3,4,5,6,7	7PCS/SET
ER11-9PCS	3,3.5,4,4.5,5,5.5,6,6.5,7	9PCS/SET
ER11-13PCS	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	13PCS/SET
ER11-8PCS(inch)	1/32,1/16,3/32,1/8,5/32,3/16,7/32,1/4	8PCS/SET



ER16 A 级 A class

型号 Model No.	规格 Type	支/套 PCS/SET
ER16-10PCS	1,2,3,4,5,6,7,8,9,10	10PCS/SET
ER16-8PCS	3,4,5,6,7,8,9,10	8PCS/SET
ER16-12PCS	1,1.5,2,2.5,3,4,5,6,7,8,9,10	12PCS/SET
ER16-12PCS(inch)	1/32,1/16,3/32,1/8,5/32,3/16,7/32,1/4, 9/32,5/16, 11/32,3/8	12PCS/SET
ER16-8PCS(inch)	1/8,5/32,3/16,7/32,1/4,5/16,11/32,3/8	8PCS/SET
ER16-5PCS(inch)	1/8,3/16,1/4,5/16,3/8	5PCS/SET



ER20 A 级 A class

型号 Model No.	规格 Type	支/套 PCS/SET
ER20-12PCS	2,3,4,5,6,7,8,9,10,11,12,13	12PCS/SET
ER20-13PCS	1,2,3,4,5,6,7,8,9,10,11,12,13	13PCS/SET
ER20-11PCS	3,4,5,6,7,8,9,10,11,12,13	11PCS/SET
ER20-14PCS	1,1.5,2,3,4,5,6,7,8,9,10,11,12,13	14PCS/SET
ER20-16PCS(inch)	1/32,1/16,3/32,1/8,5/32,3/16,7/32,1/4, 9/32,5/16, 11/32,3/8,13/32,7/16,15/32,1/2	16PCS/SET
ER20-14PCS(inch)	3/32,1/8,5/32,3/16,7/32,1/4,9/32,5/16, 11/32,3/8, 13/32,7/16,15/32,1/2	14PCS/SET
ER20-11PCS(inch)	1/8,5/32,3/16,7/32,1/4,9/32,5/16, 11/32,3/8,7/16, 1/2	11PCS/SET



ER25 A 级 A class

型号 Model No.	规格 Type	支/套 PCS/SET
ER25-14PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16	14PCS/SET
ER25-15PCS	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	15PCS/SET
ER25-18PCS	1,1.5,2,2.5,3,4,5,6,7,8,9,10,11,12,13,14,15,16	18PCS/SET
ER25-18PCS(inch)	3/32,1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8, 13/32,7/16,15/32,1/2,17/32,9/16,19/32,5/8	18PCS/SET
ER25-9PCS(inch)	1/8,3/16,1/4,5/16,3/8,7/16,1/2,9/16,5/8	9PCS/SET

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0101-02 ER筒夹套装 ER COLLET SET

ER32 A 级 A class



型号 Model No.	规格 spec	支/套 PCS/SET
ER32-18PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18PCS/SET
ER32-19PCS	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	19PCS/SET
ER32-21PCS	1.1,5,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	21PCS/SET
ER32-18PCS(inch)	1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8,7/16,15/32,1/2,9/16,19/32,5/8,11/16,23/32,3/4	18PCS/SET
ER32-12PCS(inch)	1/8,5/32,3/16,1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4	12PCS/SET
ER32-11PCS(inch)	1/8,3/16,1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4	11PCS/SET
ER32-21PCS(inch)	1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8,13/32,7/16,15/32,1/2,17/32,9/16,19/32,5/8,21/32,11/16,23/32,3/4	21PCS/SET

ER40 A 级 A class



型号 Model No.	规格 Type	支/套 PCS/SET
ER40-24PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	24PCS/SET
ER40-23PCS	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	23PCS/SET
ER40-18PCS	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,25	18PCS/SET
ER40-15PCS	4,5,6,8,10,12,14,15,16,18,20,22,24,25,26	15PCS/SET
ER40-8PCS	4,6,8,10,12,16,20,25	8PCS/SET
ER40-23PCS(inch)	1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8,7/16,15/32,1/2,9/16,19/32,5/8,11/16,23/32,3/4,13/16,27/32,7/8,29/32,1"	23PCS/SET
ER40-18PCS(inch)	5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8,7/16,15/32,1/2,9/16,19/32,5/8,11/16,3/4,13/16,1"	18PCS/SET
ER40-15PCS(inch)	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"	15PCS/SET
ER40-14PCS(inch)	1/8,3/16,1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,1"	14PCS/SET
ER40-8PCS(inch)	1/8,1/4,3/8,1/2,5/8,3/4,7/8,1"	8PCS/SET

ER50 A 级 A class



型号 Model No.	规格 Type	支/套 PCS/SET
ER50-29PCS	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34	29PCS/SET
ER50-15PCS	6,8,10,12,14,16,18,20,22,24,26,28,30,32,34	15PCS/SET
ER50-35PCS(inch)	1/4,9/32,5/16,11/32,3/8,13/32,7/16,15/32,1/2,17/32,9/16,19/32,5/8,21/32,11/16,23/32,3/4,25/32,13/16,27/32,7/8,29/32,1/2,15/16,31/32,1",1-1/32,1-1/16,1-3/32,1-1/8,1-5/32,1-3/16,1-7/32,1-1/4,1-9/32,1-5/16	35PCS/SET
ER50-15PCS(inch)	1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1-1/8,1-3/16,1-9/32	15PCS/SET



- ◇订购时, 请注明A级或AA级。
- ◇When ordering, please specify A class or AA class.
- ◇订购时, 请注明外观光饰或涂层处理。
- ◇When ordering please specify the type of appearance: Polish or Chemical Nickel plated.
- ◇订购时, 请注明使用木盒、铝合金盒或塑料盒。
- ◇When ordering, please specify use wooden, aluminum or plastic case.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0101-03 ER/C止水筒夹 (内冷式) ER/C COLLET (OIL HOLE TYPE)

精度5 μ / 8 μ
Integrated precision
5 μ / 8 μ



20个弹性槽 20slot

- ◇ 材料: SUJ2
- ◇ 硬度: 46-50HRC
- ◇ Material: SUJ2
- ◇ Hardness: 46-50HRC

- ◎ 利用沟槽差异, 达到周围止水, 仅中心出水的功能
- ◎ 适用于夹持有出水孔的刀具
- ◎ 最高可承受水压30Mpa
- ◎ 非标准孔可订制
- ◎ Differences in the use of grooves to reach around the sealing
- ◎ Central water feature only applies to folders to hold the water hole tool
- ◎ Can withstand water pressure 30Mpa
- ◎ Non-standard holes can be customized.

精度8 μ
Integrated precision
8 μ



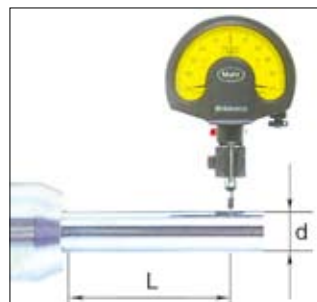
16个弹性槽的无收缩范围

16个弹性槽 16slot

型号 Model No.	d	夹持范围 Range	D	D1	L	L1	槽数 slot
ER11C	3~7	0.1	11	11.5	18	3.8	16
ER16C	3≤d<6	0.1	16	17	27.5	6.26	16
	6~10	0.5					20
ER20C	3≤d<6	0.1	20	21	31.5	6.36	16
	6~13	0.5					20
ER25C	3≤d<6	0.1	25	26	34	6.66	16
	6~16	0.5					20
ER32C	3≤d<8	0.1	32	33	40	7.16	16
	8~20	0.5					20
ER40C	4≤d<10	0.1	40	41	46	7.66	16
	10~26	0.5					20
ER50C	12~34	0.5	50	52	60	12.6	20

精度检测 Inspection of Accuracy

L		d	径向跳动Run out	
DIN6499B	CD标准 CDStandard		A级 A class	AA级 AA class
16	20	3.0-6.0	≤0.008	≤0.005
25	30	6.0-10.0		
40	48	10.0-18.0		
50	60	18.0-27.0		
60	72	27.0-34.0	≤0.015	≤0.01



高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

ER11C		ER16C		ER20C		ER25C		ER32C		ER40C		ER50C	
规格 Type	夹持范围 Range	规格 Type	夹持范围 Range	规格 Type	夹持范围 Range	规格 Type	夹持范围 Range	规格 Type	夹持范围 Range	规格 Type	夹持范围 Range	规格 Type	夹持范围 Range
3C	3-2.9	3C	3-2.9	3C	3-2.9	3C	3-2.9	3C	3-2.9	4C	4-3.9	12C	12-11.5
4C	4-3.9	4C	4-3.9	4C	4-3.9	4C	4-3.9	4C	4-3.9	5C	5-4.9	14C	14-13.5
4.5C	4.5-4.4	4.5C	4.5-4.4	5C	5-4.9	5C	5-4.9	5C	5-4.9	6C	6-5.9	16C	16-15.5
5C	5-4.9	5C	5-4.9	5.5C	5.5-5.4	6C	6-5.5	6C	6-5.9	7C	7-6.9	16.5C	16.5-16
5.5C	5.5-5.4	5.5C	5.5-5.4	6C	6-5.5	6.5C	6.5-6	7C	7-6.9	8C	8-7.9	17C	17-16.5
6C	6-5.9	6C	6-5.5	6.5C	6.5-6	7C	7-6.5	8C	8-7.5	9C	9-8.9	17.5C	17.5-17
6.5C	6.5-6.4	6.5C	6.5-6	7C	7-6.5	7.5C	7.5-7	8.5C	8.5-8	10C	10-9.5	18C	18-17.5
7C	7-6.9	7C	7-6.5	7.5C	7.5-7	8C	8-7.5	9C	9-8.5	10.5C	10.5-10	18.5C	18.5-18
		7.5C	7.5-7	8C	8-7.5	8.5C	8.5-8	9.5C	9.5-9	11C	11-10.5	19C	19-18.5
		8C	8-7.5	8.5C	8.5-8	9C	9-8.5	10C	10-9.5	11.5C	11.5-11	19.5C	19.5-19
		8.5C	8.5-8	9C	9-8.5	9.5C	9.5-9	10.5C	10.5-10	12C	12-11.5	20C	20-19.5
		9C	9-8.5	9.5C	9.5-9	10C	10-9.5	11C	11-10.5	12.5C	12.5-12	20.5C	20.5-20
		9.5C	9.5-9	10C	10-9.5	10.5C	10.5-10	11.5C	11.5-11	13C	13-12.5	21C	21-20.5
		10C	10-9.5	10.5C	10.5-10	11C	11-10.5	12C	12-11.5	13.5C	13.5-13	21.5C	21.5-21
				11C	11-10.5	11.5C	11.5-11	12.5C	12.5-12	14C	14-13.5	22C	22-21.5
				11.5C	11.5-11	12C	12-11.5	13C	13-12.5	14.5C	14.5-14	22.5C	22.5-22
				12C	12-11.5	12.5C	12.5-12	13.5C	13.5-13	15C	15-14.5	23C	23-22.5
				12.5C	12.5-12	13C	13-12.5	14C	14-13.5	15.5C	15.5-15	23.5C	23.5-23
				13C	13-12.5	13.5C	13.5-13	14.5C	14.5-14	16C	16-15.5	24C	24-23.5
						14C	14-13.5	15C	15-14.5	16.5C	16.5-16	24.5C	24.5-24
						14.5C	14.5-14	15.5C	15.5-15	17C	17-16.5	25C	25-24.5
						15C	15-14.5	16C	16-15.5	17.5C	17.5-17	25.5C	25.5-25
						15.5C	15.5-15	16.5C	16.5-16	18C	18-17.5	26C	26-25.5
						16C	16-15.5	17C	17-16.5	18.5C	18.5-18	26.5C	26.5-26
								17.5C	17.5-17	19C	19-18.5	27C	27-26.5
								18C	18-17.5	19.5C	19.5-19	27.5C	27.5-27
								18.5C	18.5-18	20C	20-19.5	28C	28-27.5
								19C	19-18.5	20.5C	20.5-20	28.5C	28.5-28
								19.5C	19.5-19	21C	21-20.5	29C	29-28.5
								20C	20-19.5	21.5C	21.5-21	29.5C	29.5-29
										22C	22-21.5	30C	30-29.5
										22.5C	22.5-22	30.5C	30.5-30
										23C	23-22.5	31C	31-30.5
										23.5C	23.5-23	31.5C	31.5-31
										24C	24-23.5	32C	32-31.5
										24.5C	24.5-24	32.5C	32.5-32
										25C	25-24.5	33C	33-32.5
										25.5C	25.5-25	33.5C	33.5-33
										26C	26-25.5	34C	34-33.5

CD0101-04 ER/C止水筒夹 (内冷式) 套装 ER/C COLLET(OIL HOLE TYPE)SET

型号 Model No.	夹持能力 Capacity	规格 Type	支/套 PCS/SET
ER11C	3-7	3,4,4.5,5,5.5,6,6.5,7	8
ER16C	3-10	3,4,5,6,7,8,9,10	8
ER20C	3-13	3,4,5,6,7,8,9,10,11,12,13	11
ER25C	3-16	3,4,5,6,7,8,9,10,11,12,13,14,15,16	14
ER32C	3-20	3,4,5,6,7,8,9,10,11,12,13,14,15,16, 17,18,19,20	18
ER40C	4-26	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,2,3,24,25,26	23
ER50C	12-34	12,14,16,18,20,22,24,26,28,30,32,34	12

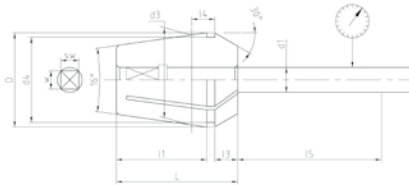


- ◆ 订购时, 请注明A 级或AA级
- ◆ 订购时, 请注明外观光饰或涂层处理
- ◆ When ordering, please specify A class or AA class.
- ◆ When ordering please specify the type of appearance: Polish or Chemical Nickel plated.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0101-05 ERG型攻丝筒夹 ERG TAP COLLET

- 材料: SUJ2
- Material: SUJ2
- 硬度: 46-50HRC
- Hardness: 46-50HRC



8槽 8 slot



16槽 16 slot

Outer diameter size according to DIN6499-B

型号 Model No.	D	d3	d4	L	l1	l3	l4	Capacity
ER16G	17	16	13.8	27.5	20.8	4.0	6.26	M3-M10
ER20G	21	20	17.4	31.5	23.9	4.8	6.36	M3-M17
ER25G	26	25	22	34	25.9	5.0	6.66	M3-M22
ER32G	33	32	29.2	40	31.8	5.5	7.16	M3-M27
ER40G	42	40	36.2	46	35.5	7	7.66	M3-M27
ER50G	52	50	46	60	46	8.5	12.6	M6-M36

测量长度	径向跳动 Run out	
	8槽 8 slot	16槽 16 slot
L5	≤0.02	≤0.008

ER16G

ER20G

型号 Model No.	d1	SW	W □	通用标准 Standard d2				L2
				ISO	JIS	DIN 371	DIN 376	
ER16G-2.24	2.24	2	1.8	M3				15
ER16G-2.5	2.5	2.2	2.1				M3.5	
			2.0	M3.5				
ER16G-2.8	2.8	2.6	2.1				M4	15
ER16G-3	3	2.8	2.5		M2			
ER16G-3.15	3.15	2.9	2.5	M3,M4				
ER16G-3.5	3.5	3.3	2.7			M3	M5	18
ER16G-3.55	3.55	3.3	2.8	M3.5, M4.5				
ER16G-4	4	3.8	3			M3.5		
			3.1		M3			
			3.15	M4, M5				
ER16G-4.5	4.5	4.3	3.4		M4	M6		18
			3.55	M6				
ER16G-5	5	4.7	4	M5	M4, M4.5			18
			4.3			M7		
ER16G-5.5	5.5	4.37	4.5		M5, M5.5			18
			4.5	M6				
ER16G-6	6	5.09	4.5		M6			18
			4.9		M5, M6	M8		
ER16G-6.2	6.2	5.21	5		M7, M8			22
ER16G-6.3	6.3	5.21	5	M6, M8				
ER16G-7	7	5.84	5.5		M9, M10	M7	M10	
ER16G-8	8	6.88	6		M11			22
			6.2		M8	M11		
			6.3	M8, M10				
ER16G-8.5	8.5	7.14	6.5		M12			22
ER16G-9	9	7.95	7				M12	
			7.1	M12				
ER16G-10	10	9.16	8			M10		25

型号 Model No.	d1	SW	W □	通用标准 Standard d2				L2
				ISO	JIS	DIN 371	DIN 376	
ER20G-2.24	2.24	2	1.8	M3				15
ER20G-2.5	2.5	2.2	2.1				M3.5	
			2.0	M3.5				
ER20G-2.8	2.8	2.6	2.1				M4	15
ER20G-3	3	2.8	2.5		M2			
ER20G-3.15	3.15	2.9	2.5	M3,M4				
ER20G-3.5	3.5	3.3	2.7			M3	M5	18
ER20G-3.55	3.55	3.3	2.8	M3.5, M4.5				
ER20G-4	4	3.8	3			M3.5		
			3.1		M3			
			3.15	M4, M5				
ER20G-4.5	4.5	4.3	3.4		M4	M6		18
			3.55	M6				
ER20G-5	5	4.7	4	M5	M4, M4.5			18
			4.3			M7		
ER20G-5.5	5.5	4.37	4.5		M5, M5.5			18
			4.5	M6				
ER20G-6	6	5.09	4.5		M6			18
			4.9		M5, M6	M8		
ER20G-6.2	6.2	5.21	5		M7, M8			22
ER20G-6.3	6.3	5.21	5	M6, M8				
ER20G-7	7	5.84	5.5		M9, M10	M7	M10	
ER20G-8	8	6.88	6		M11			22
			6.2		M8	M11		
			6.3	M8, M10				
ER20G-8.5	8.5	7.14	6.5		M12			22
ER20G-9	9	7.95	7				M12	
			7.1	M12				
ER20G-10	10	9.16	8			M10		25
ER20G-10.5	10.5	9.16	8			M14, M15		25
ER20G-11	11	10.53	9				M14	
ER20G-11.2	11.2	10.53	9	M14				
ER20G-12	12	10.53	9				M16	
ER20G-12.5	12.5	11.91	10	M16	M16			
ER20G-13	13	11.91	10			M17		
			10					

- ◇ 订购时, 请注明标准和d2、d1、W尺寸
- ◇ When ordering please specify the collet type, and the size of d2、d1、W

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0101-05 ERG型攻丝筒夹 ERG TAP COLLET ER25G

ER32G

型号 Model No.	d1	SW	W □	通用标准Standard d2				L2
				ISO	JIS	DIN 371	DIN 376	
ER25G-2.24	2.24	2	1.8	M3				15
ER25G-2.5	2.5	2.2	2.1				M3.5	
			2.0	M3.5				
ER25G-2.8	2.8	2.6	2.1				M4	18
ER25G-3	3	2.8	2.5		M2			
ER25G-3.15	3.15	2.9	2.5	M3,M4				
ER25G-3.5	3.5	3.3	2.7			M3	M5	18
ER25G-3.55	3.55	3.3	2.8	M3.5, M4.5				
ER25G-4	4	3.8	3			M3.5		
			3.1		M3			
			3.15	M4, M5				
ER25G-4.5	4.5	4.3	3.4			M4	M6	18
			3.55	M6				
ER25G-5	5	4.7	4	M5	M4, M4.5			
ER25G-5.5	5.5	4.37	4.3				M7	22
			4.5		M5, M5.5			
ER25G-6	6	5.09	4.5		M6			
			4.9			M5, M6	M8	
ER25G-6.2	6.2	5.21	5		M7, M8			
ER25G-6.3	6.3	5.21	5	M6, M8				
ER25G-7	7	5.84	5.5		M9, M10	M7	M10	22
ER25G-8	8	6.88	6		M11			
			6.2			M8	M11	
			6.3	M8, M10				
ER25G-8.5	8.5	7.14	6.5			M12		
ER25G-9	9	7.95	7				M12	25
ER25G-10	10	9.16	8			M10		
			9				M14	
ER25G-10.5	10.5	9.16	8		M14, M15			
ER25G-11	11	10.53	9				M14	25
ER25G-11.2	11.2	10.53	9	M14				
ER25G-12	12	10.53	9				M16	
ER25G-12.5	12.5	11.91	10	M16	M16			
ER25G-13	13	11.91	10			M17		28
ER25G-14	14	12.97	11			M18	M18	
			11.2	M18, M20				
ER25G-15	15	14.06	12			M20		
ER25G-16	16	14.06	12				M20	
			12.5	M22				

型号 Model No.	d1	SW	W □	通用标准Standard d2				L2	
				ISO	JIS	DIN 371	DIN 376		
ER32G-2.24	2.24	2	1.8	M3				15	
ER32G-2.5	2.5	2.2	2.1				M3.5		
			2.0	M3.5					
ER32G-2.8	2.8	2.6	2.1				M4	18	
ER32G-3	3	2.8	2.5		M2				
ER32G-3.15	3.15	2.9	2.5	M3,M4					
ER32G-3.5	3.5	3.3	2.7			M3	M5	18	
ER32G-3.55	3.55	3.3	2.8	M3.5, M4.5					
ER32G-4	4	3.8	3			M3.5			
			3.1		M3				
			3.15	M4, M5					
ER32G-4.5	4.5	4.3	3.4			M4	M6	18	
			3.55	M6					
ER32G-5	5	4.7	4	M5	M4, M4.5				
ER32G-5.5	5.5	4.37	4.3				M7	22	
			4.5		M5, M5.5				
ER32G-6	6	5.09	4.5		M6				
			4.9			M5, M6	M8		
ER32G-6.2	6.2	5.21	5			M7, M8			
ER32G-6.3	6.3	5.21	5	M6, M8					
ER32G-7	7	5.84	5.5			M9, M10	M7	M10	22
ER32G-8	8	6.88	6			M11			
			6.2			M8	M11		
			6.3	M8, M10					
ER32G-8.5	8.5	7.14	6.5				M12	25	
ER32G-9	9	7.95	7				M12		
			7.1	M12					
ER32G-10	10	9.16	8	M10		M10			
ER32G-10.5	10.5	9.16	8			M14, M15			
ER32G-11	11	10.53	9				M14	25	
ER32G-11.2	11.2	10.53	9	M14					
ER32G-12	12	10.53	9				M16		
ER32G-12.5	12.5	11.91	10	M16	M16				
ER32G-13	13	11.91	10			M17		28	
ER32G-14	14	12.97	11			M18	M18		
			11.2	M18, M20					
ER32G-15	15	14.06	12			M20			
ER32G-16	16	14.06	12				M20		
			12.5	M22					
ER32G-17	17	15.44	13			M22		33	
ER32G-18	18	17.52	14.5				M22, M24		
			14	M24					
ER32G-19	19	18.22	15			M24, M25			
ER32G-20	20	19.61	15			M26, M27			

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0101-05 ERG型攻丝筒夹 ERG TAP COLLET

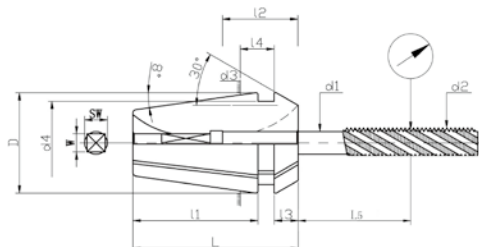
ER40G

ER50G

型号 Model No.	d1	SW	W □	通用标准Standard d2				L2	型号 Model No.	d1	SW	W □	通用标准Standard d2				L2
				ISO	JIS	DIN 371	DIN 376						ISO	JIS	DIN 371	DIN 376	
ER40G-2.24	2.24	2	1.8	M3				15	ER50G-6	6	5.09	4.5		M6			18
ER40G-2.5	2.5	2.2	2.1				M3.5		ER50G-6	6	5.09	4.9			M5, M6	M8	
ER40G-2.8	2.8	2.6	2.1				M4	18	ER502G-6.2	6.2	5.21	5		M7, M8			18
ER40G-3	3	2.8	2.5		M2				ER50G-6.3	6.3	5.21	5	M6, M8				
ER40G-3.15	3.15	2.9	2.5	M3, M4				18	ER50G-7	7	5.84	5.5		M9, M10	M7	M10	22
ER40G-3.5	3.5	3.3	2.7			M3	M5		ER50G-8	8	6.88	6		M11			
ER40G-3.55	3.55	3.3	2.8	M3.5, M4.5				18	ER50G-8	8	6.88	6.2			M8	M11	22
ER40G-4	4	3.8	3			M3.5			ER50G-8	8	6.88	6.3	M8, M10				
ER40G-4	4	3.8	3.1		M3			18	ER50G-8.5	8.5	7.14	6.5		M12			25
ER40G-4	4	3.8	3.15	M4, M5					ER50G-9	9	7.95	7				M12	
ER40G-4.5	4.5	4.3	3.4			M4	M6	18	ER50G-9	9	7.95	7.1	M12				25
ER40G-4.5	4.5	4.3	3.55	M6					ER50G-10	10	9.16	8	M10		M10		
ER40G-5	5	4.7	4	M5	M4, M4.5			18	ER50G-10	10	9.16	8	M10		M10		25
ER40G-5	5	4.7	4	M5	M4, M4.5				ER50G-10.5	10.5	9.16	8		M14, M15			
ER40G-5.5	5.5	4.37	4.3				M7	18	ER50G-10.5	10.5	9.16	8		M14, M15			25
ER40G-5.5	5.5	4.37	4.5		M5, M5.5				ER50G-11	11	10.53	9				M14	
ER40G-6	6	5.09	4.5		M6			18	ER50G-11	11	10.53	9				M14	25
ER40G-6	6	5.09	4.9			M5, M6	M8		ER50G-11.2	11.2	10.53	9	M14				
ER402G-6.2	6.2	5.21	5		M7, M8			18	ER50G-11.2	11.2	10.53	9	M14				25
ER40G-6.3	6.3	5.21	5	M6, M8					ER50G-12	12	10.53	9				M16	
ER40G-7	7	5.84	5.5		M9, M10	M7	M10	18	ER50G-12	12	10.53	9				M16	25
ER40G-7	7	5.84	5.5		M9, M10	M7	M10		ER50G-12.5	12.5	11.91	10	M16	M16			
ER40G-8	8	6.88	6		M11			18	ER50G-12.5	12.5	11.91	10	M16	M16			25
ER40G-8	8	6.88	6.2			M8	M11		ER50G-13	13	11.91	10		M17			
ER40G-8	8	6.88	6.3	M8, M10				18	ER50G-13	13	11.91	10		M17			25
ER40G-8	8	6.88	6.3	M8, M10					ER50G-14	14	12.97	11		M18		M18	
ER40G-8.5	8.5	7.14	6.5		M12			18	ER50G-14	14	12.97	11.2	M18, M20				25
ER40G-8.5	8.5	7.14	6.5		M12				ER50G-15	15	14.06	12				M20	
ER40G-9	9	7.95	7				M12	18	ER50G-15	15	14.06	12				M20	25
ER40G-9	9	7.95	7.1	M12					ER50G-16	16	14.06	12.5	M22				
ER40G-10	10	9.16	8	M10		M10		18	ER50G-16	16	14.06	12.5	M22				25
ER40G-10	10	9.16	8	M10		M10			ER50G-17	17	15.44	13		M22			
ER40G-10.5	10.5	9.16	8		M14, M15			18	ER50G-17	17	15.44	13		M22			25
ER40G-11	11	10.53	9				M14		ER50G-18	18	17.52	14.5				M22, M24	
ER40G-11.2	11.2	10.53	9	M14				18	ER50G-18	18	17.52	14	M24				28
ER40G-12	12	10.53	9				M16		ER50G-19	19	18.2	15		M24, M25			
ER40G-12.5	12.5	11.91	10	M16	M16			18	ER50G-19	19	18.2	15		M24, M25			25
ER40G-13	13	11.91	10		M17				ER50G-20	20	19.61	15		M26, M27			
ER40G-14	14	12.97	11		M18		M18	18	ER50G-20	20	19.61	15		M26, M27			28
ER40G-14	14	12.97	11.2	M18, M20					ER50G-21	21	20.5	17		M28			
ER40G-15	15	14.06	12		M20			18	ER50G-21	21	20.5	17		M28			25
ER40G-15	15	14.06	12		M20				ER50G-22	22	21.6	18				M30	
ER40G-16	16	14.06	12				M20	18	ER50G-22	22	21.6	18				M30	40
ER40G-16	16	14.06	12.5	M22					ER50G-22.4	22.4	21.6	18	M33				
ER40G-17	17	15.44	13		M22			18	ER50G-23	23	20.5	17		M30			25
ER40G-17	17	15.44	13		M22				ER50G-24	24	21.6	18					
ER40G-18	18	17.52	14.5				M22, M24	18	ER50G-24	24	21.6	18					25
ER40G-18	18	17.52	14	M24					ER50G-25	25	24.53	19		M33			
ER40G-19	19	18.2	15		M24, M25			18	ER50G-25	25	24.53	20	M36				40
ER40G-19	19	18.2	15		M24, M25				ER50G-26	26	25.4	19					
ER40G-20	20	19.61	15		M26, M27			18	ER50G-28	28	27	21		M36			25
ER40G-20	20	19.61	15		M26, M27				ER50G-29	29	28.2	20					

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0101-06 ERG型攻牙筒夹 英制规格 ERG RIGID TAP COLLET INCH SIZE



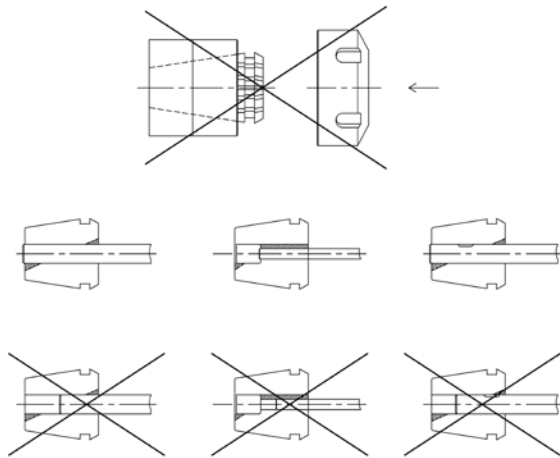
8槽 8 slot

16槽 16 slot

ER16G RIGID TAP COLLET				ER25G RIGID TAP COLLET			
d2	d1	SW	W □	d2	d1	SW	W □
5/32	0.168 "	0.151 "	0.131 "	5/32	0.168 "	0.151 "	0.131 "
3/16	0.194 "	0.180 "	0.152 "	3/16	0.194 "	0.180 "	0.152 "
7/32	0.220 "	0.198 "	0.165 "	7/32	0.220 "	0.198 "	0.165 "
1/4	0.255 "	0.198 "	0.191 "	1/4	0.255 "	0.198 "	0.191 "
ER20G RIGID TAP COLLET				5/16	0.318 "	0.258 "	0.238 "
d2	d1	SW	W □	7/16	0.323 "	0.263 "	0.242 "
5/32	0.168 "	0.151 "	0.131 "	1/2	0.367 "	0.307 "	0.275 "
3/16	0.194 "	0.180 "	0.152 "	3/8	0.381 "	0.321 "	0.286 "
7/32	0.220 "	0.198 "	0.165 "	9/16	0.429 "	0.370 "	0.322 "
1/4	0.255 "	0.198 "	0.191 "	1/8PT	0.437 "	0.378 "	0.328 "
5/16	0.318 "	0.258 "	0.238 "	5/8	0.480 "	0.422 "	0.360 "
7/16	0.323 "	0.263 "	0.242 "	ER40G RIGID TAP COLLET			
1/2	0.367 "	0.307 "	0.275 "	d2	d1	SW	W □
3/8	0.381 "	0.321 "	0.286 "	1/4	0.255 "	0.198 "	0.191 "
9/16	0.429 "	0.370 "	0.322 "	5/16	0.318 "	0.258 "	0.238 "
ER32G RIGID TAP COLLET				7/16	0.323 "	0.263 "	0.242 "
d2	d1	SW	W □	1/2	0.367 "	0.307 "	0.275 "
5/32	0.168 "	0.151 "	0.131 "	3/8	0.381 "	0.321 "	0.286 "
3/16	0.194 "	0.180 "	0.152 "	9/16	0.429 "	0.370 "	0.322 "
7/32	0.220 "	0.198 "	0.165 "	1/8PT	0.437 "	0.378 "	0.328 "
1/4	0.255 "	0.198 "	0.191 "	5/8	0.480 "	0.422 "	0.360 "
5/16	0.318 "	0.258 "	0.238 "	11/16	0.542 "	0.486 "	0.406 "
7/16	0.323 "	0.263 "	0.242 "	1/4PT	0.562 "	0.483 "	0.421 "
1/2	0.367 "	0.307 "	0.275 "	3/4	0.590 "	0.512 "	0.442 "
3/8	0.381 "	0.321 "	0.286 "	13/16	0.649 "	0.576 "	0.489 "
9/16	0.429 "	0.370 "	0.322 "	1/2PT	0.687 "	0.612 "	0.515 "
1/8PT	0.437 "	0.378 "	0.328 "	7/8	0.697 "	0.623 "	0.523 "
5/8	0.480 "	0.422 "	0.360 "	3/8PT	0.700 "	0.634 "	0.531 "
11/16	0.542 "	0.486 "	0.406 "	15/16	0.760 "	0.689 "	0.570 "
1/4PT	0.562 "	0.483 "	0.421 "	1	0.800 "	0.730 "	0.600 "
3/4	0.590 "	0.512 "	0.442 "				
13/16	0.649 "	0.576 "	0.489 "				

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

» 高速、高精度、高寿命ER刀柄 HIGH SPEED HIGH ACCURACY HIGH DURABILITY ER MILLING CHUCK



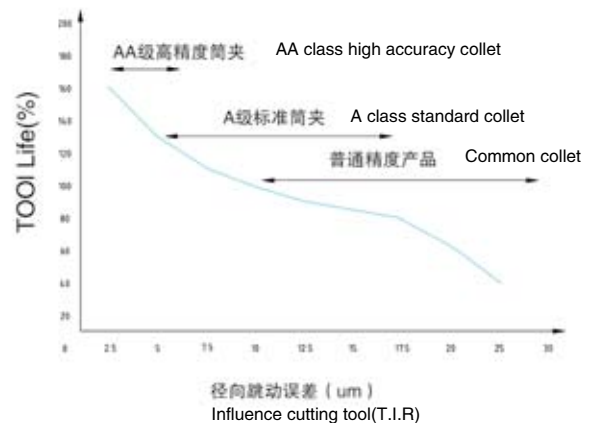
● 不正确的装配可能会永久性损坏筒夹的精度，并可能导致损坏螺帽。将刀具尽可能的塞入筒夹的夹持长度以达到最佳效果。不正确地塞入刀具可能会使筒夹永久性的变形，并导致较差的径向跳动误差。

● Incorrect assembly may permanently damage the collet accuracy and may result in damage to the nut. Clamping of the tool into the collet as far as possible the length to achieve the best results. Incorrectly put into the tool may cause permanent deformation of the collet and lead to poorer radial run out.

Influence cutting tool(T.I.R)

径向跳动误差 (T.I.R)

对刀具的影响



TOOL Life(%)

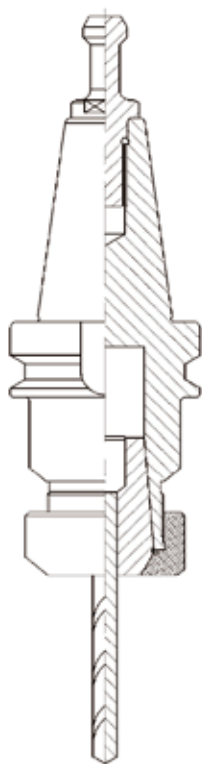
径向跳动误差 (um)
Influence cutting tool(T.I.R)

● 刀具径跳是整个刀柄系统：刀柄、筒夹、螺帽的共同作用。所以为达到最佳的夹持精度，推荐使用崇德公司的高精度刀柄、筒夹和螺帽。

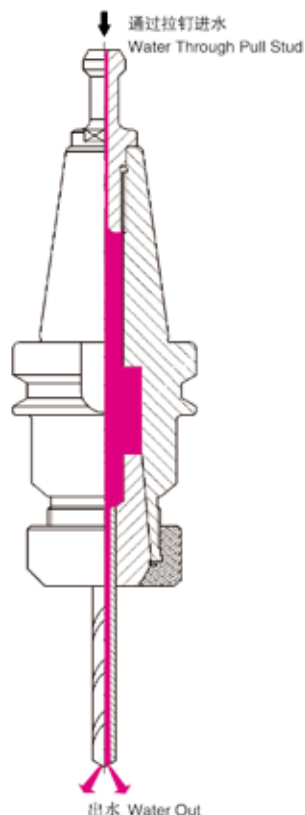
● Cutting tool T.I.R is the tooling system: a combination of the collet chuck, collet, nut. So to achieve the best clamping precision, it is recommended to use chongde company high-precision collet chuck, collet, and nuts.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

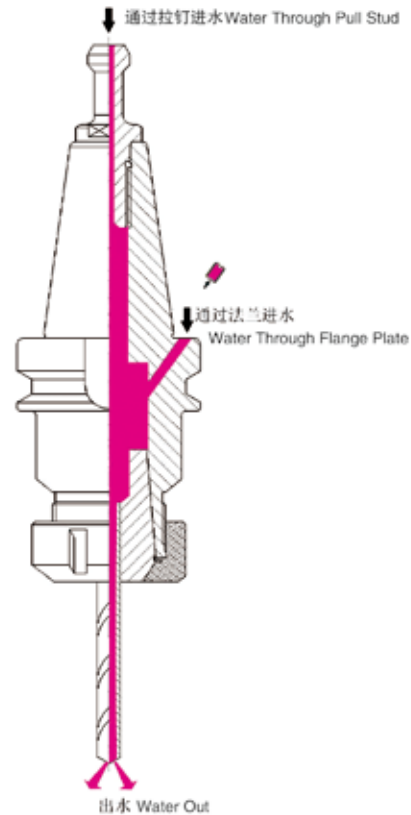
》》 MAS 403 BT / DIN 69871 SK



A Type:



AD Type:



AD+B Type:

- ◇ 一般情况下,按AD型供货,加定位螺钉,有特殊指定,如: BT40 (AD+B) -ER32-100L, 按AD+B型供货
- ◇ Generally,we provide AD products,add positionig screw,if order special,such as BT40(AD+B)-ER32-100L,we provide AD+B type
- 基本材质: 20CrMnTi / SCM415
- 硬度: 56-60 HRC , 渗碳深度:>0.8mm
- 锥柄部规格BT/SK (DIN69871)/CAT/HSK, 公差等级: ≤AT3
- 刀柄预设动平衡G6.3-8000rpm, 标准动平衡G6.3-12000rpm,精密动平衡可达G2.5-15000rpm, 20000rpm
- 刀柄本体BT (MAS403)、SK (DIN69871) 可分三种形式: A型(中心不出水)、AD型(仅中心出水)、AD+B型: (中心出水+法兰出水)

- Basic Material:20CrMnTi / SCM415
- Hardness: 56-60 HRC ,Carbon depth:>0.8mm
- Shank body standard BT/DIN69871-SK/CAT/HSK, Taper tolerance: ≤AT3
- The pre-balanceG6.3-8000Pm,the standard precisionG6.3-12000rpm, G2.5-15000rpm, 20000rpm
- Shank BT (MAS403)、SK (DIN69871) :A(without through hole). AD(without through hole for center coolant). AD+B(the former is in the center cold,the latter is in the flange plate cold,may realize central cooling and the side cools two forms the freedoms to transform

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES



ER高速刀柄综合检测特点:

- ◆ 7:24锥度精度 \leq AT3均在**Diebold**的标准检具上一次检测完成;
- ◆ 夹持的内锥面由高速内孔磨床磨削,并用标准的汽动测量仪检测,大端接触面积率在90%以上;
- ◆ 刀柄螺纹用4h级的螺纹环规检测,螺帽用4H级的螺纹塞规检测,通端通,止端止;
- ◆ 刀柄本体内锥跳动 (Run-out) : \leq 0.002mm(刀柄长度在100L内);
- ◆ 同轴度5u: 刀柄径跳 \leq 0.002mm,装入 \leq 0.005mm的筒夹,测出的综合径跳为最高点不超过0.005mm(\leq 0.005mm的筒夹与刀柄任意装夹互换综合径跳最高点不超过0.005mm);
- ◆ 动平衡: 根据需要可做G2.5 20000~50000rpm。

Comprehensive inspection way of chuck

- ◆ 7:24 taper precision \leq AT3 and part of the standard size are tested by Diebold standard inspection tools which made in Germany;
- ◆ Surface of the clamping inner hole is grinding by high speed Inner-aperture grinder, and inspect by standard pneumatic measurement instrument; the big end contact area rate is above 90%;
- ◆ Shank thread is inspected with 4h level thread ring gauge, and the nut is inspected with 4H level thread plug gauge, the quality guaranteed;
- ◆ Run out of the inside shank cone: \leq 0.002 (The length of the shank 100L) ;
- ◆ Coaxiality 5u: Shank run out \leq 0.002; Equip collet \leq 0.005,The highest comprehensive run out point is no more than0.005(\leq 0.005mm collet clamping interchangeable with anyintegrated shank run out does not exceed the highest ccuracy 0.005 mm);
- ◆ Dynamic balance: We can do G2.5 20000~50000rpm according to clients' demands.

》》》 刀/柄/综/合/检/测 Comprehensive inspection way of chuck



同轴度 (综合精度) 检测
Inspection of coaxial degree
(overall accuracy)



7: 24锥检具图(德国**Diebold**刀柄检具)
Picture of 7:24 taper inspection tool
(German **Diebold** collet chuck inspection tool)

锥柄形式 Taper	筒夹 / collet	工作长度 L					
		L \leq 100			100 < L \leq 150		
BT/SK/ CAT	5 μ	刀柄内锥 / collet chuck inner cone	综合 / Comprehensive	等级 Class	刀柄内锥 / collet chuck inner cone	综合 / Comprehensive	等级 Class
30	ER16/20/ 25/32/40	3 μ	\leq 8 μ	A	3 μ	\leq 8 μ	A
		2 μ	\leq 8 μ	A	2 μ	\leq 8 μ	A
40	ER16/20/ 25/32/40	3 μ	\leq 8 μ	A	3 μ	\leq 8 μ	A
		2 μ	\leq 8 μ	A	2 μ	\leq 8 μ	A
50	ER16/20/ 25/32/40	3 μ	\leq 8 μ	A	4 μ	\leq 10 μ	A
		2 μ	\leq 8 μ	A	3 μ	\leq 10 μ	A
30	ER11	4 μ	\leq 10 μ	A	-	-	-
		2 μ ~3 μ	\leq 10 μ	A	-	-	-
40	ER11	4 μ	\leq 10 μ	A	-	-	-
		2 μ ~3 μ	\leq 10 μ	A	-	-	-
30	ER11	4 μ	\leq 10 μ	A	-	-	-
		2 μ ~3 μ	\leq 8 μ	AA	-	-	-

注: 其它刀柄锥度形式等级一般可按30刀柄的精度等级执行, 特殊要求可订制。
Note: Special requirements can be custom-made.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES



ER高速刀柄外观：涂层或抛光涂层

- ◆表面粗糙度得到降低，精度稳定性提高
刀柄表面凹凸不平的纹理，经过抛光后，表面粗糙度得以整平，获得平滑光亮的表面。同时填充表面毛孔、划痕以及其它表面缺陷，从而提高疲劳强度、增加耐腐蚀力。
- ◆抛光涂层刀柄不影响精度
抛光刀柄表面进行镀镍-磷表面处理，镍层厚度均匀，化学镀液的分散程度几乎100%，镀层薄，单边在3u~5u，这种特殊覆膜可防止主轴异常磨损，不影响产品精度。
- ◆防腐性、耐磨性、耐腐蚀性得到提高
化学镀镍的结合力强，硬度得到提高，在酸、碱、氨、盐等不同的介质环境中具有很好的防锈效果。
- ◆外观光亮、圆滑，手感好，外观更漂亮

ER high speed collet chuck surface: Nickel coating or polish nickel coating

- ◆Surface roughness is reduced, precision stability improved
The collet chuck surface uneven texture, after polishing, the surface roughness can be leveling, smooth and shining surface. At the same time filling surface pores, scratches and other surface defects, thus improve the fatigue strength, corrosion resistance increase.
- ◆Don't influence precision
Chuck surface is nickel coated, the nickel layer is evenly, Chemical plating solution dispersion degree of almost 100%, nickel layer is thin, thickness is about 3u-5u, this special coating can reduce Spindle abnormal wear and tear, Don't influence precision.
- ◆Anti-rust, anti-corrosion, durability better.
Nickel coating adhesion strong, enhance hardness, and anti-rust better in different surroundings, such as acid, alkali, ammonia, salt etc.
- ◆Improve cleanness, precision more stable, surface more smooth, feel more comfortable and appearance nicer

》》》 特殊/防锈/处理 Special anti-rust treatment

- ◆包括内外锥在内，整体进行了抛光涂层处理，不进行防锈保养也不会生锈，对加工精度及主轴无不利影响。
- ◆Overall nickel coating, including inside and outside cone, even if you do not take any anti-rust actions, it will not rust either, don't influence processing precision and spindle.



抛光涂层处理

Products polish with chemical nickel coating

》》》 其它/公司/常/规/产/品 Other companys products

- ◆普通产品疏于防锈维护，几天便会生锈，导致加工精度降低、对刀柄、主轴造成不利影响。
- ◆若锥部生锈，则刀尖跳动精度扩大到0.01-0.02。
- ◆The products without coating is easy to rust, reduce processing precision, influence the chuck and spindle.
- ◆If the shank rust, insert run-out will enlarge to 0.01-0.02.



未特殊防锈处理

Products without specified anti-rust treatment

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

ER高速刀柄外观综合特点:

- ◆ 材质20CrMnTi或SCM415;
- ◆ 硬度 $58 \pm 2\text{HRC}$;
- ◆ 渗碳深 > 0.8 ;
- ◆ 表面粗糙度: $Ra < 0.4\mu$;

Comprehensive inspection way of chuck

- ◆ Material: 20CrMnTi or SCM415;
- ◆ Hardness: $58 \pm 2\text{HRC}$;
- ◆ Carbon depth > 0.8 ;
- ◆ Roughness: $Ra < 0.4\mu$;



54-57HRC

54-57HRC

7:24锥度公差 $\leq \text{AT3}$

7:24 taper tolerance $\leq \text{AT3}$

间隙变小, 防止粉尘、铁屑和其它杂物入侵夹头又保护了螺纹。

Minimize the gap of the protection band, prevent dust, chips and others get into the collet, and protect the thread as well.

螺帽预设动平衡
G2.5-Max.50000rpm

Smooth appearance improve dynamic balance performance G2.5-Max.50000rpm.

》》》 精湛的加工/工艺 Superb machining technology

*深冷处理

- 1、 -196°C 超长深冷处理, 使接近全部的残余奥氏体转变为马氏体;
- 2、析出的纳米级碳化物颗粒, 增加硬度和韧性;
- 3、减少残余应力;
- 4、耐磨性显著提高。

*Cryogenic treatment

1. -196°C long cryogenic, nearly all of the residual austenite into martensite;
2. Carbide precipitation of Nanoscale particles, increasing the hardness and toughness;
3. Reducing residual stresses;
4. Wear resistance significantly improved.

*时效处理

*超长定型热时效去除磨加工时的残余内应力。

* Thermal aging processing

long stereotyped thermal limitation removal of grinding residual stress.



深冷处理 (Cryogenic treatment)



时效处理 (Thermal aging processing)

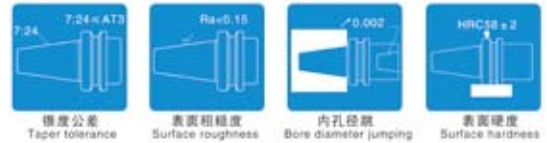
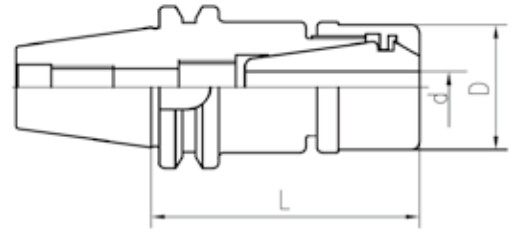
高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-01 ST-GER高速刀柄 ST-GER HIGH SPEED COLLET CHUCK

精度5 μ / 8 μ
Integrated precision
5 μ / 8 μ



◎精做动平衡G2.5: 30000rpm
◎ Precision dynamic balancing: G2.5: 30000rpm



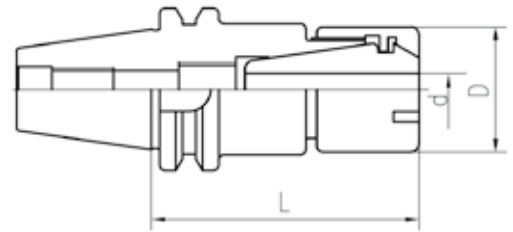
型号 Model No.	d	D	L	Nut	Collet	Spanner
S15T-GER16-50	1-10	30	50	GER16	ER16	GER16
S20T-GER16-45	1-10	30	45	GER16	ER16	GER16
S20T-GER16-60	1-10	30	60	GER16	ER16	GER16
S25T-GER16-45	1-10	30	45	GER16	ER16	GER16
S25T-GER16-60	1-10	30	60	GER16	ER16	GER16
S25T-GER20-45	1-13	35	45	GER20	ER20	GER20
S25T-GER20-60	1-13	35	60	GER20	ER20	GER20

CD0102-02 ST-ER高速刀柄 ST-ER HIGH SPEED COLLET CHUCK

精度5 μ / 8 μ
Integrated precision
5 μ / 8 μ



◎精做动平衡G2.5: 20000rpm/25000rpm
◎ Precision dynamic balancing: G2.5: 20000rpm/25000rpm

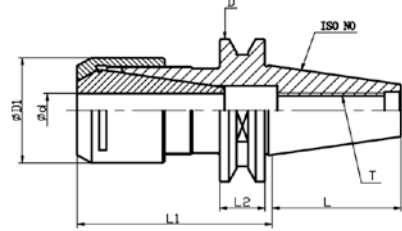


型号 Model No.	d	D	L	Nut	Collet	Spanner
S15T-ER11A-50	1-7	19	50	ER11A	ER11	ER11A
S15T-ER11M-35	1-7	16	35	ER11M	ER11	ER11M
S15T-ER11M-50	1-7	19	50	ER11M	ER11	ER11M
S20T-ER16M-35	1-10	22	35	ER16M	ER16	ER16M
S20T-ER16M-50	1-10	22	50	ER16M	ER16	ER16M
S25T-ER16M-35	1-10	22	35	ER16M	ER16	ER16M
S25T-ER16M-60	1-10	22	60	ER16M	ER16	ER16M
S25T-ER20M-35	1-13	28	35	ER20M	ER20	ER20M
S25T-ER20M-60	1-13	28	60	ER20M	ER20	ER20M

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-03 ISO20/25/30 无键槽高速刀柄 HIGH SPEED COLLET CHUCK WITHOUT KEYWAY

精度5 μ / 8 μ
Integrated precision
5 μ / 8 μ



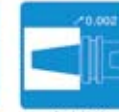
- ◎ 精做动平衡 G2.5: 30000rpm~50000rpm
- ◎ 适用于木工及雕刻机械
- ◎ Precision dynamic balancing G2.5: 30000rpm~50000rpm
- ◎ Suit to wooden and carving machine



Taper tolerance



Surface roughness



Bore diameter jumping



Surface hardness

型号 Model No.	D	夹持范围d Range	D1(NUT)		L	L1	L2	T	collet
			M Type	MSType					
ISO20-ER16MS-35	33	1-10	22	22	33.3	35	8	M8	ER16
ISO20-ER20MS-35	33	1-13	28	28	33.3				ER20
ISO25-ER16MS-35	37	1-10	22	22	39.7				ER16
ISO25-ER20MS-35	37	1-13	28	28	39.7				ER20
ISO25-ER25-45	37	1-16	35	35	39.7	60	15.9	M12	ER25
ISO30-ER16-60	50	1-10	22	22	47.8				ER16
ISO30-ER20-60	50	1-13	28	28	47.8				ER20
ISO30-ER25-60	50	1-16	35	35	47.8				ER25
ISO30-ER32-60	50	1-20	50(ER32UM)		47.8	60	15.9	M12	ER32
ISO30-ER40-60	50	3-26	63(ER40UM)		47.8				ER40

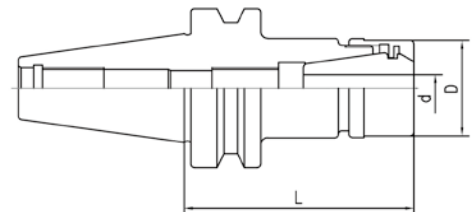
CD0102-04 ISO刀柄专用扳手 ISO SPANNER

型式 Type	型号 Model No.	l	L	适配刀柄 chuck
ISO	ISO20-P	24	140	ISO20
	ISO25-P	27	145	ISO25
	ISO30-P	31	210	ISO30



CD0102-05 BT30 无键槽高速刀柄 HIGH SPEED COLLET CHUCK WITHOUT KEYWAY

精度5 μ / 8 μ
Integrated precision
5 μ / 8 μ



- ◎ 精做动平衡G2.5 30000rpm~50000rpm
- ◎ 适用于木工及雕刻机械
- ◎ Precision dynamic balancing G2.5 30000rpm~50000rpm
- ◎ Suit to wooden and carving machine



Taper tolerance



Surface roughness



Bore diameter jumping

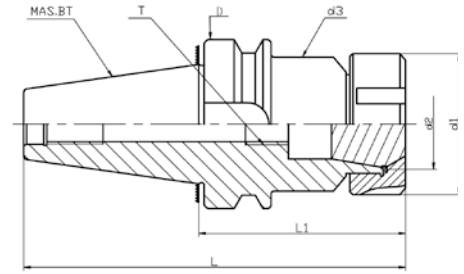


Surface hardness

型号 Model No.	夹持能力Capacity	D	L	nut	collet
BT30-GER16-45/60	1-10	30	45/60	GER16	ER16
BT30-ER16M-45/60	1-10	22	45/60	ER16M	ER16
BT30-ER16-60	1-10	28	60	ER16A	ER16
BT30-ER20-60	1-13	34	60	ER20A	ER20
BT30-GER20-45/60	1-13	30	45/60	GER20	ER20
BT30-ER20M-45/60	1-13	30	45/60	ER20M	ER20
BT30-GER25-45/60	1-16	35	45/60	GER25	ER25
BT30-GER32-60	1-20	50	60	GER32	ER32
BT30-ER25M-45/60	1-16	35	45/60	ER25M	ER25
BT30-ER25-60	1-16	42	60	ER25UM	ER25
BT30-ER32-60	1-20	50	60	ER32UM	ER32

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-06 BT/ER筒夹刀柄 BT/ER COLLET CHUCK



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping



表面硬度
Surface hardness

◆精做动平衡 Precision dynamic balancing
G6.3: 12000rpm/15000rpm/18000rpm
G2.5: 15000rpm/20000rpm/25000rpm

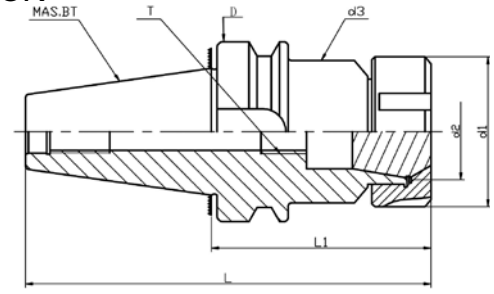
型号 Model No.	L	L1	D	d1	d2	d3	T	KGS
BT30-ER11-60	108.4	60	46	19	11	19	M6X1P	0.45
BT30-ER11-70	118.4	70						0.5
BT30-ER11-100	148.4	100						0.6
BT30-ER16-60	148.4	60		28	16	28	M11X1P	0.5
BT30-ER16-70	118.4	70						0.55
BT30-ER16-100	148.4	100						0.8
BT30-ER16-120	168.4	120						0.95
BT30-ER20-60	108.4	60		34	20	34	M14X1P	0.7
BT30-ER20-70	118.4	70						0.75
BT30-ER20-100	148.4	100						0.90
BT30-ER25-60	108.4	60		42	25	42	M18X1P	0.65
BT30-ER25-70	118.4	70						0.7
BT30-ER25-100	148.4	100						1.45
BT30-ER32-60	108.4	60						50
BT30-ER32-70	118.4	70		0.85				
BT30-ER32-100	148.4	100		1				
BT30-ER40-80	128.4	80	63	40	63	M28X1.5P	1.1	
BT30-ER40-100	148.4	100					1.3	
BT40-ER11-60	125.4	60	63	19	11	M6 × 1P	1.2	
BT40-ER11-70	118.4	70					1.25	
BT40-ER11-100	165.4	100					1.3	
BT40-ER16-70	135.4	70		28	16	28	M11X1P	1.36
BT40-ER16-100	165.4	100						1.54
BT40-ER16-125	190.4	125						1.6
BT40-ER16-150	215.4	150						1.86
BT40-ER20-70	135.4	70		34	20	34	M14X1P	1.7
BT40-ER20-100	165.4	100						1.8
BT40-ER20-150	215.4	150						2.1
BT40-ER25-70	135.4	70		42	25	42	M18X1P	1.9
BT40-ER25-100	165.4	100						2.25
BT40-ER25-150	215.4	150						2.75
BT40-ER32-70	135.4	70						50
BT40-ER32-100	165.4	100		2.8				
BT40-ER32-125	190.4	125		3.0				
BT40-ER32-150	215.4	150	63	40	63	M28X1.5P	3.05	
BT40-ER40-70	135.4	70					2.3	
BT40-ER40-80	145.4	80					2.5	
BT40-ER40-100	165.4	100					3.1	
BT40-ER40-120	185.4	120	78	50	59	M28X1.5P	3.7	
BT40-ER40-150	215.4	150					4.1	
BT40-ER50-85	150.4	85					3.1	
BT40-ER50-100	165.4	100					3.2	

注：客户在订购刀柄时需注明刀柄本体的冷却形式：A型、AD型、AD+B型。例如BT40 (AD+B)-ER16-70。

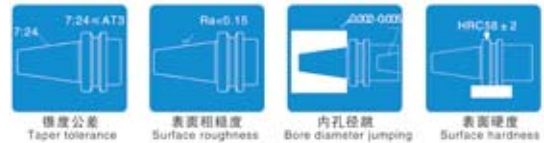
Note: when ordering please indicate in the form of cooling the handle of the ontology: A, AD, AD+B. For example BT40 (AD+B)-ER16-70.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-07 BT/ER筒夹刀柄 BT/ER COLLET CHUCK



◆精做动平衡 Precision dynamic balancing
 G6.3: 12000rpm/15000rpm/18000rpm
 G2.5: 15000rpm/20000rpm



型号 Model No.	L	L1	D	d1	d2	d3	T	KGS
BT50-ER16-70	171.8	70	100	28	16	28	M11X1P	4.05
BT50-ER16-100	201.8	100						4.2
BT50-ER16-135	236.8	135						4.4
BT50-ER16-150	251.8	150						4.45
BT50-ER16-165	266.8	165						4.5
BT50-ER16-200	301.8	200						4.8
BT50-ER20-70	171.8	70		34	20	34	M14X1P	4.2
BT50-ER20-100	191.8	90						4.25
BT50-ER20-135	236.8	135						4.55
BT50-ER20-150	251.8	150						4.7
BT50-ER20-165	266.8	165						4.8
BT50-ER20-200	301.8	200						4.9
BT50-ER20-250	351.8	250		5.2				
BT50-ER25-70	171.8	70		42	25	42	M18X1P	4.2
BT50-ER25-100	206.8	105						4.4
BT50-ER25-135	236.8	135						4.7
BT50-ER25-150	251.8	150						4.8
BT50-ER25-165	266.8	165						5
BT50-ER25-200	301.8	200						5.2
BT50-ER25-250	351.8	250		5.5				
BT50-ER32-70	171.8	70		50	32	50	M22X1.5P	4.6
BT50-ER32-100	201.8	100						4.8
BT50-ER32-135	236.8	135						5
BT50-ER32-150	251.8	150						5.3
BT50-ER32-165	266.8	165	5.4					
BT50-ER32-200	301.8	200	5.5					
BT50-ER32-250	351.8	250	5.8					
BT50-ER40-80	181.8	80	63	40	63	M28X1.5P	4.3	
BT50-ER40-100	201.8	100					4.4	
BT50-ER40-120	221.8	120					5.2	
BT50-ER40-135	236.8	135					5.5	
BT50-ER40-150	251.8	150					5.8	
BT50-ER40-200	301.8	200					6.7	
BT50-ER40-250	351.8	250	7.5					
BT50-ER40-300	401.8	300	8.4					
BT50-ER50-90	191.8	90	78	50	78	M28X1.5P	4.6	
BT50-ER50-120	221.8	120					5.5	
BT50-ER50-165	266.8	165					6.1	

注：客户在订购刀柄时需注明刀柄本体的冷却形式：A型、AD型、AD+B型。例如BT50 (AD+B)-ER16-70。

Note: when ordering please indicate in the form of cooling the handle of the ontology: A, AD, AD+B. For example BT50 (AD+B)-ER16-70.

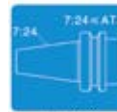
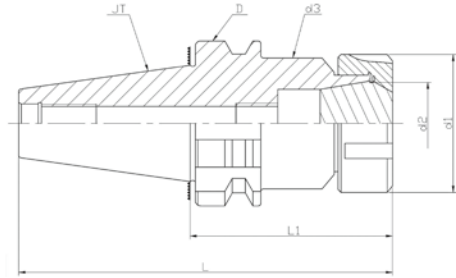
高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-08 SK(DIN 69871、JT、DAT或DV) ER 筒夹刀柄 ER COLLET CHUCK



国际: International ISO 7388/1-A JT
中国: China GB 10944
德国: Germany DIN69871 SK

◆精做动平衡 Precision dynamic balancing
G6.3: 12000rpm/15000rpm/18000rpm
G2.5: 15000rpm/20000rpm



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping



表面硬度
Surface hardness

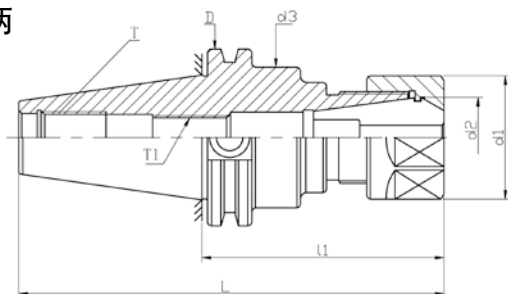
型号 Model No.	L	L1	D	d1	d2	d3	T	KGS			
SK30-ER11-100	148.4	100	50	19	11	25	M6 × 1P	0.6			
SK30-ER16-100	148.4	100		28	16	28	M11X1P	0.7			
SK30-ER20-100	148.4	100		34	20	34	M14X1P	0.75			
SK30-ER25-100	148.4	100		42	25	42	M18X1P	0.8			
SK30-ER32-100	148.4	100		50	32	50	M22X1.5P	0.9			
SK40-ER11-100	148.4	100	63.55	19	11	25	M6 × 1P	1.05			
SK40-ER11-125	193.4	125						1.15			
SK40-ER16-70	138.4	70						1.3			
SK40-ER16-100	168.4	100		28	16	28	M11X1P	1.4			
SK40-ER16-125	193.4	125						1.6			
SK40-ER16-150	218.4	150						1.65			
SK40-ER20-70	138.4	70						1.4			
SK40-ER20-100	168.4	100		34	20	34	M14X1P	1.5			
SK40-ER20-135	203.4	135						1.95			
SK40-ER20-160	228.4	160						2.2			
SK40-ER25-70	138.4	70						1.6			
SK40-ER25-100	168.4	100		42	25	42	M18X1P	1.85			
SK40-ER25-150	218.4	150						2.25			
SK40-ER32-70	138.4	70						1.6			
SK40-ER32-100	168.4	100		50	32	50	M22X1.5P	2			
SK40-ER32-135	203.4	135					2.15				
SK40-ER32-150	218.4	150					2.65				
SK40-ER40-70	138.4	70	97.5				1.5				
SK40-ER40-100	168.4	100		63	40	53	M28X1.5P	2	3.3		
SK40-ER40-135	203.4	135						1.7			
SK40-ER50-100	168.4	100		78	50	65		1.7			
SK50-ER16-100	201.4	100		97.5	28	16	28	M11X1P	3.2		
SK50-ER16-135	236.75	135							4.3		
SK50-ER16-160	261.75	160							4.5		
SK50-ER20-100	201.75	100			34	20	34	M14X1P	3.4	3.6	
SK50-ER20-135	236.75	135							3.8		
SK50-ER20-160	261.75	160							3.4		
SK50-ER25-70	171.75	70							4.15		
SK50-ER25-100	201.75	100			42	25	42	M18X1P	4.15	4.5	
SK50-ER25-150	251.75	150							4.5		
SK50-ER32-80	181.72	80			97.5	50	32	50	M22X1.5P	3.6	4.6
SK50-ER32-120	221.75	120								4.75	
SK50-ER32-160	261.75	160							4.75		
SK50-ER40-80	181.75	80	63			40	53	M28X1.5P	3.65	4.8	
SK50-ER40-120	221.75	120							5.2		
SK50-ER40-160	261.75	160	97.5					4.85			
SK50-ER50-80	181.75	80		78	50	65	M28X1.5P	4.85	5.45		
SK50-ER50-120	221.75	120						5.45	5.55		
SK50-ER50-160	261.75	160									

注: 客户在订购刀柄时需注明刀柄本体的冷却形式: A型、AD型、AD+B型。例如SK40 (AD+B)-ER16-70。

Note: when ordering please indicate in the form of cooling the handle of the ontology: A, AD, AD+B. For example SK40 (AD+B)-ER16-70.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-09 CAT(ANSI B5.50、CT) ER筒夹刀柄 CAT(ANSI B5.50、CT) ER COLLET CHUCK



◆精做动平衡 Precision dynamic balancing
 G6.3: 12000rpm/18000rpm
 G2.5: 15000rpm/20000rpm/25000rpm



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping



表面硬度
Surface hardness

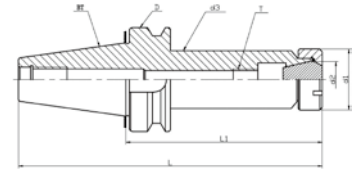
型号 Model No.	L	L1	D	d1	d2	d3	T	T1	KGS
CAT40-ER16-2.76"	5.447"	2.76"	2.5"	1.102"	0.63"	1.75"	5/8"-11UNC	M11X1P	1.05
CAT40-ER16-4"	6.687"	4"							1.35
CAT40-ER16-6"	8.687"	6"							1.65
CAT40-ER16-8"	10.687"	8"							1.85
CAT40-ER20-2.76"	5.447"	2.76"		1.339"	0.788"			M14X1P	1.25
CAT40-ER20-4"	6.687"	4"							1.65
CAT40-ER25-2.76"	5.447"	2.76"		1.654"	0.984"			M18X1P	1.35
CAT40-ER25-4"	6.687"	4"							1.70
CAT40-ER25-6"	8.687"	6"							2.25
CAT40-ER25-8"	10.687"	8"							2.55
CAT40-ER32-2.76"	5.447"	2.76"		1.969"	1.26"			M22X1.5P	1.25
CAT40-ER32-4"	6.687"	4"							1.75
CAT40-ER32-6"	8.687"	6"							2.15
CAT40-ER32-8"	10.687"	8"							2.65
CAT40-ER40-3.15"	5.837"	3.15"		2.48"	1.575"			M28X1.5P	1.80
CAT40-ER40-4"	6.687"	4"							2.05
CAT40-ER40-6"	8.687"	6"	3.30						
CAT40-ER50-4"	6.687"	4"	3.07"			1.969"	M28 x 1.5P		2.65
CAT50-ER16-4"	8"	4"	3.875"	1.102"	0.63"	2.75"	1/8"-UNC	M11X1P	4.10
CAT50-ER16-6"	10"	6"						4.28	
CAT50-ER16-8"	12"	8"						4.40	
CAT50-ER20-4"	8"	4"						4.20	
CAT50-ER20-6"	10"	6"		1.339"	0.788"			M14X1P	4.45
CAT50-ER20-8"	12"	8"							4.60
CAT50-ER25-4"	8"	4"		1.654"	0.984"			M18X1P	4.15
CAT50-ER25-6"	10"	6"							4.50
CAT50-ER25-8"	12"	8"							4.70
CAT50-ER32-4"	8"	4"							1.969"
CAT50-ER32-6"	10"	6"		4.60					
CAT50-ER32-8"	12"	8"		4.90					
CAT50-ER40-4"	8"	4"		2.48"	1.575"			M28X1.5P	4.25
CAT50-ER40-6"	10"	6"							4.80
CAT50-ER40-8"	12"	8"							5.10
CAT50-ER50-4"	8"	4"							3.07"
CAT50-ER50-6"	10"	6"	5.55						
CAT50-ER50-8"	12"	8"	5.70						

注：客户在订购CAT锥柄时，后拉螺纹可另行选购。如公制或其它形式螺纹。

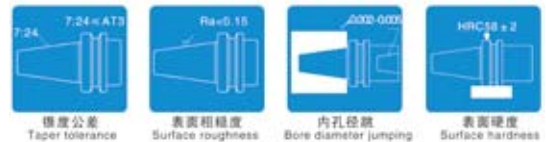
Note: When customers order CAT taper shank, can choose metric or other form of threads.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-10 BT/CAT ER M型筒夹刀柄 BT/CAT ER COLLET CHUCK M TYPE



◆精做动平衡 Precision dynamic balancing
G6.3: 12000rpm/18000rpm
G2.5: 15000rpm/20000rpm/25000rpm



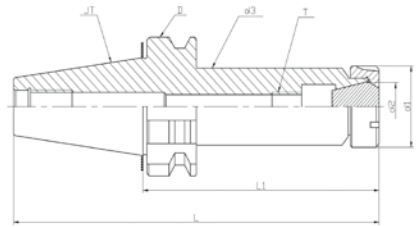
型号 Model No.	L	L1	D	d1	d2	d3	T	KGS				
BT30-ER11M-70	118.4	70	46	16	11	15	M6X1P	0.50				
BT30-ER11M-100	148.4	100						0.60				
BT30-ER11M-120	168.4	120						0.70				
BT30-ER16M-70	118.4	70						0.55				
BT30-ER16M-100	148.4	100		22	16	21	M11X1P	0.65				
BT30-ER16M-120	168.4	120						0.75				
BT30-ER20M-100	148.4	100						28	20	27	M14X1P	0.70
BT30-ER20M-120	168.4	120										0.80
BT30-ER20M-150	198.4	150	63	16	11	15	M6X1P	1.00				
BT40-ER11M-70	135.4	70						1.10				
BT40-ER11M-100	165.4	100						1.20				
BT40-ER11M-125	190.4	125						1.40				
BT40-ER11M-150	215.4	150		1.50								
BT40-ER16M-70	135.4	70		22	16	21	M11X1P	1.20				
BT40-ER16M-100	165.4	100						1.30				
BT40-ER16M-125	190.4	125						1.50				
BT40-ER16M-150	215.4	150						1.60				
BT40-ER20M-70	135.4	70		28	20	27	M14X1P	1.20				
BT40-ER20M-100	165.4	100						1.55				
BT40-ER20M-125	190.4	125						1.70				
BT40-ER20M-150	215.4	150						1.80				
BT50-ER11M-70	171.8	70		100	16	11	15	M6X1P	3.80			
BT50-ER11M-90	191.8	90							3.90			
BT50-ER11M-105	206.8	105							4.00			
BT50-ER11M-135	236.8	135	4.10									
BT50-ER11M-165	266.8	165	4.20									
BT50-ER16M-70	171.8	70	22		16	21	M11X1P	3.90				
BT50-ER16M-90	191.8	90						4.00				
BT50-ER16M-105	206.8	105						4.10				
BT50-ER16M-135	236.8	135						4.20				
BT50-ER16M-165	266.8	165	4.30									
BT50-ER20M-90	191.8	90	28		20	27	M14X1P	4.10				
BT50-ER20M-105	206.8	105						4.20				
BT50-ER20M-135	236.8	135						4.40				
BT50-ER20M-165	266.8	165						4.60				
CAT40-ER11M-2.75"	5.447"	2.75"	2.5"		0.63"	0.433"	0.59"	M6X1P	1.1			
CAT40-ER11M-4"	6.687"	4"							1.2			
CAT40-ER16M-2.76"	5.447"	2.76"		0.87"					0.63"	0.83"	M11X1P	1.2
CAT40-ER16M-4"	6.687"	4"										1.3
CAT40-ER16M-6"	8.687"	6"			1.4							
CAT40-ER16M-8"	10.687"	8"			1.5							
CAT40-ER20M-2.76"	5.447"	2.76"		1.102"	0.79"	1.06"	M14X1P	1.2				
CAT40-ER20M-4"	6.687"	4"						1.56				
CAT40-ER20M-6"	8.687"	6"						1.6				
CAT40-ER20M-8"	10.87"	8"						1.7				
CAT50-ER16M-4"	8"	4"		3.875"	0.87"	0.63"	0.83"	M11X1P	3.9			
CAT50-ER16M-6"	10"	6"							4.0			
CAT50-ER16M-8"	12"	8"							4.3			
CAT50-ER20M-4"	8"	4"							1.102"	0.79"	1.06"	M14X1P
CAT50-ER20M-6"	10"	6"			5.2							
CAT50-ER20M-8"	12"	8"			5.6							

注：客户在订购刀柄时需注明刀柄本体的冷却形式：A型、AD型、AD+B型。例如BT40 (AD+B)-ER16M-70。

Note: when ordering please indicate in the form of cooling the handle of the ontology: A, AD, AD+B. For example BT40 (AD+B)-ER16M-70.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-11 SK(DIN 69871、JT、DAT或DV) ER M型筒夹刀柄 ER COLLET CHUCK M TYPE



◆精做动平衡 Precision dynamic balancing
 G6.3: 12000rpm/15000rpm/18000rpm
 G2.5: 15000rpm/20000rpm



Taper tolerance



Surface roughness



Bore diameter jumping



Surface hardness

型号 Model No.	L	L1	D	d1	d2	d3	T	KGS	
SK30-ER11M-70	117.8	70	50	16	11	15	M6 x 1P	0.5	
SK30-ER11M-100	147.8	100	50	16	11	15		0.6	
SK30-ER11M-120	167.8	120	50	16	11	15		0.7	
SK30-ER16M-70	117.8	70	50	22	16	21	M11X1P	0.55	
SK30-ER16M-100	147.8	100	50	22	16	21		0.65	
SK30-ER16M-120	167.8	120	50	22	16	21		0.75	
SK30-ER20M-100	147.8	100	50	28	20	27	M11X1P	0.7	
SK30-ER20M-120	167.8	120	50	28	20	27		0.8	
SK30-ER20M-150	197.8	150	50	28	20	27		1	
SK40-ER11M-70	138.4	70	63.55	16	11	15	M6 x 1P	1.1	
SK40-ER11M-100	168.4	100	63.55	16	11	15		1.2	
SK40-ER11M-125	193.4	125	63.55	16	11	15		1.1	
SK40-ER11M-150	218.4	150	63.55	16	11	15	M11X1P	1.5	
SK40-ER16M-70	138.4	70	63.55	22	16	21		1.2	
SK40-ER16M-100	168.4	100	63.55	22	16	21		1.3	
SK40-ER16M-125	193.4	125	63.55	22	16	21	M11X1P	1.5	
SK40-ER16M-150	218.4	150	63.55	22	16	21		1.6	
SK40-ER20M-70	138.4	70	63.55	28	20	27		M14X1P	1.2
SK40-ER20M-100	168.4	100	63.55	28	20	27	1.55		
SK40-ER20M-125	193.4	125	63.55	28	20	27	1.7		
SK40-ER20M-150	218.4	150	63.55	28	20	27	M14X1P	1.8	
SK50-ER11M-70	171.75	70	97.5	16	11	15		M6 x 1P	3.8
SK50-ER11M-90	191.75	90	97.5	16	11	15			3.9
SK50-ER11M-105	206.75	105	97.5	16	11	15	4		
SK50-ER11M-135	236.75	135	97.5	16	11	15	4.1		
SK50-ER11M-165	266.75	165	97.5	16	11	15	4.2		
SK50-ER16M-70	171.75	70	97.5	22	16	21	M11X1P	3.9	
SK50-ER16M-90	191.75	90	97.5	22	16	21		4	
SK50-ER16M-105	206.75	105	97.5	22	16	21		4.1	
SK50-ER16M-135	276.75	135	97.5	22	16	21		4.2	
SK50-ER16M-165	266.75	165	97.5	22	16	21		4.3	
SK50-ER20M-90	191.75	90	97.5	28	20	27	M14X1P	4.1	
SK50-ER20M-105	206.75	105	97.5	28	20	27		4.2	
SK50-ER20M-135	236.75	135	97.5	28	20	27		4.4	
SK50-ER20M-165	266.7	165	97.5	28	20	27		4.6	

注：客户在订购刀柄时需注明刀柄本体的冷却形式：A型、AD型、AD+B型。例如SK40 (AD+B)-ER16M-70。

Note: when ordering please indicate in the form of cooling the handle of the ontology: A, AD, AD+B. For example SK40 (AD+B)-ER16M-70.

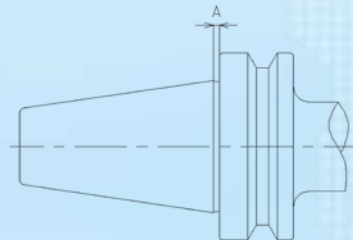
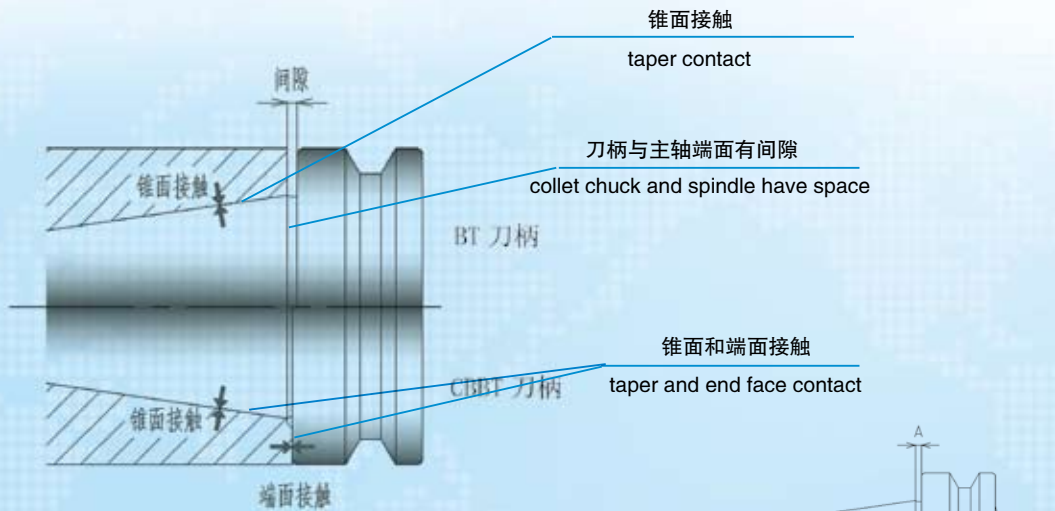
高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

高速、高精度、高刚性**CBBT**双面锁紧刀柄

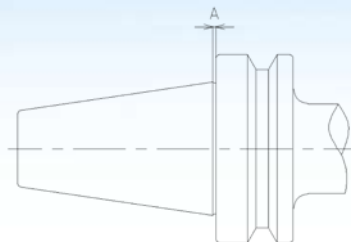
High speed high accuracy high rigidity CBBT double lock collet chuck

CBBT双面锁紧刀柄特点：

- ◎ 刚性好
- ◎ 零件加工面、加工尺寸精度稳定
- ◎ 刀具使用寿命提高
- ◎ 重切削时因震动对锥柄部产生的磨损减小
- ◎ ATC重复操作精度良
- ◎ 高速旋转时Z轴方向定位稳定
- ◎ Good rigidity
- ◎ Parts processing and surface processing dimensional accuracy stability
- ◎ cutting tool life improve
- ◎ When heavy cutting due to vibration of the taper shank generated little wear
- ◎ ATC repeat the operation with high accuracy
- ◎ When the high-speed rotation Z-axis orientation stable



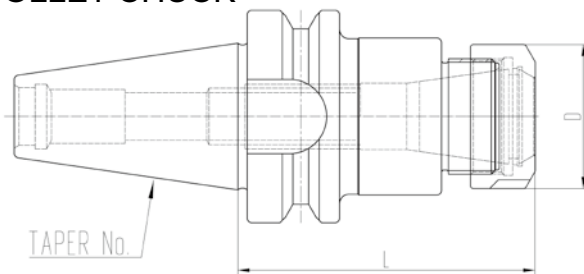
刀柄Type	A
BT30	2mm
BT40	2mm
BT50	3mm



刀柄Type	A
CBBT30	1mm
CBBT40	1mm
CBBT50	1.5mm

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-12 CBBT-ER刀柄 CBBT-ER COLLET CHUCK



CBBT刀柄(BT双面定位) CBBT collet chuck(BT double lock)

型号 Model No.	夹持范围Range	D	L	螺帽NUT/筒夹COLLET	重量 (kg)
CBBT30-ER11-70	1-7	19	70	ER11	0.5
CBBT30-ER11-100	1-7	19	100	ER11	0.5
CBBT30-ER16-70	1-10	28	70	ER16	1.0
CBBT30-ER16-100	1-10	28	100	ER16	1.1
CBBT30-ER20-80	1-13	34	80	ER20	1.2
CBBT30-ER20-100	1-13	34	100	ER20	1.3
CBBT30-ER25-70	1-16	42	70	ER25	1.2
CBBT30-ER25-100	1-16	42	100	ER25	1.3
CBBT30-ER32-60	1-20	50	60	ER32	1.4
CBBT30-ER32-90	1-20	50	90	ER32	1.9
CBBT40-ER11-75	1-7	19	75	ER11	1.0
CBBT40-ER11-100	1-7	19	100	ER11	1.1
CBBT40-ER16-75	1-10	28	75	ER16	1.1
CBBT40-ER16-100	1-10	28	100	ER16	1.2
CBBT40-ER16-120	1-10	28	120	ER16	1.4
CBBT40-ER20-75	1-13	34	75	ER20	1.4
CBBT40-ER20-100	1-13	34	100	ER20	1.8
CBBT40-ER20-135	1-13	34	135	ER20	2.2
CBBT40-ER25-75	1-16	42	75	ER25	1.4
CBBT40-ER25-100	1-16	42	100	ER25	1.8
CBBT40-ER25-135	1-16	42	135	ER25	2.2
CBBT40-ER25-150	1-16	42	150	ER25	2.4
CBBT40-ER32-60	1-20	50	60	ER32	1.8
CBBT40-ER32-100	1-20	50	100	ER32	2.2
CBBT40-ER32-120	1-20	50	120	ER32	2.4
CBBT40-ER32-150	1-20	50	150	ER32	2.6
CBBT40-ER40-80	3-26	63	80	ER40	1.5
CBBT50-ER16-100	1-10	28	100	ER16	4.2
CBBT50-ER16-120	1-10	28	120	ER16	4.4
CBBT50-ER16-165	1-10	28	165	ER16	4.6
CBBT50-ER20-100	1-13	34	100	ER20	4.6
CBBT50-ER20-135	1-13	34	135	ER20	4.8
CBBT50-ER20-165	1-13	34	165	ER20	5.0
CBBT50-ER25-100	1-16	42	100	ER25	4.7
CBBT50-ER25-135	1-16	42	135	ER25	4.8
CBBT50-ER25-165	1-16	42	165	ER25	5.0
CBBT50-ER32-100	1-20	50	100	ER32	5.2
CBBT50-ER32-135	1-20	50	135	ER32	5.7
CBBT50-ER32-165	1-20	50	165	ER32	5.8
CBBT50-ER40-100	3-26	63	100	ER40	5.6
CBBT50-ER40-150	3-26	63	150	ER40	6.1
CBBT50-ER50-100	6-34	78	100	ER50	5.8
CBBT50-ER50-150	6-34	78	150	ER50	6.3

ISO26623-CAPTO数控刀柄

ISO26623-CAPTO CNC COLLET CHUCK

优点:

- ◎通过广泛的模块化增加灵活性
- ◎极高的稳定性和连接精度
- ◎将刀具库存降至最低
- ◎缩短了装夹时间

特点:

- ◎极高的扭矩传递能力
- ◎很高的弯曲强度
- ◎快速换刀和自动换刀
- ◎先进的喷嘴技术即使在压力较低时也能确

保加工安全性:

- ◎内冷却液通道保证高压冷却液从机床直接传送到切削刃
- ◎很好的平衡性和同轴度

Advantages

- ◎A wide range of modular flexibility
- ◎High stability and precision of connection
- ◎Minimize tool inventory
- ◎Reduce the clamping time

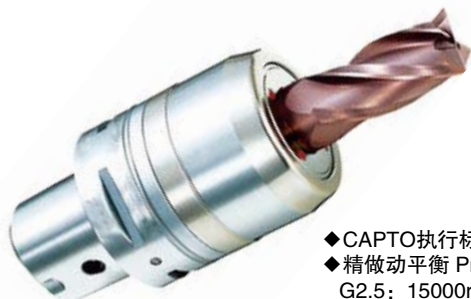
Features

- ◎High torque capacity
- ◎High bending strength
- ◎Fast tool change and automatic tool change
- ◎Advanced nozzle technology, even in the low pressure can ensure processing safety
- ◎Internal coolant channel guarantees high pressure coolant from the machine directly to the cutting edge
- ◎Good balance and concentricity

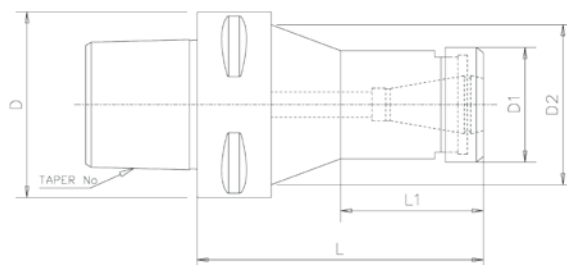


高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-13 CAPTO-ER数控刀柄 CAPTO-ER COLLET CHUCK



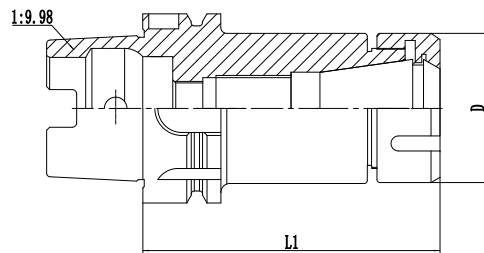
- ◆CAPTO执行标准-ISO26623
- ◆精做动平衡 Precision dynamic balancing
G2.5: 15000rpm/20000rpm



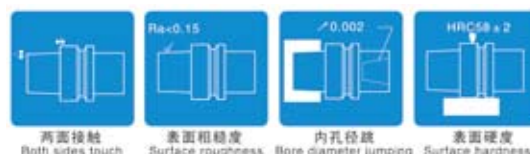
型号 Model No.	D	D1	D2	L	L1	Collets	夹持范围 Range
CDC3-ER11-40	32	19	-	40	-	ER11	1-7
CDC3-ER11-60	32	19	-	60	-	ER11	1-7
CDC3-ER16-50	32	28	-	50	-	ER16	1-10
CDC3-ER16-70	32	28	-	70	-	ER16	1-10
CDC3-ER20-55	32	34	-	55	-	ER20	1-13
CDC3-ER20-70	32	34	-	70	-	ER20	1-13
CDC4-ER11-50	40	19	-	50	-	ER11	1-7
CDC4-ER11-60	40	19	28	60	10	ER11	1-7
CDC4-ER16-55	40	28	-	55	-	ER16	1-10
CDC4-ER16-70	40	28	-	70	-	ER16	1-10
CDC4-ER20-60	40	34	-	60	-	ER20	1-13
CDC4-ER20-80	40	34	-	80	-	ER20	1-13
CDC5-ER11-55	50	19	-	55	-	ER11	1-7
CDC5-ER11-70	50	19	34	70	20	ER11	1-7
CDC5-ER16-60	50	28	-	60	-	ER16	1-10
CDC5-ER16-70	50	28	-	70	-	ER16	1-10
CDC5-ER20-60	50	34	-	60	-	ER20	1-13
CDC5-ER20-80	50	34	-	80	-	ER20	1-13
CDC6-ER11-60	63	19	-	60	-	ER11	1-7
CDC6-ER11-80	63	19	34	80	20	ER11	1-7
CDC6-ER16-65	63	28	-	65	-	ER16	1-10
CDC6-ER16-90	63	28	-	90	-	ER16	1-10
CDC6-ER20-65	63	34	-	65	-	ER20	1-13
CDC6-ER20-100	63	34	-	100	-	ER20	1-13
CDC8-ER16-70	80	28	34	70	5	ER16	1-10
CDC8-ER16-100	80	28	34	100	20	ER16	1-10
CDC8-ER20-70	80	34	42	70	5	ER20	1-13
CDC8-ER20-100	80	34	42	100	20	ER20	1-13
CDC8-ER16-80	80	28	34	80	5	ER16	1-10
CDC8-ER16-120	80	28	40	120	20	ER16	1-10
CDC8-ER20-80	80	34	42	80	5	ER20	1-13
CDC8-ER20-120	80	34	50	120	20	ER20	1-13

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-14 HSK ER 筒夹刀柄 HSK ER COLLET CHUCK



◆精做动平衡 Precision dynamic balancing
G6.3: 12000rpm/18000rpm
G2.5: 15000rpm/20000rpm



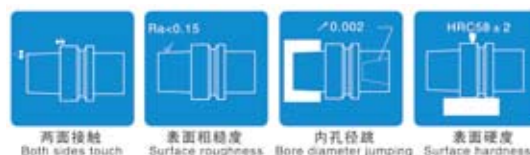
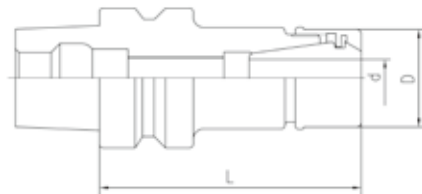
型号 Model No.	柄部 Shank	筒夹 collet	夹持范围 Range	D	L1	螺帽 NUT
HSK32A-ER11-45	HSK32A	ER11	1-7	19	45	ER11A
HSK32A-ER11-60	HSK32A	ER11	1-7	19	80	ER11A
HSK40A-ER16-80	HSK40A	ER16	1-10	28	80	ER16A
HSK40A-ER20-80	HSK40A	ER20	1-13	34	80	ER20A
HSK40A-ER25-80	HSK40A	ER25	1-16	42	80	ER25UM
HSK50A-ER16-80	HSK50A	ER16	1-10	28	80	ER16A
HSK50A-ER16-100	HSK50A	ER16	1-10	28	100	ER16A
HSK50A-ER20-80	HSK50A	ER20	1-13	34	80	ER20A
HSK50A-ER20-100	HSK50A	ER20	1-13	34	100	ER20A
HSK50A-ER25-80	HSK50A	ER25	1-16	42	80	ER25UM
HSK50A-ER25-100	HSK50A	ER25	1-16	42	100	ER25UM
HSK50A-ER32-100	HSK50A	ER32	1-20	50	100	ER32UM
HSK63A-ER16-75	HSK63A	ER16	1-10	32	75	ER16A
HSK63A-ER16-100	HSK63A	ER16	1-10	32	100	ER16A
HSK63A-ER16-125	HSK63A	ER16	1-10	32	125	ER16A
HSK63A-ER16-160	HSK63A	ER16	1-10	32	160	ER16A
HSK63A-ER20-75	HSK63A	ER20	1-13	35	75	ER20A
HSK63A-ER20-100	HSK63A	ER20	1-13	35	100	ER20A
HSK63A-ER20-125	HSK63A	ER20	1-13	35	125	ER20A
HSK63A-ER20-160	HSK63A	ER20	1-13	35	160	ER20A
HSK63A-ER25-75	HSK63A	ER25	1-16	42	75	ER25UM
HSK63A-ER25-100	HSK63A	ER25	1-16	42	100	ER25UM
HSK63A-ER25-125	HSK63A	ER25	1-16	42	125	ER25UM
HSK63A-ER25-160	HSK63A	ER25	1-16	42	160	ER25UM
HSK63A-ER32-100	HSK63A	ER32	1-20	50	100	ER32UM
HSK63A-ER32-125	HSK63A	ER32	1-20	50	125	ER32UM
HSK63A-ER32-160	HSK63A	ER32	1-20	50	160	ER32UM
HSK63A-ER40-100	HSK63A	ER40	3-26	63	100	ER40UM
HSK63A-ER40-120	HSK63A	ER40	3-26	63	120	ER40UM
HSK63A-ER40-160	HSK63A	ER40	3-26	63	160	ER40UM
HSK100A-ER16-100	HSK100A	ER16	1-10	42	100	ER16A
HSK100A-ER16-125	HSK100A	ER16	1-10	42	125	ER16A
HSK100A-ER16-160	HSK100A	ER16	1-10	42	160	ER16A
HSK100A-ER20-100	HSK100A	ER20	1-10	35	100	ER20A
HSK100A-ER20-125	HSK100A	ER20	1-10	35	125	ER20A
HSK100A-ER20-160	HSK100A	ER20	1-10	35	160	ER20A
HSK100A-ER25-100	HSK100A	ER25	1-16	42	100	ER25UM
HSK100A-ER25-125	HSK100A	ER25	1-16	42	125	ER25UM
HSK100A-ER25-160	HSK100A	ER25	1-16	42	160	ER25UM
HSK100A-ER32-100	HSK100A	ER32	1-20	50	100	ER32UM
HSK100A-ER32-125	HSK100A	ER32	1-20	50	125	ER32UM
HSK100A-ER32-160	HSK100A	ER32	1-20	50	160	ER32UM
HSK100A-ER40-100	HSK100A	ER40	3-26	63	100	ER40UM
HSK100A-ER40-120	HSK100A	ER40	3-26	63	120	ER40UM
HSK100A-ER40-160	HSK100A	ER40	3-26	63	160	ER40UM

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-15 HSK-ER 筒夹刀柄 HSK-ER HIGH SPEED COLLET CHUCK



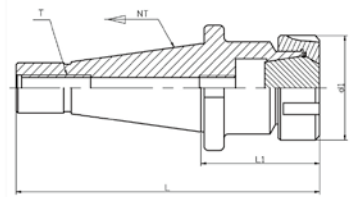
◆精做动平衡 Precision dynamic balancing
 G2.5:15000rpm~30000rpm



型号 Model No.	柄部 Shank	筒夹 collet	夹持范围 Range	D	L1	螺帽NUT
HSK32E-ER16-60	HSK32E	ER16	1-10	28	60	ER16A
HSK40E-ER16-60	HSK40E	ER16	1-10	28	60	ER16A
HSK40E-ER20-60	HSK40E	ER20	1-13	34	60	ER20A
HSK40E-ER20-100	HSK40E	ER20	1-13	34	100	ER20A
HSK40E-ER25-75	HSK40E	ER25	1-16	42	75	ER25UM
HSK40E-GER16-60	HSK40E	ER16	1-10	30	60	GER16
HSK40E-GER20-60	HSK40E	ER20	1-13	35	60	GER20
HSK40E-GER25-70	HSK40E	ER25	1-16	40	70	GER25
HSK40E-GER32-80	HSK40E	ER32	1-20	50	80	GER32
HSK40E-ER32-100	HSK40E	ER32	1-20	50	100	ER32UM
HSK50E-ER16-80	HSK50E	ER16	1-10	28	80	ER16A
HSK50E-ER20-80	HSK50E	ER20	1-13	34	80	ER20A
HSK50E-ER32-85	HSK50E	ER32	1-20	50	85	ER32UM
HSK63F-ER16-80	HSK63F	ER16	1-10	28	80	ER16A
HSK63F-ER16-100	HSK63F	ER16	1-10	28	100	ER16A
HSK63F-ER16-120	HSK63F	ER16	1-10	28	120	ER16A
HSK63F-ER16-160	HSK63F	ER16	1-10	28	160	ER16A
HSK63F-ER20-80	HSK63F	ER20	1-13	34	80	ER20A
HSK63F-ER20-100	HSK63F	ER20	1-13	34	100	ER20A
HSK63F-ER20-120	HSK63F	ER20	1-13	34	120	ER20A
HSK63F-ER20-160	HSK63F	ER20	1-13	34	160	ER20A
HSK63F-ER25-80	HSK63F	ER25	1-16	42	80	ER25UM
HSK63F-ER25-100	HSK63F	ER25	1-16	42	100	ER25UM
HSK63F-ER25-120	HSK63F	ER25	1-16	42	120	ER25UM
HSK63F-ER25-150	HSK63F	ER25	1-16	42	150	ER25UM
HSK63F-ER32-70	HSK63F	ER32	1-20	50	70	ER32UM
HSK63F-ER32-100	HSK63F	ER32	1-20	50	100	ER32UM
HSK63F-ER32-145	HSK63F	ER32	1-20	50	145	ER32UM
HSK63F-ER32-160	HSK63F	ER32	1-20	50	160	ER32UM
HSK63F-ER40-75	HSK63F	ER40	3-26	63	75	ER40UM
HSK63F-ER40-100	HSK63F	ER40	3-26	63	100	ER40UM
HSK63F-ER40-120	HSK63F	ER40	3-26	63	120	ER40UM
HSK63F-ER40-150	HSK63F	ER40	3-26	63	150	ER40UM
HSK63F-ER40-170	HSK63F	ER40	3-26	63	170	ER40UM
HSK63F-GER16-60	HSK63F	ER16	1-10	30	60	GER16
HSK63F-GER20-60	HSK63F	ER20	1-13	35	60	GER20
HSK63F-GER25-70	HSK63F	ER25	1-16	40	70	GER25
HSK63F-GER32-80	HSK63F	ER32	1-20	50	80	GER32

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

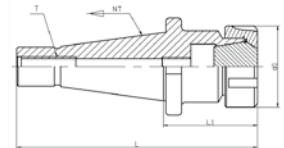
CD0102-16 NT/ ST(DIN2080) ER筒夹刀柄
NT/ ST(DIN2080) ER COLLET CHUCK



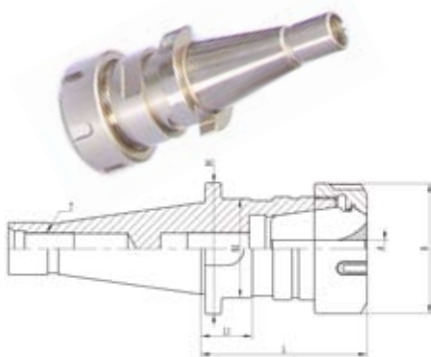
型号 Model No.	L	L1	d1	T	KGS
NT30-ER16-45	113.4	45	28	M12 × 1.75P/1/2"–13UNC	0.5
NT30-ER20-45	113.4	45	34		0.6
NT30-ER25-55	123.4	55	42		0.65
NT30-ER32-60	128.4	60	50		0.8
NT30-ER40-70	138.4	70	63		0.9
NT40-ER16-45	138.4	45	28	M16 × 2P/5/8"–11UNC	0.95
NT40-ER20-45	138.4	45	34		1.2
NT40-ER25-55	148.4	55	42		1.25
NT40-ER32-60	153.4	60	50		1.3
NT40-ER40-70	163.4	70	63		1.35
NT40-ER50-80	173.4	80	78	2	
NT45-ER11-100	206.8	100	19	M20X2.5P/3/4"–10UNC	2.1
NT45-ER16-100	206.8	100	28		2.25
NT45-ER20-100	206.8	100	34		2.3
NT45-ER25-100	206.8	100	42		2.4
NT45-ER32-100	206.8	100	50		2.45
NT45-ER40-100	206.8	100	63	2.6	
NT50-ER32-75	201.8	75	50	M24 × 3P/1"–8UNC	3.2
NT50-ER40-80	206.8	80	63		3.4
NT50-ER50-80	206.8	80	78		3.2

CD0102-17 ISO40 ER筒夹刀柄 ISO40 ER COLLET CHUCK

型号 Model No.	L	L1	d1	T	KGS
ISO40-ER32-60	153.4	60	50	M16 × 2P	1.3
ISO40-ER40-60	153.4	60	63		1.35



CD0102-18 NMTB ER筒夹刀柄 NMTB ER COLLET CHUCK

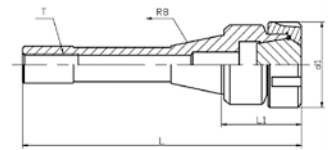


型号 Model No.	L	L1	D	D1	D2	d	T
NMTB30-ER16-70	70	22.67	28	46.4	35.05	1–10	1/2"–13UNC
NMTB30-ER32-60	60		50			1–20	
NMTB30-ER32-70	70		50			1–20	
NMTB30-ER40-70	70		63			3–26	
NMTB40-ER16-45	45	24.88	28	63.5	48	1–10	5/8"–11UNC
NMTB40-ER16-70	70		28			1–10	
NMTB40-ER20-70	70		34			1–13	
NMTB40-ER32-60	60	24.88	50			1–20	
NMTB40-ER32-70	70		50			1–20	
NMTB40-ER40-70	70		63		3–26		

注：供美国市场用于自动换刀设备。For the American market for automatic tool change device.

CD0102-19 R8 ER筒夹刀柄 R8 ER COLLET CHUCK

型号 Model No.	L	L1	d1	T	KGS
R8-ER16-38	140	38	28	7/16"–20UNF /M12X1.75P	0.65
R8-ER20-38	140	38	34		0.7
R8-ER25-40	142	40	42		0.8
R8-ER32-40	142	40	50		0.9
R8-ER40-70	172	70	63		1.15

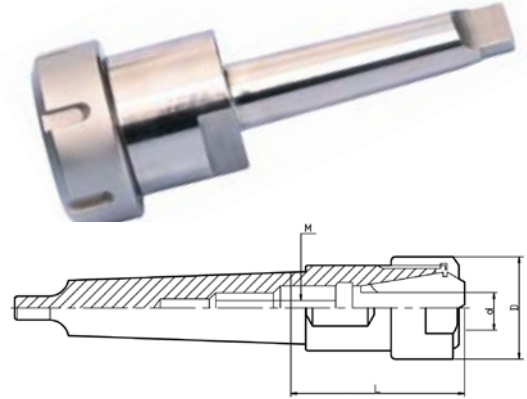


高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-20 MTA ER扁尾式莫氏刀柄 ER COLLET CHUCK(TYPE A)

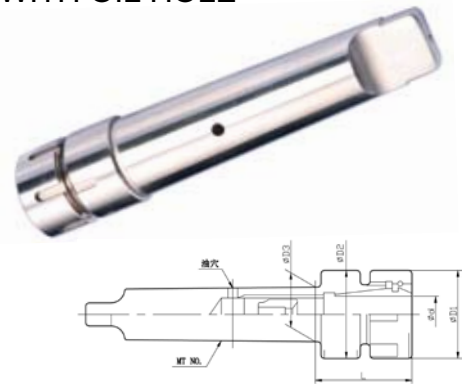
MORSE TAPER SHANK(TYPE A)

型号 Model No.	夹持范围 Range	D	L	M	筒夹collet
MTA1-ER16-60	1~10	28	60	M10 × 1.5P	ER16
MTA2-ER20-50	1~13	34	50		ER20
MTA2-ER25-55	1~16	42	55		ER25
MTA2-ER32-65	1~20	50	65		ER32
MTA2-ER40-70	3~26	63	70		ER40
MTA3-ER25-55	1~16	42	55	M12 × 1.5P	ER25
MTA3-ER32-60	1~20	50	60		ER32
MTA3-ER32-70	1~20	50	70		ER32
MTA3-ER40-70	3~26	63	70	M12 × 1.5P	ER40
MTA4-ER20-40	1~13	34	40		ER20
MTA4-ER25-40	1~16	42	40		ER25
MTA4-ER32-60	1~20	50	60	M16 × 2.0P	ER32
MTA4-ER32-70	1~20	50	70		ER32
MTA4-ER40-70	3~26	63	70		ER40
MTA5-ER40-55	3~26	63	55		ER40
MTA5-ER40-70	3~26	63	70		ER40
MTA5-ER50-75	6~34	78	75	M20 × 2.5P	ER50



CD0102-21 莫氏锥柄带油孔刀柄 MORSE SHANK WITH OIL HOLE

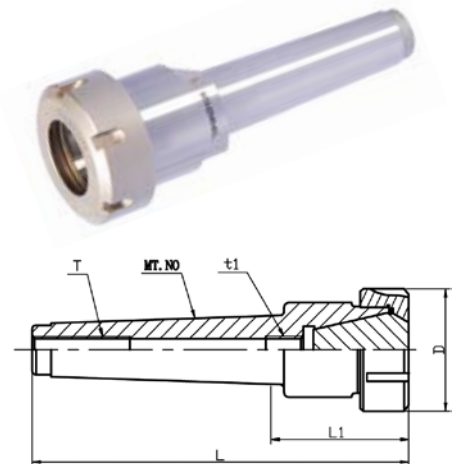
型号 Model No.	MT.NO	d	D1	D2	D3	L	Oil hole	筒夹collet
MTA2-ER16UM-45	2	1~10	32	31.5	17.78	45	有Y	ER16
MTA2-ER16UM-105						105	无N	
MTA3-ER20UM-45	3	1~13	35	34.5	23.825	45	有Y	ER20
MTA3-ER20UM-120						120	无N	
MTA4-ER20UM-45	4	1~13	35	34.5	31.267	45	有Y	
MTA4-ER20UM-150						150	无N	
MTA4-ER25UM-45	4	1~16	42	41.5	31.267	45	有Y	ER25
MTA4-ER25UM-150						150	无N	



CD0102-22 MTB ER后拉式莫氏刀柄 ER COLLET CHUCK(TYPE B)

MORSE TAPER SHAANK(TYPE B)

型号 Model No.	L	L1	D	t1	T	筒夹collet
MT2-ER16-40	104	40	28	M10 × 1.5P	M10 × 1.5P, 3/8"-16UNC	ER16
MT2-ER20-50	114	50	34			ER20
MT2-ER25-55	119	55	42			ER25
MT2-ER32-65	129	65	50			ER32
MT2-ER40-70	134	70	63			ER40
MT3-ER25-55	136	55	42	M12 × 1.75P	M12 × 1.75P, 1/2"-13UNC	ER25
MT3-ER32-75	156	75	50			ER32
MT3-ER40-75	156	75	63			ER40
MT4-ER32-75	177.5	75	50	M16 × 2.0P	M16 × 2.0P, 5/8"-11UNC	ER32
MT4-ER40-75	177.5	75	63			ER40
MT5-ER40-70	199.5	70	63			M20 × 2.5P, 3/4"-10UNC



高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-23 直柄ER夹头柄 ER COLLET STRAIGHT SHANK CHUCK



- ◎材质20CrMnTi/SCM415,表面硬度在55-58HRC。
- ◎ER直柄延长杆,柄体较长,适合于深孔加工。
- ◎延长杆外径与其他部位都经过研磨,消除不平衡余量,利于切削的稳定性;
- ◎可减少对加长刀具的选用,可降低成本,提高效率;
- ◎柄体内锥跳动精度: ≤0.005mm 预设动平衡 G6.3 12000rpm/18000rpm。
- ◎Material:20CrMnTi/SCM415, Surface hardness:55-58HRC;
- ◎Shank is longer, suitable for deep hole processing;
- ◎Outer diameter and other parts after grinding, eliminate the unbalanced allowance, conducive to the stability of the cutting;
- ◎Can reduce to the selection of lengthen cutting tool, reduce cost and improve efficiency;
- ◎Precision: ≤0.005mm balance G6.3 12000rpm/18000rpm.

型号 Model No.	L	D	C	T1	T2
C8-ER11A-100	128.3	19	8	M6X1P	M4X0.7P
C16-ER11A-50	74.3	19	16	M6X1P	M10X1.5P
C16-ER11A-100	124.3	19	16	M6X1P	M10X1.5P
C16-ER11A-120	144.3	19	16	M6X1P	M10X1.5P
C16-ER11A-150	174.3	28	16	M6X1P	M10X1.5P
C16-ER16A-50	90.3	28	16	M6X1P	M10X1.5P
C16-ER16A-100	140.3	28	16	M6X1P	M10X1.5P
C16-ER16A-150	190.3	28	16	M6X1P	M10X1.5P
C16-ER20A-100	150.2	34	16	M10X1.5P	M10X1.5P
C16-ER25-100	156.7	42	16	M10X1.5P	M10X1.5P
C20-ER16A-50	90.3	28	20	M10X1.5P	M10X1.5P
C20-ER16A-100	140.3	28	20	M10X1.5P	M10X1.5P
C20-ER16A-150	190.3	28	20	M10X1.5P	M10X1.5P
C20-ER20A-60	111.2	34	20	M12X1.75P	M10X1.5P
C20-ER20A-120	171.2	34	20	M12X1.75P	M10X1.5P
C20-ER20A-180	231.2	34	20	M12X1.75P	M10X1.5P
C20-ER25-50	106.7	42	20	M12X1.75P	M10X1.5P
C20-ER25-100	156.7	42	20	M12X1.75P	M10X1.5P
C20-ER32-50	107.2	50	20	M12X1.75P	M10X1.5P
C20-ER32-100	157.2	50	20	M12X1.75P	M10X1.5P
C25-ER25-50	106.7	42	25	M12X1.75P	M12X1.75P
C25-ER25-100	156.7	42	25	M12X1.75P	M12X1.75P
C25-ER32-50	108.7	50	25	M16X2.0P	M12X1.75P
C25-ER32-100	158.7	50	25	M16X2.0P	M12X1.75P
C25-ER40-50	119.7	63	25	M16X2.0P	M12X1.75P
C32-ER32-60	118.7	50	32	M16X2.0P	M16X2.0P
C32-ER40-50	119.7	63	32	M16X2.0P	M16X2.0P
C40-ER32-100	158.7	50	40	M16X2.0P	M16X2.0P
C40-ER40-100	169.7	63	40	M16X2.0P	M16X2.0P
C1/2"-ER11A-5.51"	175.3	19	1/2"	M6X1P	5/16"-18UNC
C5/8"-ER11A-5.51"	100.3	28	5/8"	M10X1.5P	5/16"-18UNC
C3/4"-ER16A-1.96"	90.3	28	3/4"	M10X1.5P	3/8"-16UNC
C3/4"-ER16A-3.94"	140.3	28	3/4"	M10X1.5P	3/8"-16UNC
C3/4"-ER16A-5.51"	180.3	28	3/4"	M10X1.5P	3/8"-16UNC
C3/4"-ER20A-2.5"	106.7	42	3/4"	M10X1.5P	1/2"-13UNC
C1"-ER25-1.96"	112.7	50	1"	M16X2.0P	1/2"-13UNC
C1"-ER32-1.96"	162.7	50	1"	M16X2.0P	1/2"-13UNC
C1"-ER32-5.51"	119.7	63	1"	M16X2.0P	1/2"-13UNC
C1-1/4"-ER25-2.36"	102.66	42	1-1/4"	M12X1.75P	1/2"-13UNC
C1-1/4"-ER32-2.36"	103.66	50	1-1/4"	M16X2.0P	1/2"-13UNC
C1-1/4"-ER40-2.36"	119.66	63	1-1/4"	M16X2.0P	1/2"-13UNC
C1-1/2"-ER32-3.42"	129.56	50	1-1/2"	M16X2.0P	5/8"-11UNC
C1-1/2"-ER40-2.95"	129.66	63	1-1/2"	M16X2.0P	5/8"-11UNC

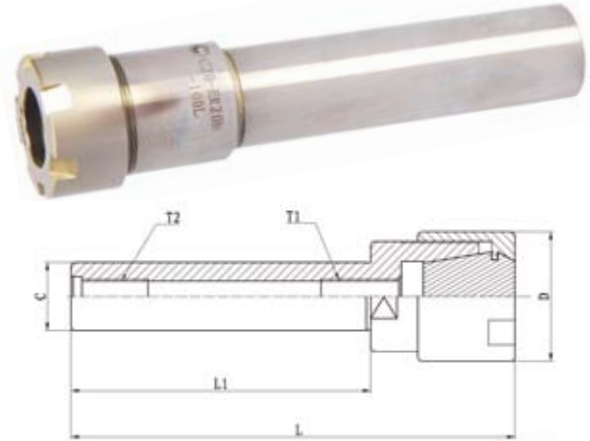
高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-24 直柄ER夹头刀柄(M型) ER COLLET STRAIGHT SHANK CHUCK (M TYPE)

型号 Model No.C-L1	L	D	T1	T2
C8-ER8M-55	79	12	M5X0.8P	M4X0.7P
C10-ER8M-100	127.5			M5X0.8P
C10-ER8M-180	207.5			M5X0.8P
C12-ER8M-55	74.5			M6X1.0P
C12-ER8M-100	119.5			M6X1.0P
C12-ER11M-80	114.3			16
C16-ER11M-50	84.3	M10X1.5P		
C16-ER11M-100	234.3	M10X1.5P		
C16-ER11M-140	174.3	M10X1.5P		
C16-ER16M-80	120.3	22	M10X1.5P	M10X1.5P
C20-ER16M-100	136.8			M10X1.5P
C20-ER16M-140	176.8			M10X1.5P
C20-ER16M-160	196.8			M10X1.5P
C20-ER20M-60	110.2	28	M12X1.75P	M10X1.5P
C20-ER20M-100	150.2			M10X1.5P
C20-ER20M-150	200.2			M10X1.5P
C20-ER20M-180	230.2			M10X1.5P
C20-ER25M-100	156.7	35	M12X1.75P	M10X1.5P
C25-ER20M-140	179.5	28	M12X1.75P	M10X1.5P
C3/8"-ER8M-4"	131.08	12	M5X0.8P	3/16"-24UNC
C1/2"-ER11M-5.51"	156.3	16	M6X1P	1/4"-20UNC
C1/2"-ER16M-5.51"	180.26	22	M6X1P	1/4"-20UNC
C3/4"-ER16M-1.65"	67.16	22	M10X1.5P	3/8"-16UNC
C3/4"-ER16M-3.42"	112.16	22	M10X1.5P	3/8"-16UNC
C3/4"-ER16M-5.51"	165.26	22	M10X1.5P	3/8"-16UNC
C3/4"-ER20M-5.51"	190.86	28	M10X1.5P	3/8"-16UNC
C3/4"-ER25M-4"	158.26	40	M12X1.75P	3/8"-16UNC
C1"-ER20M-3.31"	118.66	28	M10X1.5P	1/2"-13UNC
C1"-ER20M-5.51"	174.66	28	M10X1.5P	1/2"-13UNC

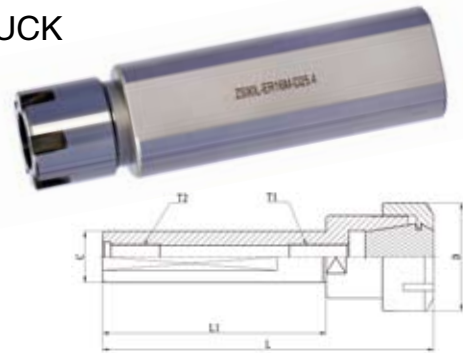
- ◎ 适用于各式CNC铣床，360度环抱式夹紧；
- ◎ 材质20CrMnTi/SCM415,表面硬度在55-58HRC；
- ◎ 延长杆外径与其他部位都经过研磨，消除不平衡余量，利于切削的稳定性；
- ◎ 可减少对加长刀具的选用，可降低成本，提高效率；
- ◎ 柄体内锥跳动精度： $\leq 0.005\text{mm}$
- ◎ 预设动平衡 G6.3 12000rpm/18000rpm

- ◎ Suitable for all kinds of CNC milling machine, 360 degrees around type clamping
- ◎ Material:20CrMnTi/SCM415, Surface hardness:55-58HRC;
- ◎ Outer diameter and other parts after grinding, eliminate the unbalanced allowance, conducive to the stability of the cutting;
- ◎ Can reduce to the selection of lengthen cutting tool, reduce cost and improve efficiency
- ◎ Precision: $\leq 0.005\text{mm}$ balance G6.3 12000rpm/18000rpm



CD0102-25 直柄侧锁式ER铣床夹头柄 SIDE LOCK ER COLLET STRAIGHT SHANK CHUCK

型号 Model No.C-L1	L	T1	T2	C	D
C20-ER11M-60	76.6	M12X1.75P	M10X1.5P	20	16
C20-ER16M-60	96.8	M12X1.75P	M10X1.5P	20	22
C20-ER20M-65	115.2	M12X1.75P	M10X1.5P	20	28
C25-ER16M-65	105.3	M12X1.75P	M10X1.5P	25	22
C25-ER20M-65	104.5	M12X1.75P	M10X1.5P	25	28
C25-ER25UM-65	121.7	M12X1.75P	M10X1.5P	25	42
C25-ER25UM-70	126.7	M12X1.75P	M10X1.5P	25	50
C32-ER16M-65	105.3	M16X2.0P	M10X1.5P	32	22
C32-ER20M-70	102	M16X2.0P	M10X1.5P	32	28
C32-ER25UM-70	102	M16X2.0P	M10X1.5P	32	42
C32-ER32UM-70	128.7	M16X2.0P	M12X1.75P	32	50
C32-ER40UM-70	139.7	M16X2.0P	M16X2.0P	32	63
C40-ER32UM-70	128.7	M16X2.0P	M16X2.0P	40	50
C40-ER40UM-75	145.7	M16X2.0P	M16X2.0P	40	63
C45-ER32UM-120	178	M16X2.0P	M16X2.0P	45	50
C45-ER40UM-120	180	M16X2.0P	M16X2.0P	45	63
C1-1/4"-ER25UM-2.36"	102.66	M12X1.75P	1/2"-13UNC	1-1/4"	42
C1-1/4"-ER32UM-2.36"	103.66	M16X2.0P	1/2"-13UNC	1-1/4"	50
C1-1/4"-ER40UM-2.36"	119.66	M16X2.0P	1/2"-13UNC	1-1/4"	63
C1-1/2"-ER32UM-3.42"	129.56	M16X2.0P	5/8"-11UNC	1-1/2"	50
C1-1/2"-ER40UM-2.95"	129.66	M16X2.0P	5/8"-11UNC	1-1/2"	63



- ◎ 适用于各式CNC车床，走心式或是走刀式等自动车床，可作为一个刀夹（夹钻头、立铣刀、小镗刀等），可以通过吸收震动提高效率。

- ◎ 材质：20CrMnTi/SCM415,表面硬度在55-58HRC。
- ◎ 内孔同心度： $\leq 0.005\text{mm}$
- ◎ 夹持柄位有削平端供刀座侧边螺丝锁固。

- ◎ Applicable to a variety of CNC lathes, Swiss Type, or walk the knife-type automatic lathes, etc. can be used as a knife folder (folder drills, end mills, small boring tool, etc.) can be shock-absorbing efficiency.

- ◎ Material:20CrMnTi/SCM415.
- ◎ Hole Concentricity: $\leq 0.005\text{mm}$.

- ◎ Clamping handle bit-side leveling screw for locking the side of a knife block.

注：一般按1个削平面供货，如需两个削平面单独注明。
 Note: Generally supply 1 flat, if need 2 flats please specify.

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-26 直柄两端ER铣夹头柄 STRAIGHT SHANK WITH ER MILLING COLLETS AT BOTH SIDES

- ◎材质：20CrMnTi/SCM415
- ◎渗碳热处理硬度:55-58HRC
- ◎精度：≤0.005mm
- ◎Material : 20CrMnTi/SCM415
- ◎Surface Hardness : 55-58HRC
- ◎Accuracy : ≤0.005mm

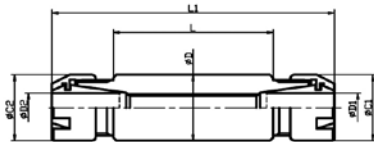


Fig1



Fig2



Fig3

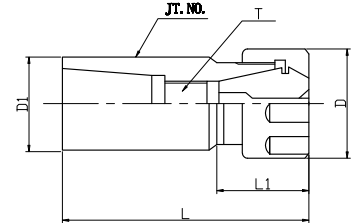
型号 Model No.	Fig	D	L	L1	D1	D2	C1	C2	
CD16-ER11M-40	1	16	40	72	1-7	1-7	16	16	
CD19.05-ER11M-40	2	19.05	40	72					
CD19.05-ER11M-50		19.05	50	82					
CD19.05-ER11M-60		19.05	60	92					
CD19.05-ER11M-90		19.05	90	122					
CD19.05-ER11M-100		19.05	100	132					
CD20-ER11M-50		20	50	82					
CD20-ER11M-60		20	60	92					
CD20-ER11A-65		20	65	100					
CD19.05-ER16M-60		1	19.05	60					112
CD19.05-ER16M-75	19.05		75	127					
CD20-ER16M-40	20		40	92					
CD20-ER16M-60	20		60	112					
CD20-ER16M-75	20		75	127					
CD20-ER16M-100	20		100	152					
CD22-ER16M-60	1	22	60	112					
CD22-ER16M-75		22	75	127					
CD22-ER16M-90		22	90	142					
CD22-ER16M-100		22	100	152					
CD25-ER16M-50	2	25	50	102					
CD25-ER16M-60		25	60	112					
CD25-ER16M-70		25	70	122					
CD25-ER16M-50		25	50	102					
CD25.4-ER16M-60		25.4	60	112					
CD25.4-ER16M-70		19.05	70	122					
CD25.4-ER16M-75	19.05	75	127						
CD25-ER20M-80	1	25	80	134	1-13	1-13	28	28	
CD25.4-ER20M-80	25.4	80	134						
CD32-ER20M-60	2	32	60	114					
CD32-ER20M-80		32	80	134					
CD19.05-ER11M/ER16M-50	3	19.05	50	92	1-7	1-10	16	22	
CD20-ER11M/ER16M-50		20	50	92					
CD19.05-ER11M/ER20M-50		19.05	50	120					
CD20-ER11M/ER20M-50		20	50	120					
CD22-ER16M/ER20M-45		1-10	22	45	98	1-13	22	28	
CD22-ER16M/ER20M-60L			22	60	113				
CD22-ER16M/ER20M-45L			25	45	98				
CD25-ER16M/ER20M-60L			25	60	113				
CD25-ER16M/ER25M-45L			25	45	115				
CD25-ER16M/ER25M-60L			25	60	130				
CD25-ER16M/ER25M-60L			1-16	25	60				130
CD32-ER20M/ER25M-60L				32	60				131

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

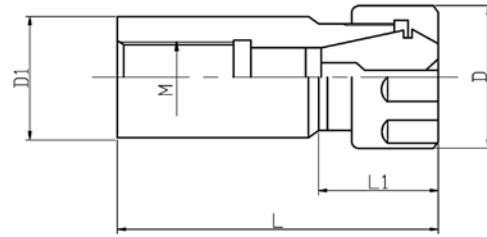
CD0102-27 锥孔连结ER筒夹刀柄 JACOBS FEMLE TAPER SHANK-JT

- ◎材质: 20CrMnTi/SCM415 ◎Material : 20CrMnTi/SCM415
 ◎渗碳热处理硬度:55-58HRC ◎Surface Hardness : 55-58HRC
 ◎精度: ≤0.005mm ◎Accuracy : ≤0.005mm

型号 Model No.	JT	D	D1	L	L1	T
JT0-ER11	JT0	19	19	52	19	M6X1P
JT1-ER11	JT1			58		
JT1-ER16		JT2	28	28	67	26
JT2-ER16	72					
JT6-ER16	JT6	34	34	75	27.5	M12X1.75P
JT6-ER20				81		
JT3-ER20	JT3			86		



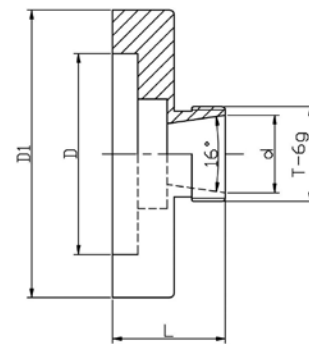
CD0102-28 螺纹连接ER筒夹 ER COLLET WITH THREAD



	M	L	L1	D1	D
M-ER16-50L	M1/2-20UNF	50	20	30	28
	M3/4-16UNF				
	M12X1				
	M14X1				

CD0102-29 ER直孔夹头座 ER COLLET FIXTURE

型号 Model No.	D	D1	d	T	L	COLLET
ER16-22	22	45	16	M22X1.5P	25	ER16
ER25-72	72	100	25	M32X1.5P	36	ER25
ER25-52	52	102	25	M32X1.5P	36	ER25
ER25-100	100	132	25	M32X1.5P	34	ER25
ER32-55	55	80	32	M40X1.5P	42	ER32
ER32-72	72	100				
ER32-95	95	125				
ER32-100	100	132				
ER32-132	132	163				
ER25-55	55	80	25	M32X1.5P	40	ER25
ER40-55	55	80	40	M50X1.5P		ER40
ER40-72	72	100	40	M50X1.5P		ER40
ER40-95	95	125	40	M50X1.5P		ER40



●可根据客户要求订制 ●Can be made according to customer's requirements

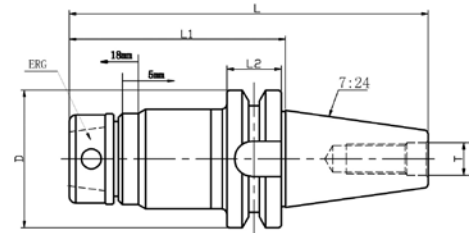
高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-30 BT、SK(DIN69871)、NT 刚性伸缩攻牙本体 BT、SK(DIN69871)、NT RIGIO TENSION AND COMPRESSION TAPER HOLDER



- ◎材质20CrMnTi或SCM415;
- ◎硬度58 ± 2HRC; 渗碳深 > 0.8;
- ◎伸长及收缩可达5mm, 搭配刚性ER攻丝筒夹;
- ◎刀柄柄体做-196℃超长深冷处理及热时效处理;
- ◎外观涂层处理;

- ◎Material:20CrMnTi/SCM415 ;
- ◎Hardness:58 ± 2HRC; Carbon depth > 0.8;
- ◎Tension and compression can reach up to 5mm with rigid ER tapping collet;
- ◎chuck shank do - 196 °C super-long cryogenic treatment and thermal aging treatment;
- ◎coating surface.



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping



表面硬度
Surface hardness

型号 Model No.	攻牙范围 Tapping range	D	L	L1	L2	T	COLLET
BT30-TER16	M3-M10	46	149	100.6	20	M12	ER16G
BT30-TER20	M3-M17	46	151	102.6	20	M12	ER20G
BT30-TER25	M3-M22	46	153	104.6	20	M12	ER25G
BT30-TER32	M3-M27	46	156	107.6	20	M12	ER32G
BT40-TER16	M3-M10	63	161	95.6	25	M16	ER16G
BT40-TER20	M3-M17	63	163	97.6	25	M16	ER20G
BT40-TER25	M3-M22	63	165	99.6	25	M16	ER25G
BT40-TER32	M3-M27	63	168	102.6	25	M16	ER32G
BT50-TER16	M3-M10	100	207	105.2	35	M24	ER16G
BT50-TER20	M3-M17	100	209	107.2	35	M24	ER20G
BT50-TER25	M3-M22	100	211	109.2	35	M24	ER25G
BT50-TER32	M3-M27	100	214	112.2	35	M24	ER32G
SK40-TER16	M3-M10	63.55	152	86.5	15.9	M16	ER16G
SK40-TER20	M3-M17	63.55	154	88.5	15.9	M16	ER20G
SK40-TER25	M3-M22	63.55	156	90.5	15.9	M16	ER25G
SK40-TER32	M3-M27	63.55	159	93.5	15.9	M16	ER32G
SK50-TER16	M3-M10	97.5	189	86.5	15.9	M24	ER16G
SK50-TER20	M3-M17	97.5	191	88.5	15.9	M24	ER20G
SK50-TER25	M3-M22	97.5	193	90.5	15.9	M24	ER25G
SK50-TER32	M3-M27	97.5	195	93.5	15.9	M24	ER32G
NT40-TER16	M3-M10	63	174	108.6	10	M16	ER16G
NT40-TER20	M3-M17	63	176	110.6	10	M16	ER20G
NT40-TER25	M3-M22	63	178	112.6	10	M16	ER25G
NT40-TER32	M3-M27	63	181	115.6	10	M16	ER32G
NT50-TER16	M3-M10	100	209	110.6	12	M24	ER16G
NT50-TER20	M3-M17	100	211	112.6	12	M24	ER20G
NT50-TER25	M3-M22	100	213	114.6	12	M24	ER25G
NT50-TER32	M3-M27	100	216	117.6	12	M24	ER32G

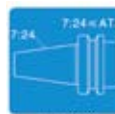
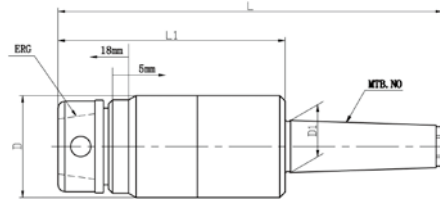
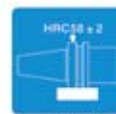
高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-31 MTA/B C 直柄刚性伸缩攻牙本体 RIGID TENSION AND COMPRESSION TAPER HOLDER MTA/B C



- ◎材质20CrMnTi或SCM415;
- ◎硬度58 ± 2HRC; 渗碳深 > 0.8;
- ◎伸长及收缩可达5mm, 搭配刚性ER攻丝筒夹;
- ◎刀柄柄体做-196℃超长深冷处理及热时效处理;
- ◎外观涂层处理;

- ◎Material:20CrMnTi/SCM415;
- ◎Hardness:58 ± 2HRC; Carbon depth > 0.8;
- ◎Tension and compression can reach up to 5mm with rigid ER tapping collet;
- ◎chuck shank do - 196 °C super-long cryogenic treatment and thermal aging treatment;
- ◎coating surface.

锥度公差
Taper tolerance表面粗糙度
Surface roughness内孔径跳
Bore diameter jumping表面硬度
Surface hardness

型号 Model No.	攻牙范围 Tapping range	D	L	L1	D1	筒夹名称 Collet name
MTA2-TER16	M3-M10	46	177	97	17.78	ER16G
MTA2-TER20	M3-M17	46	179	99	17.78	ER20G
MTA2-TER25	M3-M22	46	181	101	17.78	ER25G
MTA3-TER16	M3-M10	50	196	97	23.825	ER16G
MTA3-TER20	M3-M17	50	198	99	23.825	ER20G
MTA3-TER25	M3-M22	50	200	101	23.825	ER25G
MTA3-TER32	M3-M27	50	203	104	23.825	ER32G
MTA4-TER16	M3-M10	66	221	97	31.267	ER16G
MTA4-TER20	M3-M17	66	223	99	31.267	ER20G
MTA4-TER25	M3-M22	66	225	101	31.267	ER25G
MTA4-TER32	M3-M27	66	228	104	31.267	ER32G
MTA5-TER32	M3-M27	66	260	104	44.339	ER32G
MTB3-TER16	M3-M10	46	176	89	23.825	ER16G
MTB3-TER20	M3-M17	46	206	120	23.825	ER20G
MTB3-TER25	M3-M22	46	176	89	23.825	ER25G
MTB3-TER32	M3-M27	46	206	120	23.825	ER32G
MTB4-TER16	M3-M10	46	199	89	31.267	ER16G
MTB4-TER20	M3-M17	46	229	120	31.267	ER20G
MTB4-TER25	M3-M22	46	199	89	31.267	ER25G
MTB4-TER32	M3-M27	46	229	120	31.267	ER32G
C20-TER16-50/100	M3-M10	46	147/197	97	20	ER16G
C20-TER20-50/100	M3-M17	46	149/199	99	20	ER20G
C20-TER25-50/100	M3-M22	46	161/201	101	20	ER25G
C20-TER32-50/100	M3-M27	46	164/204	104	20	ER32G
C25-TER16-50/100	M3-M10	46	147/197	97	25	ER16G
C25-TER20-50/100	M3-M17	46	149/199	99	25	ER20G
C25-TER25-50/100	M3-M22	46	161/201	101	25	ER25G
C25-TER32-50/100	M3-M27	46	164/204	104	25	ER32G

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-32 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、塑料盒、铝盒包装。
- ◎综合精度: A级 ($\leq 8\mu$), AA级 ($\leq 5\mu$)



- ◎A set included :1 collet chuck, 1 clamping nut ,full set of collets and 1 spanner.
- ◎Packed in a wooden case or plastic case.
- ◎Comprehensive accuracy: A class ($\leq 8\mu$), AA class ($\leq 5\mu$)

ER16铣夹头MILLING COLLET CHUCK

型号 Model No.	支/套PCS/SET	d		拉杆螺纹Thread of draw bar
		mm	in	
R8	8	3,4,5,6,7,8,9,10	3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8	M12 x 1.75 7/16"-20UNF
30/NT.BT.SK.CAT				M12 x 1.75 1/2"-13UNC
40/NT.BT.SK.CAT				M16 x 2.0 5/8"-11UNC
50/NT.BT.SK.CAT				M24 x 3.0 1"-8UNC
MT2				M10 x 1.5 3/8"-16UNC
MT3				M12 x 1.75 1/2"-13UNC
MT4				M16 x 2.0 5/8"-11UNC
1/2"				-
3/4"				-

ER25铣夹头MILLING COLLET CHUCK

型号 Model No.	支/套PCS/SET	d		拉杆螺纹Thread of draw bar
		mm	in	
R8	6	4,6,8,10,12,16	1/8, 3/16, 5/16, 3/8, 1/2, 5/8	M12 x 1.75 7/16"-20UNF
30/NT.BT.SK.CAT				M12 x 1.75 1/2"-13UNC
40/NT.BT.SK.CAT				M16 x 2.0 5/8"-11UNC
50/NT.BT.SK.CAT				M24 x 3.0 1"-8UNC
MT2				M10 x 1.5 3/8"-16UNC
MT3				M10 x 1.75 1/2"-13UNC
MT4				M16 x 2.0 5/8"-11UNC
3/4"				-
1"				-

ER25铣夹头MILLING COLLET CHUCK

型号 Model No.	支/套PCS/SET	d		拉杆螺纹Thread of draw bar
		mm	in	
R8	10	3, 4, 5, 6, 8, 10, 12, 14, 15, 16	3/32, 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8	M12 x 1.75 7/16"-20UNF
30/NT.BT.SK.CAT				M12 x 1.75 1/2"-13UNC
40/NT.BT.SK.CAT				M16 x 2.0 5/8"-11UNC
50/NT.BT.SK.CAT				M24 x 3.0 1"-8UNC
MT2				M10 x 1.5 3/8"-16UNC
MT3				M10 x 1.75 1/2"-13UNC
MT4				M16 x 2.0 5/8"-11UNC
3/4"				-
1"				-

ER32铣夹头MILLING COLLET CHUCK

型号 Model No.	支/套PCS/SET	d		拉杆螺纹Thread of draw bar
		mm	in	
R8	6	6, 8, 10, 12, 16, 20	1/4, 5/16, 3/8, 1/2, 5/8, 3/4	M12 x 1.75 7/16"-20UNF
30/NT.BT.SK.CAT				M12 x 1.75 1/2"-13UNC
40/NT.BT.SK.CAT				M16 x 2.0 5/8"-11UNC
50/NT.BT.SK.CAT				M24 x 3.0 1"-8UNC
MT2				M10 x 1.5 3/8"-16UNC
MT3				M12 x 1.75 1/2"-13UNC
MT4				M16 x 2.0 5/8"-11UNC
3/4"				-
1"				-

ER32铣夹头MILLING COLLET CHUCK

型号 Model No.	支/套PCS/SET	d		拉杆螺纹Thread of draw bar
		mm	in	
R8	18	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 15/32, 1/2, 9/16, 19/32, 5/8, 11/16, 23/32, 3/4	M12 x 1.75 7/16"-20UNF
30/NT.BT.SK.CAT				M12 x 1.75 1/2"-13UNC
40/NT.BT.SK.CAT				M16 x 2.0 5/8"-11UNC
50/NT.BT.SK.CAT				M24 x 3.0 1"-8UNC
MT2				M10 x 1.5 3/8"-16UNC
MT3				M12 x 1.75 1/2"-13UNC
MT4				M16 x 2.0 5/8"-11UNC
3/4"				-
1"				-

ER40铣夹头MILLING COLLET CHUCK

型号 Model No.	支/套PCS/SET	d		拉杆螺纹Thread of draw bar			
		mm	in				
R8	8	4,6,8,10,12,16,20,25	1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1"	M12 x 1.75 7/16"-20UNF			
30/NT.BT.SK.CAT				M12 x 1.75 1/2"-13UNC			
40/NT.BT.SK.CAT				M16 x 2.0 5/8"-11UNC			
50/NT.BT.SK.CAT				M24 x 3.0 1"-8UNC			
MT2				M10 x 1.5 3/8"-16UNC			
MT3				M12 x 1.75 1/2"-13UNC			
MT4				M16 x 2.0 5/8"-11UNC			
R8				15	4,5,6,8,10,12,14,15,16,18,20,22,24,25,26	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"	M12 x 1.75 7/16"-20UNF
30/NT.BT.SK.CAT							M12 x 1.75 1/2"-13UNC
40/NT.BT.SK.CAT							M16 x 2.0 5/8"-11UNC
50/NT.BT.SK.CAT							M24 x 3.0 1"-8UNC
MT2	M10 x 1.5 3/8"-16UNC						
MT3	M10 x 1.75 1/2"-13UNC						
MT4	M16 x 2.0 5/8"-11UNC						

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0102-32 ER套装铣夹头 ER MILLING CHUCK SET



ER40套装铣夹头 MILLING COLLET CHUCK

型号 Model No.	支/套PCS/ SET	d		拉杆螺纹 Thread of draw bar	
		mm	in		
R8	18	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25	5/32, 3/16, 7/32, 1/4, 9/32,	M12 × 1.75	7/16"–20UNF
30/NT.BT.SK.CAT			5/16, 11/32,	M12 × 1.75	1/2"–13UNC
40/NT.BT.SK.CAT			3/8, 7/16, 15/32,	M16 × 2	5/8"–11UNC
50/NT.BT.SK.CAT			1/2, 9/16,	M24 × 3	1"–8UNC
MT2			19/32, 5/8,	M10 × 1.5	3/8"–16UNC
MT3			11/16, 3/4, 13/16, 1"	M12 × 1.75	1/2"–13UNC
MT4				M16 × 2	5/8"–11UNC
R8	24	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26	1/8, 5/32, 3/16, 7/32, 1/4, 9/32,	M12 × 1.75	7/16"–20UNF
30/NT.BT.SK.CAT			5/16, 11/32,	M12 × 1.75	1/2"–13UNC
40/NT.BT.SK.CAT			3/8, 7/16, 15/32,	M16 × 2	5/8"–11UNC
50/NT.BT.SK.CAT			1/2, 9/16, 19/32, 5/8,	M24 × 3	1"–8UNC
MT2			11/16, 23/32, 3/4, 13/16,	M10 × 1.5	3/8"–16UNC
MT3			27/32, 7/8, 29/32, 15/16, 1"	M12 × 1.75	1/2"–13UNC
MT4				M16 × 2	5/8"–11UNC

◎ 订货时，请注明夹头体的拉杆螺纹及夹头的规格（公制或英制）

◎ 订货直柄夹头时，请注明直柄的直径及长度。

◎ 我们还可以根据您的要求，提供不同规格及件数的成套夹簧、夹头体

◎ 订货时，请注明A级或AA级

◎ Please notify the thread of collet chuck draw bar and the specification of collets (metric or inch)

◎ Please notify the length of shank straight and diameter

◎ We are glad to supply collets and chucks with different shank and quantities according to your requirement.

CD0102-33 直柄套装ER铣夹头 ER STRAIGHT MILLING CHUCK SET

型号 Model No.	夹持能力 CAPACITY	规格 TYPE	夹持能力 CAPACITY
C16-ER11-50L-13PCS	(1-7) × 13PCS	C20-ER32-50L-6PCS	(6-20) × 6PCS
C16-ER11-100L-13PCS		C20-ER32-100L-6PCS	
C16-ER11-150L-13PCS		C20-ER32-50L-18PCS	(3-20) × 18PCS
C16-ER16-50L-10PCS	(1-10) × 10PCS	C20-ER32-100L-18PCS	
C16-ER16-100L-10PCS		C25-ER25-100L-15PCS	(2-16) × 15PCS
C16-ER16-150L-10PCS		C25-ER25-150L-15PCS	
C20-ER16-50L-10PCS		C25-ER32-50L-6PCS	(6-20) × 6PCS
C20-ER16-100L-10PCS		C25-ER32-50L-18PCS	(3-20) × 18PCS
C20-ER16-150L-10PCS		C25-ER40-50L-7PCS	(6-25) × 7PCS
C20-ER20-60L-12PCS		C25-ER40-50L-23PCS	(4-26) × 23PCS
C20-ER20-100L-12PCS	(2-13) × 12PCS	C32-ER32-60L-6PCS	(6-20) × 6PCS
C20-ER20-150L-12PCS		C32-ER32-60L-18PCS	(3-20) × 18PCS
C20-ER25-150L-15PCS		C32-ER40-50L-7PCS	(6-25) × 7PCS
C20-ER25-100L-15PCS	(2-16) × 15PCS	C32-ER40-50L-23PCS	(4-26) × 23PCS



高速、高精度、高寿命**ER**螺帽

High speed high accuracy high durability **ER**nuts



ER螺帽综合特点:

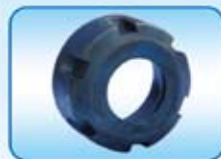
- ◆材质:20CrMnTi渗碳;
- ◆热处理硬度: 50-53HRC;
- ◆工序中作深冷处理及热时效处理, 提高了精度及尺寸的稳定性;
- ◆螺纹与30° 斜面一次成型加工, 螺纹的公差等级采用4H级, 精度逐件检测;
- ◆预设动平衡G6.3-18000rpm, G2.5-20000rpm; G2.5-30000rpm;
- ◆表面采用喷砂涂层及抛光涂层处理, 提高表面硬度、耐磨性, 提高清洁度, 防锈、防腐蚀更好, 精度更稳定, 表面更光滑, 手感更舒适, 外观更漂亮;

Comprehensive features of ER nut

- ◆Material: 20CrMnTi;
- ◆Heat treatment hardness:50-53HRC;
- ◆Cryogenic treatment and thermal aging treatment have improved the stability of accuracy and dimensions;
- ◆Thread and a slope of 30 degrees have once molding processed. The tolerance class of thread use 4H,accuracy detected one by one;
- ◆Pre-balance is G6.3-18000rpm,G2.5-20000rpm, G2.5-30000rpm;
- ◆Surface coating processing treatment, improve surface hardness and endurance, cleanliness better, antirust, accuracy more stable, surface more smooth, feel comfortable, appearance nice.



深冷处理
Cryogenic treatment



时效处理
Thermal aging processing

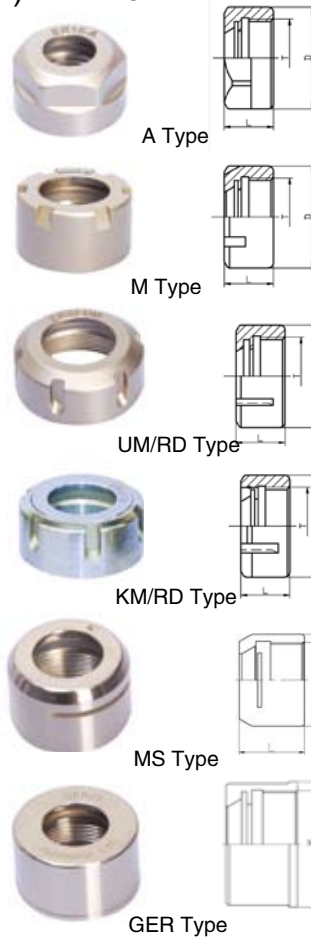


精度检测
Inspection of Accuracy

高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

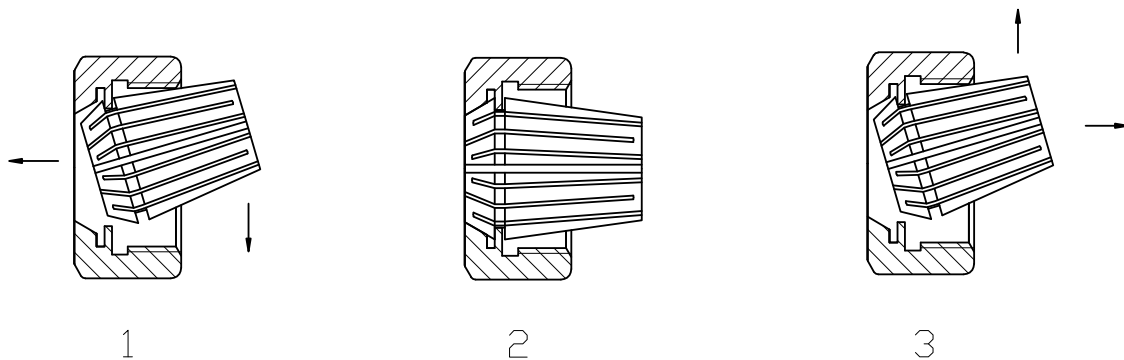
CD0103-01 ER螺帽 (DIN 6499-B) ER NUT

形式 Type	型号 Model No.	D	L	T
A	ER8A	13.5	11	M10x0.75P
	ER11A	19	11.3	M14x0.75P
	ER16A	28	17.5	M22x1.5P
	ER20A	34	19	M25x1.5P
M	ER8M	12	11	M10x0.75P
	ER11M	16	12	M13x0.75P
	ER16M	22	18	M19x1.0P
	ER20M	28	19	M24x1.0P
	ER25M	35	20	M30x1.0P
UM/RD	ER16UM	32	17	M22x1.5P
	ER20UM	35	19	M25x1.5P
	ER25UM	42	20	M32x1.5P
	ER32UM	50	22.5	M40x1.5P
	ER40UM	63	25.5	M50x1.5P
KM/RD	ER25KM	42	20	M32x1.5P
	ER32KM	50	22.5	M40x1.5P
	ER40KM	63	25.5	M50x1.5P
	ER50KM	78	35.5	M64x2.0P
MS	ER11MS	16	11.3	M13x0.75P
	ER16MS	22	17	M19x1.0P
	ER20MS	28	19	M24x1.0P
	ER25MS	35	23	M30x1.0P
GER	GER16	30	23	M19x1.0P
	GER20	35	25	M24x1.0P
	GER25	40	26	M30x1.0P
	GER32	50	30	M40x1.5P



- ◎ 材质: 20CrMnTi
- ◎ 硬度: 50-53HRC
- ◎ 螺纹及30°斜度一次成型加工, 螺纹公差等级为4H级
- ◎ 精度: 0.005mm
- ◎ 不同螺帽可预设动平衡
G6.3 18000rpm
G2.5 20000rpm、30000rpm
- ◎ Material: 20CrMnTi
- ◎ Hardness: 50-53HRC
- ◎ Screw and 30° inclination molding processing, the thread tolerance class 4H-class
- ◎ Accuracy: 0.005mm
- ◎ Default balancing
G6.3 18000rpm
G2.5 20000rpm、30000rpm

◇ 压帽与卡簧及刀具的正确安装 Mounting instruction for ERcollets and nuts

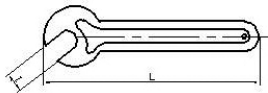


- ◎ 安装前请清洗卡簧及压帽
- ◎ 将夹头放入压帽内, 轻轻转动卡簧, 待压帽偏心部分凹入卡槽内, 沿箭头方向均匀用力推动卡簧, 即可装入压帽内。
- ◎ 将卡簧和压帽一起安装在夹头体或机床主轴内, 把刀具圆柱柄部擦净后装入夹持孔内, 使用扳手均匀用力紧固压帽直到刀具夹牢为止方可使用。(注意: 切忌在未安装刀具状态下紧固压帽, 以免损坏夹头)
- ◎ 换刀时, 用扳手松开压帽带出夹头及刀具, 卸下刀具, 沿箭头方向用力推动卡簧, 使其退出, 然后根据需要换上其它孔径的卡簧即可。
- ◎ Put the collet into the nut, turn the collet slightly. Push it into the nut at the offered direction evenly when the offset flange sinks into the undercut of the collet.
- ◎ Fix the nut and the collet on the spindle rotate the nut until the collet is in pressing, wipe the straight shank of cutter, and insert it into the pilot hole. Tighten the nut with a wrench till the cutter is clamped heavily (Caution: never tighten the nut without cutter in it for it will break).
- ◎ When changing the tool. Loosen the nut and it shall bring out the collet and the cutter together. And then draw the cutter out push out slightly the collet in the offered direction, it shall be ready for any change of the cutter.

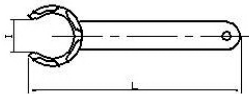
高精度ER铣夹头系列 HIGH ACCURACY ER MILLING CHUCK SERIES

CD0104-01 ER扳手 ER SPANNER

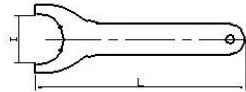
A Type



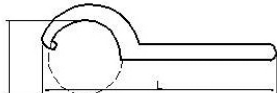
M Type



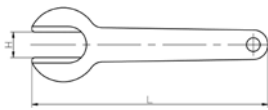
UM Type



S Type



MR Type



G Type



◆ER扳手材质:

45#或 65Mn等;

◆ER扳手热处理硬度:

40-45HRC;

◆ER扳手外观做喷砂涂层处理;

◆Material:

45#or 65Mn;

◆ER spanner Heat treatment hardness:

40-45HRC;

◆ER spanner appearance do sandblasting coating processing.

型 式 Type	型号 Model No.	l	L	适用螺帽 Nut
A	ER11A	17	110	ER11-A
	ER16A	25	120	ER16-A
	ER20A	30	130	ER20-A
M	ER8M	7.5	70	ER8-M
	ER11M	11	90	ER11-M
	ER16M	15	110	ER16-M
	ER20M	19.5	120	ER20-M
	ER25M	25	130	ER25-M
UM	ER16UM	26	180	ER16-UM
	ER20UM	30	190	ER20-UM
	ER25UM	37	210	ER25-UM
	ER32UM	46.5	250	ER32-UM
	ER40UM	58	290	ER40-UM
	ER50UM	74	350	ER50-UM
S	S/ER25	45-52	167	ER25-UM
	S/ER32	55-62	190	ER32-UM
	S/ER40	68-72	215	ER40-UM
	S/ER50	78-85	262	ER50-UM
MS	ER11MS	10	100	ER11MS
	ER16MS	15	135	ER16MS
	ER20MS	18	160	ER20MS
	ER25MS	23	180	ER25MS
G	GER16	30	150	ER16-G
	GER20	35	160	ER20-G
	GER25	40	181	ER25-G
	GER32	50	200	ER32-G

高速、高精度、高寿命**CSK**筒夹系列

High speed high accuracy high durability **CSK** collet chucks



刀柄动平衡检测
accuracy dynamic balance

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

精度3 μ/5 μ
Integrated
precision
3 μ/5 μ



高速CSK筒夹综合特点

- ◎材质: SUJ2;
- ◎硬度: 46-50HRC;
- ◎筒夹锥前面的凸台设计, 工作中不易进入粉尘、切屑, 延长了使用寿命;
- ◎内孔、外圆及端面精密研磨, 可达Ra0.4;
- ◎表面“环保”特殊涂层处理, 提高表面硬度、耐磨性, 提高清洁度, 精度更稳定, 表面更光滑, 防锈、防腐蚀效果更好, 手感更舒适, 外型更美观;
- ◎筒夹8°的锥角设计, 更具有夹持力, 提高抗震性能。

Comprehensive features of CSK High speed collet

- ◎Material:SUJ2;
- ◎Hardness:HRC46-50;
- ◎The design of the convex platform in front of the collet can prevent dust and chip getting into the collet when processing, prolong the tool's life;
- ◎End and the cylindrical are grinding for many times, can reach Ra0.4,has a mirror effect;
- ◎Surface" environmental protection", special coating surface treatment, improve the hardness and endurance of the surface, cleanliness better, accuracy stable, surface more smooth, antirust, feel comfortable, appearance nice;
- ◎The design of 8 ° collet, more clamping force, to improve seismic performance.

》》》 精湛的加工/工艺 Superb machining technology

*深冷处理

- 1、-196℃超长深冷处理, 使接近全部的残余奥氏体转变为马氏体;
- 2、析出的纳米级碳化物颗粒, 增加硬度和韧性;
- 3、减少残余应力;
- 4、耐磨性显著提高。

*Cryogenic treatment

- 1.-196℃ long cryogenic, nearly all of the residual austenite into martensite;
2. Carbide precipitation of Nanoscale particles, increasing the hardness and toughness;
3. Reducing residual stresses;
4. Wear resistance significantly improved.

*时效处理

- * ≥ 超长定型热时效去除磨加工时的残余内应力。

* Thermal aging processing

- ≥ long stereotyped thermal limitation removal of grinding residual stress.



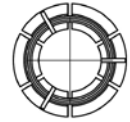
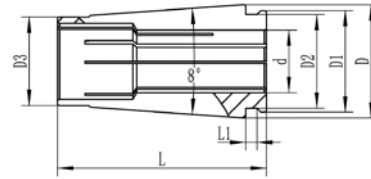
深冷处理 (Cryogenic treatment)



时效处理 (Thermal aging processing)

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

CD0201-01 CSK高速筒夹 CSK HIGH SPEED COLLET



型号 Model No.	d	D	D1	D2	D3	L	L1
CSK06	<3	10.25	8.6	7.6	7.5	25	2.2
	3-6	10.4	8.9				
CSK10	<3	15.3	13	11.9	12	30.5	2.4
	3-10	15.46	13.4				
CSK13	3-13	19.97	17.05	15.1	15.5	39	2.4
CSK16	2-16	24.54	20.85	19	18.8	45	2.5
CSK20	4-16	29.1	24.95	23	22.6	54	2.9
CSK25	4-25	35.7	30.2	28.5	28.9	57	3

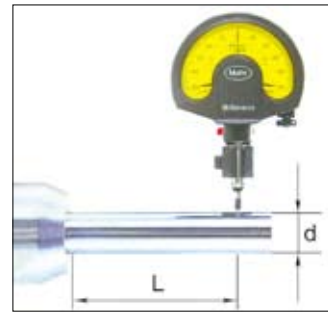
- ◎ 材质: SUJ2
- ◎ 硬度: 46-50HRC
- ◎ 筒夹8° 锥角设计, 具有更强的夹持力, 稳定的夹持力度
- ◎ Material :SUJ2
- ◎ Hardness:46-50HRC
- ◎ The design of 8° collet, more clamping force, to improve seismic performance.

CSK06		CSK10		CSK13		CSK16		CSK20		CSK25	
型号 Model No.	范围 Range	型号 Model No.	范围 Range	型号 Model No.	范围 Range	型号 Model No.	范围 Range	型号 Model No.	范围 Range	型号 Model No.	范围 Range
CSK06-2	2-1.75	CSK10-1	1-0.75	CSK13-3	3-2.75	CSK16-2	2-1.75	CSK20-4	4-3.5	CSK25-6	6-6.5
CSK06-2.5	2.5-2.25	CSK10-2	2-1.75	CSK13-3.5	3.5-3	CSK16-3	3-2.75	CSK20-4.5	4.5-4	CSK25-8	8-7.5
CSK06-3	3-2.75	CSK10-2.5	2.5-2.25	CSK13-4	4-3.5	CSK16-3.175	3.175-2.7	CSK20-5	5-5.5	CSK25-10	10-9.5
CSK06-3.5	3.5-3	CSK10-3	3-2.75	CSK13-4.5	4.5-4	CSK16-3.5	3.5-3	CSK20-5.5	5.5-5	CSK25-12	12-11.5
CSK06-4	4-3.5	CSK10-3.175	3.175-2.7	CSK13-5	5-4.5	CSK16-4	4-3.5	CSK20-6	6-5.5	CSK25-14	14-13.5
CSK06-4.5	4.5-4	CSK10-3.5	3.5-3	CSK13-5.5	5.5-5	CSK16-4.5	4.5-4	CSK20-6.5	6.5-6	CSK25-16	16-15.5
CSK06-5	5-4.5	CSK10-4	4-3.5	CSK13-6	6-5.5	CSK16-5	5-4.5	CSK20-7	7-6.5	CSK25-16.5	16.5-16
CSK06-5.5	5.5-5	CSK10-4.5	4.5-4	CSK13-6.5	6.5-6	CSK16-5.5	5.5-5	CSK20-7.5	7.5-7	CSK25-17	17-16.5
CSK06-6	6-5.5	CSK10-5	5-4.5	CSK13-7	7-6.5	CSK16-6	6-5.5	CSK20-8	8-7.5	CSK25-17.5	17.5-17
		CSK10-5.5	5.5-5	CSK13-7.5	7.5-7	CSK16-6.5	6.5-6	CSK20-8.5	8.5-8	CSK25-18	18-17.5
		CSK10-6	6-5.5	CSK13-8	8-7.5	CSK16-7	7-6.5	CSK20-9	9-8.5	CSK25-18.5	18.5-18
		CSK10-6.5	6.5-6	CSK13-8.5	8.5-8	CSK16-7.5	7.5-7	CSK20-9.5	9.5-9	CSK25-19	19-18.5
		CSK10-7	7-6.5	CSK13-9	9-8.5	CSK16-8	8-7.5	CSK20-10	10-9.5	CSK25-19.5	19.5-19
		CSK10-7.5	7.5-7	CSK13-9.5	9.5-9	CSK16-8.5	8.5-8	CSK20-10.5	10.5-10	CSK25-20	20-19.5
		CSK10-8	8-7.5	CSK13-10	10-9.5	CSK16-9	9-8.5	CSK20-11	11-10.5	CSK25-20.5	20.5-20
		CSK10-8.5	8.5-8	CSK13-10.5	10.5-10	CSK16-9.5	9.5-9	CSK20-11.5	11.5-11	CSK25-21	21-20.5
		CSK10-9	9-8.5	CSK13-11	11-10.5	CSK16-10	10-9.5	CSK20-12	12-11.5	CSK25-21.5	21.5-21
		CSK10-9.5	9.5-9	CSK13-11.5	11.5-11	CSK16-10.5	10.5-10	CSK20-12.5	12.5-12	CSK25-22	22-21.5
		CSK10-10	10-9.5	CSK13-12	12-11.5	CSK16-11	11-10.5	CSK20-13	13-12.5	CSK25-22.5	22.5-22
				CSK13-12.5	12.5-12	CSK16-11.5	11.5-11	CSK20-13.5	13.5-13	CSK25-23	23-22.5
				CSK13-13	13-12.5	CSK16-12	12-11.5	CSK20-14	14-13.5	CSK25-23.5	23.5-23
						CSK16-12.5	12.5-12	CSK20-14.5	14.5-14	CSK25-24	24-23.5
						CSK16-13	13-12.5	CSK20-15	15-14.5	CSK25-24.5	24.5-24
						CSK16-13.5	13.5-13	CSK20-15.5	15.5-15	CSK25-25	25-24.5
						CSK16-14	14-13.5	CSK20-16	16-15.5		
						CSK16-14.5	14.5-14	CSK20-16.5	16.5-16		
						CSK16-15	15-14.5	CSK20-17	17-16.5		
						CSK16-15.5	15.5-15	CSK20-17.5	17.5-17		
						CSK16-16	16-15.5	CSK20-18	18-17.5		
								CSK20-18.5	18.5-18		
								CSK20-19	19-18.5		
								CSK20-19.5	19.5-19		
								CSK20-20	20-19.5		

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

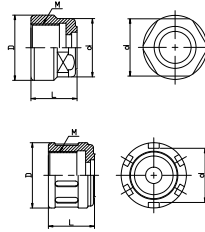
精度检测: Inspection of Accuracy

L	筒夹等级 Class	径向跳动精度 Run out
4xd	A级 (A class)	$\leq 8 \mu$
	AA级 (AA class)	$\leq 5 \mu$
	AAA级 (AAA class)	$\leq 3 \mu$



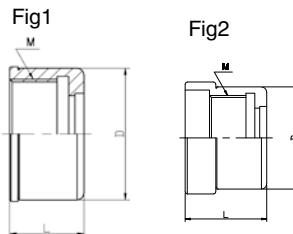
CD0202-01 CSK螺帽 CSK NUT

型号 Model No.	L	D	d	M
CSK6	15	20	18.1	M15.5X1
CSK10	17	28	25.4	M21.5X1
CSK13	21	37	32	M28X1.5
CSK16	24	40	35	M32X1.5
CSK20	27	48	43	M40X1.5
CSK25	30	55	50	M45X1.5

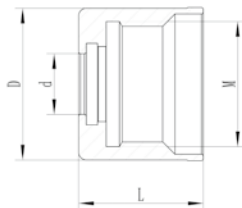


CD0202-02 GSK高速无键槽螺帽 GSK HIGH SPEED NUT WITHOUT KEYWAY

型号 Model No.	L		D	M
	Fig1	Fig2		
GSK6	15	21	19.5	M15.5X1
GSK10	17	24	27.1	M21.5X1
GSK13	21	28	33	M28X1.5
GSK16	24	31	40	M32X1.5
GSK20	27	35	48	M40X1.5
GSK25	30	37	55	M45X1.5



CD0202-03 GSKP防尘螺帽



◇防尘螺帽的特点:

- 1、螺帽前端面增加防尘端盖,且螺帽前端孔径与刀具柄径较紧密性配合,防止铁屑、灰尘、切削液,从前端进入筒夹内槽;避免装、卸刀具时破坏螺帽及刀柄的螺纹;
- 2、螺帽后端带保护带的设计,与刀柄配合连接,防止铁屑、灰尘、切削液,从后面进入筒夹内槽,避免装、卸刀具时破坏螺帽及刀柄的螺纹;
- 3、防尘螺帽的全圆设计,旋转无风阻,有利于动平衡,适合于高速加工。

◇Dust-proof nut features:

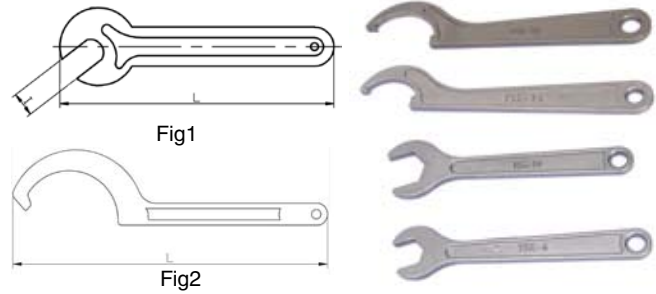
1. Nut end increase the dust cover, and nut front-end aperture with tool handle via a tightness, more proof iron filings, dust, cutting fluid into the collet slot from the front; To avoid damage nut and handle screw thread when loading and unloading of the cutting tool;
2. nut back-end with the design of the protection zone, cooperate with the handle connection, prevent the iron filings and dust, cutting fluid, into the collet slot from behind, To avoid damage nut and handle screw thread when loading and unloading of the cutting tool;
3. Dustproof nut all round design, rotate without wind resistance, be helpful for dynamic balance, suitable for high speed machining.

型号 Model No.	d	D	L	M
GSKP6	2, 3, 4, 5, 6	19.5	23	M15.5X1
GSKP10	2,3,4,6,8,10	27.1	26	M21.5X1
GSKP13	3,4,5,6,8,10,12	33	30	M28X1.5
GSKP16	3,4,5,6,8,10,12,14,16	40	33	M32X1.5
GSKP20	3,4,5,6,8,10,12,14,16,18,20	50	37	M40X1.5
CSKP25	6,8,10,12,14,16,18,20,24,25	55	39	M45X1.5

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

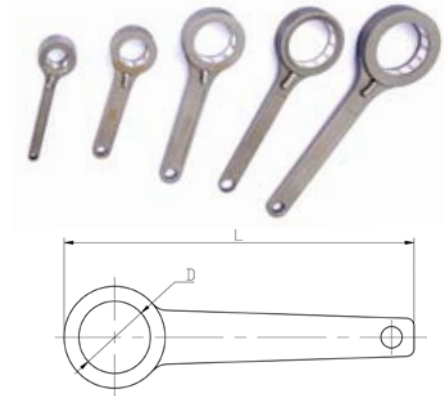
CD0203-01 TSK扳手 TSK SPANNER

型号 Model No.	规格 Type	L	Fig
TSK6	18.1	90	1
TSK10	25.4	142	
TSK16	38-42	167	2
TSK20	48-52	200	
TSK25	55-62	214	



CD0203-02 GSK滚珠扳手 GSK BALL SPANNER

型号 Model No.	D	L
GSK06	19.5	120
GSK10	27.1	130
GSK13	33	140
GSK16	40	193
GSK20	48	200
GSK25	55	210



CD0204-01 CSK高速筒夹套装 CSK HIGH SPEED COLLET SET

型号 Model No.	规格 Type
CSK10-8PCS	3,4,5,6,7,8,9,10
CSK10-17PCS	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
CSK13-8PCS	3, 4, 5, 6, 8, 10, 12, 13,
CSK16-7PCS	3,4,6,8,10,12,16
CSK16-27PCS	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
CSK16-14PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16
CSK20-11PCS	3, 4, 5, 6,8, 10, 12, 14, 16, 18, 20
CSK25-7PCS	6,8,10,12,16,20,25
CSK25-11PCS	6,8,10,12,14,16,18,20,22,24,25



- ◎ 请于订购时注明A级、AA级或AAA级：例如：CSK16-6AA
- ◎ 筒夹直径小于3mm,夹持范围为0.25mm.直径大于3mm则为0.5mm
- ◎ 订购时，请注明使用木盒、铝合金盒或塑料盒。
- ◎ When ordering,please specify the GRADE for sk collets is A、AA or AAA TYPE.For example: CSK16-6AA
- ◎ The GRIPPING RANGE OF DIA BELOW 3mm is 0.25mm. The GRIPPING RANGE OF DIA OVER 3mm is 0.50mm
- ◎ When ordering,please specify use wooden,aluminum or plastic case.

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES



CSK高速刀柄综合检测特点:

- ◆7:24锥度精度 \leq AT3均在Diebold的标准检具上一次检测完成;
- ◆夹持的内锥面由高速内孔磨床磨削,并用标准的汽动测量仪检测,大端接触面积率在90%以上;
- ◆刀柄螺纹用4h级的螺纹环规检测,螺帽用4H级的螺纹塞规检测,通端通,止端止;
- ◆刀柄本体内锥跳动 (Run-out) : \leq 0.002mm(刀柄长度在100L内);
- ◆同轴度5u: 刀柄径跳 \leq 0.002mm,装入 \leq 0.005mm的筒夹,测出的综合径跳为最高点不超过0.005mm(\leq 0.005mm的筒夹与刀柄任意装夹互换综合径跳最高点不超过0.005mm);
- ◆动平衡: 根据需要可做G2.5 20000~50000rpm。

Comprehensive inspection way of chuck

- ◆7:24 taper precision \leq AT3 and part of the standard size are tested by Diebold standard inspection tools which made in Germany;
 - ◆Surface of the clamping inner hole is grinding by high speed Inner-aperture grinder, and inspect by standard pneumatic measurement instrument; the big end contact area rate is above 90%;
 - ◆Shank thread is inspected with 4h level thread ring gauge, and the nut is inspected with 4H level thread plug gauge, the quality guaranteed;
 - ◆Run out of the inside shank cone: \leq 0.002 (The length of the shank 100L) ;
 - ◆Coaxiality 5u: Shank run out \leq 0.002;
- Equip collet \leq 0.005, The highest comprehensive run out point is no more than0.005(\leq 0.005mm collet clamping interchangeable with any integrated shank run out does not exceed the highest accuracy 0.005 mm);
- ◆Dynamic balance: We can do G2.5 20000~50000rpm according to clients' demands.

》》》 刀/柄/综/合/检/测 Comprehensive inspection way of chuck



同轴度 (综合精度) 检测
Inspection of coaxial degree
(overall accuracy)



7: 24锥检具图(德国Diebold刀柄检具)
Picture of 7:24 taper inspection tool
(German Diebold collet chuck inspection tool)

锥柄形式 Taper	筒夹 collet	工作长度 L					
		L \leq 100			100 < L \leq 150		
BT/SK/ CAT	5 μ	刀柄内锥 collet chuck inner cone	综合 Comprehensive	等级 Class	刀柄内锥 collet chuck inner cone	综合 Comprehensive	等级 Class
30		3 μ	\leq 8 μ	A	3 μ	\leq 8 μ	A
		2 μ	\leq 8 μ	A	2 μ	\leq 8 μ	A
40	CSK06/10/16 /13/20/25		\leq 5 μ	AA	2 μ	\leq 5 μ	AA
		3 μ	\leq 8 μ	A	3 μ	\leq 8 μ	A
50		2 μ	\leq 8 μ	A	2 μ	\leq 8 μ	AA
			\leq 5 μ	AA	3 μ	\leq 8 μ	AA
50		3 μ	\leq 8 μ	A	4 μ	\leq 10 μ	A
		2 μ	\leq 8 μ	A	3 μ	\leq 10 μ	A

注: 其它刀柄锥度形式等级一般可按30刀柄的精度等级执行, 特殊要求可订制。
Note: Special requirements can be custom-made

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES



CSK高速刀柄外观：涂层或抛光涂层

- ◆表面粗糙度得到降低，精度稳定性提高
刀柄表面凹凸不平的纹理，经过抛光后，表面粗糙度得以整平，获得平滑光亮的表面。同时填充表面毛孔、划痕以及其它表面缺陷，从而提高疲劳强度、增加耐腐蚀力。
- ◆抛光涂层刀柄不影响精度
抛光刀柄表面进行镀镍-磷表面处理，镍层厚度均匀，化学镀液的分散程度几乎100%，镀层薄，单边在3u~5u，这种特殊覆膜可防止主轴异常磨损，不影响产品精度。
- ◆防腐性、耐磨性、耐腐蚀性得到提高
化学镀镍的结合力强，硬度得到提高，在酸、碱、氨、盐等不同的介质环境中具有很好的防锈效果。
- ◆外观光亮、圆滑，手感好，外观更漂亮

Special Surface Treatment: environmental protection and anti-rust

- ◆Don't influence precision
Chuck surface is nickel coated, the nickel layer is evenly, nickel layer is thin, thickness is about 3u~5u, this special coating can reduce Spindle abnormal wear and tear, Don't influence precision.
- ◆Special surface: environmental protection and anti-rust;
- ◆Anti-rust, anti-corrosion, durability better.
- ◆Nickel coating adhesion strong, enhance hardness, and anti-rust better in different surroundings, such as acid, alkali, ammonia, salt etc.
- ◆Surface nice
- ◆Improve cleanness, precision more stable, surface more smooth, feel more comfortable and appearance nicer.
- ◆Environmental protection, without magnetic, non-toxic.

》》》 特/殊/防/锈/处/理 Special anti-rust treatment

- ◆包括内外锥在内，整体进行了抛光涂层处理，不进行防锈保养也不会生锈，对加工精度及主轴无不利影响。
- ◆Overall nickel coating, including inside and outside cone, even if you do not take any anti-rust actions, it will not rust either, don't influence processing precision and spindle.



抛光涂层处理

Products Polish with chemical nickel coating

》》》 其/它/公/司/常/规/产/品 Other companys products

- ◆普通产品疏于防锈维护，几天便会生锈，导致加工精度降低、对刀柄、主轴造成不利影响。
- ◆若锥部生锈，则刀尖跳动精度扩大到0.01~0.02。
- ◆The products without coating is easy to rust, reduce processing precision, influence the chuck and spindle.
- ◆If the shank rust, insert run-out will enlarge to 0.01~0.02.



未特殊防锈处理

Products without specitied anti-rust treatment

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

CSK高速刀柄外观综合特点:

- ◆材质20CrMnTi或SCM415;
- ◆硬度 $58 \pm 2\text{HRC}$;
- ◆渗碳深 > 0.8 ;
- ◆表面粗糙度: $Ra < 0.4\mu$;

Comprehensive inspection way of chuck

- ◆Material: 20CrMnTi or SCM415;
- ◆Hardness: $58 \pm 2\text{HRC}$;
- ◆Carbon depth > 0.8 ;
- ◆Roughness: $Ra < 0.4\mu$;



保护带间隙变小, 防止粉尘、铁屑和其它杂物入侵夹头又保护了螺纹。

Minimize the gap of the protection band, prevent dust, chips and others get into the collet, and protect the thread as well.

研磨后光滑外观提升动平衡性能:
G2.5-Max.50000rpm

Smooth appearance improve dynamic balance performance G2.5-Max.50000rpm.

》》》 精湛的加工/工艺 Superb machining technology

*深冷处理

- 1、-196℃超长深冷处理, 使接近全部的残余奥氏体转变为马氏体;
- 2、析出的纳米级碳化物颗粒, 增加硬度和韧性;
- 3、减少残余应力;
- 4、耐磨性显著提高。

*Cryogenic treatment

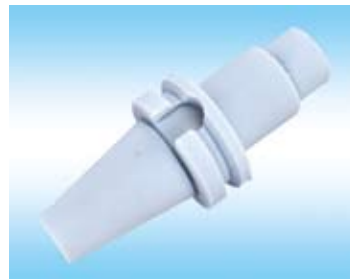
- 1.-196℃ long cryogenic, nearly all of the residual austenite into martensite;
2. Carbide precipitation of Nanoscale particles, increasing the hardness and toughness;
3. Reducing residual stresses;
4. Wear resistance significantly improved.

*时效处理

*超长定型热时效去除磨加工时的残余内应力。

* Thermal aging processing

long stereotyped thermal limitation removal of grinding residual stress.



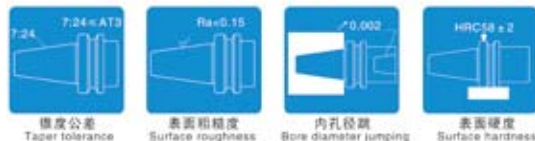
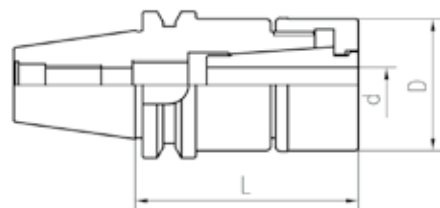
深冷处理 (Cryogenic treatment)



时效处理 (Thermal aging processing)

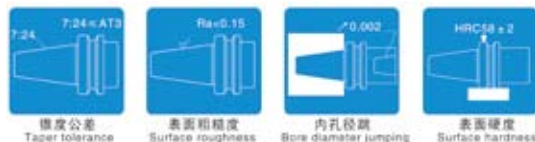
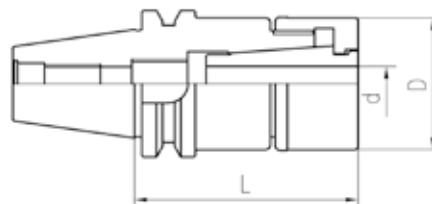
CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

CD0205-01 ST-GSK刀柄 ST-GSK CHUCK



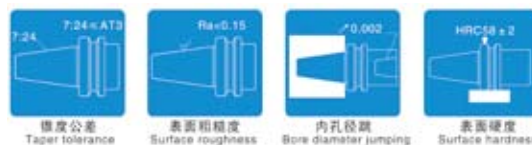
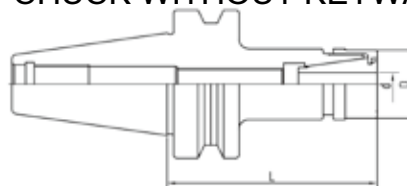
型号 Model No.	d	D	L	动平衡balanceG2.5	筒夹collet	螺帽nut	扳手 spanner
S15T-GSK06-45	2-6	19.5	45	3000rpm	CSK06	GSK06	GSK06
S20T-GSK06-45	2-6	19.5	45	3000rpm	CSK06	GSK06	GSK06
S20T-GSK10-45	1-10	27.1	45	3000rpm	CSK10	GSK10	GSK10
S20T-GSK10-60	1-10	27.1	60	3000rpm	CSK10	GSK10	GSK10
S20T-GSK13-45	2-13	33	45	3000rpm	CSK13	GSK13	GSK13
S20T-GSK13-60	2-13	33	60	3000rpm	CSK13	GSK13	GSK13
S20T-GSK16-60	2-16	40	60	3000rpm	CSK16	GSK16	GSK16

CD0205-02 ISO-GSK刀柄 ISO-GSK CHUCK



型号 Model No.	d	D	L	动平衡balanceG2.5	筒夹collet	螺帽nut	扳手 spanner
ISO20-GSK06-45	2-6	19.5	45	3000rpm	CSK06	GSK06	GSK06
ISO20-GSK10-45	1-10	27.1	45	3000rpm	CSK10	GSK10	GSK10
ISO20-GSK10-60	1-10	27.1	60	3000rpm	CSK10	GSK10	GSK10
ISO25-GSK10-45	1-10	27.1	45	3000rpm	CSK13	GSK13	GSK13

CD0205-03 BT30-GSK高速无键槽刀柄 BT30-GSK HIGH SPEED COLLET CHUCK WITHOUT KEYWAY

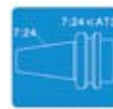
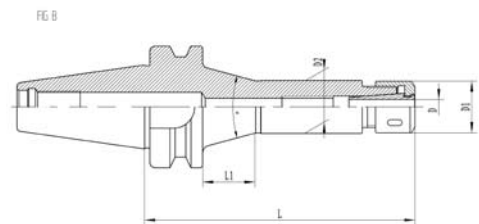
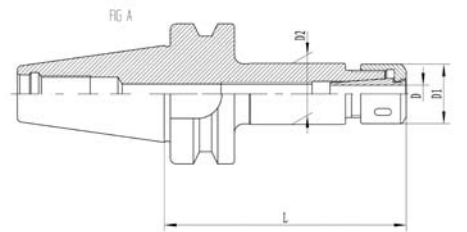


型号 Model No.	d	D	L	动平衡 balanceG2.5	筒夹collet	螺帽nut	扳手 spanner
BT30-GSK06-45	2-6	19.5	45	3000rpm	CSK06	GSK06	GSK06
BT30-GSK06-60	2-6	19.5	60	3000rpm	CSK06	GSK06	GSK06
BT30-GSK10-45	1-10	27.1	45	3000rpm	CSK10	GSK10	GSK10
BT30-GSK10-60	1-10	27.1	60	3000rpm	CSK10	GSK10	GSK10
BT30-GSK13-45	2-13	38	45	3000rpm	CSK13	GSK13	GSK13
BT30-GSK13-60	2-13	38	60	3000rpm	CSK13	GSK13	GSK13
BT30-GSK16-60	2-16	40	60	3000rpm	CSK16	GSK16	GSK16

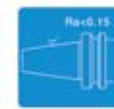
CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

CD0205-04 BT-CSK高转速精密筒夹刀柄 BT-CSK HIGH SPEED COLLET CHUCK

型号 Model No.	D	L	L1	D1	α	COLLET	FIG	KGS
BT30-CSK6-60	2~6	60	-	19.5	-	CSK6	A	0.7
BT30-CSK6-90		90	-		-		A	0.7
BT30-CSK6-120		120	20		30°		B	0.8
BT30-CSK10-45	1~10	45	-	27.5	-	CSK10	A	0.8
BT30-CSK10-60		60	-		-		A	0.9
BT30-CSK10-75		75	-		-		A	1.0
BT30-CSK10-90		90	-		-		A	1.0
BT30-CSK10-120		120	-		-		A	1.1
BT30-CSK13-60	3~13	60	-	37	-	CSK13	A	1.1
BT30-CSK16-60	2~16	60	-	40	-	CSK16	A	1.1
BT30-CSK16-75		75	-		-		A	1.2
BT30-CSK16-90		90	-		-		A	1.2
BT30-CSK16-120		120	-		-		A	1.3
BT30-CSK20-60	4~20	60	-	48	-	CSK20	A	0.7
BT30-CSK20-75		75	-		-		A	0.9
BT30-CSK20-90		90	-		-		A	1.2
BT30-CSK25-90	6~25	90	-	55	-	CSK25	A	1.5
BT40-CSK6-60	2~6	60	-	19.5	-	CSK6	A	1.0
BT40-CSK6-90		90	-		-		A	1.1
BT40-CSK6-120		120	30		30°		B	1.4
BT40-CSK6-150		150	30		30°		B	1.5
BT40-CSK10-60	1~10	60	-	27.5	-	CSK10	A	1.1
BT40-CSK10-75		75	-		-		A	1.2
BT40-CSK10-90		90	-		-		A	1.2
BT40-CSK10-120		120	30		30°		B	1.4
BT40-CSK10-150		150	30		30°		B	1.6
BT40-CSK10-180		180	30		30°		B	1.6
BT30-CSK13-90	3~13	90	-	37	-	CSK13	A	1.3
BT30-CSK13-120		120	-		-		A	1.5
BT40-CSK13-60		60	-		-		A	1.3
BT40-CSK13-90		90	-		-		A	1.5
BT40-CSK16-60	2~16	60	-	40	-	CSK16	A	1.3
BT40-CSK16-75		75	-		-		A	1.4
BT40-CSK16-90		90	-		-		A	1.5
BT40-CSK16-120		120	-		-		A	1.7
BT40-CSK16-150		150	-		-		A	1.9
BT40-CSK16-180		180	-		-		A	2.0
BT40-CSK20-60	4~20	60	-	48	-	CSK20	A	1.3
BT40-CSK20-75		75	-		-		A	1.4
BT40-CSK20-90		90	-		-		A	1.6
BT40-CSK20-120		120	-		-		A	2.0
BT40-CSK25-75	6~25	75	-	55	-	CSK25	A	1.7
BT40-CSK25-90		90	-		-		A	1.8
BT40-CSK25-120		120	-		-		A	2.0
BT50-CSK6-105	2~6	105	-	19.5	-	CSK6	A	3.8
BT50-CSK6-135		135	30		30°		B	3.9
BT50-CSK6-165		165	30		30°		B	4.0
BT50-CSK6-200		200	30		30°		B	4.2
BT50-CSK10-105	1~10	105	-	27.5	-	CSK10	A	4.2
BT50-CSK10-135		135	-		-		A	4.4
BT50-CSK10-165		165	30		30°		B	4.6
BT50-CSK10-200		200	30		30°		B	4.8
BT50-CSK10-225		225	30		30°		B	5.0
BT50-CSK16-105	2~16	105	-	40	-	CSK16	A	4.7
BT50-CSK16-135		135	-		-		A	4.9
BT50-CSK16-165		165	30		30°		B	5.1
BT50-CSK16-200		200	30		30°		B	5.5
BT50-CSK20-105	4~20	105	-	48	-	CSK20	A	4.3
BT50-CSK20-135		135	-		-		A	4.6
BT50-CSK20-165		165	-		-		A	5.0
BT50-CSK20-200		200	-		-		A	5.4
BT50-CSK25-105	6~25	105	-	55	-	CSK25	A	5.2
BT50-CSK25-135		135	-		-		A	5.4
BT50-CSK25-165		165	-		-		A	5.6
BT50-CSK25-225		225	-		-		A	6.0



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping



表面硬度
Surface hardness

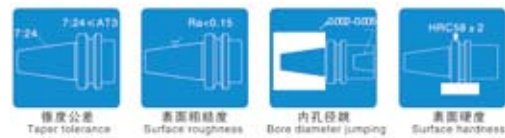
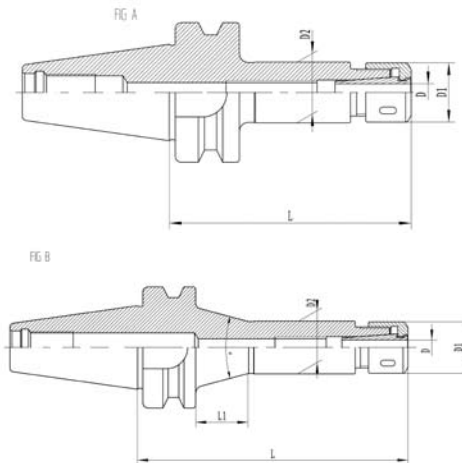
- ◎ 锥度精度: \leq AT3
- ◎ 基本材质: 20CrMnTi/SCM415
- ◎ 硬度: 56~60HRC
- ◎ 渗碳深度: $>$ 0.8mm
- ◎ 刀柄精做动平衡G2.5 20000rpm

- ◎ Precision taper: \leq AT3
- ◎ Material: 20CrMnTi/SCM415
- ◎ Hardness: 56~60HRC
- ◎ Carbon Depth: $>$ 0.8mm
- ◎ Shank dynamic balance standard: G2.5 20000rpm

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

0205-05 SK/DIN69871) /CAT(ANSI B5.50)- CSK高转速精密筒夹刀柄
 SK/DIN69871) /CAT(ANSI B5.50)- CSK HIGH SPEED COLLET CHUCK

型号 Model No.	D	L	L1	D1	α	COLLET	FIG	KGS
SK/CAT30-CSK6-60	2-6	60	-	19.5	-	CSK6	A	0.7
SK/CAT30-CSK6-90		90	-		-		A	0.7
SK/CAT30-CSK6-120		120	20		30°		B	0.8
SK/CAT30-CSK10-45	1-10	45	-	27.5	-	CSK10	A	0.8
SK/CAT30-CSK10-60		60	-		-		A	0.9
SK/CAT30-CSK10-75		75	-		-		A	1.0
SK/CAT30-CSK10-90		90	-		-		A	1.0
SK/CAT30-CSK10-120		120	-		-		A	1.1
SK/CAT30-CSK13-60	3-13	60	-	37	-	CSK13	A	1.1
SK/CAT30-CSK13-90		90	-		-		A	1.3
SK/CAT30-CSK13-120		120	-		-		A	1.5
SK/CAT30-CSK16-60	2-16	60	-	40	-	CSK16	A	1.1
SK/CAT30-CSK16-75		75	-		-		A	1.2
SK/CAT30-CSK16-90		90	-		-		A	1.2
SK/CAT30-CSK16-120		120	-		-		A	1.3
SK/CAT30-CSK20-60	4-20	60	-	48	-	CSK20	A	0.7
SK/CAT30-CSK20-75		75	-		-		A	0.9
SK/CAT30-CSK20-90		90	-		-		A	1.2
SK/CAT30-CSK25-90	6-25	90	-	55	-	CSK25	A	1.5
SK/CAT40-CSK6-60	2-6	60	-	19.5	-	CSK6	A	1.0
SK/CAT40-CSK6-90		90	-		-		A	1.1
SK/CAT40-CSK6-120		120	30		30°		B	1.4
SK/CAT40-CSK6-150		150	30		30°		B	1.5
SK/CAT40-CSK10-60	1-10	60	-	27.5	-	CSK10	A	1.1
SK/CAT40-CSK10-75		75	-		-		A	1.2
SK/CAT40-CSK10-90		90	-		-		A	1.2
SK/CAT40-CSK10-120		120	30		30°		B	1.4
SK/CAT40-CSK10-150		150	30		30°		B	1.6
SK/CAT40-CSK10-180		180	30		30°		B	1.6
SK/CAT40-CSK13-60	2-16	60	-	40	-	CSK16	A	1.3
SK/CAT40-CSK13-90		90	-		-		A	1.5
SK/CAT40-CSK16-60		60	-		-		A	1.3
SK/CAT40-CSK16-75	75	-	-	A	1.4			
SK/CAT40-CSK16-90	90	-	-	A	1.5			
SK/CAT40-CSK16-120	120	-	-	A	1.7			
SK/CAT40-CSK16-150	150	-	-	A	1.9			
SK/CAT40-CSK16-180	180	-	-	A	2.0			
SK/CAT40-CSK20-60	4-20	60	-	48	-	CSK20	A	1.3
SK/CAT40-CSK20-75		75	-		-		A	1.4
SK/CAT40-CSK20-90		90	-		-		A	1.6
SK/CAT40-CSK20-120	120	-	-	A	2.0			
SK/CAT40-CSK25-75	6-25	75	-	55	-	CSK25	A	1.7
SK/CAT40-CSK25-90		90	-		-		A	1.8
SK/CAT40-CSK25-120		120	-		-		A	2.0
SK/CAT50-CSK6-105	2-6	105	-	19.5	-	CSK6	A	3.8
SK/CAT50-CSK6-135		135	30		30°		B	3.9
SK/CAT50-CSK6-165		165	30		30°		B	4.0
SK/CAT50-CSK6-200		200	30		30°		B	4.2
SK/CAT50-CSK10-105	1-10	105	-	27.5	-	CSK10	A	4.2
SK/CAT50-CSK10-135		135	-		-		A	4.4
SK/CAT50-CSK10-165		165	30		30°		B	4.6
SK/CAT50-CSK10-200		200	30		30°		B	4.8
SK/CAT50-CSK10-225		225	30		30°		B	5.0
SK/CAT50-CSK16-105	2-16	105	-	40	-	CSK16	A	4.7
SK/CAT50-CSK16-135		135	-		-		A	4.9
SK/CAT50-CSK16-165		165	30		30°		B	5.1
SK/CAT50-CSK16-200		200	30		30°		B	5.5
SK/CAT50-CSK20-105	4-20	105	-	48	-	CSK20	A	4.3
SK/CAT50-CSK20-135		135	-		-		A	4.6
SK/CAT50-CSK20-165		165	-		-		A	5.0
SK/CAT50-CSK20-200		200	-		-		A	5.4
SK/CAT50-CSK25-105	6-25	105	-	55	-	CSK25	A	5.2
SK/CAT50-CSK25-135		135	-		-		A	5.4
SK/CAT50-CSK25-165		165	-		-		A	5.6
SK/CAT50-CSK25-225		225	-		-		A	6.0



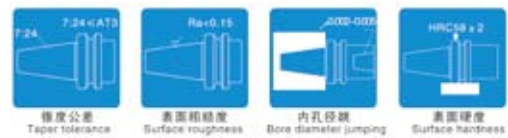
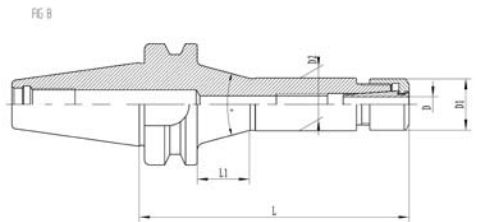
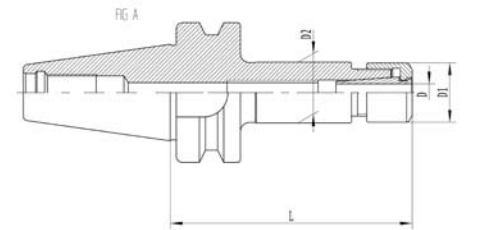
- ◎ 锥度精度: $\leq AT3$
- ◎ 基本材质: 20CrMnTi/SCM415
- ◎ 硬度: 56-60HRC
- ◎ 渗碳深度: $>0.8\text{mm}$
- ◎ 刀柄精做动平衡G2.5 20000rpm

- ◎ Precision taper: $\leq AT3$
- ◎ Material: 20CrMnTi/SCM415
- ◎ Hardness: 56-60HRC
- ◎ Carbon Depth: $>0.8\text{mm}$
- ◎ Shank dynamic balance standard: G2.5 20000rpm

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

CD0205-06 BT GSK高转速精密筒夹刀柄
BT GSK HIGH SPEED COLLET CHUCK

型号 Model No.	D	L	L1	D1	α	COLLET	FIG	KGS
BT30-GSK6-60	2~6	60	-	19.5	-	GSK6	A	0.7
BT30-GSK6-90		90	-		-		A	0.7
BT30-GSK6-120		120	20		30°		B	0.8
BT30-GSK10-45	1~10	45	-	27.1	-	GSK10	A	0.8
BT30-GSK10-60		60	-		-		A	0.9
BT30-GSK10-75		75	-		-		A	1.0
BT30-GSK10-90		90	-		-		A	1.0
BT30-GSK10-120		120	-		-		A	1.1
BT30-GSK16-60	2~16	60	-	40	-	GSK16	A	1.1
BT30-GSK16-75		75	-		-		A	1.2
BT30-GSK16-90		90	-		-		A	1.2
BT30-GSK16-120		120	-		-		A	1.3
BT30-GSK20-60	4~20	60	-	48	-	GSK20	A	0.7
BT30-GSK20-75		75	-		-		A	0.9
BT30-GSK20-90		90	-		-		A	1.2
BT30-GSK25-90	6~25	90	-	55	-	GSK25	A	1.5
BT40-GSK6-60	2~6	60	-	19.5	-	GSK6	A	1.0
BT40-GSK6-90		90	-		-		A	1.1
BT40-GSK6-120		120	30		30°		B	1.4
BT40-GSK6-150		150	30		30°		B	1.5
BT40-GSK10-60	1~10	60	-	27.1	-	GSK10	A	1.1
BT40-GSK10-75		75	-		-		A	1.2
BT40-GSK10-90		90	-		-		A	1.2
BT40-GSK10-120		120	30		30°		B	1.4
BT40-GSK10-150		150	30		30°		B	1.6
BT40-GSK10-180		180	30		30°		B	1.6
BT40-GSK16-60	2~16	60	-	40	-	GSK16	A	1.3
BT40-GSK16-75		75	-		-		A	1.4
BT40-GSK16-90		90	-		-		A	1.5
BT40-GSK16-120		120	-		-		A	1.7
BT40-GSK16-150		150	-		-		A	1.9
BT40-GSK16-180		180	-		-		A	2.0
BT40-GSK20-60	4~20	60	-	48	-	GSK20	A	1.3
BT40-GSK20-75		75	-		-		A	1.4
BT40-GSK20-90		90	-		-		A	1.6
BT40-GSK20-120		120	-		-		A	2.0
BT40-GSK25-75	6~25	75	-	55	-	GSK25	A	1.7
BT40-GSK25-90		90	-		-		A	1.8
BT40-GSK25-120		120	-		-		A	2.0
BT50-GSK6-105	2~6	105	-	19.5	-	GSK6	A	3.8
BT50-GSK6-135		135	30		30°		B	3.9
BT50-GSK6-165		165	30		30°		B	4.0
BT50-GSK6-200		200	30		30°		B	4.2
BT50-GSK10-105	1~10	105	-	27.1	-	GSK10	A	4.2
BT50-GSK10-135		135	-		-		A	4.4
BT50-GSK10-165		165	30		30°		B	4.6
BT50-GSK10-200		200	30		30°		B	4.8
BT50-GSK10-225		225	30		30°		B	5.0
BT50-GSK16-105	2~16	105	-	40	-	GSK16	A	4.7
BT50-GSK16-135		135	-		-		A	4.9
BT50-GSK16-165		165	30		30°		B	5.1
BT50-GSK16-200		200	30		30°		B	5.5
BT50-GSK20-105	4~20	105	-	48	-	GSK20	A	4.3
BT50-GSK20-135		135	-		-		A	4.6
BT50-GSK20-165		165	-		-		A	5.0
BT50-GSK20-200		200	-		-		A	5.4
BT50-GSK25-105	6~25	105	-	55	-	GSK25	A	5.2
BT50-GSK25-135		135	-		-		A	5.4
BT50-GSK25-165		165	-		-		A	5.6
BT50-GSK25-225		225	-		-		A	6.0

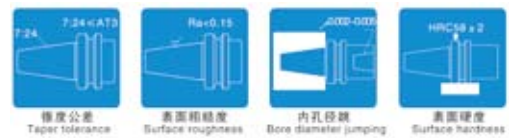
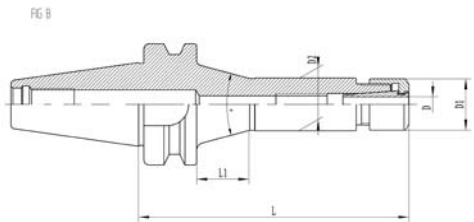
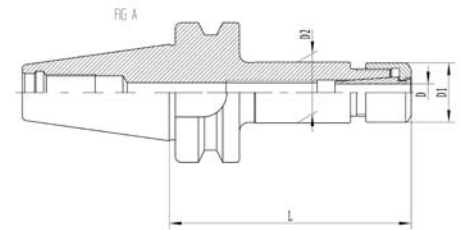


- ◎ 锥度精度: ≤AT3
- ◎ 基本材质: 20CrMnTi/SCM415
- ◎ 硬度: 56-60HRC
- ◎ 渗碳深度: >0.8mm
- ◎ 刀柄精做动平衡G2.5 20000rpm/30000rpm
- ◎ Precision taper: ≤AT3
- ◎ Material: 20CrMnTi/SCM415
- ◎ Hardness: 56-60HRC
- ◎ Carbon Depth: >0.8mm
- ◎ Balancing Grade: G2.5 20000rpm/30000rpm

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

CD0205-07 SK/DIN69871) /CAT(ANSI B5.50) GSK高转速精密筒夹刀柄
 SK(DIN69871) /CAT(ANSI B5.50) GSK HIGH SPEED COLLET CHUCK

型号 Model No.	D	L	L1	D1	α	COLLET	FIG	KGS
SK/CAT30-GSK6-60	2~6	60	-	19.5	-	GSK6	A	0.7
SK/CAT30-GSK6-90		90	-		A		0.7	
SK/CAT30-GSK6-120		120	20		30°		B	0.8
SK/CAT30-GSK10-45	1~10	45	-	27.1	-	GSK10	A	0.8
SK/CAT30-GSK10-60		60	-		A		0.9	
SK/CAT30-GSK10-75		75	-		A		1.0	
SK/CAT30-GSK10-90		90	-		A		1.0	
SK/CAT30-GSK10-120		120	-		A		1.1	
SK/CAT30-GSK16-60	2~16	60	-	40	-	GSK16	A	1.1
SK/CAT30-GSK16-75		75	-		A		1.2	
SK/CAT30-GSK16-90		90	-		A		1.2	
SK/CAT30-GSK16-120		120	-		A		1.3	
SK/CAT30-GSK20-60	4~20	60	-	48	-	GSK20	A	0.7
SK/CAT30-GSK20-75		75	-		A		0.9	
SK/CAT30-GSK20-90		90	-		A		1.2	
SK/CAT30-GSK25-90	6~25	90	-	55	-	GSK25	A	1.5
SK/CAT40-GSK6-60	2~6	60	-	19.5	-	GSK6	A	1.0
SK/CAT40-GSK6-90		90	-		A		1.1	
SK/CAT40-GSK6-120		120	30		30°		B	1.4
SK/CAT40-GSK6-150		150	30		30°		B	1.5
SK/CAT40-GSK10-60	1~10	60	-	27.1	-	GSK10	A	1.1
SK/CAT40-GSK10-75		75	-		A		1.2	
SK/CAT40-GSK10-90		90	-		A		1.2	
SK/CAT40-GSK10-120		120	30		30°		B	1.4
SK/CAT40-GSK10-150		150	30		30°		B	1.6
SK/CAT40-GSK10-180	180	30	30°	B	1.6			
SK/CAT40-GSK16-60	2~16	60	-	40	-	GSK16	A	1.3
SK/CAT40-GSK16-75		75	-		A		1.4	
SK/CAT40-GSK16-90		90	-		A		1.5	
SK/CAT40-GSK16-120		120	-		A		1.7	
SK/CAT40-GSK16-150	150	-	A	1.9				
SK/CAT40-GSK16-180	180	-	A	2.0				
SK/CAT40-GSK20-60	4~20	60	-	48	-	GSK20	A	1.3
SK/CAT40-GSK20-75		75	-		A		1.4	
SK/CAT40-GSK20-90		90	-		A		1.6	
SK/CAT40-GSK20-120		120	-		A		2.0	
SK/CAT40-GSK25-75	6~25	75	-	55	-	GSK25	A	1.7
SK/CAT40-GSK25-90		90	-		A		1.8	
SK/CAT40-GSK25-120		120	-		A		2.0	
SK/CAT50-GSK6-105	2~6	105	-	19.5	-	GSK6	A	3.8
SK/CAT50-GSK6-135		135	30		30°		B	3.9
SK/CAT50-GSK6-165		165	30		30°		B	4.0
SK/CAT50-GSK6-200		200	30		30°		B	4.2
SK/CAT50-GSK10-105	1~10	105	-	27.1	-	GSK10	A	4.2
SK/CAT50-GSK10-135		135	-		A		4.4	
SK/CAT50-GSK10-165		165	30		30°		B	4.6
SK/CAT50-GSK10-200		200	30		30°		B	4.8
SK/CAT50-GSK10-225		225	30		30°		B	5.0
SK/CAT50-GSK16-105	2~16	105	-	40	-	GSK16	A	4.7
SK/CAT50-GSK16-135		135	-		A		4.9	
SK/CAT50-GSK16-165		165	30		30°		B	5.1
SK/CAT50-GSK16-200		200	30		30°		B	5.5
SK/CAT50-GSK20-105	4~20	105	-	48	-	GSK20	A	4.3
SK/CAT50-GSK20-135		135	-		A		4.6	
SK/CAT50-GSK20-165		165	-		A		5.0	
SK/CAT50-GSK20-200		200	-		A		5.4	
SK/CAT50-GSK25-105	6~25	105	-	55	-	GSK25	A	5.2
SK/CAT50-GSK25-135		135	-		A		5.4	
SK/CAT50-GSK25-165		165	-		A		5.6	
SK/CAT50-GSK25-225		225	-		A		6.0	

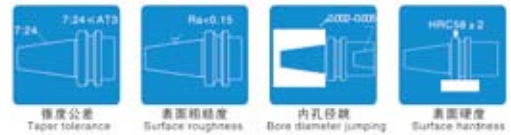
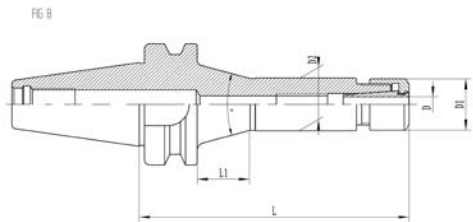
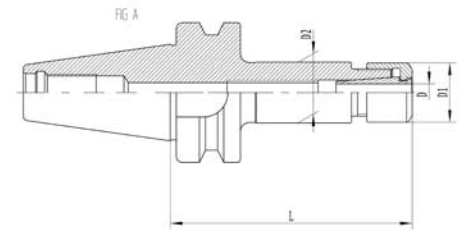


- ◎ 锥度精度: $\leq AT3$
- ◎ 基本材质: 20CrMnTi/SCM415
- ◎ 硬度: 56-60HRC
- ◎ 渗碳深度: $>0.8\text{mm}$
- ◎ 刀柄精做动平衡G2.5 20000rpm/30000rpm
- ◎ Precision taper: $\leq AT3$
- ◎ Material: 20CrMnTi/SCM415
- ◎ Hardness: 56-60HRC
- ◎ Carbon Depth: $>0.8\text{mm}$
- ◎ Balancing Grade: G2.5 20000rpm/30000rpm

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

CD0205-08 CBBT GSK高转速精密筒夹刀柄
CBBT GSK HIGH SPEED COLLET CHUCK

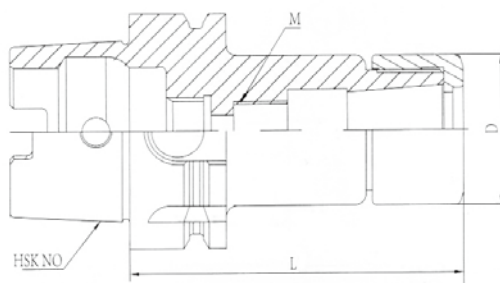
型号 Model No.	D	L	L1	D1	α	COLLET	FIG	KGS
CBBT30-GSK6-60	2~6	60	-	19.5	-	GSK6	A	0.7
CBBT30-GSK6-90		90	-		-		A	0.7
CBBT30-GSK6-120		120	20		30°		B	0.8
CBBT30-GSK10-45	1~10	45	-	27.1	-	GSK10	A	0.8
CBBT30-GSK10-60		60	-		-		A	0.9
CBBT30-GSK10-75		75	-		-		A	1.0
CBBT30-GSK10-90		90	-		-		A	1.0
CBBT30-GSK10-120		120	-		-		A	1.1
CBBT30-GSK16-60	2~16	60	-	40	-	GSK16	A	1.1
CBBT30-GSK16-75		75	-		-		A	1.2
CBBT30-GSK16-90		90	-		-		A	1.2
CBBT30-GSK16-120		120	-		-		A	1.3
CBBT30-GSK20-60	4~20	60	-	48	-	GSK20	A	0.7
CBBT30-GSK20-75		75	-		-		A	0.9
CBBT30-GSK20-90		90	-		-		A	1.2
CBBT30-GSK25-90	6~25	90	-	55	-	GSK25	A	1.5
CBBT40-GSK6-60	2~6	60	-	19.5	-	GSK6	A	1.0
CBBT40-GSK6-90		90	-		-		A	1.1
CBBT40-GSK6-120		120	30		30°		B	1.4
CBBT40-GSK6-150		150	30		30°		B	1.5
CBBT40-GSK10-60	1~10	60	-	27.1	-	GSK10	A	1.1
CBBT40-GSK10-75		75	-		-		A	1.2
CBBT40-GSK10-90		90	-		-		A	1.2
CBBT40-GSK10-120		120	30		30°		B	1.4
CBBT40-GSK10-150		150	30		30°		B	1.6
CBBT40-GSK10-180		180	30		30°		B	1.6
CBBT40-GSK16-60	2~16	60	-	40	-	GSK16	A	1.3
CBBT40-GSK16-75		75	-		-		A	1.4
CBBT40-GSK16-90		90	-		-		A	1.5
CBBT40-GSK16-120		120	-		-		A	1.7
CBBT40-GSK16-150		150	-		-		A	1.9
CBBT40-GSK16-180		180	-		-		A	2.0
CBBT40-GSK20-60	4~20	60	-	48	-	GSK20	A	1.3
CBBT40-GSK20-75		75	-		-		A	1.4
CBBT40-GSK20-90		90	-		-		A	1.6
CBBT40-GSK20-120		120	-		-		A	2.0
CBBT40-GSK25-75	6~25	75	-	55	-	GSK25	A	1.7
CBBT40-GSK25-90		90	-		-		A	1.8
CBBT40-GSK25-120		120	-		-		A	2.0
CBBT50-GSK6-105	2~6	105	-	19.5	-	GSK6	A	3.8
CBBT50-GSK6-135		135	30		30°		B	3.9
CBBT50-GSK6-165		165	30		30°		B	4.0
CBBT50-GSK6-200		200	30		30°		B	4.2
CBBT50-GSK10-105	1~10	105	-	27.1	-	GSK10	A	4.2
CBBT50-GSK10-135		135	-		-		A	4.4
CBBT50-GSK10-165		165	30		30°		B	4.6
CBBT50-GSK10-200		200	30		30°		B	4.8
CBBT50-GSK10-225		225	30		30°		B	5.0
CBBT50-GSK16-105	2~16	105	-	40	-	GSK16	A	4.7
CBBT50-GSK16-135		135	-		-		A	4.9
CBBT50-GSK16-165		165	30		30°		B	5.1
CBBT50-GSK16-200		200	30		30°		B	5.5
CBBT50-GSK20-105	4~20	105	-	48	-	GSK20	A	4.3
CBBT50-GSK20-135		135	-		-		A	4.6
CBBT50-GSK20-165		165	-		-		A	5.0
CBBT50-GSK20-200		200	-		-		A	5.4
CBBT50-GSK25-105	6~25	105	-	55	-	GSK25	A	5.2
CBBT50-GSK25-135		135	-		-		A	5.4
CBBT50-GSK25-165		165	-		-		A	5.6
CBBT50-GSK25-225		225	-		-		A	6.0



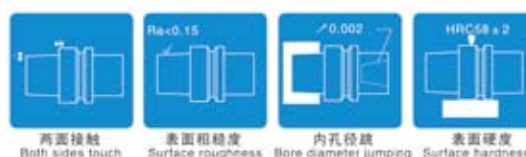
- ◎ 锥度精度: \leq AT3
- ◎ 基本材质: 20CrMnTi/SCM415
- ◎ 硬度: 56-60HRC
- ◎ 渗碳深度: $>$ 0.8mm
- ◎ 刀柄精做动平衡G2.5 20000rpm/30000rpm
- ◎ Precision taper: \leq AT3
- ◎ Material: 20CrMnTi/SCM415
- ◎ Hardness: 56-60HRC
- ◎ Carbon Depth: $>$ 0.8mm
- ◎ Balancing Grade: G2.5 20000rpm/30000rpm

CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

CD0205-09 HSK-GSK高转速精密筒夹刀柄 HSK-GSK HIGH SPEED COLLET CHUCK



刀柄精做动平衡 Precision dynamic balancing
 G2.5 15000rpm~25000rpm



型号 Model No.	夹持范围 CAPACITY	L	D	M	筒夹COLLET	螺帽NUT	扳手WRENCH
HSK32A-GSK06-45	2-6	45	19.5	M10×1	CSK06	GSK06	GSK06
HSK32A-GSK06-60	2-6	60	19.5	M10×1	CSK06	GSK06	GSK06
HSK32A-GSK10-60	1-10	60	27.1	M10×1	CSK10	GSK10	GSK10
HSK50A-GSK06-90	2-6	90	19.5	M16×1	CSK06	GSK06	GSK06
HSK50A-GSK06-120	2-6	120	19.5	M16×1	CSK06	GSK06	GSK06
HSK50A-GSK10-90	1-10	90	27.1	M16×1	CSK10	GSK10	GSK10
HSK50A-GSK10-120	1-10	120	27.1	M16×1	CSK10	GSK10	GSK10
HSK50A-GSK13-70	3-13	70	33	M16×1	CSK13	GSK13	GSK13
HSK50A-GSK13-105	3-13	105	33	M16×1	CSK13	GSK13	GSK13
HSK50A-GSK16-90	2-16	90	40	M16×1	CSK16	GSK16	GSK16
HSK50A-GSK16-120	2-16	120	40	M16×1	CSK16	GSK16	GSK16
HSK50A-GSK20-90	4-20	90	48	M16×1	CSK20	GSK20	GSK20
HSK50A-GSK20-120	4-20	120	48	M16×1	CSK20	GSK20	GSK20
HSK50A-GSK25-90	6-25	90	55	M16×1	CSK25	GSK25	GSK25
HSK50A-GSK25-120	6-25	120	55	M16×1	CSK20	GSK25	GSK25
HSK63A-GSK06-80	2-6	80	19.5	M18×1	CSK06	GSK06	GSK06
HSK63A-GSK10-60	1-10	60	27.1	M18×1	CSK10	GSK10	GSK10
HSK63A-GSK10-80	1-10	80	27.1	M18×1	CSK10	GSK10	GSK10
HSK63A-GSK10-100	1-10	100	27.1	M18×1	CSK10	GSK10	GSK10
HSK63A-GSK16-80	2-16	80	19.5	M18×1	CSK16	GSK16	GSK16
HSK63A-GSK25-90	6-25	90	55	M18×1	CSK25	GSK25	GSK25
HSK63A-CSK06-80	2-6	80	19.5	M18×1	CSK06	CSK06	TSK06
HSK63A-CSK10-60	1-10	60	27.1	M18×1	CSK10	CSK10	TSK10
HSK63A-CK10-80	1-10	80	27.1	M18×1	CSK10	CSK10	TSK10
HSK63A-CSK10-100	1-10	100	27.1	M18×1	CSK10	CSK10	TSK10
HSK63A-CSK16-80	2-16	80	40	M18×1	CSK16	CSK16	TSK16
HSK63A-CSK25-90	6-25	90	55	M18×1	CSK25	CSK25	TSK25

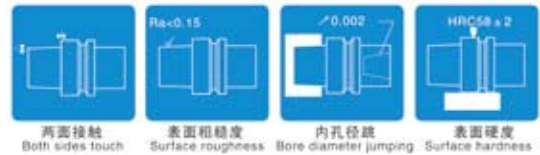
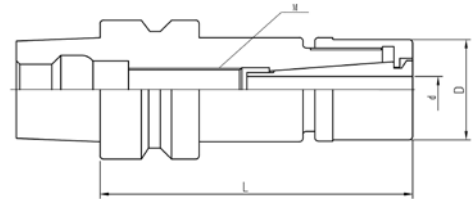
CSK高速筒夹系列 CSK HIGH SPEED COLLET SERIES

CD0205-10 HSK-GSK高速精密筒夹刀柄 HSK-GSK HIGH SPEED COLLET CHUCK



精度5 μ/8 μ
Integrated precision
5 μ/8 μ

刀柄精做动平衡 Precision dynamic balancing
G2.5 20000rpm/25000rpm/30000rpm



型号 Model No.	夹持范围 CAPACITY	L	D	M	筒夹 COLLET	螺帽NUT	扳手 WRENCH
HSK32E-GSK06-45	2-6	45	19.5	M10 × 1	CSK06	GSK06	GSK06
HSK32E-GSK06-60	2-6	60	19.5	M10 × 1	CSK06	GSK06	GSK06
HSK32E-GSK10-60	1-10	60	27.1	M10 × 1	CSK10	GSK10	GSK10
HSK40E-GSK06-45	2-6	45	19.5	M12 × 1	CSK06	GSK06	GSK06
HSK40E-GSK06-60	2-6	60	19.5	M12 × 1	CSK06	GSK06	GSK06
HSK40E-GSK06-75	2-6	75	19.5	M12 × 1	CSK06	GSK06	GSK06
HSK40E-GSK10-60	1-10	60	27.1	M12 × 1	CSK10	GSK10	GSK10
HSK40E-GSK10-75	1-10	75	27.1	M12 × 1	CSK10	GSK10	GSK10
HSK40E-GSK13-60	3-13	60	33	M12 × 1	CSK10	GSK10	GSK10
HSK40E-GSK13-75	3-13	75	33	M12 × 1	CSK13	GSK13	GSK13
HSK40E-GSK16-75	2-16	75	40	M12 × 1	CSK16	GSK16	GSK16
HSK40E-GSK10-70	1-10	70	27.1	M12 × 1	CSK10	GSK10	GSK10
HSK40E-GSK13-70	3-13	70	33	M12 × 1	CSK13	GSK13	GSK13
HSK40E-GSK16-70	2-16	70	40	M12 × 1	CSK16	GSK16	GSK16
HSK50E-GSK06-60	2-6	60	19.5	M16 × 1	CSK06	GSK06	GSK06
HSK50E-GSK06-75	2-6	75	19.5	M16 × 1	CSK06	GSK06	GSK06
HSK50E-GSK06-90	2-6	90	19.5	M16 × 1	CSK06	GSK06	GSK06
HSK50E-GSK10-60	1-10	60	27.1	M16 × 1	CSK10	GSK10	GSK10
HSK50E-GSK10-75	1-10	75	27.1	M16 × 1	CSK10	GSK10	GSK10
HSK50E-GSK10-90	1-10	90	27.1	M16 × 1	CSK10	GSK10	GSK10
HSK50E-GSK13-60	3-13	60	33	M16 × 1	CSK13	GSK13	GSK13
HSK50E-GSK13-75	3-13	75	33	M16 × 1	CSK13	GSK13	GSK13
HSK50E-GSK13-90	3-13	90	33	M16 × 1	CSK13	GSK13	GSK13
HSK50E-GSK16-75	2-16	75	40	M16 × 1	CSK16	GSK16	GSK16
HSK50E-GSK16-90	2-16	90	40	M16 × 1	CSK16	GSK16	GSK16
HSK63F-GSK10-100	1-10	100	27.1	M18 × 1	CSK10	GSK10	GSK10
HSK63F-GSK13-70	3-13	70	33	M18 × 1	CSK13	GSK13	GSK13
HSK63F-GSK16-100	2-16	100	40	M18 × 1	CSK16	GSK16	GSK16

高精度HP强力扭矩筒夹刀柄

High accuracy HP strong torque collet chuck



刀柄特点:

- ◎刀柄内部采用独特的蜗轮蜗杆啮合结构，径向拧紧力，成倍地转换轴向拉紧力，实现刀具的精密夹持；
- ◎采用“振动衰减”的纯机械式结构，反向锁死，拥有自锁功能，超强的高夹持力，有效缓解了加工时刀具的振动，提高了刀具的寿命和表面粗糙度；
- ◎机械式夹紧，毋须定期保养和维护，成本相对较低，使用却更加方便。
- ◎精度高，夹持刀具在3倍径处 $< 3 \mu$ ；
- ◎Chuck special worm gear mesh structure, radial tightening force and axial tensile force of double conversion, the precision clamping tool;
- ◎"Vibration" structure of the purely mechanical reverse lock, with self-locking function, Super High clamping force, effectively alleviate the process tool vibration and improves tool life and surface roughness of salvation;
- ◎Mechanical clamping without regular care and maintenance, and costs are relatively low, it is more convenient to use.
- ◎High precision clamping tool 3 times diameter $< 3 \mu$ ；

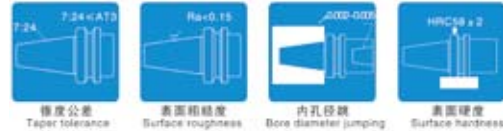
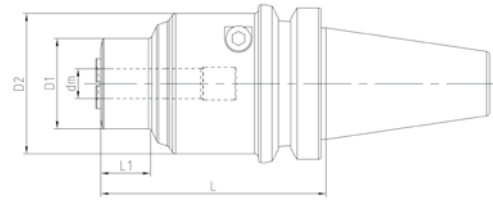
综合对比 Comprehensive comparison	强力扭矩刀柄 Milling chuck with draw bar	弹簧夹头刀柄 Spring chuck	烧结刀柄 Shrink fit	液压刀柄 Hydraulic chuck
刀具柄径公差等级	$\leq h8$	$\leq h8$	$\leq h5$	$\leq h5$
夹持力(c 12刀具)	200Nm	60Nm	150Nm	80Nm
刀具使用寿命(T)	2.5T	2T	1.6T	1.3T
操作/安全性	简易、自锁	一般	复杂	简易
成本	低	合理	较高	高
抗高温	150℃	130℃	100℃	80℃

高精度强力扭矩筒夹刀柄系列HIGH ACCURACY STRONG TORQUE COLLET CHUCK SERIES

CD0301-01 BT/SK (DIN69871) 高精度强力扭矩筒夹刀柄
BT/SK (DIN69871) HIGH ACCURACY STRONG TORQUE COLLET CHUCK

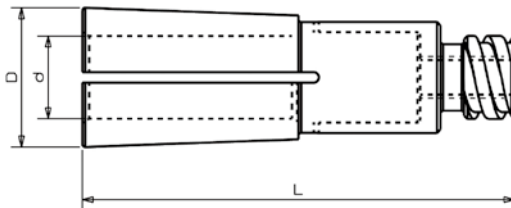


精做动平衡 Precision dynamic balancing
G2.5 15000rpm/20000rpm



型号 Model No.	尺寸Size(mm)					卡簧 collet
	dm	D1	D2	L1	L	
BT40-HP12-85	6-12	36	56	20	85	HP12
BT40-HP12-90	6-12	36	56	20	90	HP12
BT40-HP12-95	6-12	36	56	20	95	HP12
BT40-HP12-100	6-12	36	56	25	100	HP12
BT40-HP12-110	6-12	36	56	25	110	HP12
BT40-HP12-120	6-12	36	56	25	120	HP12
BT50-HP32-125	14-32	65	90	30	125	HP32
BT50-HP32-130	14-32	65	90	30	130	HP32
BT50-HP32-135	14-32	65	90	30	135	HP32
BT50-HP32-140	14-32	65	90	35	140	HP32
BT50-HP32-150	14-32	65	90	35	150	HP32
SK40-HP12-85	6-12	36	56	20	85	HP12
SK40-HP12-90	6-12	36	56	20	90	HP12
SK40-HP12-95	6-12	36	56	20	95	HP12
SK40-HP12-100	6-12	36	56	25	100	HP12
SK40-HP12-110	6-12	36	56	25	110	HP12
SK40-HP12-120	6-12	36	56	25	120	HP12

CD0301-02 高精度HP筒夹
HIGH ACCURACY HP COLLET



型号 Model No.	3尺寸Size(mm)		
	D	d	L
HP12-3	12	3	53
HP12-4	12	4	53
HP12-5	12	5	53
HP12-6	12	6	53
HP20-3	20	3	53
HP20-4	20	4	53
HP20-5	20	5	53
HP20-6	20	6	53
HP20-8	20	8	53
HP20-10	20	10	53
HP20-12	20	12	53
HP25-3	25	3	53
HP25-4	25	4	53
HP25-5	25	5	53
HP25-6	25	6	53
HP25-8	25	8	53
HP25-10	25	10	53
HP25-12	25	12	53
HP25-16	25	16	72
HP32-4	32	4	53
HP32-5	32	5	53
HP32-6	32	6	53
HP32-8	32	8	53
HP32-10	32	10	53
HP32-12	32	12	53
HP32-16	32	16	72
HP32-18	32	18	72
HP32-20	32	20	72
HP32-25	32	25	72

高精度**CDC**后拉式筒夹刀柄

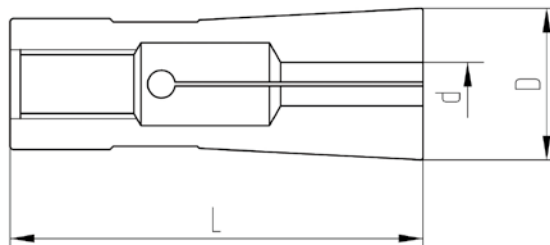
High accuracy collet chuck with draw bar series

- ◎ 后拉式刀柄用于高速精密加工，无螺帽的设计，避免加工时对工件的干涉；
- ◎ 筒夹后拉式的设计，刚性强、稳定性高；
- ◎ 每支刀柄配有1支扭矩扳手；
- ◎ 动平衡G2.5-25000rpm/30000rpm；
- ◎ Chuck used for high-speed precision machining, nut-free design, avoid the interference processing of workpieces;
- ◎ Collet pull design, strong rigidity, high stability, easy operation;
- ◎ Each handle is equipped with one hex spanner;
- ◎ Balance G2.5 30000rpm.



高精度后拉式筒夹刀柄系列 HIGH ACCURACY COLLET CHUCK WITH DRAW BAR SERIES

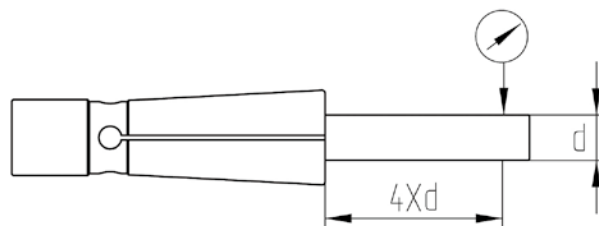
CD0401-01后拉式筒夹 COLLET WITH DRAW BAR



- ◎材料: SUJ2;
- ◎硬度: HRC48-50;
- ◎立铣刀专用筒夹;
- ◎铣刀柄贯穿筒夹内有效夹持长度, 以发挥最佳效果;

- ◎Material:SUJ2
- ◎Hardness:HRC48-50
- ◎Special cutter collet
- ◎Milling chuck through the works inside the Collet clamping length, to play the best results;

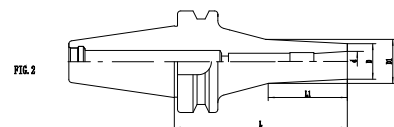
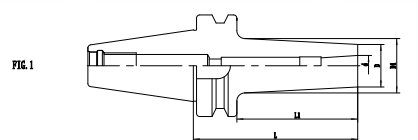
型号 Model No.	d	L	D
CDC06	2, 3, 4, 5, 6	36	9.6
CDC08	3, 4, 5, 6, 8	45	15
CDC10	3, 4, 5, 6, 7, 8, 9, 10	52	19.1
CDC12	3, 4, 5, 6, 7, 8, 9, 10, 11, 12	60	22



后拉筒夹等级 Collet grade	径向跳动精度 4倍柄径距离-4Xd
AA级	≤5u
AAA级	≤3 μ

高精度后拉式筒夹刀柄系列 HIGH ACCURACY COLLET CHUCK WITH DRAW BAR SERIES

CD0401-02 后拉式刀柄



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔段跳
Bore diameter jumping



表面硬度
Surface hardness

型号 Model No.	d	L	L1	D	D1	扳手规格 Spanner	推荐锁固扭力 Recommend locking torque	FIG.1 FIG.2
BT30-CDC6-60	2-6	60	26	13	15.5	M4	5Nm	2
BT30-CDC6-90	2-6	90	50	13	18	M4	5Nm	2
BT30-CDC08-60	3-8	60	40	16	20.5	M6	7Nm	1
BT30-CDC08-75	3-8	75	55	16	22.5	M6	7Nm	1
BT30-CDC10-90	3-10	90	68	21	26	M6	12Nm	1
BT30-CDC12-80	3-12	80	60	23	31	M8	12Nm	1
BT30-CDC12-110	3-12	110	90	23	35	M8	12Nm	1
BT40-CDC6-60	2-6	60	26	13	16	M4	5Nm	2
BT40-CDC06-90	2-6	90	43	13	17.5	M4	5Nm	2
BT40-CDC06-120	2-6	120	60	13	19.5	M4	5Nm	2
BT40-CDC08-65	3-8	65	40	16	20	M5	7Nm	1
BT40-CDC08-90	3-8	90	60	16	23	M5	7Nm	1
BT40-CDC10-90	3-10	90	63	21	26	M6	12Nm	1
BT40-CDC10-120	3-10	120	93	21	29	M6	12Nm	1
BT40-CDC12-90	3-12	90	65	23	31	M8	12Nm	1
BT40-CDC12-120	3-12	120	95	23	38	M8	12Nm	1
BT50-CDC10-100	3-10	100	62	21	26	M6	12Nm	1
BT50-CDC10-150	3-10	135	112	21	31	M6	12Nm	1
BT50-CDC12-105	3-12	105	70	23	31	M8	12Nm	1
BT50-CDC12-150	3-12	165	115	23	38.5	M8	12Nm	1

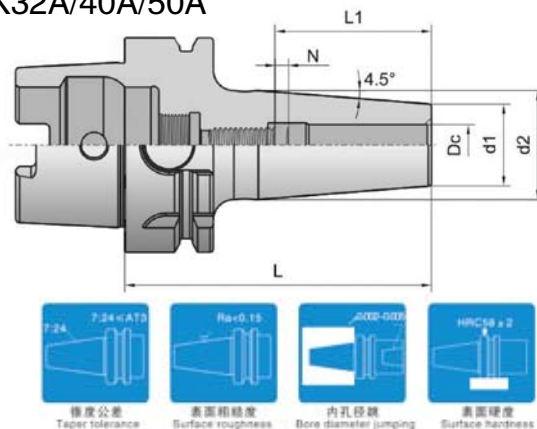
高精度**热缩式**数控刀柄

High accuracy shrink fit CNC collet chuck

高精度热缩式数控刀柄：

- ◎高精度
夹持合适刀具后的径向径跳 $\leq 3\mu$ ；
 - ◎夹紧力大
采用全圆360°收缩夹持刀具柄径，均匀一致，达到完美的环抱夹紧；
 - ◎动平衡好
柄体无任何附加物，外形呈对称几何形状，平衡稳定性好，适合于高速加工；
 - ◎防尘性好
夹持刀具后没有间隙，切屑、冷却液、粉尘不易进入；
 - ◎斜度设计
非常轻巧细长的斜度形状，尽量避免与工件干涉的发生；
 - ◎高刚性
刀具突出最短，具有高刚性、强大稳定的夹持，保持高精度。
 - ◎动平衡等级
G2.5 20000rpm/25000rpm
- ◎High accuracy;
radial jumping with clamping suitable cutting tools $\leq 3\mu$;
 - ◎Large clamping force;
Tool rod clamping for all round 360° contraction, uniform, achieve perfect surrounded by clamping;
 - ◎Good dynamic balance;
Handle body without any additive, with a symmetrical geometry, balance stability is good, suitable for high speed machining;
 - ◎Dust tightness is good;
No gap after clamping tool, chip, cooling liquid, dust will not enter;
 - ◎Slope design;
Very light and thin slope shape, try to avoid the occurrence of interference with workpiece;
 - ◎High rigidity
Tool highlight is shortest, high rigidity, strong stable clamping and keep high accuracy;
 - ◎Balance
G2.5 20000rpm/25000rpm

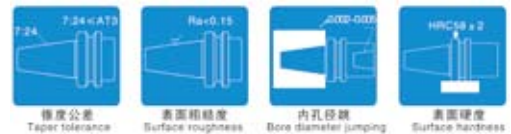
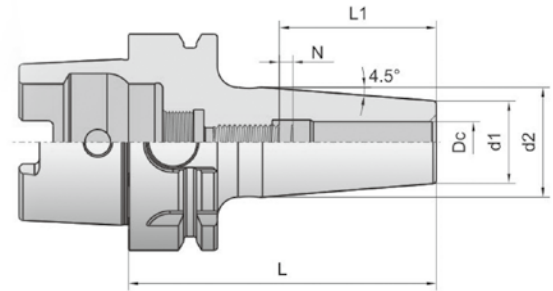


>>> CD0501-01 热缩式刀柄-HSK32A/40A/50A
 SHRINK FIT COLLET CHUCK -HSK32A/40A/50A


型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
HSK32A-SSD04-60	HSK32A	4	15	20	60	20	-
HSK32A-SSD06-70	HSK32A	6	21	26	70	36	10
HSK32A-SSD08-70	HSK32A	8	21	26	70	36	10
HSK32A-SSD10-80	HSK32A	10	24	26	80	40	10
HSK40A-SSD04-60	HSK40A	4	15	20	60	20	-
HSK40A-SSD06-80	HSK40A	6	21	27	80	36	10
HSK40A-SSD08-80	HSK40A	8	21	27	80	36	10
HSK40A-SSD10-80	HSK40A	10	24	32	80	40	10
HSK40A-SSD12-90	HSK40A	12	24	32	90	45	10
HSK50A-SSD04-60	HSK50A	4	15	20	60	20	-
HSK50A-SSD06-80	HSK50A	6	21	27	80	36	10
HSK50A-SSD08-80	HSK50A	8	21	27	80	36	10
HSK50A-SSD10-85	HSK50A	10	24	32	85	40	10
HSK50A-SSD12-90	HSK50A	12	24	32	90	45	10
HSK50A-SSD16-95	HSK50A	16	27	34	95	48	10

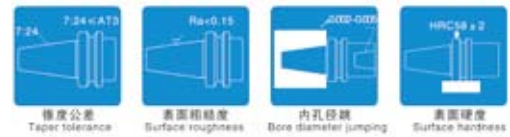
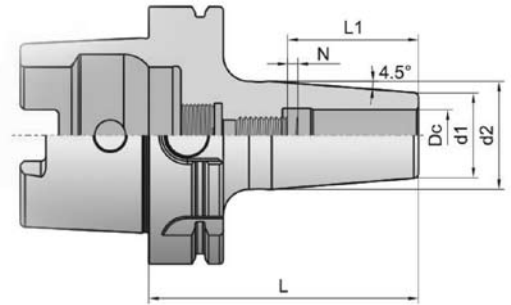
高精度热缩式数控刀柄系列 HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

CD0501-02 热缩式刀柄-HSK63A SHRINK FIT COLLET CHUCK -HSK63A



型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
HSK63A-SSD04-80	HSK63A	4	15	20	80	20	-
HSK63A-SSD06-80	HSK63A	6	21	27	80	36	10
HSK63A-SSD06-120	HSK63A	6	21	27	120	36	10
HSK63A-SSD06-160	HSK63A	6	21	27	160	36	10
HSK63A-SSD08-80	HSK63A	8	21	27	80	36	10
HSK63A-SSD08-120	HSK63A	8	21	27	120	36	10
HSK63A-SSD08-160	HSK63A	8	21	27	160	36	10
HSK63A-SSD10-85	HSK63A	10	24	32	85	40	10
HSK63A-SSD10-120	HSK63A	10	24	32	120	40	10
HSK63A-SSD10-160	HSK63A	10	24	32	160	40	10
HSK63A-SSD12-90	HSK63A	12	24	32	90	45	10
HSK63A-SSD12-120	HSK63A	12	24	32	120	45	10
HSK63A-SSD12-160	HSK63A	12	24	32	160	45	10
HSK63A-SSD16-95	HSK63A	16	27	34	95	48	10
HSK63A-SSD16-120	HSK63A	16	27	34	120	48	10
HSK63A-SSD16-160	HSK63A	16	27	34	160	48	10
HSK63A-SSD20-100	HSK63A	20	33	42	100	50	10
HSK63A-SSD20-120	HSK63A	20	33	42	120	50	10
HSK63A-SSD20-160	HSK63A	20	33	42	160	50	10
HSK63A-SSD25-115	HSK63A	25	44	53	115	56	10
HSK63A-SSD25-160	HSK63A	25	44	53	160	56	10
HSK63A-SSD32-120	HSK63A	32	44	53	120	60	10
HSK63A-SSD32-160	HSK63A	32	44	53	160	60	10

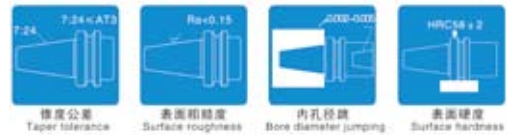
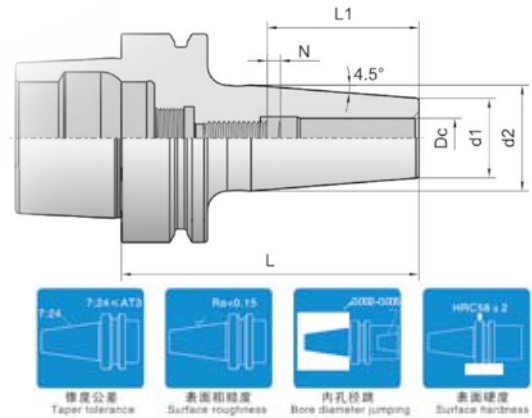
高精度热缩式数控刀柄系列 HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

 >>> CD0501-03 热缩式刀柄-HSK80A/100A
 SHRINK FIT COLLET CHUCK -HSK80A/100A


型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
HSK80A-SSD06-85	HSK80A	6	21	27	85	36	10
HSK80A-SSD08-85	HSK80A	8	21	27	85	36	10
HSK80A-SSD10-90	HSK80A	10	24	32	90	40	10
HSK80A-SSD12-95	HSK80A	12	24	32	95	45	10
HSK80A-SSD16-100	HSK80A	16	27	34	100	48	10
HSK80A-SSD20-105	HSK80A	20	22	42	105	50	10
HSK80A-SSD25-115	HSK80A	25	44	53	115	56	10
HSK80A-SSD32-120	HSK80A	32	44	53	120	60	10
HSK100A-SSD06-85	HSK100A	6	21	27	85	36	10
HSK100A-SSD06-120	HSK100A	6	21	27	120	36	10
HSK100A-SSD06-160	HSK100A	6	21	27	160	36	10
HSK100A-SSD08-85	HSK100A	8	21	27	85	36	10
HSK100A-SSD08-120	HSK100A	8	21	27	120	36	10
HSK100A-SSD08-160	HSK100A	8	21	27	160	36	10
HSK100A-SSD10-90	HSK100A	10	24	32	90	40	10
HSK100A-SSD10-120	HSK100A	10	24	32	120	40	10
HSK100A-SSD10-160	HSK100A	10	24	32	160	40	10
HSK100A-SSD12-95	HSK100A	12	24	32	95	45	10
HSK100A-SSD12-120	HSK100A	12	24	32	120	45	10
HSK100A-SSD12-160	HSK100A	12	24	32	160	45	10
HSK100A-SSD16-100	HSK100A	16	27	34	100	48	10
HSK100A-SSD16-160	HSK100A	16	27	34	160	48	10
HSK100A-SSD20-105	HSK100A	20	33	42	105	50	10
HSK100A-SSD20-160	HSK100A	20	33	42	160	50	10
HSK100A-SSD25-115	HSK100A	25	44	53	115	56	10
HSK100A-SSD25-160	HSK100A	25	44	53	160	56	10
HSK100A-SSD32-120	HSK100A	32	44	53	120	60	10
HSK100A-SSD32-160	HSK100A	32	44	53	160	60	10

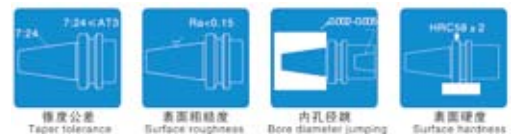
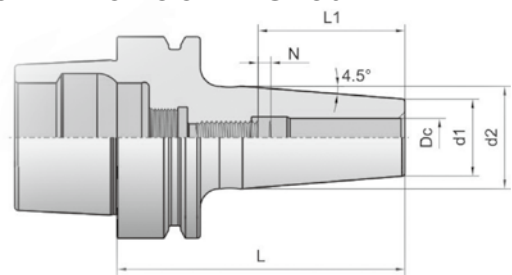
高精度热缩式数控刀柄系列 HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

CD0501-04 热缩式刀柄-HSK32E/HSK40E
SHRINK FIT COLLET CHUCK-HSK32E/HSK40E



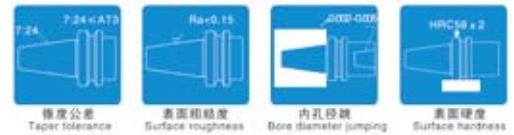
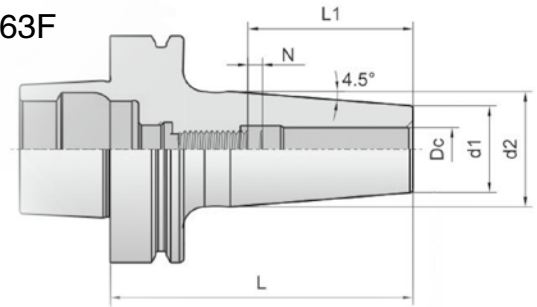
型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
HSK32E-SSD04-60	HSK32E	4	15	20	60	20	-
HSK32E-SSD06-70	HSK32E	6	21	27	70	36	10
HSK32E-SSD08-70	HSK32E	8	21	27	70	36	10
HSK32E-SSD10-80	HSK32E	10	24	32	80	40	10
HSK40E-SSD04-60	HSK40E	4	15	20	60	20	10
HSK40E-SSD06-60	HSK40E	6	21	27	60	36	10
HSK40E-SSD06-80	HSK40E	6	21	27	80	36	10
HSK40E-SSD08-60	HSK40E	8	21	27	60	36	10
HSK40E-SSD08-80	HSK40E	8	21	27	80	36	10
HSK40E-SSD10-60	HSK40E	10	24	32	60	40	10
HSK40E-SSD10-90	HSK40E	10	24	32	90	40	10
HSK40E-SSD12-60	HSK40E	12	24	32	90	45	10
HSK40E-SSD12-90	HSK40E	12	24	32	90	45	10

CD0501-05 热缩式刀柄-HSK50E SHRINK FIT COLLET CHUCK-HSK50E



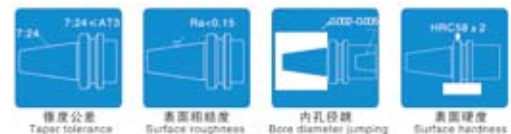
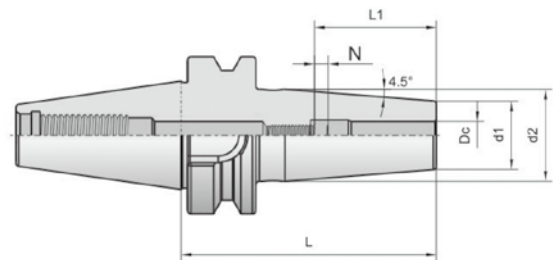
型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
HSK50E-SSD04-60	HSK50E	4	15	20	60	20	-
HSK50E-SSD06-70	HSK50E	6	21	27	90	36	10
HSK50E-SSD08-70	HSK50E	8	21	27	90	36	10
HSK50E-SSD10-80	HSK50E	10	24	32	85	40	10
HSK50E-SSD04-60	HSK50E	12	24	32	90	45	10
HSK50E-SSD06-60	HSK50E	16	27	34	95	48	10

高精度热缩式数控刀柄系列 HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

 >>> CD0501-06 热缩式刀柄-HSK63F
 SHRINK FIT COLLET CHUCK-HSK63F


型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
HSK63F-SSD04-80	HSK63F	4	15	20	80	20	-
HSK63F-SSD06-80	HSK63F	6	21	27	80	36	10
HSK63F-SSD08-80	HSK63F	8	21	27	80	36	10
HSK63F-SSD10-85	HSK63F	10	24	32	85	40	10
HSK63F-SSD12-90	HSK63F	12	24	32	90	45	10
HSK63F-SSD16-95	HSK63F	16	27	34	95	48	10
HSK63F-SSD20-100	HSK63F	20	33	42	100	50	10

>>> CD0502-01 热缩式刀柄-BT30/40/50 SHRINK FIT COLLET CHUCK-BT30/40/50



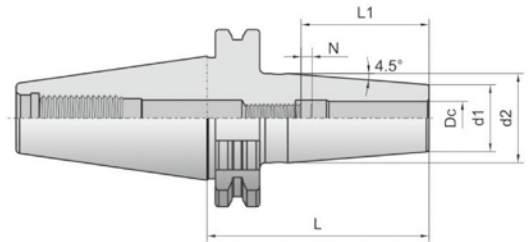
型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
BT30-SSD04-60	BT30	4	15	20	60	20	-
BT30-SSD06-80	BT30	6	21	27	80	36	10
BT30-SSD08-80	BT30	8	21	27	80	36	10
BT30-SSD10-80	BT30	10	24	32	80	40	10
BT30-SSD12-80	BT30	12	24	32	80	45	10
BT30-SSD16-80	BT30	16	27	34	80	48	10

高精度热缩式数控刀柄系列HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

CD0502-01 热缩式刀柄-BT30/40/50 SHRINK FIT COLLET CHUCK-BT30/40/50

型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					N
		Dc	d1	d2	L	L1	
BT40-SSD04-90	BT40	4	15	20	90	20	-
BT40-SSD06-90	BT40	6	21	27	90	36	10
BT40-SSD06-120	BT40	6	21	27	120	36	10
BT40-SSD06-160	BT40	6	21	27	160	36	10
BT40-SSD08-90	BT40	8	21	27	90	36	10
BT40-SSD08-120	BT40	8	21	27	120	36	10
BT40-SSD08-160	BT40	8	21	27	160	36	10
BT40-SSD10-90	BT40	10	24	32	90	40	10
BT40-SSD10-120	BT40	10	24	32	120	40	10
BT40-SSD10-160	BT40	10	24	32	160	40	10
BT40-SSD12-90	BT40	12	24	32	90	45	10
BT40-SSD12-120	BT40	12	24	32	120	45	10
BT40-SSD12-160	BT40	12	24	32	160	45	10
BT40-SSD16-90	BT40	16	27	34	90	48	10
BT40-SSD16-120	BT40	16	27	34	120	48	10
BT40-SSD16-160	BT40	16	27	34	160	48	10
BT40-SSD20-90	BT40	20	33	42	90	50	10
BT40-SSD20-120	BT40	20	33	42	120	50	10
BT40-SSD20-160	BT40	20	33	42	160	50	10
BT40-SSD25-100	BT40	25	44	53	100	56	10
BT40-SSD25-160	BT40	25	44	53	160	56	10
BT40-SSD32-100	BT40	32	44	53	100	60	10
BT40-SSD20-160	BT40	32	44	53	160	60	10
BT50-SSD06-100	BT50	6	21	27	100	36	10
BT50-SSD06-160	BT50	6	21	27	160	36	10
BT50-SSD08-100	BT50	8	21	27	100	36	10
BT50-SSD08-160	BT50	8	21	27	160	36	10
BT50-SSD10-100	BT50	10	24	32	100	45	10
BT50-SSD10-160	BT50	10	24	32	160	45	10
BT50-SSD12-100	BT50	12	24	32	100	45	10
BT50-SSD12-160	BT50	12	24	32	160	45	10
BT50-SSD16-100	BT50	16	27	34	100	48	10
BT50-SSD16-160	BT50	16	27	34	160	48	10
BT50-SSD20-100	BT50	20	33	42	100	50	10
BT50-SSD20-160	BT50	20	33	42	160	50	10
BT50-SSD25-100	BT50	25	44	53	100	56	10
BT50-SSD25-160	BT50	25	44	53	160	56	10
BT50-SSD32-100	BT50	32	44	53	100	60	10
BT50-SSD32-160	BT50	32	44	53	160	60	10

高精度热缩式数控刀柄系列HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

 >>> CD0503-01 热缩式刀柄-SK40(DIN69871)
 SHRINK FIT COLLET CHUCK-SK40(DIN69871)

 锥度公差
Taper tolerance

 表面粗糙度
Surface roughness

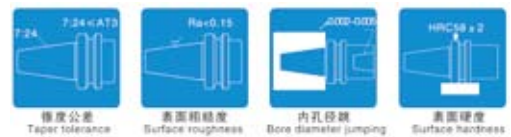
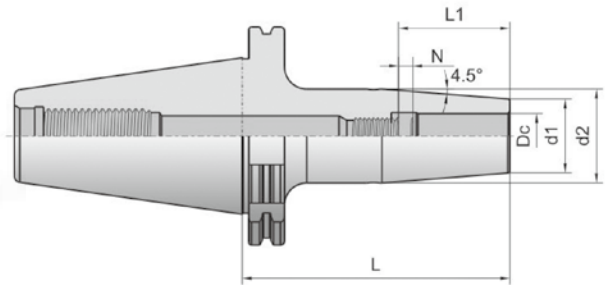
 内孔段跳
Bore diameter jumping

 表面硬度
Surface hardness

型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
SK40-SSD04-80	SK40	4	15	20	80	20	-
SK40-SSD06-80	SK40	6	21	27	80	36	10
SK40-SSD06-120	SK40	6	21	27	120	36	10
SK40-SSD06-160	SK40	6	21	27	160	36	10
SK40-SSD08-80	SK40	8	21	27	80	36	10
SK40-SSD08-120	SK40	8	21	27	120	36	10
SK40-SSD08-160	SK40	8	21	27	160	36	10
SK40-SSD10-80	SK40	10	24	32	80	40	10
SK40-SSD10-120	SK40	10	24	32	120	40	10
SK40-SSD10-160	SK40	10	24	32	160	40	10
SK40-SSD12-80	SK40	12	24	32	80	45	10
SK40-SSD12-120	SK40	12	24	32	120	45	10
SK40-SSD12-160	SK40	12	24	32	160	45	10
SK40-SSD16-80	SK40	16	27	34	80	48	10
SK40-SSD16-120	SK40	16	27	34	120	48	10
SK40-SSD16-160	SK40	16	27	34	160	48	10
SK40-SSD20-80	SK40	20	33	42	80	50	10
SK40-SSD20-120	SK40	20	33	42	120	50	10
SK40-SSD20-160	SK40	20	33	42	160	50	10
SK40-SSD25-100	SK40	25	44	53	100	56	10
SK40-SSD25-160	SK40	25	44	53	160	56	10
SK40-SSD32-100	SK40	32	44	53	100	60	10
SK40-SSD32-160	SK40	32	44	53	160	60	10

高精度热缩式数控刀柄系列HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

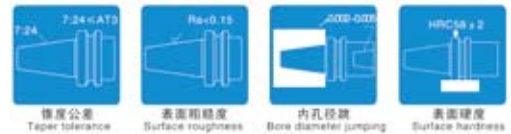
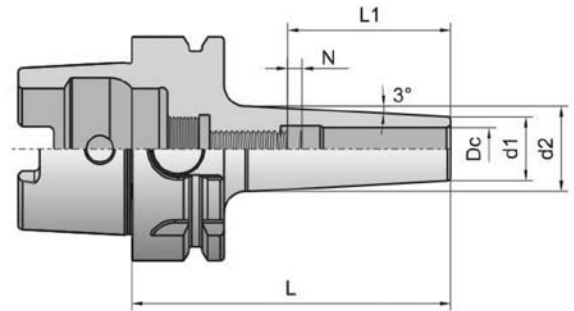
CD0503-02 热缩式刀柄-SK50(DIN69871)
SHRINK FIT COLLET CHUCK-SK50(DIN69871)



型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
SK50-SSD06-80	SK50	6	21	27	80	36	10
SK50-SSD06-120	SK50	6	21	27	120	36	10
SK50-SSD06-160	SK50	6	21	27	160	36	10
SK50-SSD08-80	SK50	8	21	27	80	36	10
SK50-SSD08-120	SK50	8	21	27	120	36	10
SK50-SSD08-160	SK50	8	21	27	160	36	10
SK50-SSD10-80	SK50	10	24	32	80	40	10
SK50-SSD10-120	SK50	10	24	32	120	40	10
SK50-SSD10-160	SK50	10	24	32	160	40	10
SK50-SSD12-80	SK50	12	24	32	80	45	10
SK50-SSD12-120	SK50	12	24	32	120	45	10
SK50-SSD12-160	SK50	12	24	32	160	45	10
SK50-SSD16-80	SK50	16	27	34	80	48	10
SK50-SSD16-120	SK50	16	27	34	120	48	10
SK50-SSD16-160	SK50	16	27	34	160	48	10
SK50-SSD20-80	SK50	20	33	42	80	50	10
SK50-SSD20-120	SK50	20	33	42	120	50	10
SK50-SSD20-160	SK50	20	33	442	160	50	10
SK50-SSD25-100	SK50	25	44	53	100	56	10
SK50-SSD25-160	SK50	25	44	53	160	56	10
SK50-SSD32-100	SK50	32	44	53	100	60	
SK50-SSD32-160	SK50	32	44	53	160	60	

高精度热缩式数控刀柄系列HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

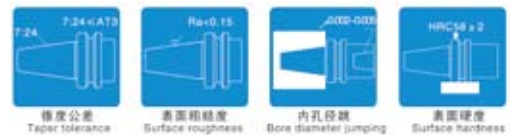
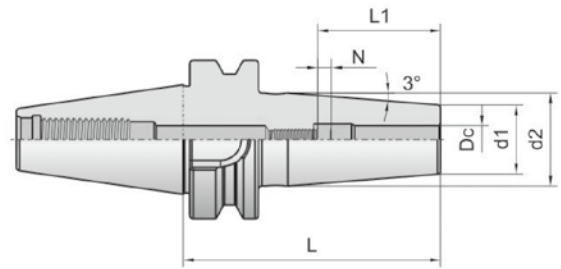
>>> CD0504-01 热缩式刀柄-HSK63A轻型 SHRINK FIT COLLET CHUCK-HSK63A LIGHT TYPE



型号 Model No.	锥柄型式 Taper type	2尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
HSK63A-SSDS06-90	HSK63A	6	12	18	90	36	10
HSK63A-SSDS06-120	HSK63A	6	12	21	120	36	10
HSK63A-SSDS06-160	HSK63A	6	12	24	160	36	10
HSK63A-SSDS08-90	HSK63A	8	14	20	90	36	10
HSK63A-SSDS08-120	HSK63A	8	14	23	120	36	10
HSK63A-SSDS08-160	HSK63A	8	14	26	160	36	10
HSK63A-SSDS10-90	HSK63A	10	16	22	90	40	10
HSK63A-SSDS10-120	HSK63A	10	16	25	120	40	10
HSK63A-SSDS10-160	HSK63A	10	16	28	160	40	10
HSK63A-SSDS12-90	HSK63A	12	18	24	90	45	10
HSK63A-SSDS12-120	HSK63A	12	18	27	120	45	10
HSK63A-SSDS12-160	HSK63A	12	18	30	160	45	10
HSK63A-SSDS16-90	HSK63A	16	22	28	90	48	10
HSK63A-SSDS16-120	HSK63A	16	22	31	120	48	10
HSK63A-SSDS16-160	HSK63A	16	22	34	160	48	10

高精度热缩式数控刀柄系列 HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

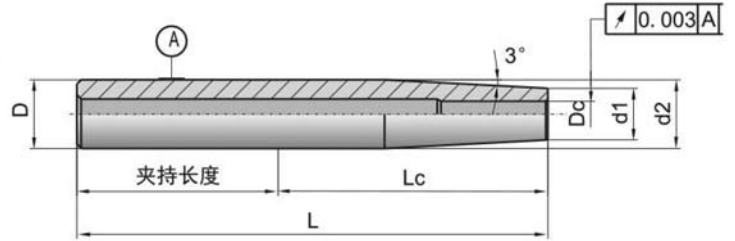
CD0504-02 热缩式刀柄-BT30\BT40轻型 SHRINK FIT COLLET CHUCK-BT30\BT40 LIGHT TYPE



型号 Model No.	锥柄型式 Taper type	尺寸Size(mm)					
		Dc	d1	d2	L	L1	N
BT30-SSD06-80	BT30	6	12	18	80	36	10
BT30-SSD08-80	BT30	8	24	20	80	36	10
BT30-SSD10-80	BT30	10	16	22	80	40	10
BT30-SSD12-80	BT30	12	18	24	80	45	10
BT30-SSD16-80	BT30	16	22	28	80	48	10
BT40-SSD06-90	BT40	6	12	18	90	36	10
BT40-SSD06-120	BT40	6	12	21	120	36	10
BT40-SSD06-160	BT40	6	12	24	160	36	10
BT40-SSD08-90	BT40	8	14	20	90	36	10
BT40-SSD08-120	BT40	8	14	23	120	36	10
BT40-SSD08-160	BT40	8	14	26	160	36	10
BT40-SSD10-90	BT40	10	16	22	90	40	10
BT40-SSD10-120	BT40	10	16	25	120	40	10
BT40-SSD10-160	BT40	10	16	28	160	40	10
BT40-SSD12-90	BT40	12	12	24	90	45	10
BT40-SSD12-120	BT40	12	12	27	120	45	10
BT40-SSD12-160	BT40	12	12	30	160	45	10
BT40-SSD16-90	BT40	16	16	28	90	48	10
BT40-SSD16-120	BT40	16	16	31	120	48	10
BT40-SSD16-160	BT40	16	16	34	160	48	10

高精度热缩式数控刀柄系列HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

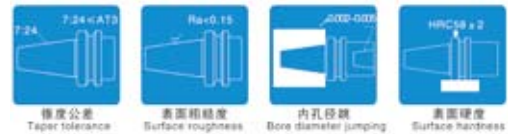
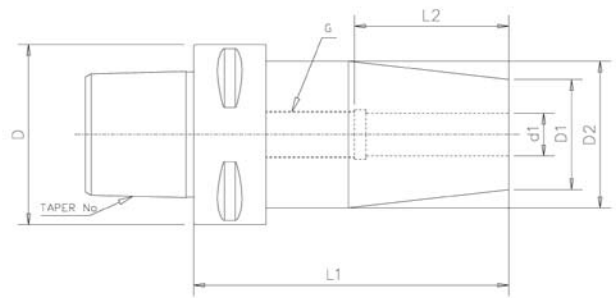
>>> CD0505-01 热缩式延长杆 SHRINK FIT EXTENSION BAR



型号 Model No.	尺寸Size(mm)					
	D	D_c	d_1	d_2	L_c	L
C12-SSD04-110	12	4	10	11.8	63	110
C16-SSD04-110	16	4	10	14	60	110
C16-SSD04-200	16	4	10	16	150	200
C16-SSD06-110	16	6	12	15.8	60	110
C16-SSD06-200	16	6	12	16	150	200
C20-SSD04-110	20	4	10	14	58	110
C20-SSD06-110	20	6	12	16	58	110
C20-SSD06-250	20	6	12	20	198	250
C20-SSD08-110	20	8	14	19	58	110
C20-SSD08-250	20	8	14	20	198	250
C20-SSD10-110	20	10	16	19.8	58	110
C20-SSD10-250	20	10	16	20	198	250
C20-SSD12-110	20	12	18	19.8	58	110
C25-SSD12-250	25	12	18	25	193	250
C25-SSD16-250	25	16	22	25	193	250

高精度热缩式数控刀柄系列 HIGH ACCURACY SHRINK FIT CNC COLLET CHUCK SERIES

CD0506-01 CAPTO热缩式刀柄
CAPTO SHRINK FIT CHUCK



◆CAPTO执行标准-ISO26623

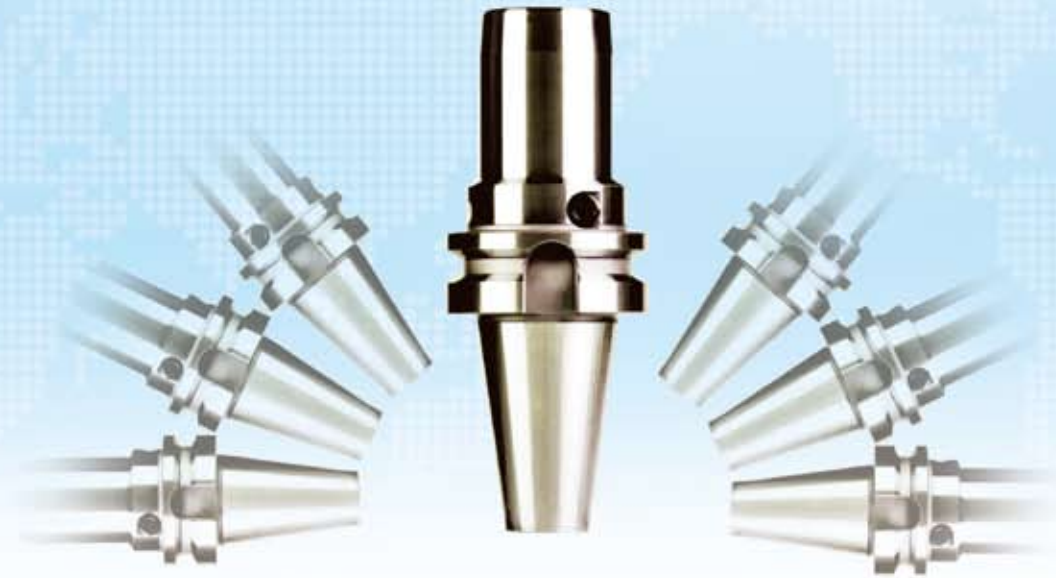
型号 Model No.	d1	D	D1	D2	L1	L2	G
CDC3-SSD4-60	4	32	11	21	60	17	-
CDC3-SSD5-60	5	32	13	23	60	23	-
CDC3-SSD6-60	6	32	21	27	60	36	M5 × 0.8
CDC3-SSD8-60	8	32	21	27	60	36	M6 × 1.0
CDC3-SSD10-80	10	32	24	32	80	41	M8 × 1.0
CDC3-SSD12-80	12	32	24	32	80	47	M10 × 1.0
CDC4-SSD4-70	4	40	20	21	70	17	-
CDC4-SSD5-70	5	40	20	23	70	23	-
CDC4-SSD6-70	6	40	24	27	70	36	M5 × 0.8
CDC4-SSD8-70	8	40	24	27	70	36	M6 × 1.0
CDC4-SSD10-70	10	40	20	32	70	42	M8 × 1.0
CDC4-SSD12-70	12	40	27	32	70	47	M10 × 1.0
CDC4-SSD16-70	16	40	24	34	70	50	M12 × 1.0
CDC5-SSD5-80	5	50	20	23	80	23	-
CDC5-SSD6-80	6	50	24	27	80	36	M5 × 0.8
CDC5-SSD8-80	8	50	24	27	80	36	M6 × 1.0
CDC5-SSD10-85	10	50	20	32	85	42	M8 × 1.0
CDC5-SSD12-90	12	50	27	32	90	47	M10 × 1.0
CDC5-SSD16-95	16	50	24	34	95	50	M12 × 1.0
CDC6-SSD6-80	6	63	24	27	80	58	M5 × 0.8
CDC6-SSD8-80	8	63	24	27	80	58	M6 × 1.0
CDC6-SSD10-85	10	63	20	32	85	63	M8 × 1.0
CDC6-SSD12-90	12	63	27	32	90	63	M10 × 1.0
CDC6-SSD16-95	16	63	24	34	95	63	M12 × 1.0
CDC6-SSD20-100	20	63	33	42	100	73	M16 × 1.0
CDC8-SSD12-90	12	80	27	32	90	63	M10 × 1.0
CDC8-SSD16-95	16	80	24	34	95	63	M12 × 1.0
CDC8-SSD20-95	20	80	33	42	95	68	M16 × 1.0
CDC8-SSD25-100	25	80	33	42	100	73	M16 × 1.0
CDC8-SSD32-100	32	80	44	53	100	70	M16 × 1.0

高精度**HC**液压数控刀柄

High accuracy hydraulic collet chuck

特点

- ◎ 操作简单的锁紧作业: _____
只需拧紧一个加压螺栓 实现轻松装卸任何人都可以做到高精度夹持!
- ◎ Operation simple lock operation:
Simply tighten a pressure bolt to achieve easy loading and unloading of any person can do high precision clip!
- ◎ 液压刀柄具有免维护功能和抗污能力 _____
- ◎ Hydraulic chuck is maintenance free function and anti fouling ability



- ◎ 高转速下可实现稳定的加工 _____
- ◎ At high speed to achieve stable processing speed

刀柄规格 Model No.	动平衡 Balance
BT30	20000rpm
BT40	15000rpm
BT50	10000rpm
HSK63A	20000rpm
HSK100A	15000rpm

高精度液压数控刀柄系列 HIGH ACCURACY HYDRAULIC CHUCKS SERIES

》》》 刀具柄径公差 (h6), 是360度全接触夹持, 具备高夹持力且中心内冷
Tool shank diameter tolerance (h6), 360 degree contact clamp, with high clamping force and Central coolant



创新液压膨胀技术:

- 结构设计创新
- 液压介质创新
- 密封材料创新

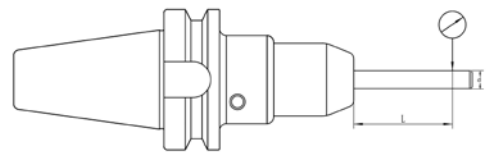
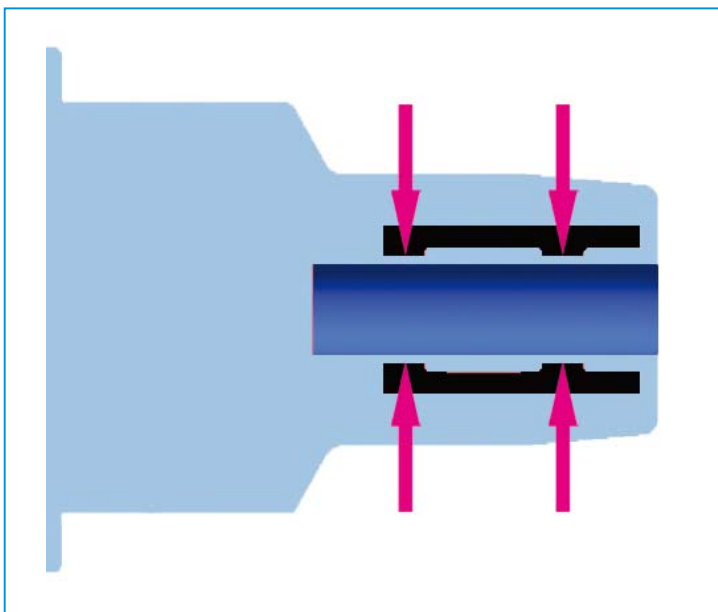
Innovation of hydraulic expansion technology:

- Structural design innovation
- Hydraulic medium Innovation
- Sealing material innovation

液压刀柄 Hydraulic Chucks	刀具柄径 Tool Shank	适用动平衡 Balance	最低夹紧深度 (mm) Min clamping	夹紧力 (Nm) Clamping
6	6	4000rpm	27	8
8	8	4000rpm	27	15
10	10	4000rpm	32	30
12	12	4000rpm	27	45
14	14	4000rpm	37	75
16	16	4000rpm	42	120
18	18	4000rpm	42	170
20	20	4000rpm	42	230
25	25	2500rpm	48	300
32	32	2500rpm	55	400

》》》 利用液压使刀柄内径收缩, 通过2点油压加紧, 精度稳定;
Use hydraulic pressure to make the handle diameter shrinkage, oil pressure by 2 PM Tight, stable precision

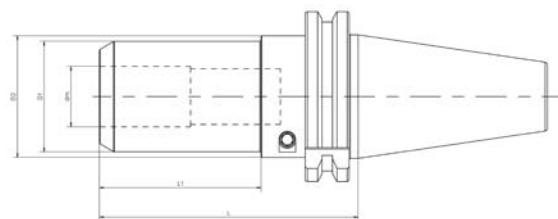
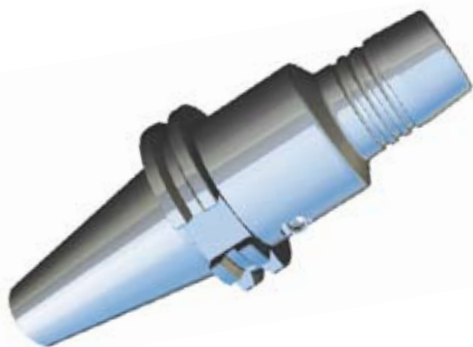
》》》 高精度
High accuracy



L	径跳精度 Run out
4 × d	≤ 3 μ

高精度液压数控刀柄系列 HIGH ACCURACY HYDRAULIC CHUCKS SERIES

CD0601-01 液压数控刀柄SK(DIN69871)-HC HYDRAULIC CHUCKS SK(DIN69871)-HC



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



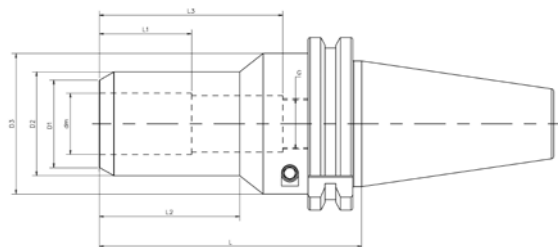
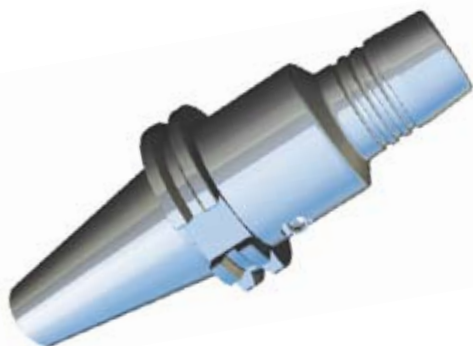
内孔径跳
Bore diameter jumping



表面硬度
Surface hardness

型号 Model No.	尺寸Size(mm)					卡簧 Collet
	dm	D1	D2	L1	L	
SK40-HC06-75	6	28	50	35	75	-
SK40-HC08-75	8	30	50	35	75	-
SK40-HC10-75	10	32	50	35	75	-
SK40-HC12-80	12	35	50	43	80	HC12
SK40-HC14-90	14	38	50	51	90	-
SK40-HC16-90	16	38	50	51	90	-
SK40-HC20-90	20	42	50	52	90	HC12
SK40-HC25-120	25	57	70	63	120	-
SK40-HC32-120	32	64	70	65	120	HC12
SK50-HC06-75	6	28	50	35	75	-
SK50-HC08-75	8	30	50	35	75	-
SK50-HC10-75	10	32	50	35	75	-
SK50-HC12-80	12	35	50	43	80	HC12
SK50-HC14-90	14	38	50	51	90	-
SK50-HC16-90	16	38	50	51	90	-
SK50-HC20-90	20	42	50	52	90	HC12
SK50-HC25-100	25	57	70	63	100	-
SK50-HC32-100	32	64	70	65	100	HC12

CD0601-02 工具磨专用液压刀柄 TOOL GRINDING SPECIAL HYDRAULIC CHUCK



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping



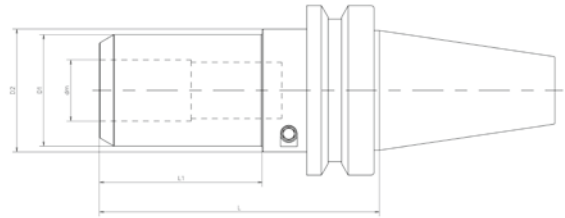
表面硬度
Surface hardness

型号 Model No.	尺寸Size(mm)									卡簧 Collet
	dm	D1	D2	D3	L	L1	L2	L3	G	
SK50-HC12-100	12	21.5	42	60	100	31	35	50	M8 × 1	HC12
SK50-HC20-100	20	28	42	70	100	31	35	95	M16 × 1	HC20
SK50-HC32-100	32	40	54	70	100	41	45	95	M16 × 1	HC32

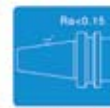
L1为最短夹持深度, L3为最长夹持深度. L1 is minimum clamping depth, L2 is maximum clamping depth.

高精度液压数控刀柄系列 HIGH ACCURACY HYDRAULIC CHUCKS SERIES

CD0601-03 BT-HC液压数控刀柄 BT-HC HYDRAULIC CHUCKS



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping

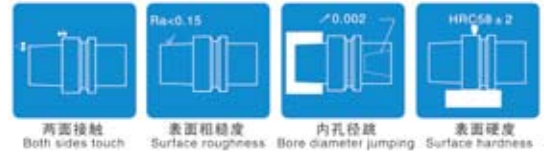
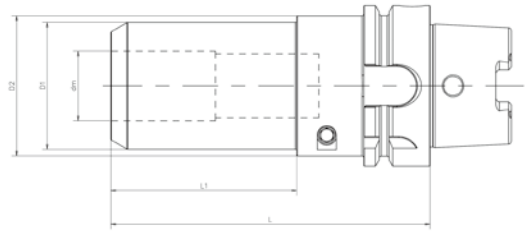


表面硬度
Surface hardness

型号 Model No.	尺寸Size(mm)					卡簧 Collet
	dm	D1	D2	L1	L	
BT30-HC06-80	06	28	50	35	80	-
BT30-HC08-80	08	30	50	35	80	-
BT30-HC10-80	10	32	50	35	80	-
BT30-HC12-80	12	35	50	43	90	HC12
BT30-HC14-95	14	38	50	51	95	-
BT30-HC16-95	16	38	50	51	95	-
BT30-HC20-95	20	42	50	52	95	HC20
BT40-HC06-85	06	28	50	35	85	-
BT40-HC08-85	08	30	50	35	85	-
BT40-HC10-85	10	32	50	35	85	-
BT40-HC12-90	12	35	50	43	90	HC12
BT40-HC14-95	14	38	50	51	95	-
BT40-HC16-95	16	38	50	51	95	-
BT40-HC20-95	20	42	50	52	95	HC20
BT40-HC25-115	25	57	70	63	115	-
BT40-HC32-115	32	64	70	65	115	HC32
BT50-HC06-95	06	28	50	35	95	-
BT50-HC08-95	08	30	50	35	95	-
BT50-HC10-95	10	32	50	35	95	-
BT50-HC12-100	12	35	50	43	100	HC12
BT50-HC14-105	14	38	50	51	105	-
BT50-HC16-105	16	38	50	51	105	-
BT50-HC20-95	20	42	50	52	105	HC20
BT50-HC25-120	25	57	70	63	120	-
BT50-HC32-120	32	64	70	65	120	HC32

高精度液压数控刀柄系列 HIGH ACCURACY HYDRAULIC CHUCKS SERIES

>>> CD0601-04 液压数控刀柄 HSK-HC(DIN 69893) HYDRAULIC CHUCKSHSK(DIN 69893)-HC



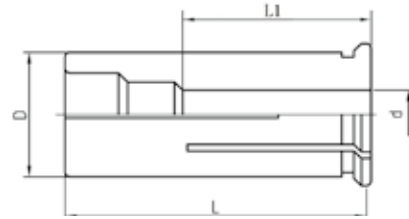
型号 Model No.	尺寸Size(mm)						卡簧 Collet
	Dh	dm	D1	D2	L1	L	
HSK63A-HC06-80	63	6	28	50	35	80	-
HSK63A-HC08-80	63	8	30	50	35	80	-
HSK63A-HC10-80	63	10	32	50	35	80	-
HSK63A-HC12-90	63	12	35	50	43	90	HC12
HSK63A-HC14-95	63	14	38	50	51	95	-
HSK63A-HC16-95	63	16	38	50	51	95	-
HSK63A-HC20-95	63	20	42	50	52	95	HC20
HSK63A-HC25-125	63	25	57	70	63	125	-
HSK63A-HC32-125	63	32	64	70	65	125	HC32
HSK100A-HC06-85	100	6	28	50	35	85	-
HSK100A-HC08-85	100	8	30	50	35	85	-
HSK100A-HC10-85	100	10	32	50	35	85	-
HSK100A-HC12-95	100	12	35	50	43	95	HC12
HSK100A-HC14-100	100	14	38	50	51	100	-
HSK100A-HC16-100	100	16	38	50	51	100	-
HSK100A-HC20-105	100	20	42	50	52	105	HC20
HSK100A-HC25-110	100	25	57	70	63	110	-
HSK100A-HC32-110	100	32	64	70	65	110	HC32

高精度液压数控刀柄系列 HIGH ACCURACY HYDRAULIC CHUCKS SERIES

CD0602-01 液压直柄筒夹 HYDRAULIC STRAIGHT COLLET



- ◎ 材质: SUJ2
- ◎ 硬度: 46-50HRC
- ◎ Material: SUJ2
- ◎ Hardness: 46-50HRC



- ◎ 切削刀具柄径必须完全接触贯穿筒夹夹持有效长度。
- ◎ 液压直柄筒夹必须完全插入到液压柄孔径中，直至肩部与液压柄前端面贴合。
- ◎ 切削刀具的柄径公差等级为h6。
- ◎ Cutting tool shank diameter must be fully contact throughout the collet clamping length effectively.
- ◎ Hydraulic collet must be fully inserted into the hydraulic shank aperture, and the hydraulic shank the front end surface fit.
- ◎ Cutting tools shank diameter tolerance H6.

d	测量距离	径向跳动 Run out(mm)	
		A级 A class	AA级 AA class
12	3d	≤0.005	≤0.003
20			
32			

型号 Model No.	3尺寸Size(mm)			
	D	d	L	L1
HC12-4	12	4	42	25
HC12-5	12	5	42	25
HC12-6	12	6	42	32
HC12-7	12	7	42	33
HC12-8	12	8	42	33
HC12-9	12	9	42	33
HC12-10	12	10	42	36
HC20-3	20	3	52	24
HC20-4	20	4	52	24
HC20-5	20	5	52	24
HC20-6	20	6	52	32
HC20-7	20	7	52	33
HC20-8	20	8	52	33
HC20-9	20	9	52	34
HC20-10	20	10	52	36
HC20-12	20	12	52	36
HC20-14	20	14	52	41
HC20-16	20	16	52	41
HC20-18	20	18	52	44
HC32-6	32	6	63	33
HC32-7	32	7	63	33
HC32-8	32	8	63	33
HC32-9	32	9	63	33
HC32-10	32	10	63	36
HC32-12	32	12	63	41
HC32-14	32	14	63	42
HC32-16	32	16	63	44
HC32-18	32	18	63	45
HC32-20	32	20	63	46
HC32-22	32	22	63	46
HC32-25	32	25	63	47

C直柄筒夹系列 C STRAIGHT COLLET SERIES

高速、高精度、高寿命直柄刀具系列

特点:

- ◆可提供两种外观:筒夹光饰、刀柄整体涂层处理;
- ◆表面“环保”特殊涂层处理,提高表面硬度、耐磨性,提高清洁度,精度更稳定,表面更光滑,防锈、防腐蚀效果更好,手感更舒适,外观更美观。
- ◆精做动平衡G6.3 12000rpm
- ◆刀柄柄体、压帽、夹头都做深冷处理及热时效处理。

High speed,high accuracy,high service C-straight tool series

- ◆Two kinds looks provide:polishing or chemical nickel-plating processing ;
- ◆Surface” environmental protection” , special coating surface treatment, improve the hardness and endurance of the surface, cleanness better, accuracy stable, surface more smooth, antirust, feel comfortable, appearance nice.
- ◆Precision balance G6.3 12000RPM
- ◆Chuck shank、lock nut、collet do cryogenic treatment and thermal aging treatment.



》》》 精湛的/加工/工艺 Superb machining technology

*深冷处理

- 1、-196℃超长深冷处理,使接近全部的残余奥氏体转变为马氏体;
- 2、析出的纳米级碳化物颗粒,增加硬度和韧性;
- 3、减少残余应力;
- 4、耐磨性显著提高。

*Cryogenic treatment

- 1.-196℃ long cryogenic, nearly all of the residual austenite into martensite;
2. Carbide precipitation of Nanoscale particles, increasing the hardness and toughness;
3. Reducing residual stresses;
4. Wear resistance significantly improved.

*时效处理

*≥超长定型热时效去除磨加工时的残余内应力。

* Thermal aging processing

≥long stereotyped thermal limitation removal of grinding residual stress。



深冷处理 (Cryogenic treatment)



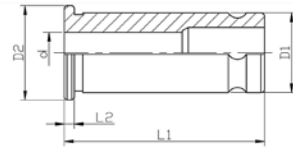
时效处理 (Thermal aging processing)

C直柄筒夹系列 C STRAIGHT COLLET SERIES

CD0701-01 C直柄筒夹 C STRAIGHT COLLET



- ◎ 材质: SUJ2
- ◎ 硬度: 46-50HRC
- ◎ Material: SUJ2
- ◎ Hardness: 46-50HRC



型号 Model No.	D1	D2	d	L1	L2
C16	16	20	3,4,5,6,8,10,12	47	2
C20	20	23.5	3,4,5,6,8,10,12,14,16	50	2.5
C22	22	26	3,4,5,6,8,10,12,14,16	55	3.5
C25	25	30	3,4,5,6,8,10,12,14,16,18,20	60	2.5
C32	32	36	3,4,5,6,8,10,12,14,15,16,18,20,22,24,25	65	4
C40	40	44	6,8,10,12,14,16,18,20,25,28,30,32	78	4
C42	42	48	3,4,5,6,8,10,12,14,16,18,20,22,24,25,28,30,32	78	4

英制规格可订购 Inch size can be ordered

CD0701-02 K直柄筒夹 K STRAIGHT COLLET



型号 Model No.	D1	D2	d	L1	L2
K20	20	25	3,4,5,6,8,10,12,14,16	55	5
K25	25	28	3,4,5,6,8,10,12,14,16,18,20	60	5
K32	32	36	3,4,5,6,8,10,12,14,16,18,20,25	65	5
K42	42	45	3,4,5,6,8,10,12,14,16,18,20,25,28,30,32	70	5

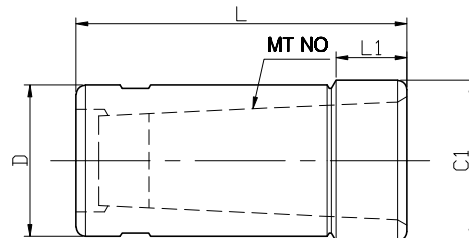
英制规格可订购 Inch size can be ordered

筒夹精度检测: Inspection of Accuracy

d	L	径向跳动 Run out(mm)		
		普通级 Average level	A级 A class	AA级 AA class
< 10	30	0.015	0.01	0.005
≥ 10-20	50	0.015	0.01	
> 20	80	0.02	0.01	



CD0701-03 直柄莫氏斜度套筒 STRAIGHT SHANK MORSE TAPER SLEEVE



型号 Model No.	Taper	L	L1	D	C1
C20	MT1, MT2	59,70	5,20	20	25
C25	MT1, MT2	59,70	3,11	25	29
C32	MT1, MT2, MT3	59,70,88	3,8,26	32	37
C42	MT1, MT2, MT3, MT4	59,70,90,115	5,5,5,18	42	48

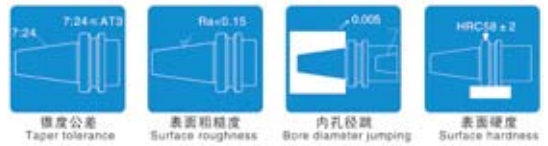
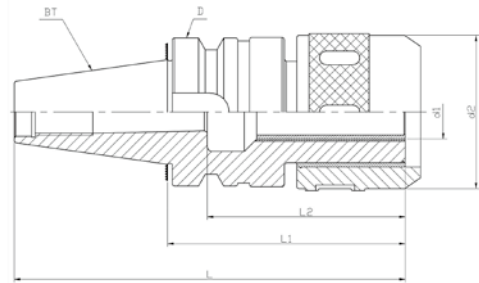
◇ 无特殊要求, 一般按A级供货, 如需要普通级、AA级则需特殊定货。

◇ If no special requirement we would supply to you according to A grade; if you require AVERAGE LEVEL, AA grade.

C直柄筒夹系列 C STRAIGHT COLLET SERIES

CD0702-01 BT/SK(DIN69871)/CAT 强力型立铣刀柄 BT/SK(DIN69871)/CAT NEEDLE ROLLER TYPE MILLING CHUCK

型号 Model No.	L	L1	L2	D	d1	d2		
BT30-C20-75	123.4	75	70	46	20	55		
BT30-C20-90	138.4	90			22	58		
BT30-C22-90	138.4	90			25			
BT30-C25-80	128.4	80			32	68		
BT30-C32-100	148.4	100	75	63	20	55		
BT40-C20-90	155.4	90	70		22	58		
BT40-C22-90	155.4	90			25			
BT40-C25-95	160.4	95			32	68		
BT40-C25-130	195.4	130	75	63	20	55		
BT40-C32-95	160.4	95			22	58		
BT40-C32-105	170.4	105			25			
BT40-C32-135	200.4	135			32	68		
BT50-C20-100	165.4	100	70	100	20	55		
BT50-C20-105	170.4	105			75	68		
BT50-C20-115	180.4	115					20	58
BT50-C20-150	215.4	150						
BT50-C25-95	196.8	95	75	100	32	68		
BT50-C25-105	170.4	105					90	84
BT50-C25-135	200.4	135			20	55		
BT50-C32-105	206.8	105					70	50
BT50-C32-135	236.8	135	70	50	20	55		
BT50-C32-165	266.8	165					70	50
BT50-C32-200	265.4	100	70	50	20	55		
BT50-C32-250	315.4	100					70	50
BT50-C32-300	365.4	100	70	50	20	55		
BT50-C42-115	216.8	115					90	50
BT50-C42-135	236.8	135	70	50	20	55		
BT50-C42-165	266.8	165					70	50
SK30-C20-85	132.8	85	70	50	20	55		
SK30-C20-100	147.8	100					75	68
SK30-C32-135	182.8	135			70	63.55		
SK40-C20-85	153.4	85	70	63.55			32	68
SK40-C20-100	168.4	100			70	63.55		
SK40-C20-135	203.4	135	75	63.55			32	68
SK40-C32-105	173.4	105			70	63.55		
SK50-C20-105	206.75	105	75	97.5			32	68
SK50-C32-110	211.75	110			90	97.5		
SK50-C32-135	236.75	135	2.5	0.75			2.17	
SK50-C42-110	211.75	110			3.875	0.75		2.17
CAT40-C3/4"-3.385"	5.23	3.385	2.56	1.25			2.87	
CAT40-C3/4"-4.13"	6.82	4.13			0.75	2.17		
CAT40-C1-1/4"-4.53"	7.21	3.35	2.56	1.25			2.87	
CAT50-C3/4"-4.13"	8.13	4.13			3.875	0.75		2.17
CAT50-C1-1/4"-4.13"	8.13	4.13	2.76	1.25			2.87	



- ◎材质: 20CrMnTi/SCM415
- ◎硬度: 56-60HRC, 渗碳深度 > 0.8mm
- ◎锥柄公差等级: ≤AT3
- ◎刀柄柄体做-196℃超长深冷处理及热时效处理。
- ◎预设动平衡G6.3-8000rpm, 精密动平衡G6.3-12000rpm
- ◎刀柄内孔分割了六槽以防止刀具转动, 增大夹持力
- ◎采用特殊材料制做滚珠轴承保持架, 延长了使用寿命, 增强了夹紧力
- ◎具有夹持力大, 定心精度高, 特别用于强力切削

- ◎Material: 20CrMnTi/SCM415
- ◎Hardness: 56-60HRC, Carbon depth > 0.8mm
- ◎Tolerance class: ≤AT3
- ◎Default standard balancing G6.3-8000rpm, precision dynamic balancing G6.3-12000rpm
- ◎Inner hole of the shank divide into 6 troughs to prevent the insert remove, increase the grasp force
- ◎Ball bearing cage is made of special material, improve the endurance, enhance the grasp force
- ◎Grasp force strong, centering accuracy high, suit to heavy cutting

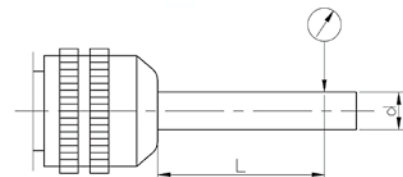


精度检测 Inspection of accuracy

d	L	锥柄形式(BT/SK/CAT)	工作长度L	径向跳动 run out	动平衡等级(G6.3) Balance	
20	60	30/40/50	≤165	≤10 μ	8000rpm	12000rpm
22	70					
25	70					
32	80					
42	100	50		≤20 μ		

如需AD+B型订购时需注明, 例如: BT40 (AD+B)-C32-90

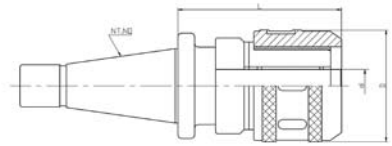
Note: If need AD+B type, please specify For example BT40 (AD+B)-C32-90



C直柄筒夹系列 C STRAIGHT COLLET SERIES

CD0702-02 NT强力型立铣刀柄 NT NEEDLE ROLLER TYPE MILLING CHUCK

型号 Model No.	d	D	L	Draw bolt (连接螺纹)
NT30-C25-80	25	58	80	1/2"-13UNC, M12 × 1.75P
NT30-C32-90	32	68	90	
NT40-C25-80	25	58	80	5/8"-11UNC, M16 × 2.0P
NT40-C32-85	32	68	85	
NT50-C25-85	25	58	85	1"-8UNC, M24 × 3.0P
NT50-C32-90	32	68	90	
NT50-C32-150	32	68	150	
NT50-C42-95	42	84	95	

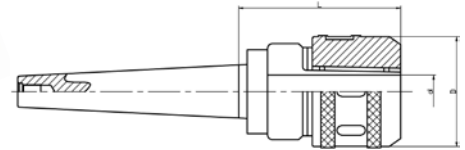


◇ 请订购时注明刀柄拉杆螺纹为英制或公制。

◇ When ordering, please specify the draw bolt for inch size or metric size.

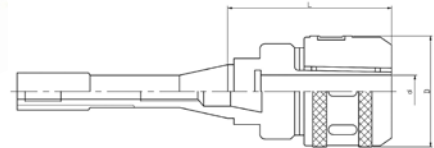
CD0702-03 莫氏强力立铣刀柄 MOSER TAPER SHANK MILLING CHUCK

型号 Model No.	d	D	L
MT3-C25-70	25	58	70
MT4-C25-70	25	58	70
MT4-C32-80	32	68	80
MT5-C32-80	32	68	80
MT5-C42-90	42	84	90



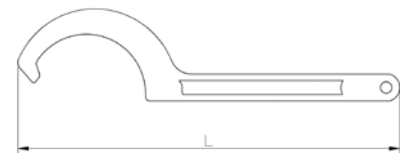
CD0702-04 R8强力型立铣刀柄 R8 NEEDLE ROLLER TYPE MILLING CHUCK

型号 Model No.	d	D	L
R8-C25-70	25	58	70
R8-C32-75	32	68	75



CD0703-01 C型扳手 C TYPE SPANNER

型号 Model No.	规格 Type	L
C20	55-62	214
C22	55-62	214
C25	55-62	214
C32	68-72	235
C42	78-85	261



CD0704-01 强力型铣夹头套装 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。
- ◎ 可适用于机床锥度为MS2-MS5;7;24 30-50 及R8锥的各种机床。
- ◎ 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: MS2-MS5;7;24 30-50 R8.

◎ A set includes 1 collet chuck, 1 full set of collets and 1 spanner.

注：订购时，筒夹请注明普通级、A级或AA级。订购时请注明木盒或铝盒。

Note: when ordering please specify collet class: common、A class、AA class. and specify the packing wooden case or aluminum case.

型号 Model No.	夹持孔径 Clamping hole	支/套 PCS/SET	型号 Model	夹持孔径 Clamping hole	支/套 PCS/SET
C16	4,5,6,8,10,12	6	C32	4,5,6,8,10,12,14,16,18,20,25	11
C20	4,5,6,8,10,12,14,16	8	C32	6,8,10,12,(14),16,20,25	7 (8)
C22	4,5,6,8,10,12,14,16	8	C42	6,8,10,12,14,16,18,20,25,28,30,32	12
C25	3,4,5,6,8,10,12,14,16,18,20	11	C42	6,8,10,12,16,20,25,32	8

EOC(OZ)筒夹系列 EOC(OZ) COLLET SERIES

EOC/OZ高速、高精度、高寿命筒夹系列

特点:

- ◎材质: SUJ2/42CrMo;
- ◎硬度: 46-50HRC;
- ◎筒夹空刀槽采用磨削加工工艺, 更适合于高速加工;
- ◎内孔、外圆及端面精密研磨, 可达Ra0.4;
- ◎表面“环保”特殊涂层处理, 提高表面硬度、耐磨性, 提高清洁度, 精度更稳定, 表面更光滑, 防锈、防腐蚀效果更好, 手感更舒适, 外观更美观。

High precision high durability EOC/OZ collet series

- ◎Material:; SUJ2/42CrMo;
- ◎Hardness:46-50HRC;
- ◎Inner hole grinding for many times, so as to reach Ra0.4,has a mirror effect;
- ◎Collet groove use grinding process, suitable for high speed machining;
- ◎End and the cylindrical are grinding for many times, can reach Ra0.4,has a mirror effect;
- ◎Surface" environmental protection", special coating surface treatment, improve the hardness and endurance of the surface, cleanliness better, accuracy stable, surface more smooth, antirust, feel comfortable, appearance nice.



》》》 精湛的加工/工艺 Superb machining technology

*深冷处理

- 1、-196℃超长深冷处理, 使接近全部的残余奥氏体转变为马氏体;
- 2、析出的纳米级碳化物颗粒, 增加硬度和韧性;
- 3、减少残余应力;
- 4、耐磨性显著提高。

*Cryogenic treatment

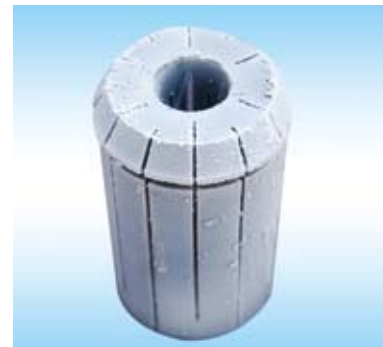
- 1.-196℃ long cryogenic, nearly all of the residual austenite into martensite;
2. Carbide precipitation of Nanoscale particles, increasing the hardness and toughness;
3. Reducing residual stresses;
4. Wear resistance significantly improved.

*时效处理

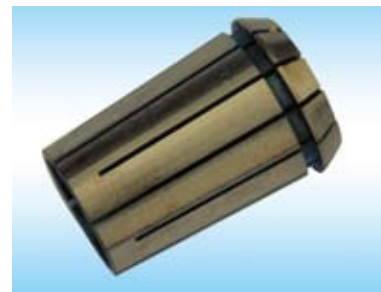
- * ≥ 超长定型热时效去除磨加工时的残余内应力。

* Thermal aging processing

- ≥ long stereotyped thermal limitation removal of grinding residual stress.



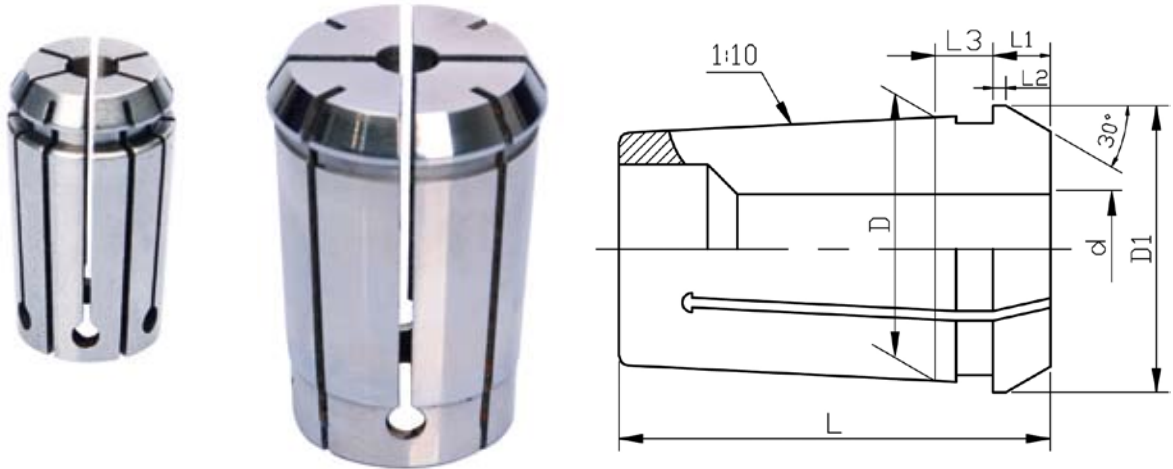
深冷处理 (Cryogenic treatment)



时效处理 (Thermal aging processing)

EOC(OZ)筒夹系列 EOC(OZ) COLLET SERIES

CD0801-01 DIN6388A EOC(OZ)筒夹 DIN6388A EOC(OZ)COLLETS



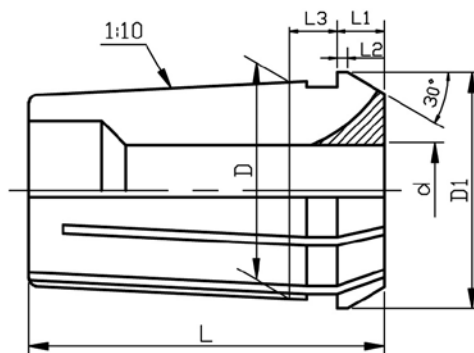
型号 Model No.	D	D1	dH7	L	L1	L2	L3
EOC 6A	10	11.5	1-6	21	3.5	0.5	4
EOC 8A	12.65	14.5	1-8	26	4	0.8	4.5
EOC 10A	15.15	17.2	1-10	30	4.5	0.8	4.5
EOC 12A	17.75	19.8	1-12	34	5	1.1	4.5
EOC 16A	22.65	25.5	2-16	40	5.5	1.2	5.5
EOC 20A	27.4	29.8	2-20	45	6	1.35	6
EOC 25A	32.9	35.05	2-25	52	6	1.4	6
EOC 32A	41.3	43.7	4-32	60	6	1.45	7
EOC 40A	49.7	52.2	6-40	68	6	1.45	8
EOC 50A	61.1	63.8	8-50	80	7	1.55	9

夹持工件或刀具柄公差：h6 Clamp workpiece or tooling shank tolerance: h6

型号 Model No.	规格 Type d
EOC 6A	1,2,3,4,5,6
EOC 8A	1,2,3,4,5,6,7,8
EOC 10A	1,2,3,4,5,6,7,8,9,10
EOC 12A	1,2,3,4,5,6,7,8,9,10,11,12
EOC 16A	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
EOC 20A	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,
EOC 25A	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
EOC 32A	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32
EOC 40A	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40
EOC 50A	8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50

型号 Model No.	规格 Type inch
EOC25(OZ25)	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"
EOC32(OZ32)	1/4,15/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1",1-1/8",1-1/4"

EOC(OZ)筒夹系列 EOC(OZ) COLLET SERIES

 CD0801-02 DIN6388B EOC(OZ)筒夹 EOC(OZ) COLLET


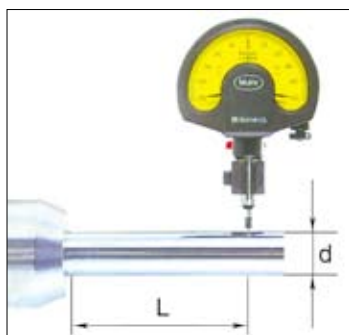
- ◎ 材质: SUJ2/42CrMo; ◎ 硬度: 46-50HRC
 ◎ Material: SUJ2/42CrMo; ◎ Hardness: 46-50HRC

型号 Model No.	D	D1	dH7	L	L1	L2	L3
EOC16B	22.65	25.5	2-16	40	5.5	1.2	9.5
EOC20B	27.4	29.8	2-20	45	6	1.35	10
EOC25B	32.9	35.05	2-25	52	6	1.4	10
EOC32B	41.3	43.7	4-32	60	6	1.45	11
EOC40B	49.7	52.2	6-40	68	6	1.45	12
EOC50B	61.1	63.8	8-50	80	7	1.55	13

最大夹持范围: 0.5mm Max clamping range: 0.5mm

型号 Model No.	规格 Type d
EOC 16B	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
EOC 20B	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,
EOC 25B	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
EOC 32B	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32
EOC 40B	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40
EOC 50B	8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46, 47,48, 49,50

精度检测: Inspection of Accuracy



◇ 定货举例

A级: EOC25A-6

AA级: EOC25A-6AA

A级: EOC25B-6

AA级: EOC25B-6AA

◇ Order example

A class: EOC25A-6

AA class: EOC25A-6AA

A class: EOC25B-6

AA class: EOC25B-6AA

L	d	径向跳动 Run-out tolerance		
		A级 A Class	AA级 AA Class	普通级 Average level
6	1-1.6	0.015	0.01	0.02
10	> 1.6-3			
16	> 3-6	0.01	0.005	0.015
25	> 6-10			
40	> 10-18			
50	> 18-24	0.015	0.01	0.02
60	> 24-30			
80	> 30-50			

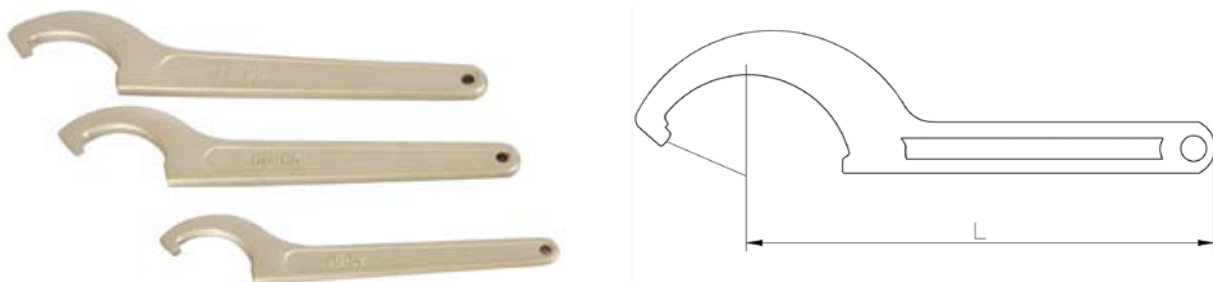
EOC(OZ)筒夹系列 EOC(OZ) COLLET SERIES

CD0802-01 EOC螺帽 EOC NUT



型号 Model No.	D	L	T
EOC 6	18	14	M14 × 1.0
EOC 8	26	19	M20 × 1.5
EOC 10	30	19	M22 × 1.5
EOC 12	35	20	M27 × 1.5
EOC 16	43	24	M33 × 1.5
EOC 20	50	28	M42 × 2.0
EOC 25	60	30	M48 × 2.0
EOC 32	72	33.5	M60 × 2.5
EOC 40	85	37	M68 × 2.5
EOC 50	100	43	M80 × 2.5

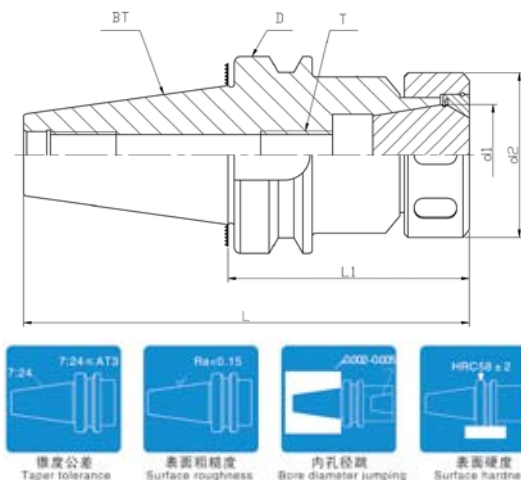
CD0803-01 EOC扳手 EOC SPANNER



型号 Model No.	L	适用螺帽外径 Dia of nuts	型号 Model	L	适用螺帽外径 Dia of nuts
EOC 6	90	18-21	EOC 20	190	45-52
EOC 8	125	22-26	EOC 25	215	55-62
EOC 10	140	28-32	EOC 32	230	68-72
EOC 12	154	34-36	EOC 40	262	78-85
EOC 16	167	38-42	EOC 50	250	100-110

EOC(OZ)筒夹系列 EOC(OZ) COLLET SERIES

CD0804-01 BT/EOC 立铣刀柄 BT/EOC MILLING CHUCK



- ◎材质: 20CrMnTi/SCM415
- ◎硬度: 56-60HRC, 渗碳深度 > 0.8mm
- ◎锥柄公差等级: ≤AT3
- ◎刀柄柄体做-196℃超长深冷处理及热时效处理。
- ◎预设动平衡G6.3-8000rpm, 精密动平衡G6.3-12000rpm。
- ◎刀柄外观整体涂层处理。

- ◎Material: 20CrMnTi/SCM415
- ◎Hardness: 56-60HRC Carbon Depth: >0.8mm
- ◎Precision taper: ≤AT3
- ◎Chuck shank do - 196 °C super-long cryogenic treatment and thermal aging treatment.
- ◎Default of dynamic balance standard: G6.3 8000rpm Precision dynamic balance:G6.3 12000rpm
- ◎surface coating processing

型号 Model No.	L	L1	D	d1	d2	T	KGS			
BT30-EOC25-70	118.4	70	46	32.9	60	M12 × 1.75P	1			
BT40-EOC25-70	135.4	70	63			41.3	M16 × 2.0P	1.65		
BT40-EOC25-100	165.4	100						2.25		
BT40-EOC32-80	145.4	80		2						
BT40-EOC32-105	170.4	105	100	32.9	60	M20 × 2.5P	2.2			
BT50-EOC25-85	186.8	85				100	41.3	M16 × 2.0P	4.4	
BT50-EOC25-100	201.8	100							4.8	
BT50-EOC32-90	191.8	90	4.6							
BT50-EOC32-105	206.8	105	50	32.9	60	M24 × 3.0P	4.85			
BT50-EOC32-120	221.8	120				5.35				
SK30-EOC25-80	127.8	80				63.55	41.3	72	M12X1.75P	1.5
SK40-EOC25-70	138.4	70	63.55	32.9	60				M16X2P	1.85
SK40-EOC25-100	168.4	100							2.3	
SK40-EOC25-120	188.4	120				2.55				
SK40-EOC32-90	158.4	90	97.5	41.3	72	M20X2.5P	1.95			
SK40-EOC32-120	188.4	120				2.35				
SK50-EOC25-70	171.75	70				97.5	32.9	60	M16X2.0P	3.25
SK50-EOC25-100	201.75	100	5.1							
SK50-EOC32-70	171.75	70	4.4							
SK50-EOC32-100	201.75	100	2.500 "	41.3	72	M24X3.0P	5.7			
CAT40-EOC25-3.15 "	5.837 "	3.15 "				2.500 "	1.295 "	2.362 "	M16X2.0P	1.55
CAT40-EOC25-4 "	6.687 "	4 "							2.55	
CAT40-EOC32-3.15 "	5.837 "	3.15 "	1.95							
CAT40-EOC32-4 "	6.687 "	4 "	3.875 "	1.626 "	2.835 "	M20X2.5P	2.35			
CAT50-EOC25-3.15 "	7.15 "	3.15 "				3.875 "	1.295 "	2.362 "	M16X2.0P	3.25
CAT50-EOC25-4 "	8 "	4 "							5.30	
CAT50-EOC25-6 "	10 "	6 "	4.40							
CAT50-EOC32-3.15 "	7.15 "	3.15 "	63	1.626 "	2.835 "	M20X2.5P	5.70			
CAT50-EOC32-4.70 "	8.70 "	4.7 "				6.10				
HSK63F-OZ25-78	103	78				5.0				

EOC(OZ)筒夹系列 EOC(OZ) COLLET SERIES

CD0804-02 EOC铣夹头刀柄 EOC MILLING CHUCK

型号 Model No.	L	L1	D	L2	t	T	KGS
MT2-EOC25	126	64	60	62	M6 × 1.0P	M48 × 2.0P	1.3
MT3-EOC25	144	81		63	M12 × 1.75P	M48 × 2.0P	1.4
MT4-EOC25	162	102.5		59.5	M16 × 2.0P	M48 × 2.0P	1.55
R8-EOC25	163	102		61	M12 × 1.75P	M48 × 2.0P	1.55
NT30-EOC25	128.5	68.4		59.6	M12 × 1.75P	M48 × 2.0P	1.35
NT40-EOC25	148	93.4		54.6	M16 × 2.0P	M48 × 2.0P	1.65
NT50-EOC25	185	126.8		58.2	M24 × 3.0P	M48 × 2.0P	3.45
MT4-EOC32	174	102.5	72	71.5	M16 × 2.0P	M60 × 2.5P	2.25
MT5-EOC32	200	129.5		70.5	M24 × 3.0P	M60 × 2.5P	2.45
NT40-EOC32	162	93.4		68.6	M16 × 2.0P	M60 × 2.5P	2.25
NT50-EOC32	230	126.8		103.2	M24 × 3.0P	M60 × 2.5P	3.95



CD0805-01 EOC(OZ)铣夹头套装 EOC(OZ)MILLING COLLET CHUCK SET



- ◎ 订货时，请注明夹头体的拉杆螺纹及夹头的规格（公制或英制）
- ◎ 我们还可以根据您的要求，提供不同规格及件数的成套夹簧、夹头体
- ◎ Please notify the thread of collet chuck draw bar and the specification of collets(metric or inch)
- ◎ We are glad to supply collets and chucks with different shank and quantities according to your requirement

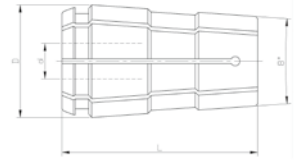
型号 Model No.	筒夹公制 Collets Metric	筒夹英制 Collets inch	本体后拉螺纹 Thread of draw bar		KGS
			公制	英制	
MT2-EOC25-7PCS	6,8,10,12,16,20,25	1/4,5/16,3/8,1/2,5/8,3/4,1"	M10 × 1.5P	3/8-16UNC	3.4
MT3-EOC25-7PCS			M12 × 1.75P	1/2-13UNC	3.8
MT4-EOC25-7PCS			M16 × 2P	5/8-11UNC	4
R8-EOC25-7PCS			M12 × 1.75P	7/16-20UNF	3.7
NT30-EOC25-7PCS			M12 × 1.75P	1/2-13UNC	3.5
NT40-EOC25-7PCS			M16 × 2P	5/8-11UNC	3.8
NT50-EOC25-7PCS			M24 × 3P	1"-8UNC	6.2
MT3-EOC25-15PCS	3,4,5,6,7,8,9,10,11,12,13,16,18,20,25	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"	M12 × 1.75P	1/2-13UNC	3.8
MT4-EOC25-15PCS			M16 × 2P	5/8-11UNC	4
R8-EOC25-15PCS			M12 × 1.75P	7/16-20UNF	3.7
NT30-EOC25-15PCS			M12 × 1.75P	1/2-13UNC	3.5
NT40-EOC25-15PCS			M16 × 2P	5/8-11UNC	3.8
NT50-EOC25-15PCS	M24 × 3P	1"-8UNC	6.2		
MT4-EOC32-8PCS	6,8,10,12,16,20,25,32	1/4,5/16,3/8,1/2,5/8,3/4,1",1-1/4	M16 × 2P	5/8-11UNC	4
MT5-EOC32-8PCS			M20 × 2.5P	3/4-10UNC	4.9
NT40-EOC32-8PCS			M16 × 2P	5/8-11UNC	4.8
NT50-EOC32-8PCS			M24 × 3P	1"-8UNC	6.2
MT4-EOC32-16PCS			M16 × 2P	5/8-11UNC	5.3
MT5-EOC32-16PCS	5,6,7,8,9,10,11,12,13,14,15,16,18,20,25,32	3/16,1/4,9/32,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1",1-1/4	M20 × 2.5P	3/4-10UNC	6.2
MT40-EOC32-16PCS			M16 × 2P	5/8-11UNC	6.1
MT50-EOC32-16PCS			M24 × 3P	1"-8UNC	7.5

筒夹系列 COLLET SERIES

CD0901-01 TG弹簧夹头 TG COLLETS



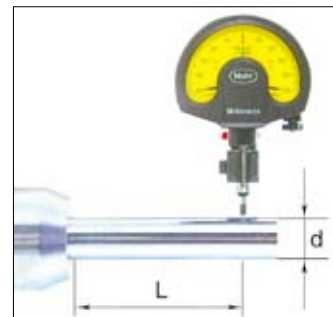
- ◎ 材质: 42CrMo
- ◎ Material: 42CrMo
- ◎ 硬度: 44-48HRC
- ◎ Hardness: 44-48HRC



型号 Model No.	规格 Type		D	L
	公制 metric(mm)	英制 inch		
TG75	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16,13/64,7/32,15/64,1/4,17/64,9/32,19/64,5/16,21/64,11/32,23/64,3/8,25/64,13/32,27/64,7/16,29/64,15/32,31/64,1/2,33/64,17/32,35/64,9/16,37/64,19/32,39/64,5/8,41/64,21/32,43/64,11/16,45/64,23/32,47/64,3/4,49/64,25/32,	27	46.9
TG100	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25	1/8,9/64,5/32,11/64,3/16,13/64,7/32,15/64,1/4,17/64,9/32,19/64,5/16,21/64,11/32,23/64,3/8,25/64,13/32,27/64,7/16,29/64,15/32,31/64,1/2,33/64,17/32,35/64,9/16,37/64,19/32,39/64,5/8,41/64,21/32,43/64,11/16,45/64,23/32,47/64,3/4,49/64,25/32,51/64,13/16,53/64,27/32,55/64,7/8,57/64,29/32,59/64,15/16,61/64,31/32,63/64,1"	35	60.5
TG150	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40	1/4,17/64,9/32,19/64,5/16,21/64,11/32,23/64,3/8,25/64,13/32,27/64,7/16,29/64,15/32,31/64,1/2,33/64,17/32,35/64,9/16,37/64,19/32,39/64,5/8,41/64,21/32,43/64,11/16,45/64,23/32,47/64,3/4,49/64,25/32,51/64,13/16,53/64,27/32,55/64,7/8,57/64,29/32,59/64,15/16,61/64,31/32,63/64,1"-1/64,1-1/32,1-3/64,1-1/16,1-5/64,1-3/32,1-7/64,1-1/8,1-9/64,1-5/32,1-11/64,1-3/16,1-13/64,1-7/32,1-15/64,1-1/4,1-17/64,1-9/32,1-19/64,1-5/16,1-21/64,1-11/32,1-23/64,1-3/8,1-25/64,1-13/32,1-27/64,1-7/16,1-29/64,1-15/32,1-31/64,1-1/2,1-33/64,1-17/32,1-35/64,1-9/16	50.8	76.2

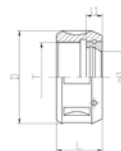
精度检测: Inspection of Accuracy

L1(mm)	d (mm)	径向跳动 Run out	
		A级 (A Class)	AA级 (AA Class)
6	1.0-1.5	0.015	0.01
10	> 1.5-3		
16	> 3-6		
25	> 6-10		
40	> 10-18	0.01	0.005
50	> 18-24		
60	> 24-32		



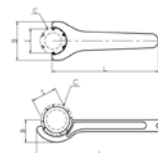
CD0902-01 TG拧紧螺帽 TG CLAMPING NUT

型号 Model No.	D	d1	L	l1	T	KGS
TG 75	50	22.7	25	8.2	TW 1-1/2 " -12	0.15
TG 100	60	29.1	30	10.5	TW 1-7/8 " -12	0.30
TG 150	82	42.4	35	10.5	TW 2-5/8 " -12	0.50



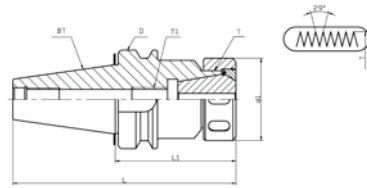
CD0903-01 TG扳手 TG SPANNER

型号 Model No.	USE RANGE	L	B	C	I	Fig	KGS
TG 75	50	253	75	50	46.5	1	0.30
TG 100	55-60	260	46	55-60	52	2	0.40
TG 150	80-90	272	64	80-90	67	2	0.50



筒夹系列 COLLET SERIES

CD0904-01 BT、CAT/TG 立铣刀柄 BT、CAT/TG MILLING CHUCK ARBORS



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping

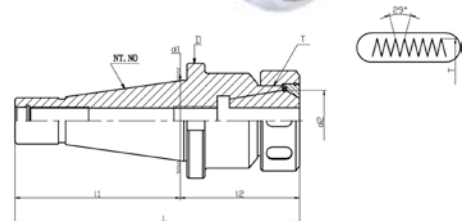


表面硬度
Surface hardness

型号 Model No.	L	L1	D	d1	T1	T	KGS
BT30-TG75-70	118.4	70	46	50	M16×2.0P	TW1-1/2"-12	1.10
BT30-TG75-100	148.4	100					1.15
BT30-TG100-100	148.4	100	-	60	M24×2.0P	TW1-7/8"-12	1.20
BT40-TG100-70	135.4	70					1.20
BT40-TG100-100	165.4	100	63	82	M24×2.0P	TW2-5/8"-12	1.30
BT40-TG100-120	185.4	120					2.40
BT40-TG150-105	170.4	105	63	82	M24×2.0P	TW2-5/8"-12	2.70
BT40-TG150-120	185.4	120					2.90
BT40-TG150-135	200.4	135	63	82	M24×2.0P	TW2-5/8"-12	3.20
BT50-TG100-85	186.8	85					3.40
BT50-TG100-100	201.8	100	100	60	M24×2.0P	TW1-7/8"-12	4.40
BT50-TG100-120	221.8	120					5.10
BT50-TG150-90	191.8	90	100	82	M24×2.0P	TW2-5/8"-12	5.70
BT50-TG150-105	206.8	105					6.10
BT50-TG150-120	221.8	120	100	82	M24×2.0P	TW2-5/8"-12	6.50
CAT40-TG75-2.75 "	5.437 "	2.75 "					2.5 "
CAT40-TG75-4 "	6.687 "	4 "	1.40				
CAT40-TG75-5 "	7.687 "	5 "	2.5 "	2.362 "	M16×2P	TW1-7/8 " -12	1.60
CAT40-TG100-3 "	5.687 "	3 "					1.20
CAT40-TG100-4 "	6.687 "	4 "	2.5 "	3.228 "	M16×2P	TW1-7/8 " -12	1.40
CAT40-TG100-6 "	8.687 "	6 "					2.55
CAT40-TG150-5 "	7.687 "	5 "	2.5 "	3.228 "	M16×2P	TW2-5/8 " -12	2.90
CAT40-TG150-6 "	8.687 "	6 "					3.70
CAT50-TG100-3 "	7 "	3 "	3.875 "	2.362 "	M24×3P	TW1-7/8 " -12	3.25
CAT50-TG100-4 "	8 "	4 "					4.40
CAT50-TG100-6 "	10 "	6 "	3.875 "	3.228 "	M24×3P	TW1-7/8 " -12	5.30
CAT50-TG150-5 "	9 "	5 "					5.70
CAT50-TG150-6 "	10 "	6 "	3.875 "	3.228 "	M24×3P	TW2-5/8 " -12	6.10
CAT50-TG150-7 "	11 "	7 "					6.50

CD0904-02 TG 刀柄 TG COLLET CHUCK

型号 Model No.	L	I1	I2	D	d1	d2	T	KGS
MTB3-TG75	136	81	55	40	23.825	26.97	TW 1-1/2 " -12	0.95
MTB4-TG75	159.5	102.5	57	40	31.267			1.20
R8-TG75	154	101	53	40	31.750			1.10
NT30-TG75	123.4	68.4	55	49	31.750			0.90
NT40-TG75	148.4	93.4	55	63	44.450			1.20
MTB3-TG100	144	81	63	49	23.825	35.02	TW 1-7/8 " -12	1.05
MTB4-TG100	167	102.5	64.5	49	31.267			1.30
R8-TG100	162	101	61	49	31.750			1.20
NT30-TG100	128	68.4	59.6	49	31.750			1.00
NT40-TG100	147.2	93.4	53.8	63	44.450			1.30
NT50-TG100	185.6	126.8	58.8	97.5	69.850	50.83	TW 1-5/8 " -12	3.15
MTB4-TG150	182.5	102.5	80	67	31.267			2.90
MTB5-TG150	209.5	129.5	80	67	44.399			3.50
NT40-TG150	173.4	93.4	80	63	44.450			2.90
NT50-TG150	206.8	126.8	80	97.5	69.850			4.75



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



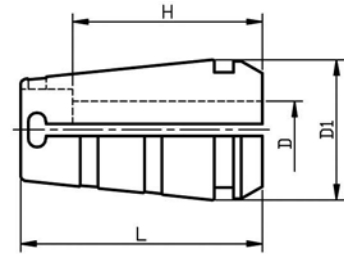
内孔径跳
Bore diameter jumping



表面硬度
Surface hardness

筒夹系列 COLLET SERIES

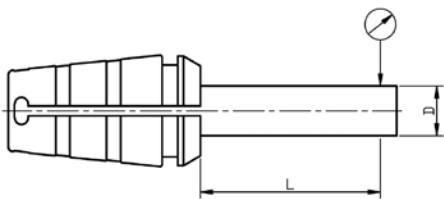
CD0905-01 CTH 筒夹 CTH COLLET



- ◆材质: SUJ2
- ◆硬度: 46-50HRC
- ◆两种外观: 发黑和光饰
- ◆Material: SUJ2
- ◆Hardness: 46-50HRC
- ◆Provide 2 kind appearance: Burnisher and Electroless plating process

型号 Model	D(H7)	D1	L	夹特长度 Length		θ	Collapsible Capacity
	公制			d	L1		
CTH10	2.6-10	17.2	26	2.6-5	16	8°	0.2
				5.2-5.8	18		
				6-10	20		
CTH20	6-20	29.8	50	6-9.8	29	6°	
				10-15.8	33		
				16-20	40		
CTH25	6-25	36.5	68	6-8	35	6°	
				10-15	46		
				15.5-20	54		
				20.5-25	57		
CTH32	25,28,30,32	46	80	25-28	66		
				30-32	68		
CTH40	32,40,42	56	80	32-40	65		
				42	70		

精度检测: inspection of Accuracy



L1	d	径向跳动 (Run out)	
		A级 (A class)	AA级 (AA class)
10	2.6-2.8	0.015	0.01
16	3-5.8	0.008	0.005
25	6-9.8		
40	10-13		
50	13-20	0.015	0.008
60	20-42		

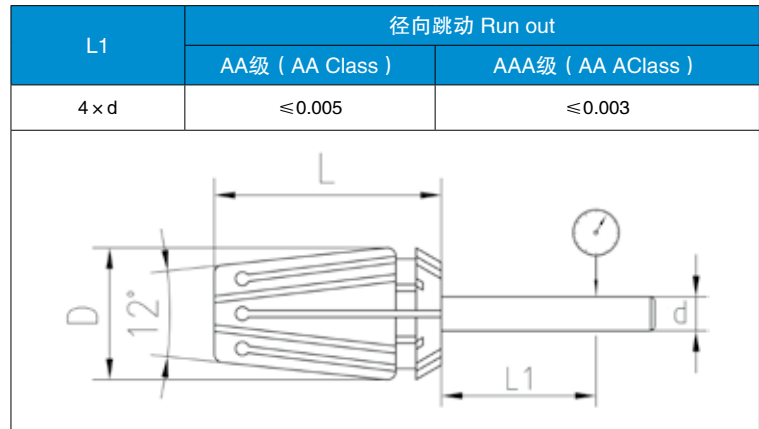
筒夹系列 COLLET SERIES

CD0906-01 NB 筒夹 NB COLLET

精度检测: Inspection of Accuracy

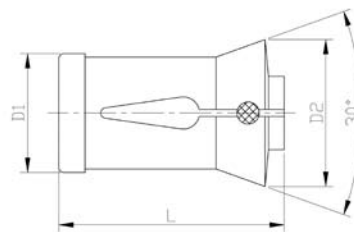


- ◆材质: SUJ2
- ◆硬度: 46-50HRC
- ◆两种外观: 光饰外观或涂层处理
- ◆Material: SUJ2
- ◆Hardness: 46-50HRC
- ◆Provide 2 kind appearance: Burnisher and Electroless plating process



型号 Model No.	d (H7)	D	L	Collapsible Capacity
NB6	1.0-6.0	9.5	14	0.25
NB8	1.0-3.0	12.5	18	0.25
	3.5-8.0	12.5	18	0.5
NB10	1.0-3.0	16.5	27	0.25
	3.5-10	16.5	27	0.5
NB13	3.0-13	20.5	31	0.5
NB16	3.0-16	25.5	35	0.5
NB20	3.0-20	28.5	38	0.5

CD0907-01 DIN6343夹紧夹头 DIN6343 CLAMPING COLLETS



- ◎ 材质: 42CrMo/20CrMnTi;
适用于各种车床、六角车床等
- ◎ Material: 42CrMo/20CrMnTi;
This unit is applicable to all sorts of automatic lathes, turret lathes

型号 Model No.	d	D1	D2	L	孔径 Hole size	KGS
DIN6343-F17.5	2-13	17.5	22	51	13	0.05
DIN6343-F22	2-16	22	30	55	16	0.09
DIN6343-F28	4-22	28	38	70	22	0.12
DIN6343-F32	4-26	32	45	75	26	0.27
DIN6343-F35	4-30	35	48	80	30	0.35
DIN6343-F42	4-36	42	55	94	36	0.49
DIN6343-F48	4-42	48	60	94	42	0.57
DIN6343-F56	8-50	56	68	94	50	0.66
DIN6343-F66	10-60	66	84	110	60	1.16

刀库导套系列 TOOL HOLDER SLEEVE COLLET SERIES

高精度刀库刀套系列

特点:

- ◆材料: 42CrMo;
- ◆硬度: 50-55HRC;
- ◆夹持刀具的同轴度: 10u
- ◆工序中作深冷处理及热时效处理, 提高了精度及尺寸的稳定性;
- ◆产品有莫氏锥度和直孔两种样式, 用于数控加工中心(转塔)刀架夹持刀具;
- ◆导套带有出水设计, 提高刀具的使用寿命;
- ◆表面涂层处理, 提高表面硬度、耐磨性, 提高清洁度, 精度更稳定, 表面更光滑, 防锈、防腐蚀效果更好, 手感更舒适, 外观更美观。

High precision Tool Holder Sleeve

- ◆Material:42CrMo;
- ◆Hardness:50-55HRC;
- ◆The concentricity of the clamping tools:10u;
- ◆Morse taper and straight hole two styles, used to clamping tool at CNC machining center;
- ◆Cryogenic treatment and thermal aging treatment have improved the stability of accuracy and dimensions;
- ◆Sleeve holders have water outlet design, increased the service time of tools;
- ◆Surface coating processing treatment, improve surface hardness and endurance, cleanliness better, antirust, accuracy more stable, surface more smooth, feel comfortable, and appearance nice.



》》》 精湛的加工工艺 Superb machining technology

*深冷处理

- 1、-196℃超长深冷处理, 使接近全部的残余奥氏体转变为马氏体;
- 2、析出的纳米级碳化物颗粒, 增加硬度和韧性;
- 3、减少残余应力;
- 4、耐磨性显著提高。

*Cryogenic treatment

- 1.-196℃ long cryogenic, nearly all of the residual austenite into martensite
2. Carbide precipitation of Nanoscale particles, increasing the hardness and toughness
3. Reducing residual stresses
4. Wear resistance significantly improved

*时效处理

*超长定型热时效去除磨加工时的残余内应力;

* Thermal aging processing

long stereotyped thermal limitation removal of grinding residual stress



深冷处理 (Cryogenic treatment)



时效处理 (Thermal aging processing)

刀库导套系列 TOOL HOLDER SLEEVE COLLET SERIES

CD1001-01 刀库导套 TOOL HOLDER SLEEVE



- ◇ 高精度 刀库导套 精度有0.01mm、0.015mm两类，由合金钢制造，用于数控车加工中心（转塔）刀架夹持刀具
- ◇ High accuracy of sleeve holders 0.01mm,0.015mm.
Suitable to hold cylindrical shank tools on turret at CNC lathe.

- ◎ 材料：42CrMo
- ◎ 热处理硬度：50-55HRC
- ◎ Material: 42CrMo
- ◎ Hardness : 50-55HRC

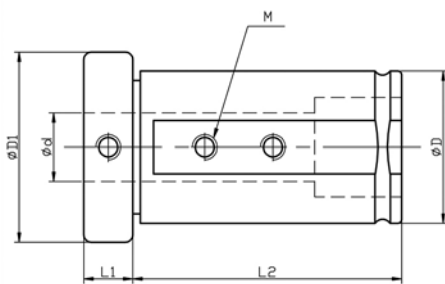


FIG1

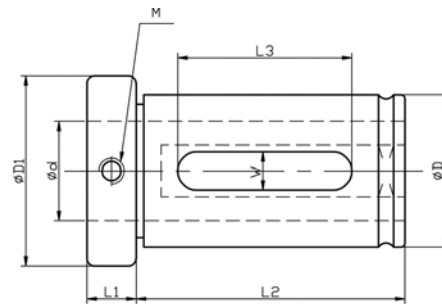


FIG2

D	d	D1	L1	L2(加长)	L3(加长)	W(加宽)	M	Fig.
40	8、10、12、16、20	46.5	15	80 (85)			M8	1
	25、32	46.5	15	80 (85)	65 (70)	12 (14)		2
32	6、8、10、12、14、16	39	14	70 (75)			M8	1
	20、25	39	14	70 (75)	58 (60)	10 (12)		2
25	8、10、12	33	14	50			M8	1
	16	33	14	50	42	10		2
20	8、10	28	12	50			M6	1
	12	28	12	50	42	8		2
16	8	24	10	40			M4	1
	10	24	10	40	34	6		2

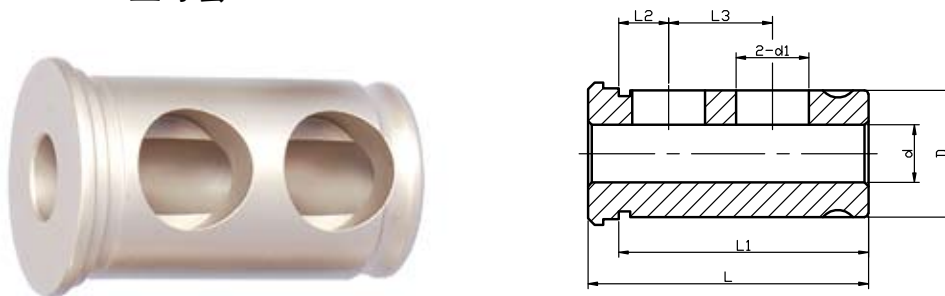
刀库导套系列 TOOL HOLDER SLEEVE COLLET SERIES

CD1001-02 刀库导套莫氏锥度套筒 MORSE TOOL HOLDER SLEEVE



型号 Model No.	Fig.	D	D	L	L1	MT		KGS
						MT No.	d	
D20-MT1	1	20	23.5	76	20	1	12.065	0.16
D20-MT2				93	35	2	17.780	0.13
D25-MT1		25	31	81	15	1	12.065	0.27
D25-MT2				93	20	2	17.780	0.24
D32-MT1	2	32	37.5	81	15	1	12.065	0.47
D32-MT2				91	20	2	17.780	0.46
D32-MT3				91	20	3	23.825	0.35
D42-MT1	1	42	47.5	96	20	1	12.065	1.02
D42-MT2				96	20	2	17.780	0.93
D42-MT3	2			92	15	3	23.825	0.76
D42-MT4				115	30	4	31.267	0.75

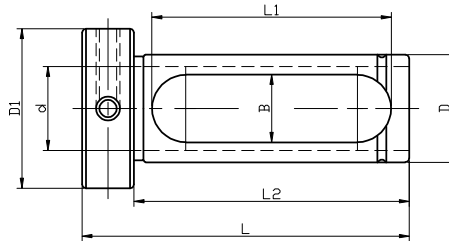
CD1002-01 J型导套 J SERIES SLEEVE



型号 Model No.	D	d	d1	L	L1	L2	L3
3/4 " -1-3/4 "	3/4 "	1/4 " ,5/16 " ,3/8 " ,1/2 "	3/8 "	1-3/4 "	1-1/2 "	3/8 "	13/16 "
1 " -2 "	1 "	3/8 " ,1/2 " ,5/8 " ,3/4 "	5/8 "	2 "	1-3/4 "	7/16 "	7/8 "
1-1/4 " -2-3/8 "	1-1/4 "	3/8 " ,1/2 " ,5/8 " ,3/4 " ,7/8 " ,1 "	5/8 "	2-3/8 "	2-1/8 "	5/8 "	1 "
1-1/2 " -2-3/4 "	1-1/2 "	3/8 " ,1/2 " ,5/8 " ,3/4 " ,7/8 " ,1 " ,1-1/4 "	7/8 "	2-3/4 "	2-1/2 "	11/16 "	1-1/8 "
1-3/4 " -3-1/4 "	1-3/4 "	1/2 " ,5/8 " ,3/4 " ,7/8 " ,1 " ,1-1/4 " ,1-1/2 "	7/8 "	3-1/4 "	3 "	3/4 "	1-1/4 "
2 " -3-3/4 "	2 "	1/2 " ,5/8 " ,3/4 " ,7/8 " ,1 " ,1-1/4 " ,1-1/2 " ,1-3/4 "	1 "	3-3/4 "	3-1/2 "	3/4 "	1-1/2 "

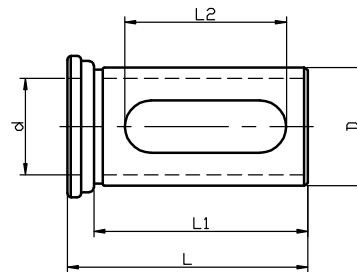
刀库导套系列 TOOL HOLDER SLEEVE COLLET SERIES

CD1003-01 Z型导套 Z SERIES SLEEVE



型号 Model No.	D	D1	d	L	L1	L2	B
1" -3-1/4"	1"	1-1/2"	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	3-1/4"	2-3/8"	2-3/4"	5/8"
1-1/4" -3-5/8"	1-1/4"	1-7/8"	3/8", 1/2", 5/8", 3/4", 7/8", 1"	3-5/8"	2-5/8"	3"	5/8"
1-1/2" -4"	2-1/2"	2-1/4"	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4"	4"	2-7/8"	3-1/4"	7/8"
1-3/4" -4-1/4"	1-3/4"	3"	1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2"	4-1/4"	3-1/8"	3-1/2"	7/8"
2" -4-1/2"	2"	3"	1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 1-3/4"	4-1/2"	2-3/8"	3-3/4"	1"

CD1004-01 C型导套 C SERIES SLEEVE



型号 Model No.	D	d	L	L1	L2
3/4" -2-1/2"	3/4"	1/4", 5/16", 3/8", 1/2"	2-1/2"	2-1/4"	1-7/8"
1" -3"	1"	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	3"	2-3/4"	2-3/8"
1-1/4" -3-1/2"	1-1/4"	3/8", 1/2", 5/8", 3/4", 7/8", 1"	3-1/2"	3-1/4"	2-7/8"
1-1/2" -3-11/16"	1-1/2"	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4"	3-11/16"	3-3/8"	3"
1-3/4" -3-3/4"	1-3/4"	1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2"	3-3/4"	3-1/2"	3-1/8"
2" -4-1/4"	2"	1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 1-3/4"	4-1/4"	4"	3-5/8"

高速、高精度、高寿命**数控刀柄**系列

High speed high accuracy high CNC chucks

特点:

- ◆ 材质: 20CrMnTi;
- ◆ 硬度: $58 \pm 2\text{HRC}$;
- ◆ 7:24锥度精度 $\leq \text{AT}3$;
- ◆ 渗碳深度: > 0.8 ;
- ◆ 表面粗糙度: $\text{Ra} < 0.4$;
- ◆ 深冷处理

所有的数控刀柄都进行长时间深冷处理使残余奥氏体向马氏体和纳米碳化物颗粒沉淀, 提高刀柄的硬度, 韧性和耐久性, 降低残余内应力。

- ◆ 超长热时效处理

超长时间的热时效处理有效去除磨加工时的残余内应力。

- ◆ 提供两种外观: 喷砂外观或涂层处理。

- ◆ Material: 20CrMnTi;
- ◆ Hardness: $58 \pm 2\text{HRC}$;
- ◆ 7:24 Tapper tolerance $\leq \text{AT}3$;
- ◆ Carbon depth: > 0.8 ;
- ◆ Surface roughness: $\text{Ra} < 0.4$;
- ◆ cryogenic treatment;

All of the CNC chucks are processed long time cryogenic treatment Make the residual austenite into martensite and precipitate of nano-sized carbide particles, enhance chucks hardness, toughness durability, and reduce the residual internal stress.

- ◆ Thermal aging treatment:

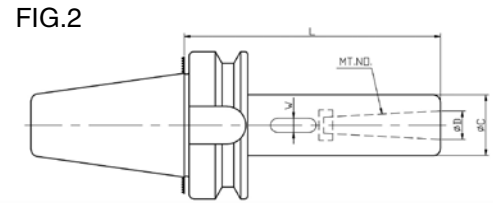
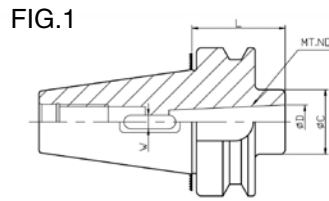
Long time thermal aging treatment can get rid of the residual internal stress in grinding process.

- ◆ Provide 2 kinds appearance : Sand-blasting and nickel coating process;



数控刀柄系列 CNC TOOL SYSTEMS

CD1101-01 BT扁尾式莫氏变径套 BT MORSE TAPER SLEEVE(TYPE A)



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping



表面硬度
Surface hardness

型号 Model No.	MT NO.	D	L	C	W	Fig.	KGS
BT30	MTA1-45	1	12.065	45	25	5.6	0.8
	MTA1-105	1	12.065	105	25	5.6	0.9
	MTA2-60	2	17.78	60	32	6.6	0.9
	MTA2-120	2	17.78	120	32	6.6	1.2
	MTA3-80	3	23.825	80	40	8.4	1.1
BT40	MTA1-45	1	12.065	45	25	5.6	1
	MTA1-120	1	12.065	120	25	5.6	1.3
	MTA2-45	2	17.78	45	32	6.6	1.1
	MTA2-120	2	17.78	120	32	6.6	1.4
	MTA3-75	3	23.825	75	40	8.4	1.2
	MTA3-135	3	23.825	135	40	8.4	1.8
	MTA4-90	4	31.267	90	50	12.4	1.4
	MTA4-165	4	31.267	165	50	12.4	2.4
BT50	MTA1-45	1	12.065	45	25	5.6	4
	MTA1-120	1	12.065	120	25	5.6	4.3
	MTA1-180	1	12.065	180	25	5.6	4.3
	MTA2-45	2	17.78	45	32	6.6	4
	MTA2-135	2	17.78	135	32	6.6	4.4
	MTA2-180	2	17.78	180	32	6.6	4.6
	MTA3-45	3	23.825	45	40	8.4	3.9
	MTA3-150	3	23.825	150	40	8.4	4.7
	MTA3-180	3	23.825	180	40	8.4	4.9
	MTA4-75	4	31.267	75	50	12.4	4
	MTA4-180	4	31.267	180	50	12.4	5.4
	MTA5-105	5	44.399	105	65	16.5	4.6

SHANK	MT1	MT2	MT3	MT4	MT5
DRILL MIN	2	14.1	23.1	23.1	50.1
DIA MAX	14	23	32	50	75

数控刀柄系列 CNC TOOL SYSTEMS

CD1101-02 BT后拉式莫氏变径套 BT MORSE TAPER SLEEVE(TYPE B)

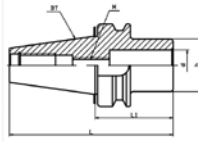


Fig1

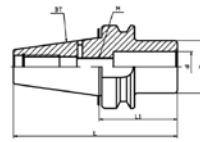


Fig2

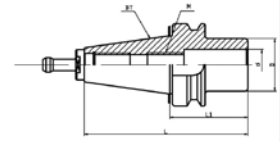


Fig3


 锥度公差
 Taper tolerance

 表面粗糙度
 Surface roughness

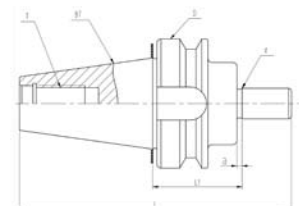
 内孔径跳
 Bore diameter jumping

 表面硬度
 Surface hardness

型号 Model No.	Fig.	MT NO.	L1	M	d	D	加长拉钉 Extended pull stud
BT30-MTB1-45	1	1	45	M6 × 1P	12.065	25	-
BT30-MTB2-60	2 · 3	2	60	M10 × 1.5P	17.78	32	BT30-MTB2-60-1
BT30-MTB3-80	2 · 3	3	80	M12 × 1.75P	23.825	40	BT30-MTB3-80-1
BT40-MTB1-45	1	1	45	M6 × 1P	12.065	25	-
BT40-MTB2-60	1	2	60	M10 × 1.5P	17.78	32	-
BT40-MTB3-45	2 · 3	3	45	M12 × 1.75P	23.825	40	-
BT40-MTB3-75	2 · 3	3	75	M12 × 1.75P	23.825	40	BT40-MTB3-75-1
BT40-MTB4-90	2 · 3	4	90	M16 × 2P	31.267	50	BT40-MTB4-90-1
BT40-MTB4-115	2 · 3	4	115	M16 × 2P	31.267	50	-
BT50-MTB1-45	1	1	45	M6 × 1P	12.065	25	-
BT50-MTB2-45	1	2	45	M10 × 1.5P	17.78	32	-
BT50-MTB3-60	1	3	60	M12 × 1.75P	23.825	40	-
BT50-MTB4-75	1	4	75	M16 × 2P	31.267	50	-
BT50-MTB5-100	2 · 3	5	100	M20 × 2.5P	44.399	65	BT50-MTB5-100-1
BT50-MTB5-100	2 · 3	5	100	M20 × 2.5P	44.399	65	

CD1101-03 BT钻接杆 BT DRILL CHUCK ARBORS

型号 Model No.	L	L1	D	d	a	T	KGS
BT30-JT2-45	113.4	45	46	14.199	4	M12 × 1.75P	0.7
BT30-JT33-45	117.4	45	46	15.85	4	M12 × 1.75P	0.75
BT30-JT6-45	117.4	45	46	17.17	4	M12 × 1.75P	0.8
BT30-B16-45	117.4	45	46	15.733	4	M12 × 1.75P	0.75
BT30-B18-45	125.4	45	46	17.78	4	M12 × 1.75P	1.25
BT40-JT2-45	130.4	45	63	14.199	4	M16 × 2P	1.3
BT40-JT33-45	134.4	45	63	15.85	4	M16 × 2P	1.3
BT40-JT6-45	134.4	45	63	17.17	4	M16 × 2P	1.2
BT40-JT6-105	194.4	105	63	17.17	4	M16 × 2P	1.65
BT40-B16-45	134.4	45	63	15.733	4	M16 × 2P	1.2
BT40-B18-45	142.4	45	63	17.78	4	M16 × 2P	1.35
BT50-JT2-45	166.8	45	100	14.199	4	M24 × 3P	4.1
BT50-JT33-45	170.8	45	100	15.85	4	M24 × 3P	4
BT50-JT6-45	170.8	45	100	17.17	4	M24 × 3P	4.2
BT50-JT6-105	230.8	105	100	17.17	4	M24 × 3P	4.6
BT50-B18-45	178.8	45	100	17.78	4	M24 × 3P	4.3


 锥度公差
 Taper tolerance

 表面粗糙度
 Surface roughness

 内孔径跳
 Bore diameter jumping

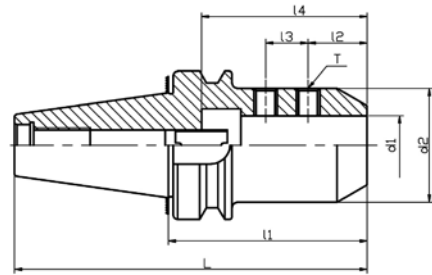
 表面硬度
 Surface hardness

数控刀柄系列 CNC TOOL SYSTEMS

CD1101-04 BT/SLN(DIN1835-B) 侧固式立铣刀柄 SIDE LOCK END MILL HOLDER



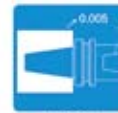
●可精做动平衡 Precision dynamic balancing
G6.3 12000rpm/18000rpm



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



内孔径跳
Bore diameter jumping

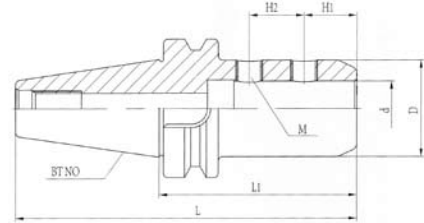


表面硬度
Surface hardness

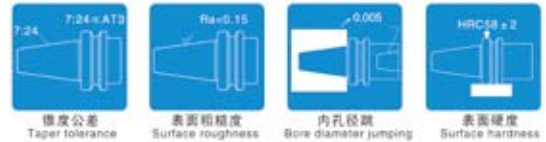
型号 Model No.	d1-l1	d1	L	l2	l3	l4	d2	T	KGS
BT30-SLN6-60		6	108.4	18	-	40	25	M6X1.0P	0.55
BT30-SLN8-60		8	108.4	18	-	40	28	M8X1.25P	0.60
BT30-SLN10-60		10	108.4	20	-	44	35	M10X1.5P	0.70
BT30-SLN12-60		12	108.4	22.5	-	49	42	M12X1.75P	0.75
BT30-SLN16-75		16	123.4	24	-	52	48	M14X2.0P	1.05
BT30-SLN20-75		20	123.4	25	-	54	52	M16X2.0P	1.10
BT30-SLN25-90		25	138.4	24	25	59	65	M18X2.0P	1.70
BT40-SLN6-50		6	115.4	18	-	40	25	M6X1.0P	1.10
BT40-SLN6-150		6	215.4	18	-	40	25	M6X1.0P	1.32
BT40-SLN8-50		8	115.4	18	-	40	28	M8X1.25P	1.10
BT40-SLN8-150		8	215.4	18	-	40	28	M8X1.25P	1.30
BT40-SLN10-63		10	128.4	20	-	44	35	M10X1.5P	1.25
BT40-SLN10-150		10	215.4	20	-	44	35	M10X1.5P	1.40
BT40-SLN12-63		12	128.4	22.5	-	49	42	M12X1.75P	1.30
BT40-SLN12-150		12	215.4	22.5	-	49	42	M12X1.75P	1.53
BT40-SLN16-63		16	128.4	24	-	52	48	M14X2.0P	1.40
BT40-SLN16-150		16	215.4	24	-	52	48	M14X2.0P	1.60
BT40-SLN18-63		18	128.4	24	-	54	50	M14X2.0P	1.65
BT40-SLN20-63		20	128.4	25	-	54	52	M16X2.0P	1.40
BT40-SLN25-100		25	165.4	24	25	59	65	M18X2.0P	2.50
BT40-SLN32-100		32	165.4	24	28	63	72	M20X2.0P	2.75
BT50-SLN6-63		6	164.8	18	-	40	25	M6X1.0P	3.80
BT50-SLN8-63		8	164.8	18	-	40	28	M8X1.25P	3.80
BT50-SLN10-63		10	164.8	20	-	44	35	M10X1.5P	3.00
BT50-SLN12-80		12	181.8	22.5	-	49	42	M12X1.75P	4.00
BT50-SLN16-80		16	181.8	24	-	52	48	M14X2.0P	4.40
BT50-SLN20-80		20	181.8	25	-	54	52	M16X2.0P	4.40
BT50-SLN25-100		25	201.8	24	25	59	65	M18X2.0P	5.10
BT50-SLN32-105		32	206.8	24	28	63	72	M20X2.0P	5.20
BT50-SLN40-115		40	216.8	30	32	73	90	M20X2.0P	6.60
BT50-SLN42-120		42	221.8	30	32	73	90	M20X2.0P	6.70
BT50-SLN40-120		40	221.8	30	32	73	90	M20X2.0P	5.75
BT50-SLN50-120		50	221.8	35	35	78	100	M24X2.0P	5.80
BT50-SLN63-120		63	221.8	40	40	80	125	M24X2.0P	6.00

数控刀柄系列 CNC TOOL SYSTEMS

CD1101-05 BT/SLA 侧固式立铣刀柄 BT /SLA SIDE LOCK END MILL HOLDER

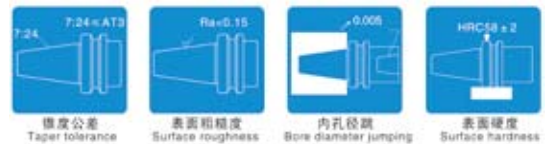
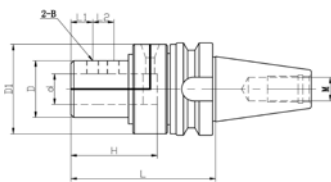


●精做动平衡 Precision dynamic balancing
G6.3 12000rpm/18000rpm



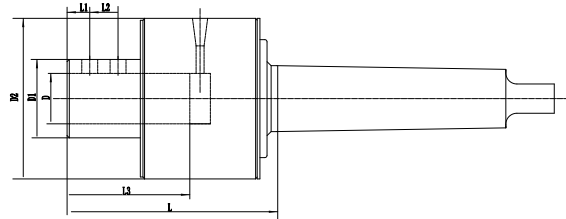
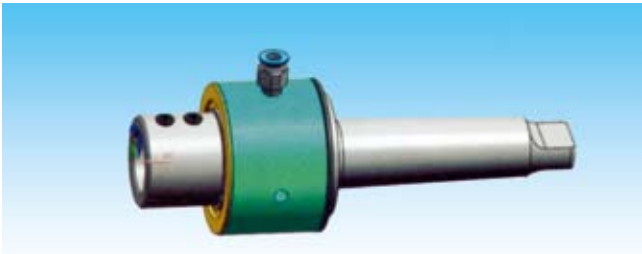
型号 Model No.	L	L1	H1	H2	M	D	d
BT30-SLA6-60	108.4	60	12	10	M6	25	6
BT30-SLA8-60			14	12	M8	28	8
BT30-SLA10-60			15	14	M10	35	10
BT30-SLA12-60			20	16		40	12
BT30-SLA16-75	123.4	75	22	18	M12	45	16
BT30-SLA20-75			25	20		50	20
BT30-SLA25-80	128.4	80	24	25	M12	55	25
BT40-SLA6-75	140.4	75	12	10	M6	25	
BT40-SLA8-75			14	12	M8	28	8
BT40-SLA10-75			15	14	M10	35	10
BT40-SLA12-75			20	16		40	12
BT40-SLA16-75	155.4	90	22	18	M12	45	16
BT40-SLA20-90			25	20		50	20
BT40-SLA25-90	128.4	80	24	25	M12	55	25
BT40-SLA32-100	165.4	100	24	28	M16	60	32
BT40-SLA40-115	180.4	115	30	32	M20	70	40
BT50-SLA6-75	176.8	75	12	10	M6	25	6
BT50-SLA8-75			14	12	M8	28	8
BT50-SLA10-75			15	14	M10	35	10
BT50-SLA12-90			20	16		40	12
BT50-SLA16-90	191.8	90	22	18	M12	45	16
BT50-SLA20-90			25	20		50	20
BT50-SLA25-100	201.8	100	24	25	M12	55	25
BT50-SLA32-105	206.8	105	24	28	M16	60	32
BT50-SLA40-115	216.8	115				70	40
BT50-SLA42-120	221.8	120	30	32	M20	75	42

CD1102-01 外冷转内冷侧固式刀柄 BT-OMS CHUCK



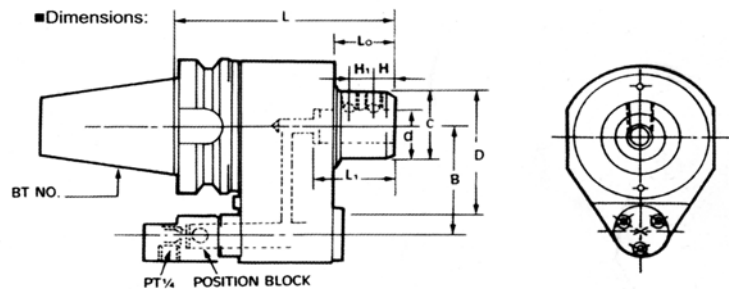
型号 Model No.	d	L	D	D1	H	L1	L2	B	M
BT40-OMS20-105	20	105	50	78	50	20	-	M12	M16
BT40-OMS25-120	25	120	50	78	60	20	20	M12	M16
BT40-OMS32-125	32	125	65	88	70	20	20	M14	M16
BT50-OMS20-120	20	120	50	78	50	20	-	M12	M24
BT50-OMS25-135	25	135	50	78	60	20	20	M12	M24
BT50-OMS32-135	32	135	65	98	70	20	20	M14	M24
BT50-OMS40-145	40	145	65	98	80	20	25	M16	M24
BT50-OMS50-170	50	170	90	123	90	35	35	M20	M24

CD1102-02 MTA转换柄 (外冷转内冷)
MTA CONNECTION HANDLE(External cooling to inner cooling)



型号Model No.	D	D1	D2	L	L1	L2	L3
MTA5-YLDB-32	32	55	92	127	15	18	60
MTA5-YLDB-40	40	60	98	127	15	18	65
MTA6-YLDB-32	32	55	92	127	15	18	60
MTA6-YLDB-40	40	60	98	127	15	18	65
MTA6-YLDB-50	50	70	108	127	15	18	70

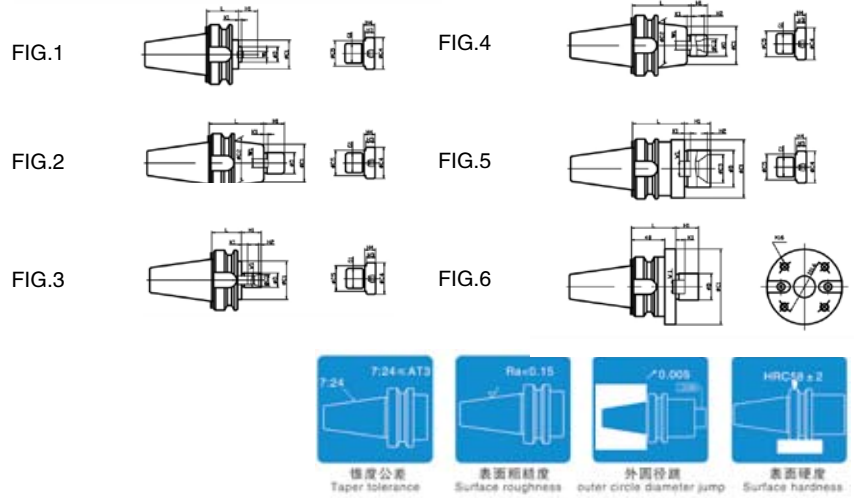
CD1102-03 自动换刀连接柄 (外冷转内冷)
CONNECTION HANDLE(External cooling to inner cooling)



型号Model No.	d	L	B	C	D	LO	L1	H	H1
BT40-OSL32-155	32	155	60/65	53	90	50	60	15	15
BT40-OSL40-155	40	155	60/65	70	90	50	70	19	18
BT50-OSL32-160	32	160	80/82	54	100	50	60	15	15
BT50-OSL40-160	40	160	80/82	64	100	50	70	19	18

数控刀柄系列 CNC TOOL SYSTEMS

CD1103-01 BT/FMA平面铣刀柄 BT/FMA FACE MILL ARBORS(TYPE A)



FMA为英制规格(Inch)

型号 Model No.	Fig.	D(h6)	L	C1	C2	C3	H1	H2	KEY		G1	CLAMP BOLT				KGS
									W1	K1		C4	C5	H3	H4	
BT30-FMA22.225-35	1	22.225	35	40	-	-	18	-	8	4	M8	20	15	7	9	0.57
BT30-FMA25.4-35	1	25.4	35	50	-	-	22	-	9.5	5	M12	33	23	10	12	0.72
BT40-FMA25.4-45	1	25.4	45	50	-	-	22	-	9.5	5	M12	33	23	10	12	1.4
BT40-FMA25.4-105	2	25.4	105	50	-	-	22	-	9.5	5	M12	33	23	10	12	2.6
BT40-FMA31.75-45	3	31.75	45	60	-	24	30	6	12.7	7	M16	40	23	10	15	1.6
BT40-FMA31.75-90	3	31.75	90	60	-	24	30	6	12.7	7	M16	40	23	10	16	2.6
BT40-FMA38.1-60	3	38.1	60	80	-	28	34	6	15.9	9	M20	50	27	14	20	2.6
BT50-FMA25.4-45	1	25.4	45	50	-	-	22	-	9.5	5	M12	33	23	10	12	3.9
BT50-FMA25.4-90	2	25.4	90	50	70	-	22	-	9.5	5	M12	33	23	10	12	5
BT50-FMA25.4-150	2	25.4	150	50	70	-	22	-	9.5	5	M12	33	23	10	12	6.4
BT50-FMA31.75-45	3	31.75	45	60	-	24	30	6	12.7	7	M16	40	23	10	16	4.1
BT50-FMA31.75-75	4	31.75	75	60	70	24	30	6	12.7	7	M16	40	23	10	16	4.9
BT50-FMA31.75-105	4	31.75	105	60	70	24	30	6	12.7	7	M16	40	23	10	16	5.7
BT50-FMA38.1-45	3	38.1	45	80	-	28	34	6	15.9	9	M20	50	27	14	20	4.4
BT50-FMA38.1-75	3	38.1	75	80	-	28	34	6	15.9	9	M20	50	27	14	20	5.6
BT50-FMA50.8-45	3	50.8	45	98	-	38	36	10	19.05	10	M24	65	37	14	24	5
BT50-FMA50.8-75	5	50.8	75	100	-	38	36	10	19.05	10	M24	65	37	14	24	6.7
BT50-FMA47.625-75	6	47.625	75	128.57	-	-	38	0	25.4	12.5	-	-	-	-	-	8

数控刀柄系列 CNC TOOL SYSTEMS

CD1103-02 BT/FMB平面铣刀柄 BT/FMB FACE MILL ARBOR(S TYPE B)



Fig1

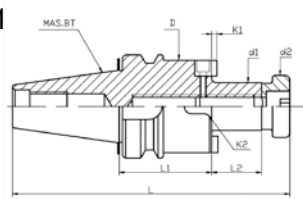
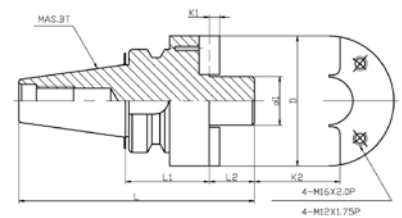


Fig2



精做动平衡 Precision dynamic balancing
G6.3 12000rpm



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



外圆台阶
outer circle diameter jump



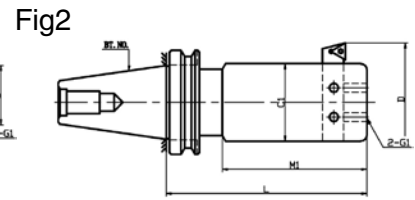
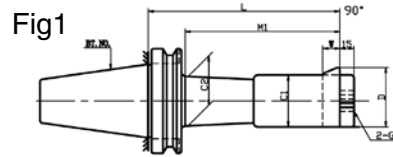
表面硬度
Surface hardness

FMB为公制规格(Metric)

型号 Model No.	Fig.	L	L1	L2	D	d1h7	d2	K1	K2	KGS
BT30-FMB22-45		111.4	45	18	50	22	26	4.8	10	0.85
BT30-FMB22-60		126.4	60	18	50	22	26	4.8	10	1.25
BT30-FMB27-45		113.4	45	20	60	27	31.5	5.8	12	1.2
BT30-FMB27-60		128.4	60	20	60	27	31.5	5.8	12	1.35
BT30-FMB32-45		115.4	45	22	78	32	41	6.8	14	1.35
BT40-FMB22-45		128.4	45	18	48	22	26	4.8	10	1.45
BT40-FMB22-60		143.4	60	18	48	22	26	4.8	10	1.7
BT40-FMB22-100		183.4	100	18	48	22	26	4.8	10	2.2
BT40-FMB22-150		223.4	150	18	48	22	26	4.8	10	3.1
BT40-FMB22-200		283.4	200	18	48	22	26	4.8	10	3.1
BT40-FMB27-45		130.4	45	20	60	27	31.5	5.8	12	1.6
BT40-FMB27-60		145.4	60	20	60	27	31.5	5.8	12	2
BT40-FMB27-90		175.4	90	20	60	27	31.5	5.8	12	2.3
BT40-FMB27-105		190.4	105	20	60	27	31.5	5.8	12	2.5
BT40-FMB32-45		132.4	45	22	78	32	41	6.8	14	1.72
BT40-FMB32-60		147.4	60	22	78	32	41	6.8	14	2.1
BT40-FMB40-60		150.4	60	25	80	40	48	8.3	16	2.8
BT50-FMB22-45		164.8	45	18	48	22	26	4.8	10	4.5
BT50-FMB22-90		209.8	90	18	48	22	26	4.8	10	5.1
BT50-FMB22-150		269.8	150	18	48	22	26	4.8	10	6.8
BT50-FMB22-200		319.8	200	18	48	22	26	4.8	10	7
BT50-FMB22-250		369.8	250	18	48	22	26	4.8	10	8
BT50-FMB22-300		419.8	300	18	60	22	26	4.8	10	10.5
BT50-FMB22-350		469.8	350	18	60	22	26	4.8	10	10.5
BT50-FMB22-400		519.8	400	18	60	22	26	4.8	10	4.6
BT50-FMB27-50		171.8	50	20	60	27	31.5	5.8	12	4.6
BT50-FMB27-90		211.8	90	20	60	27	31.5	5.8	12	5.4
BT50-FMB27-150		271.8	150	20	60	27	31.5	5.8	12	7.5
BT50-FMB27-200		321.8	200	20	60	27	31.5	5.8	12	9.5
BT50-FMB27-250		371.8	250	20	60	27	31.5	5.8	12	11
BT50-FMB32-50		173.8	50	22	78	32	41	6.8	14	5.7
BT50-FMB32-90		213.8	90	22	78	32	41	6.8	14	5.8
BT50-FMB40-50		176.8	50	25	89	40	48	8.3	16	5.2
BT50-FMB40-90		216.8	90	25	89	40	48	8.3	16	6
BT50-FMB40-105		231.8	105	25	98	40	48	8.3	16	7.2
BT50-FMB40F-75		202.8	75	26	110	40	-	8.3	16	6
BT50-FMB60-75		201.8	75	25	140	60	-	12.5	25.4	8.5

数控刀柄系列 CNC TOOL SYSTEMS

CD1104-01 BT30/40/50 -90° 粗镗刀柄 BT30/40/50 -90° SQUARE SHANK BORING BAR(TYPE B)


 锥度公差
 Taper tolerance

 表面粗糙度
 Surface roughness

 表面硬度
 Surface hardness

型号 Model No.	Fig	D		L	M1	C1	C2	W□	Tool Length		
		min.	max.								
BT30-BSB20-105	1	20	30	105	85	17	19	6	23	-	
BT30-BSB25-120		25	38	120	100	20	24	8	29	-	
BT30-BSB25-160		25	38	160	140	20	24	8	29	-	
BT30-BSB30-150		30	42	150	130	24	28	8	35	-	
BT30-BSB30-165		30	42	165	145	24	28	8	35	-	
BT30-BSB30-210		30	42	210	190	24	28	8	35	-	
BT30-BSB38-165		38	52	165	145	30	36	10	44	-	
BT30-BSB50-165		50	65	165	145	40	48	13	58	-	
BT30-BSB50-210		50	65	210	190	40	48	13	58	-	
BT40-BSB25-135		2	25	38	135	110	20	24	8	22	35
BT40-BSB38-165			38	52	165	140	30	36	10	34	50
BT40-BSB50-165			50	65	165	140	40	48	13	45	60
BT40-BSB50-210			50	65	210	185	40	48	13	45	60
BT40-BSB62-165			62	90	165	140	50	54	16	56	80
BT40-BSB62-225			62	90	225	200	50	56	16	56	80
BT40-BSB72-165			72	110	165	140	60	60	19	66	95
BT40-BSB72-225	72		110	225	200	60	60	19	66	95	
BT40-BSB90-165	90		125	165	140	75	75	19	82	110	
BT40-BSB90-210	90		125	210	185	75	64	19	82	110	
BT50-BSB25-135	1		25	38	135	100	20	24	8	22	35
BT50-BSB38-180			38	52	180	145	30	38	10	34	50
BT50-BSB38-230			38	52	230	195	30	38	10	34	50
BT50-BSB42-210			42	56	210	175	34	38	10	-	-
BT50-BSB42-240			42	56	240	205	34	38	10	-	-
BT50-BSB50-180			50	65	180	145	40	48	13	45	60
BT50-BSB50-240		50	65	240	205	40	48	13	45	60	
BT50-BSB50-270		50	65	270	235	40	48	13	45	60	
BT50-BSB50-300		50	65	300	265	40	48	13	45	60	
BT50-BSB62-195		62	90	195	160	50	58	16	56	80	
BT50-BSB62-240		62	90	240	205	50	58	16	56	80	
BT50-BSB62-270		62	90	270	235	50	58	16	56	80	
BT50-BSB62-300		62	90	300	265	50	58	16	56	80	
BT50-BSB62-330		62	90	330	295	50	58	16	56	80	
BT50-BSB72-195		72	110	195	160	60	68	19	66	95	
BT50-BSB72-240		72	110	240	205	60	68	19	66	95	
BT50-BSB72-285	72	110	285	250	60	68	19	66	95		
BT50-BSB90-210	2	90	125	210	170	75	80	19	82	110	
BT50-BSB90-250		90	125	250	215	75	80	19	82	110	
BT50-BSB90-300		90	125	300	265	75	80	19	82	110	
BT50-BSB105-195		105	160	195	160	90	-	25	97	140	
BT50-BSB105-285	105	160	285	250	90	94	25	97	140		

数控刀柄系列 CNC TOOL SYSTEMS

CD1104-02 BT30/40/50 -45° 粗镗刀柄
BT30/40/50 -45° SQUARE SHANK BORING BAR(TYPE A)



Fig1

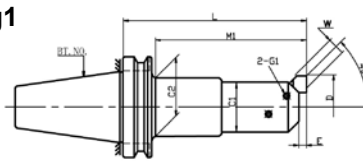
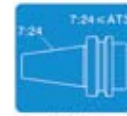
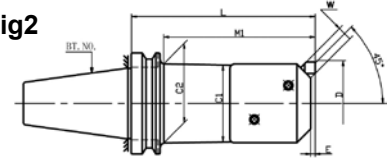
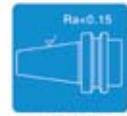


Fig2



锥度公差
Taper tolerance



表面粗糙度
Surface roughness



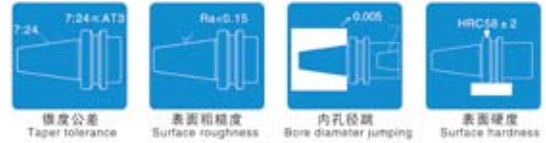
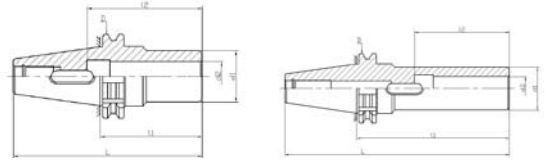
表面硬度
Surface hardness

型号 Model No.	Fig	D		L	M1	C1	C2	W□	Tool Length	
		min.	max.							
BT30-BSA20-105	1	20	30	105	85	17	19	6	23	-
BT30-BSA25-120		25	38	120	100	20	24	8	29	-
BT30-BSA25-160				160	140		24			-
BT30-BSA30-150		30	42	150	130	24	28	8	35	-
BT30-BSA30-180				180	160		28			-
BT30-BSA30-210				210	190		28			-
BT30-BSA38-165		38	52	165	145	30	36	10	44	-
BT30-BSA50-165		50	65	165	145	40	48	13	58	-
BT30-BSA50-210				210	190		48			-
BT40-BSA25-135		25	38	135	110	20	24	8	29	-
BT40-BSA30-150		30	42	150	125	24	28	8	35	-
BT40-BSA38-165		38	52	165	140	30	36	10	44	-
BT40-BSA50-165		50	65	165	140	40	48	13	58	-
BT40-BSA50-210				210	185		48			-
BT40-BSA62-165		62	90	165	140	50	48	16	74	-
BT40-BSA62-225				225	200		58			-
BT40-BSA72-165	2	72	110	165	140	60	60	19	85	-
BT40-BSA72-225				225	200		60			100
BT40-BSA90-165		90	125	165	140	75	62		110	-
BT40-BSA90-210				210	185		62			-
BT50-BSA25-135	1	25	38	135	100	20	24	8	29	-
BT50-BSA30-165		30	42	165	130	24	28	8	35	-
BT50-BSA38-180		38	52	180	145	30	36	10	44	-
BT50-BSA38-230				230	195		36			-
BT50-BSA42-210		42	56	210	175	34	38	10	50	-
BT50-BSA42-240				240	205		38			-
BT50-BSA50-180		50	65	180	145	40	48	13	58	-
BT50-BSA50-240				240	205		48			-
BT50-BSA50-270				270	235		48			-
BT50-BSA50-300				300	265		48			-
BT50-BSA62-195		62	90	195	160	50	58	16	74	-
BT50-BSA62-240				240	205		58			-
BT50-BSA62-270				270	235		58			-
BT50-BSA62-300				300	265		58			-
BT50-BSA72-195		72	110	195	160	60	68	19	85	-
BT50-BSA72-240				240	205		68			100
BT50-BSA72-285	285			250	68		-			
BT50-BSA72-320	320			285	68		-			
BT50-BSA90-210	90	125	210	175	75	74	19	110	-	
BT50-BSA90-250			250	215		76			-	
BT50-BSA90-300			300	265		76			-	
BT50-BSA105-195	2	105	160	195	160	90	76	25	130	-
BT50-BSA105-285	1			285	250		76			150

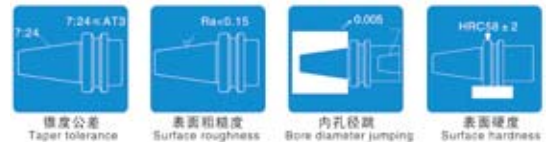
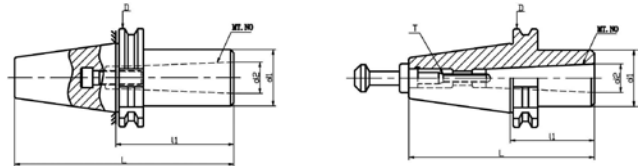
数控刀柄系列 CNC TOOL SYSTEMS

CD1105-01 SK (DIN69871、JT、DAT或DV) -MTA 斜柄钻头套筒 MORSE TAPER ADAPTER

型号 Model No.	L	L2	D	d1	d2	KGS
SK30-MTA1-50	97.8	56	50	25	12.065	0.55
SK30-MTA2-60	117.8	67		32	17.780	0.80
SK30-MTA3-75	122.8	84		40	23.825	1.00
SK40-MTA1-50	118.4	56	63.55	25	12.065	1.20
SK40-MTA2-50	118.4	67		32	17.780	1.00
SK40-MTA3-70	138.4	84		40	23.825	1.10
SK40-MTA4-95	163.4	107	97.50	48	31.267	1.35
SK50-MTA1-45	146.75	56		25	12.065	3.00
SK50-MTA2-60	161.75	67		32	17.780	3.10
SK50-MTA3-65	166.75	84	40	23.825	3.20	
SK50-MTA4-95	196.75	107	48	31.267	3.40	
SK50-MTA5-105	206.75	133	63	44.399	3.60	



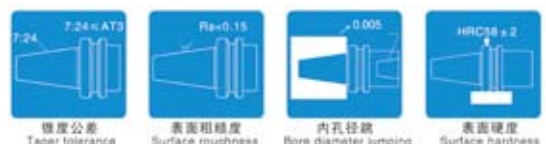
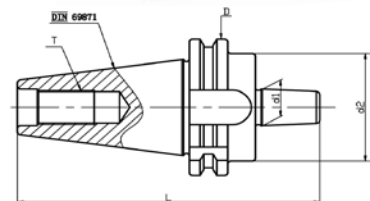
CD1105-02 SK (DIN69871、JT、DAT或DV) -MTB 斜柄钻头套筒 MORSE TAPER ADAPTER



型号 Model No.	L	l1	D	d1	d2	T
SK30-MTB1-45	93.4	45	50	25	12.065	M6
SK30-MTB2-60	108.4	60	50	32	17.78	M10
SK40-MTB2-50	115.4	50	63.55	32	17.78	M10
SK40-MTB3-75	140.4	75	63.55	40	23.825	M12
SK40-MTB4-90	155.4	90	63.55	48	31.267	M16
SK50-MTB2-45	146.8	45	97.5	32	17.78	M12
SK50-MTB3-60	161.8	60	97.5	40	23.825	M12
SK50-MTB4-75	176.8	75	97.5	48	31.267	M16

CD1105-03 SK (DIN69871、JT、DAT或DV) 钻接杆刀柄 DRILL CHUCK ARBOR

型号 Model No.	L	D	d1	d2	T	KGS
SK30-B12-40	106.3	50	12.065	45	M12X1.75P	0.70
SK30-B16-40	111.8		15.733			0.85
SK30-JT6-40	111.8		17.170			0.90
SK40-B12-40	126.9	63.55	12.065	50	M16X2.0P	1.25
SK40-B16-40	132.4		15.733			1.30
SK40-B18-40	140.4		17.780			1.40
SK40-JT6-40	132.4	97.50	17.170	80	M24X3.0P	1.30
SK50-B12-40	160.25		12.065			3.10
SK50-B16-40	165.75		15.733			3.20
SK50-B18-40	173.75	17.780	3.30			
SK50-JT6-40	165.75	17.170	3.40			

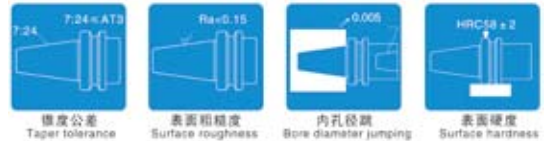
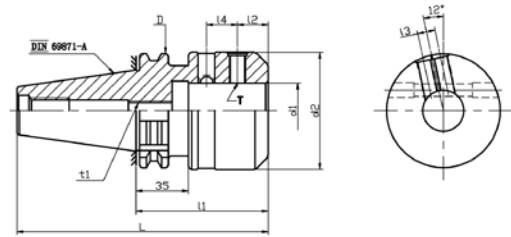


数控刀柄系列 CNC TOOL SYSTEMS

CD1106-01 SK(DIN69871、JT、DAT或DV) 侧固式立铣刀柄



刀柄精做动平衡 Precision dynamic balancing
G6.3 12000rpm/18000rpm



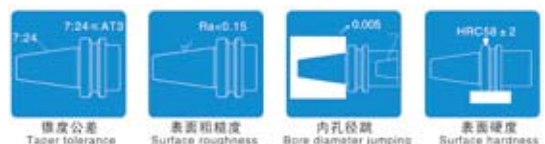
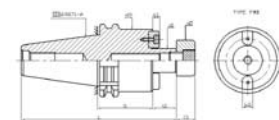
型号 Model No.	L	l2	l3	t1	d2	T	KGS
SK30-SLN6-50	97.8	18	-	M5	25	M6X1.0P	0.73
SK30-SLN8-50		18		M6	28	M8X1.25P	0.80
SK30-SLN10-50		20		M8	35	M10X1.5P	0.90
SK30-SLN12-50	110.8	22.5		M10	42	M12X1.75P	0.90
SK30-SLN16-63		24		M12	48	M14X2.0P	1.10
SK40-SLN6-50		18		M5	25	M6X1.0P	0.85
SK40-SLN8-50	118.4	18	M6	28	M8X1.25P	1.00	
SK40-SLN10-50		20	M8	35	M10X1.5P	1.10	
SK40-SLN12-50		22.5	M10	42	M12X1.75P	1.15	
SK40-SLN16-63	131.4	24	M12	48	M14X2.0P	1.40	
SK40-SLN20-63		25	M16	52	M16X2.0P	1.30	
SK40-SLN25-100		168.4	24	25	M20	65	M18X2.0P
SK40-SLN32-100	24		28	M20	72	M20X2.0P	2.70
SK40-SLN40-120	188.4	30	32	M20	90	M20X2.0P	3.0
SK50-SLN6-63	164.75	18	-	M5	25	M6X1.0P	3.10
SK50-SLN8-63		18		M6	28	M8X1.25P	3.10
SK50-SLN10-63		20		M8	35	M10X1.5P	3.30
SK50-SLN12-63		22.5		M10	42	M12X1.75P	3.50
SK50-SLN16-63		24		M12	48	M14X2.0P	3.45
SK50-SLN20-63		25		M16	52	M16X2.0P	3.50
SK50-SLN25-80	181.75	24	25	M20	65	M18X2.0P	4.20
SK50-SLN32-100	201.75	24	32	M20	72	M20X2.0P	5.00
SK50-SLN40-100		30		M20	90	M20X2.0P	5.60
SK50-SLN42-100		30		M20	90	M20X2.0P	5.70
SK50-SLN50-125		226.75		35	M20	125	M20X2.0P
SK50-SLN63-150	250.75	40	40	M20	125	M20X2.0P	6.2

注：客户在订购刀柄时需注明刀柄本体的冷却形式：A型、AD型、AD+B型。例如SK40 (AD+B)-SLN25-100。

Note: when ordering please indicate in the form of cooling the handle of the ontology: A, AD, AD+B. For example SK40 (AD+B)-SLN25-100

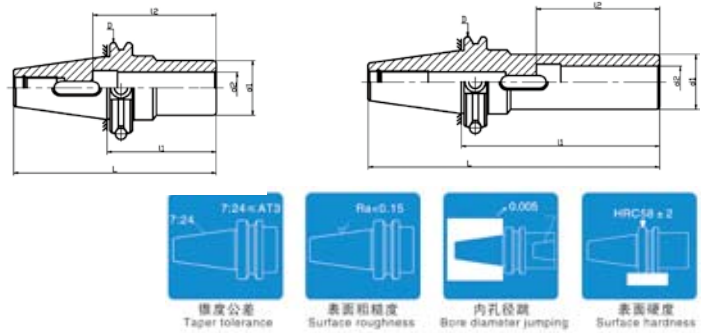
CD1107-01 SK(DIN69871、JT、DAT或DV) 平面铣刀柄 FACE MILL ARBOR

型号 Model No.	L	l2	l3	d2	d3	k1	k2	KGS
SK30-FMB22-35	100.8	18	14	26	47	4.8	10	1.00
SK30-FMB27-35	102.8	20	16	31.5	58	5.8	12	1.05
SK40-FMB22-35	121.4	18	14	26	47	4.8	10	1.20
SK40-FMB27-60	148.4	20	16	31.5	58	5.8	12	1.8
SK40-FMB32-60	150.4	22	16	41	66	6.8	14	2.3
SK40-FMB40-60	153.4	25	20.5	48	80	8.3	16	2.8
SK50-FMB22-35	154.75	18	14	26	47	4.8	10	3.4
SK50-FMB27-35	156.75	20	16	31.5	58	5.8	12	3.5
SK50-FMB32-35	158.75	22	16	41	66	6.8	14	3.7
SK50-FMB40-50	189.75	25	20.5	48	80	8.3	16	4.7
SK50-FMB50-60	211.75	30	25	68	95	9.7	19	5.8
SK40-FMB40F-60	158.4	30	66.7	M12	89	8.3	15.9	2.9
SK50-FMB40F-70	201.75	30	66.7	M12	89	8.3	15.9	5.5
SK50-FMB60F-70	211.75	40	101.6	M16	129	12.5	25.4	5.7
SK40-FS40-60	154.4	26	66.7	M12	110	8.3	16	3.2
SK50-FS40-70	211.75	26	66.7	M12	110	8.3	16	5.7



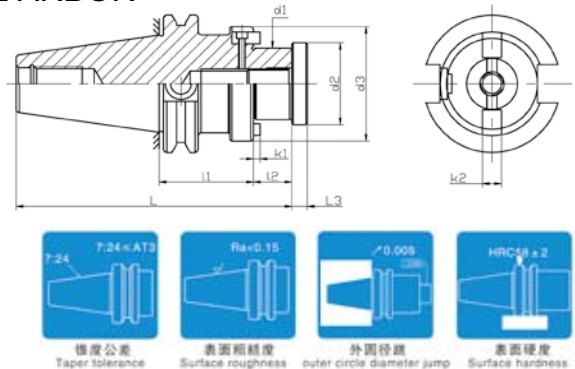
数控刀柄系列 CNC TOOL SYSTEMS

CD1108-01 CAT 斜柄钻头套筒 CAT MORSE TAPER ADAPTER



型号 Model No.-I1	L	l1	D	d1	d2	KGS
CAT40-MTA1-1.60 "	4.287 "	2.205 "	2.5 "	1 "	0.475 "	1.3
CAT40-MTA2-2.00 "	4.687 "	2.638 "		1.25 "	0.7 "	1.5
CAT40-MTA3-2.75 "	5.437 "	3.307 "		1.55 "	0.938 "	1.8
CAT40-MTA4-3.75 "	6.437 "	4.213 "		1.75 "	1.23 "	2.4
CAT50-MTA1-2.00 "	6 "	2.205 "	3.875 "	1 "	0.475 "	1.05
CAT50-MTA2-2.00 "	6 "	2.638 "		1.25 "	0.7 "	4.4
CAT50-MTA3-2.50 "	6.5 "	3.307 "		1.55 "	0.938 "	4.5
CAT50-MTA4-3.30 "	7.3 "	4.213 "		1.75 "	1.23 "	4.9
CAT50-MTA5-4.10 "	8.1 "	5.236 "		2.48 "	1.748 "	5.15

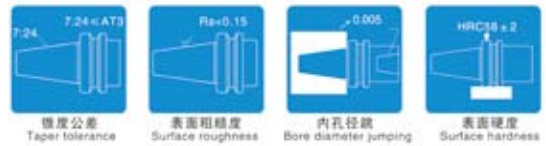
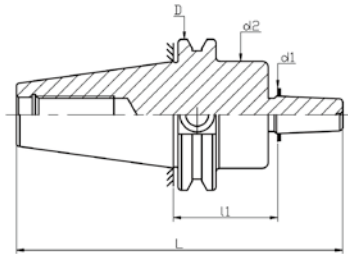
CD1108-02 CAT平面铣刀柄 CAT FACE MILL ARBOR



型号 Model No. -I1	L	l2	l3	d2	d3	k1	k2	KGS
CAT40-FMA3/4 " -1.5 "	4.744 "	0.687 "	0.512 "	0.925 "	1.69 "	0.188 "	0.3125 "	1.5
CAT40-FMA1 " -2.06 "	5.434 "	0.687 "	0.63 "	1.240 "	2.19 "	0.188 "	0.375 "	2.4
CAT40-FMA1-1/4 " -2.21 "	5.584 "	0.687 "	0.63 "	1.614 "	2.75 "	0.25 "	0.5 "	2.6
CAT40-FMA1-1/2 " -2.21 "	5.835 "	0.938 "	0.807 "	1.752 "	3.81 "	0.349 "	0.625 "	2.7
CAT50-FMA3/4 " -1.5 "	6.187 "	0.687 "	0.512 "	0.925 "	1.69 "	0.188 "	0.375 "	4.2
CAT50-FMA1 " -2 "	6.687 "	0.687 "	0.63 "	1.24 "	2.19 "	0.188 "	0.375 "	4.5
CAT50-FMA1-1/4 " -1.5 "	6.187 "	0.687 "	0.63 "	1.614 "	2.75 "	0.25 "	0.5 "	4.7
CAT50-FMA1-1/2 " -2.4 "	7.338 "	0.938 "	0.807 "	1.752 "	3.81 "	0.349 "	0.625 "	5
CAT50-FMA2 " -2.4 "	7.338 "	0.938 "	0.807 "	2.5 "	4.88 "	0.384 "	0.75 "	5.4
CAT50-FMA1"-4"	8.687 "	0.687 "	0.63 "	1.1875 "	2.19 "	0.188 "	0.375 "	4.7
CAT50-FMA1"-6"	10.687 "	0.687 "	0.63 "	1.1875 "	2.19 "	0.188 "	0.375 "	4.9
CAT50-FMA1"-10"	14.687 "	0.687 "	0.63 "	1.1875 "	2.19 "	0.188 "	0.375 "	5
CAT50-FMA1-1/4"-4"	8.687 "	0.687 "	0.63 "	1.5 "	2.75 "	0.25 "	0.5 "	5.1
CAT50-FMA1-1/4"-6"	10.687 "	0.687 "	0.63 "	1.5 "	2.75 "	0.25 "	0.5 "	5.2
CAT50-FMA1-1/4"-8"	12.687 "	0.687 "	0.512 "	0.875 "	1.69 "	0.188 "	0.3125 "	5.3
CAT50-FMA3/4"-4"	8.687 "	0.687 "	0.512 "	0.875 "	1.69 "	0.188 "	0.3125 "	4.2
CAT50-FMA3/4"-6"	10.687 "	0.687 "	0.512 "	0.875 "	1.69 "	0.188 "	0.3125 "	4.5
CAT50-FMA3/4"-8"	12.687 "	0.687 "	0.512 "	0.875 "	1.69 "	0.188 "	0.3125 "	4.7
CAT50-FMA3/4"-10"	14.687 "	0.687 "	0.512 "	0.875 "	1.69 "	0.188 "	0.3125 "	4.8
CAT50-FMA3/4"-12"	16.687 "	0.687 "	0.512 "	0.875 "	1.69 "	0.188 "	0.3125 "	5

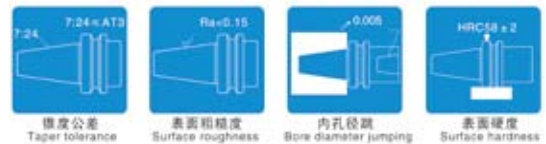
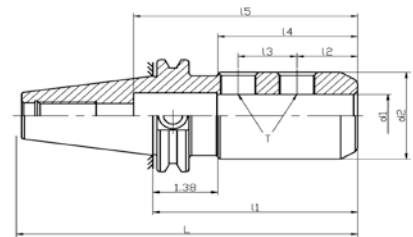
数控刀柄系列 CNC TOOL SYSTEMS

CD1109-01 CAT 钻接杆刀柄 CAT DRILL CHUCK ARBOR



型号 Model No.-I1	L	D	d1	d2	T	KGS
CAT40-JT2-1.57 "	5.132 "	2.5 "	0.559 "	1.75 "	5/8 " -11	1.25
CAT40-JT6-1.57 "	5.569 "		0.676 "			
CAT40-JT33-1.57 "	5.569 "		0.624 "			
CAT50-JT2-1.57 "	6.445 "	3.875 "	0.559 "	2.75 "	1 " -8	3.65
CAT50-JT6-1.57 "	6.57 "		0.676 "			
CAT50-JT 33-1.57 "	6.57 "		0.624 "			

CD1110-01 CAT/SLN 侧固式立铣刀柄 CAT/SLN SIDE LOCK END MILL HOLDER

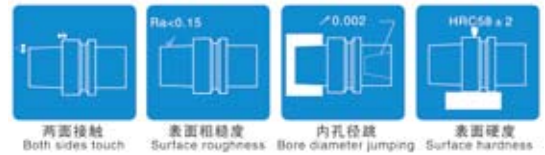
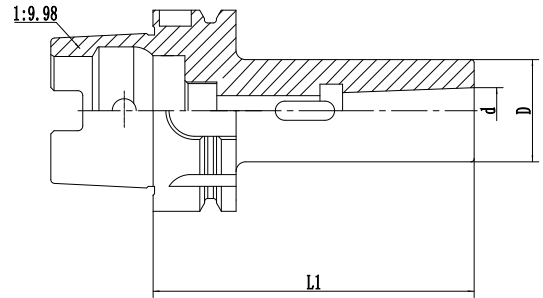


●精做动平衡 Precision dynamic balancing
G6.3 12000rpm/18000rpm

型号 Model No. -I1	L	l2	l3	l4	l5	d2	T	KGS
CAT40-SLN1/8 "-2.375 "	5.062 "	0.37 "	-	0.787 "	4.1 "	0.69 "	3/16 " -24	1.15
CAT40-SLN3/16 "-2.5 "	5.187 "	0.562 "		0.984 "	2.5 "	0.69 "	1/4 " -28	1.20
CAT40-SLN1/4 "-3 "	5.687 "	0.63 "		1.38 "	2.5 "	0.78 "	1/4 " -28	1.15
CAT40-SLN5/16 "-3 "		0.63 "		1.38 "	4.1 "	0.88 "	5/16 " /24	1.20
CAT40-SLN3/8 "-3 "		0.75 "		1.535 "	2.5 "	1 "	3/8 " -24	1.25
CAT40-SLN1/2 "-3 "		0.875 "		1.732 "	2.7 "	1.25 "	7/16 " -20	1.40
CAT40-SLN5/8 "-3 "		0.937 "		1.85 "	3.6 "	1.5 "	1/2 " -20	1.50
CAT40-SLN3/4 "-3 "	1 "	1.929 "	3.9 "	1.75 "	5/8 " -18	1.65		
CAT40-SLN7/8 "-3.5 "	6.187 "	1.063 "	1 "	2.36 "	4.2 "	1.88 "	5/8 " -18	2.55
CAT40-SLN1 "-4 "	6.687 "	1.125 "		2.559 "	4.4 "	2 "	3/4 " -16	2.80
CAT40-SLN1-1/4 "-4.6 "	7.287 "	1.125 "		2.559 "	4.0 "	2.5 "	3/4 " -16	2.90
CAT40-SLN1-1/2 "-4.5 "	7.187 "	1.125 "		2.56 "	3.0 "	2.5 "	3/4 " -16	3.20
CAT50-SLN1/4 "-4 "	8 "	0.63 "		1.378 "	3.4 "	0.78 "	1/4 " -28	3.95
CAT50-SLN5/16 "-4 "		0.63 "		1.378 "	4.9 "	0.88 "	5/16 " -24	3.95
CAT50-SLN3/8 "-4 "		0.781 "		1.535 "	3.4 "	1 "	3/8 " -24	4.00
CAT50-SLN1/2 "-4 "		0.875 "		1.732 "	3.5 "	1.25 "	7/16 " -20	4.15
CAT50-SLN5/8 "-4 "		0.937 "		1.85 "	4.6 "	1.5 "	1/2 " -20	4.30
CAT50-SLN3/4 "-4 "		1 "		1.929 "	4.6 "	1.75 "	5/8 " -18	4.35
CAT50-SLN7/8 "-4 "		1.063 "	2.362 "	4.2 "	1.88 "	5/8 " -18	5.30	
CAT50-SLN1 "-4 "		1.125 "	2.56 "	4.4 "	2 "	3/4 " -16	5.50	
CAT50-SLN1-1/4 "-4 "		1.125 "	2.756 "	4 "	2.5 "	3/4 " -16	5.65	
CAT50-SLN1-1/2 "-4.6 "		8.6 "	1.125 "	2.756 "	4 "	2.5 "	3/4 " -16	5.70
CAT50-SLN2 "-6 "	10 "	1.335 "	1.41 "	3.347 "	5 "	3.75 "	3/4 " -16	5.90
CAT50-SLN1"-6"	10 "	1.125 "	1 "	2.56 "	4.4 "	2 "	3/4 " -16	5.50
CAT50-SLN3/4"-6"	10 "	1.125 "	1 "	1.929 "	4.6 "	1.75 "	5/8 " -18	4.50
CAT50-SLN1-1/4"-6"	10 "	1.125 "	1 "	2.756 "	4.3 "	2.5 "	3/4 " -16	5.80

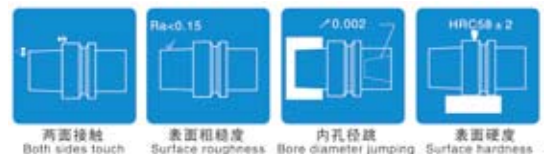
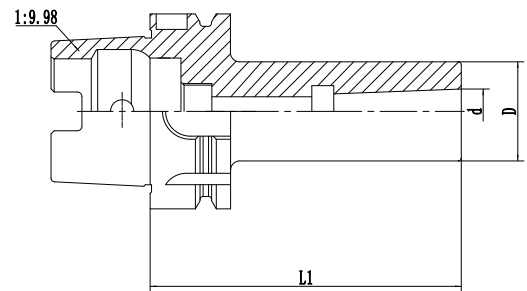
数控刀柄系列 CNC TOOL SYSTEMS

CD1111-01 HSK莫氏变径套 HSK MORSE TAPER SLEEVE(TYPE A)



型号 Model No.	柄部 Shank	d	D	L1
HSK63A-MTA1-100	HSK63A	12.065	25	100
HSK63A-MTA2-120	HSK63A	17.78	32	120
HSK63A-MTA3-140	HSK63A	23.825	40	140
HSK63A-MTA4-160	HSK63A	31.267	48	160
HSK100A-MTA1-110	HSK100A	12.065	25	110
HSK100A-MTA2-120	HSK100A	17.78	32	120
HSK100A-MTA3-150	HSK100A	23.825	40	150
HSK100A-MTA4-170	HSK100A	31.267	48	170
HSK100A-MTA5-200	HSK100A	44.399	63	200

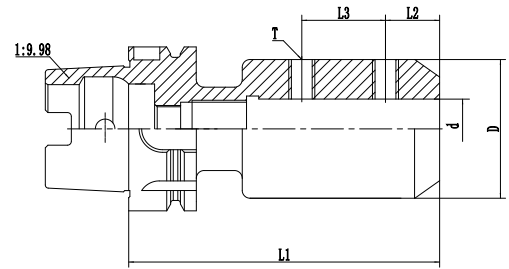
CD1111-02 HSK后拉式莫氏变径套 HSK MORSE TAPER SLEEVE(TYPE B)



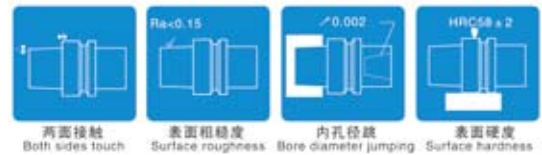
型号 Model No.	柄部 Shank	d	D	L1
HSK63A-MTB1-100	HSK63A	12.065	25	100
HSK63A-MTB2-120	HSK63A	17.78	32	120
HSK63A-MTB3-140	HSK63A	23.825	40	140
HSK63A-MTB4-160	HSK63A	31.267	48	160
HSK100A-MTB1-110	HSK100A	12.065	25	110
HSK100A-MTB2-120	HSK100A	17.78	32	120
HSK100A-MTB3-150	HSK100A	23.825	40	150
HSK100A-MTB4-170	HSK100A	31.267	48	170
HSK100A-MTB5-200	HSK100A	44.399	63	200

数控刀柄系列 CNC TOOL SYSTEMS

CD1111-03 HSK侧固式立铣刀柄 HSK SIDE LOCK END MILL HOLDER



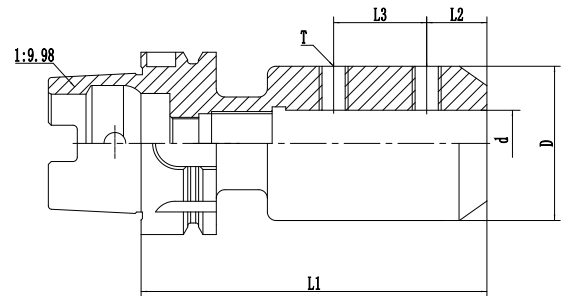
●精做动平衡 Precision dynamic balancing
G6.3 12000/18000rpm



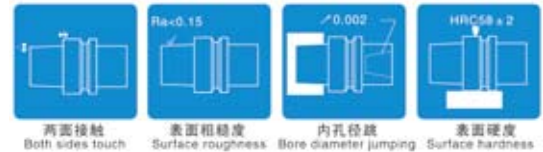
型号 Model No.	柄部 Shank	d	D	L1	L2	L3	T
HSK63A-SLN6-65	HSK63A	6	25	65	18		M6X1
HSK63A-SLN6-100	HSK63A	6	25	100			
HSK63A-SLN6-120	HSK63A	6	25	120			
HSK63A-SLN6-160	HSK63A	6	25	160			
HSK63A-SLN8-65	HSK63A	8	28	65	18		M8X1.25
HSK63A-SLN8-100	HSK63A	8	28	100			
HSK63A-SLN8-120	HSK63A	8	28	120			
HSK63A-SLN8-160	HSK63A	8	28	160			
HSK63A-SLN10-65	HSK63A	10	35	65	20		M10X1.5
HSK63A-SLN10-100	HSK63A	10	35	100			
HSK63A-SLN10-120	HSK63A	10	35	120			
HSK63A-SLN10-160	HSK63A	10	35	160			
HSK63A-SLN12-80	HSK63A	12	42	80	22.5	M12X1.75	
HSK63A-SLN12-100	HSK63A	12	42	100			
HSK63A-SLN12-120	HSK63A	12	42	120			
HSK63A-SLN12-160	HSK63A	12	42	160			
HSK63A-SLN14-80	HSK63A	14	44	80	22.5	M12X1.75	
HSK63A-SLN14-100	HSK63A	14	44	100			
HSK63A-SLN14-120	HSK63A	14	44	120			
HSK63A-SLN14-160	HSK63A	14	44	160			
HSK63A-SLN16-80	HSK63A	16	48	80	24	M14X2	
HSK63A-SLN16-100	HSK63A	16	48	100			
HSK63A-SLN16-120	HSK63A	16	48	120			
HSK63A-SLN16-160	HSK63A	16	48	160			
HSK63A-SLN18-80	HSK63A	18	50	80	24	M14X2	
HSK63A-SLN18-100	HSK63A	18	50	100			
HSK63A-SLN18-120	HSK63A	18	50	120			
HSK63A-SLN18-160	HSK63A	18	50	160			
HSK63A-SLN20-80	HSK63A	20	52	80	25	M16X2	
HSK63A-SLN20-120	HSK63A	20	52	120			
HSK63A-SLN20-160	HSK63A	20	52	160			
HSK63A-SLN25-110	HSK63A	25	65	110	24	25	M18X2
HSK63A-SLN25-160	HSK63A	25	65	160			
HSK63A-SLN32-110	HSK63A	32	72	110	24	28	M20X2
HSK63A-SLN32-120	HSK63A	32	72	120			
HSK63A-SLN32-160	HSK63A	32	72	160			
HSK63A-SLN40-125	HSK63A	40	80	125	30	32	M20X2

数控刀柄系列 CNC TOOL SYSTEMS

CD1111-04 HSK侧固式立铣刀柄 HSK SIDE LOCK END MILL HOLDER

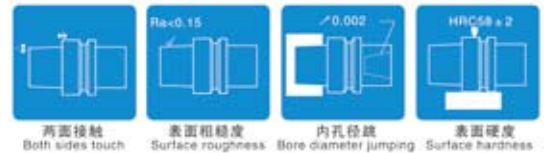
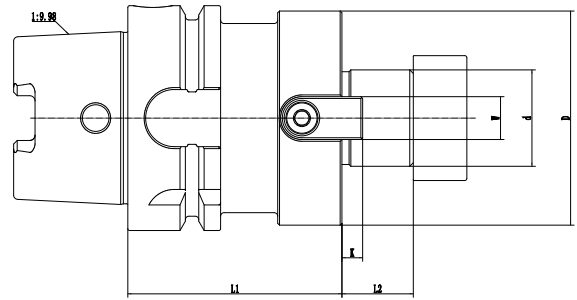


●精做动平衡 Precision dynamic balancing
G6.3 12000/18000rpm



型号 Model No.	柄部 Shank	d	D	L1	L2	L3	T
HSK100A-SLN6-80	HSK100A	6	25	80	18	-	M6X1
HSK100A-SLN6-160	HSK100A	6	25	160			M8X1.25
HSK100A-SLN8-80	HSK100A	8	28	80			M10X1.5
HSK100A-SLN8-160	HSK100A	8	28	160			M12X1.75
HSK100A-SLN10-80	HSK100A	10	35	80	20	-	M10X1.5
HSK100A-SLN10-160	HSK100A	10	35	160			M12X1.75
HSK100A-SLN12-80	HSK100A	12	42	80			M14X2
HSK100A-SLN12-160	HSK100A	12	42	160			M16X2
HSK100A-SLN14-80	HSK100A	14	44	80	22.5	-	M12X1.75
HSK100A-SLN14-160	HSK100A	14	44	160			M14X2
HSK100A-SLN16-100	HSK100A	16	48	100			M16X2
HSK100A-SLN16-160	HSK100A	16	48	160			M18X2
HSK100A-SLN18-100	HSK100A	18	50	100	24	-	M14X2
HSK100A-SLN18-160	HSK100A	18	50	160			M16X2
HSK100A-SLN20-100	HSK100A	20	52	100			M18X2
HSK100A-SLN20-160	HSK100A	20	52	160			M20X2
HSK100A-SLN25-100	HSK100A	25	65	100	25	-	M16X2
HSK100A-SLN25-160	HSK100A	25	65	160			M18X2
HSK100A-SLN32-100	HSK100A	32	72	100			M20X2
HSK100A-SLN32-160	HSK100A	32	72	160			M20X2
HSK100A-SLN40-105	HSK100A	40	80	105	24	25	M18X2
HSK100A-SLN40-160	HSK100A	40	80	160			
HSK100A-SLN40-105	HSK100A	40	80	105	30	32	M20X2
HSK100A-SLN40-160	HSK100A	40	80	160			

CD1111-05 HSK平面铣刀柄 HSK FACE MILL ARBOR



型号 Model No.	柄部 Shank	d	D	L1	L2
HSK63A-FMB16-50	HSK63A	16	38	50	17
HSK63A-FMB16-100	HSK63A	16	38	100	17
HSK63A-FMB16-160	HSK63A	16	38	160	17
HSK63A-FMB22-50	HSK63A	22	48	50	19
HSK63A-FMB22-100	HSK63A	22	48	100	19
HSK63A-FMB22-160	HSK63A	22	48	160	19
HSK63A-FMB27-60	HSK63A	27	58	60	21
HSK63A-FMB27-100	HSK63A	27	58	100	21
HSK63A-FMB27-160	HSK63A	27	58	160	21
HSK63A-FMB32-60	HSK63A	32	78	60	24
HSK63A-FMB32-100	HSK63A	32	78	100	24
HSK63A-FMB32-160	HSK63A	32	78	160	24
HSK63A-FMB40-60	HSK63A	40	88	60	27
HSK63A-FMB40-100	HSK63A	40	88	100	27
HSK63A-FMB40-160	HSK63A	40	88	160	27
HSK100A-FMB16-50	HSK100A	16	48	50	19
HSK100A-FMB16-100	HSK100A	16	48	100	19
HSK100A-FMB16-160	HSK100A	16	48	160	19
HSK100A-FMB22-50	HSK100A	22	48	50	19
HSK100A-FMB22-100	HSK100A	22	48	100	19
HSK100A-FMB22-160	HSK100A	22	48	160	19
HSK100A-FMB27-50	HSK100A	27	58	50	21
HSK100A-FMB27-100	HSK100A	27	58	100	21
HSK100A-FMB27-160	HSK100A	27	58	160	21
HSK100A-FMB32-50	HSK100A	32	78	50	24
HSK100A-FMB32-100	HSK100A	32	78	100	24
HSK100A-FMB32-160	HSK100A	32	78	160	24
HSK100A-FMB40-60	HSK100A	40	88	60	27
HSK100A-FMB40-100	HSK100A	40	88	100	27
HSK100A-FMB40-160	HSK100A	40	88	160	27

高精度、高寿命**自紧钻夹头**系列

High accuracy high durability keyless drill chucks

钻夹头综合特点

- ◆刀柄柄体材质: 20CrMnTi
硬度 :56-58HRC;
- ◆渗碳深度: > 0.8;
- ◆夹头和柄的一体式设计, 可避免夹头与柄分离, 提高可靠性和稳定性;
- ◆当钻孔时, 稍微拧紧夹头, 把持力加强与转矩增大, 抓力明显增强, 防止钻头移动;
- ◆采用涂层表面工艺, 提高表面抗磨损能力, 防锈、防腐效果更好, 精度更稳定, 表面更光滑外型更美观。

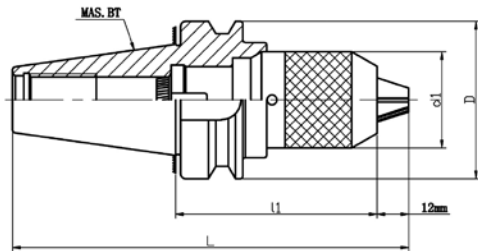
Comprehensive features of drill chucks

- ◆Material:20CrMnTi,Hardness:56-58HRC;
- ◆Carbon depth: > 0.8;
- ◆Integrated design of the rob and chuck can avoid the rob and chuck separate, enhance reliability and stability;
- ◆Self-tightening, grasp the chuck slightly, when drilling, grasp force is enhancing with the torque increasing and develop obvious strong grasp force to prevent the drill remove;
- ◆Coating surface enhance surface hardness durability, anti-rust and anti-corrosion better, precision more stable, surface more smooth and appearance more nice.



钻夹头系列 DRILL CHUCK

CD1201-01 APU带柄自紧钻夹头刀柄 APU DRILL CHUCK HOLDER



◇特点:

- ◎ 卡爪镀钛, 提高耐磨性, 整体涂层。
- ◎ 连接杆和夹头整合的设计, 防止夹头和接杆意外的被分离。
- ◎ 具有高精度, 高夹紧, 高可靠性和稳定性。
- ◎ 易损部件淬火处理。
- ◎ 具有自紧功能, 轻轻夹紧钻头即可, 在钻孔中随着扭矩的增加而同步增加夹持力, 并能产生明显的高强度夹持力, 从而防止钻头打滑。

◇Features:

- ◎ Jaws titanium, improve the wear resistance, surface coating
- ◎ Integrated design of the rob and collet, can avoid the collet and rob separate;
- ◎ High accuracy, strong grasp force, and high stability;
- ◎ Easy broken parts are dealt by quenching;
- ◎ Self-tightening, grasp the collet slightly, when drilling, grasp force is enhancing with the torque increasing and develop. obvious strong grasp force to prevent the drill remove

型号 Model No. d1-l1	l1	L	D	d1	KGS
BT30-APU08-80	80	137.4	46	37	0.72
BT30-APU13-110	110	170.4	46	50	1.85
BT30-APU16-115	115	180.4	46	57	2.18
BT40-APU08-85	85	159.4	63	37	1.46
BT40-APU13-100	100	177.4	63	50	2.00
BT40-APU16-105	105	187.4	63	57	2.33
BT50-APU08-90	90	200.8	100	37	4.16
BT50-APU13-100	100	213.8	100	50	4.70
BT50-APU13-120	120	223.8	100	50	5.00
BT50-APU13-180	180	293.8	100	50	5.80
BT50-APU16-105	105	218.8	100	57	5.03
BT50-APU16-190	190	303.8	100	57	6.00
SK30-APU08-80	80	136.8	50	37	0.60
SK30-APU13-120	120	179.8	50	50	1.45
SK30-APU16-125	125	189.8	50	57	1.78
SK40-APU08-80	80	148.4	63.55	42	1.78
SK40-APU13-105	105	173.4	63.55	54	2.33
SK40-APU13-135	135	193.4	63.55	54	2.63
SK40-APU16-125	125	193.4	63.55	62	2.83
SK40-APU16-150	150	218.4	63.55	62	3.18
SK50-APU08-80	80	181.75	97.5	42	2.33
SK50-APU13-100	100	201.75	97.5	54	2.63
SK50-APU13-120	120	221.75	97.5	54	2.83
SK50-APU16-100	100	201.75	97.5	62	3.15
SK50-APU16-120	120	221.75	97.5	62	3.25
CAT40-APU5/16-3.75 "	3.75 "	6.44 "	2.5 "	1.65 "	1.85
CAT40-APU1/2-4.75 "	4.75 "	7.44 "	2.5 "	2.13 "	2.10
CAT40-APU5/8-6 "	6 "	8.69 "	2.5 "	2.44 "	2.95
CAT50-APU5/16-4 "	4 "	8 "	3.875 "	1.65 "	2.10
CAT50-APU1/2-4.25 "	4.25 "	8.25 "	3.875 "	2.13 "	2.85
CAT50-APU5/8-4.5 "	4.5 "	8.5 "	3.875 "	2.44 "	3.45
NT40-APU13-100	100	205.4 "	63	54	2.3
NT40-APU16-100	100	205.4 "	63	62	2.6

钻夹头系列 DRILL CHUCK

CD1201-02 APU带柄自紧钻夹头刀柄 APU DRILL CHUCK HOLDER

整体式自紧钻夹头 Integrated keyless Drill chuck

◎ 附有夹头柄结构之设计, 使得这更适合铣床及综合切削机。精密的机械工学和坚固耐用的组成确保了精度和使用耐力。

The design of drill chuck make it more suitable for milling machine and integrated cutting machine Exact machinery and firmly components ensure the accuracy and endurance.

◎ 卡爪镀钛, 提高耐磨性, 整体涂层。

◎ Jaws titanium, improve the wear resistance, surface coating

MT:莫氏锥度柄 Morse taper shank

型号 Model No.	夹持范围 Clamp Scope		连接尺寸 Mounts	长度Length			KGS
	mm	inch		A	B	D (Outer)	
JM068H	0.2-8	1/64"-5/16"	MT2	140.5	60.5	37	0.45
JM0613H	0.2-13	1/64"-1/2"	MT2	160	80	54	1
JM0613H	0.2-13	1/64"-1/2"	MT3	179	80	54	1.08
JM0613H	0.2-13	1/64"-1/2"	MT4	205	81	54	1.48
JM0616H	0.2-16	1/64"-5/8"	MT3	184	82	58	1.4
JM0616H	0.2-16	1/64"-5/8"	MT4	209	82	58	1.7

C:直柄 C straight shank

型号 Model No.	夹持范围 Clamp Scope		连接尺寸 Mounts	长度Length			KGS
	mm	inch		A	B	D (Outer)	
JM078H	0.2-8	1/64"-5/16"	C20	120.5	60.5	37	0.52
JM0713H	0.2-13	1/64"-1/2"	C20	140	80	54	0.98
JM0713H	0.2-13	1/64"-1/2"	C25	160	80	54	1.12
JM0713H	0.2-13	1/64"-1/2"	C32	161	81	54	1.37
JM0713H	0.2-13	1/64"-1/2"	C3/4	161	81	54	1.37
JM0713H	0.2-13	1/64"-1/2"	C5/8	161	81	54	1.37
JM0716H	0.2-16	1/64"-5/8"	C20	145	85	58	1.33
JM0716H	0.2-16	1/64"-5/8"	C25	165	85	58	1.48
JM0716H	0.2-16	1/64"-5/8"	C32	165	85	58	1.66
JM0716H	0.2-16	1/64"-5/8"	C3/4	165	85	58	1.66
JM0716H	0.2-16	1/64"-5/8"	C5/8	165	85	58	1.66

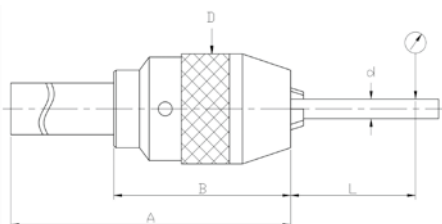
R8柄 R8 taper shank

型号 Model No.	夹持范围 Clamp Scope		连接尺寸 Mounts	长度Length			KGS
	mm	inch		A	B	D (Outer)	
JM0613H	0.2-13	1/64"-1/2"	R8	186	81	54	1.25
JM0616H	0.2-16	1/64"-5/8"	R8	190	85	58	1.54

型号 Model No.	夹持范围 Capacitymm	连接方式 Connection	A	B	D
BJ0108	0.5-8	MT2 (Short)	83.5	59.5	37
BJ0110	1-10	MT2 (Short)	94	70	42
BJ0113	1-13	MT3 (Short)	108	81.5	49
BJ0113	1-13	MT2 (Short)	106	81.5	49
BJ0116	1-16	MT3 (Short)	115	88	54

精度检验表 Precision Inspection Table

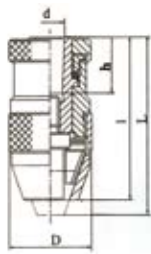
型号 Model No.	直径d	长度L	径向跳动MAX Run-out
0.2-8	4	35	0.08
	6	35	0.08
	8	50	0.08
0.2-10	5	35	0.05
	6	35	0.05
	10	58	0.05
0.2-13	6	55	0.05
	10	55	0.05
	13	75	0.05
0.2-16	6	55	0.05
	10	55	0.05
	16	80	0.05



CD1201-03 自紧钻夹头 KEYLESS DRILL CHUCK



Fig1



重型 Heavy

特点:

- ◇ 卡爪镀钛, 整体涂层, 提高耐磨性。
- ◇ 本产品执行中华人民共和国机械工业部JB4371.1~4371.3-99标准。
- ◇ 高精度, 超强自紧式钻夹头, 良好的刚性, 持久耐用。
- ◇ 适用于加工中心, 数控车床, 镗床, 铣床等机床。

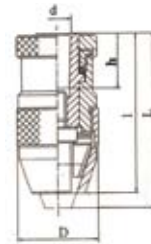
Features:

- ◇ Jaws titanium, improve the wear resistance, surface coating.
- ◇ This product is in conformity with the standard of JB4371.1-4371.3-99 of the Mechanical En-gineering Ministry of China.
- ◇ High precision super drill chucks, Good rigidity & High durability.
- ◇ Suitable for Heavy duty & Extra heavy duty. For Machining center, Digital control machine-tool, Boring lathe and Milling machine.

轻型 Light



Fig2



特点:

- ◇ 卡爪镀钛, 整体涂层, 提高耐磨性。
- ◇ 本产品执行中华人民共和国机械工业部JB4371.1~4371.3-99标准。
- ◇ 体积小, 重量轻, 操作安全, 简便。
- ◇ 广泛适用于各类钻床, 铣床, 车床, 镗床及手电工具。

Features:

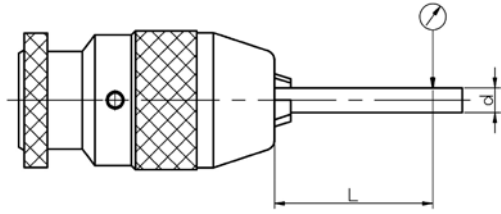
- ◇ Jaws titanium, improve the wear resistance, surface coating.
- ◇ This product is in conformity with the standard of JB4371.1-4371.3-99 of the Mechanical En-gineering Ministry of China.
- ◇ Small volume, Little weight, Extremely safe and Easy operation.
- ◇ For Various drill machines, Milling machine, Lathe, Boring Lathe and Electric hand tool.

主要技术参数 MAIN SPECIFICATIONS

型号 Model No.	夹持范围 Capacity mm	锥孔号 Taper	Fig	d	h	D	L	I
J0106	0.3~4	JT0	Fig1	6.350	11.112	φ28	50	45
	0.5~6	B10	Fig1, Fig2	10.094	14.5	φ35	67	61
		B12	Fig1, Fig2	12.065	18.5			
	1/64" ~1/4"	JT0	Fig1, Fig2	6.350	11.112			
JT1		Fig1, Fig2	9.754	16.669				
J0108	0.5~8	B12	Fig1	12.065	18.5	φ42	91	84
			Fig2				86	78
		B16	Fig1	15.733	24.0		91	84
			Fig2				86	78
	1/64" ~5/16"	JT2	Fig1	14.199	22.225		91	84
			Fig2				86	78
		JT33	Fig1	15.850	25.400		91	84
			Fig2				86	78
J0110H	1~10	B12	Fig1	12.065	18.5	91	84	
			Fig2			86	78	
		B16	Fig1	15.733	24.000	91	84	
			Fig2			86	78	
	1/32" ~3/8"	JT2	Fig1	14.199	22.225	91	84	
			Fig2			86	78	
		JT33	Fig1	15.850	25.400	91	84	
			Fig2			86	78	
J0113H	1~13	B12	Fig1	12.065	18.5	φ48	106	97
			Fig2			φ44	97	88
		B16	Fig1	15.733	24.0	φ48	106	97
			Fig2			φ44	97	88
	1/32" ~1/2"	JT2	Fig1	14.199	22.225	φ48	106	97
			Fig2			φ44	97	88
		JT33	Fig1	15.850	25.400	φ48	106	97
			Fig2			φ44	97	88
	1/32" ~1/2"	JT6	Fig1	17.170	25.400	φ48	106	97
			Fig2			φ44	97	88
J0116H	1~16	B16	Fig1	15.733	24.0	φ53	109	101
			Fig2			φ48	102	92
	3~16	B18	Fig1	17.780	32.0	φ53	109	101
			Fig2			φ48	108	98
	1/32" ~5/8"	JT6	Fig1	17.170	25.400	φ53	109	101
			Fig2			φ48	108	98
		JT3	Fig1	20.599	30.956	φ53	109	101
			Fig2			φ48	108	98
1/8" ~5/8"	JT6	Fig1	17.170	25.4000	φ48	102	92	
		Fig2			φ48	102	92	
J0120H	5~20	B22	Fig1	21.793	40.5	φ62	129	119
			Fig2			21.3	30.5	φ53
	3/16" ~3/4"	JT3	Fig1	20.599	30.956	φ62	129	119
			Fig2			φ53	115	103

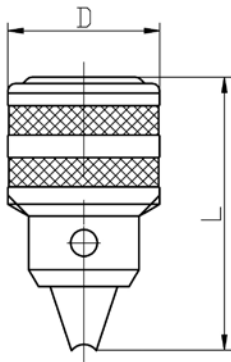
钻夹头系列 DRILL CHUCK

精度检验 precision inspection



夹特范围 Capacity mm	直径d (mm)	L(mm)	径向跳动 Run out		力矩 N.M
			M级	P级	
0.2-8	4	45	0.05	0.1	4
	8	80			
0.2-10	5	60			
	10	95			
0.2-13	6	65			
	13	105			
0.2-16	8	80			
	16	110			

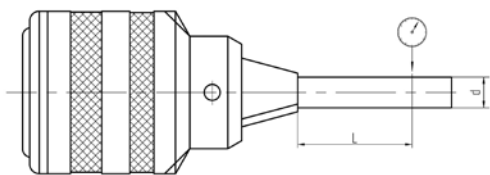
CD1202-01 扳手钻夹头 KEY TYPE DRILL CHUCK



- ◎ 适合中、重型钻削
- ◎ 应用于铣床、车床、钻床、木工机械
- ◎ 能够承受高速切削
- ◎ 外观发黑或涂层处理
- ◎ Suitable for medium、heavy duty drilling use
- ◎ For milling machine、lathe、drilling machine、wood working machine
- ◎ High speed drilling can be performed for possessing high gripping power
- ◎ Black appearance or coating process

圆锥连接 MORSE TAPER MOUNT

型号 Model No.	夹特范围 Capa		Connection Mount	D	L	KGS
	mm	Inch				
J226	0.6-6	1/64-1/4	JT1	31.0	49	0.125
J2210	1.0-10	1/31-3/8	JT2	42.5	70	0.335
J2213	1.0-13	1/32-1/2	JT33	53.0	86	0.620
J2616	3.0-16	1/8-5/8	JT6			
			JT3			
			JT33			
J2216	1.0-16	1/32-5/8	JT3	57	93	0.800
J2220	5.0-20	3/16-3/4	JT3	65.3	110	1.185
J2110	1.0-10	1/32-3/8	B12	42.5	70	0.335
J2113	1.0-13	1/32-1/2	B16	53.0	86	0.620
J2516	3.0-16	1/8-5/8	B16			
			B18			
J2116	1.0-16	1/32-5/8	B16	57	93	0.800
			B18			
J2120	5.0-2.0	3/16-3/4	B22	65.3	110	1.185



夹特范围 Capacity mm	直径d (mm)	L(mm)	径向跳动 Run out	
			M级	P级
0.6-6	3	45	0.05	0.12
	6	80		
1-10	5	60		
	10	95		
1-13	6	65		
	13	105		
3-16	8	80		
	16	110		
5-20	10	100		
	20	130		

高速、高精度、高寿命**拉钉**系列

High Speed High accuracy High durability pull stud

特点:

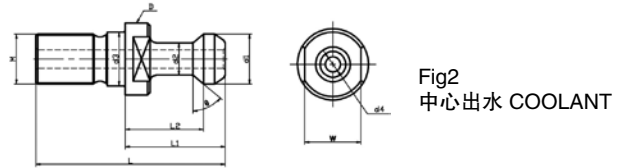
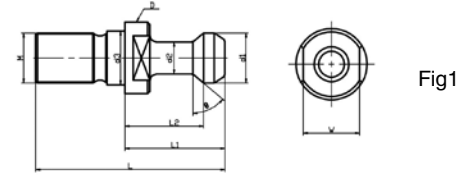
- ◆材质: 20CrMnTi;
- ◆渗碳深度: > 0.8;
- ◆头部硬度: 54-57HRC;
- ◆螺纹及其它部位硬度较低: 35 ± 5 HRC, (保护柄螺纹,核心硬度可以抵御冲击);
- ◆深冷处理和热时效处理可减少残余应力,提高耐用性和精度稳定性;
- ◆采用表面涂层工艺,提高表面抗磨损能力,防锈、防腐效果更好,精度更稳定,表面更光滑外型更美观。

- ◆Material: 20CrMnTi;
- ◆Carbon depth: > 0.8;
- ◆Head hardness: 54-57HRC;
- ◆Thread hardness is a little low ; 35 ± 5 HRC (Protect shank thread, core hardness can resist hit);
- ◆Cryogenic treatment and thermal aging treatment can reduce the inner residual stress, improve durability and precision stability;
- ◆Appearance Electroless plating process improve surface hardness durability, cleanness, precision stability, the surface is more smooth, anti-rust and anti-corrosion is better, feel comfortable and surface is more nice.



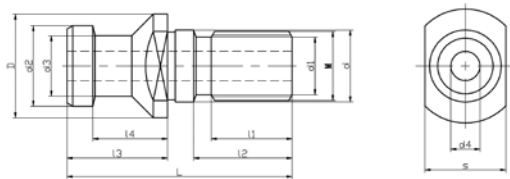
拉钉系列 PULL STUD

CD1301-01 BT (MAS 403) 拉钉BT (MAS 403) PULL STUD

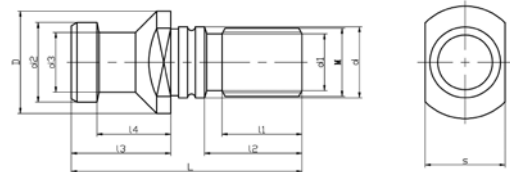


型号 Model No.	Fig.	L	M	D	S	d1	L1	L2	d2	d3	θ	d4
BT30-θ	Fig1	43	12	16.5	13	11	23	18	7	12.5	45° /60° /90°	2.5
	Fig2											
BT40-θ	Fig1	60	16	23	19	15	35	28	10	17		45°
	Fig2											
BT40-MAZAK	Fig2	44.1	16	22	19	18.8	19.1	14.02	12.45	17	45°	7
BT50-θ	Fig1	85	24	38	30	23	45	35	17	25	45° /60° /90°	6
	Fig2											
BT50-MAZAK	Fig2	65.2	24	37	30	29	25.2	17.7	20.83	25		45°

CD1301-02 DIN69872A/B-拉钉 PULL STUD



A Type

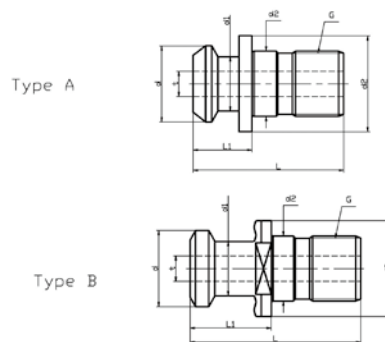


B Type

型号 Model No.	Size	L	D	d	d1	d2	d3	d4	M	L1	L2	L3	L4	W	
DIN 69872-A	30	44	17	13	10	13	9	3	M12	10	15	24	19	14	
	40	54	23	17	13.5	8.5	10	19	14	7	M16	15	21	26	20
		85													
		110													
		86													
		111													
		108													
	50	74	36	25	20	16.5	28	21	11.5	M24	23	30	34	25	30
		110													
	DIN 69872-B	30	44	17	13	10	13	9	-	M12	10	15	24	19	14
40		54	23	17	13.5	19	14	-	M16	15	21	26	20	19	
50		74	36	25	20	28	21	-	M24	23	30	34	25	30	

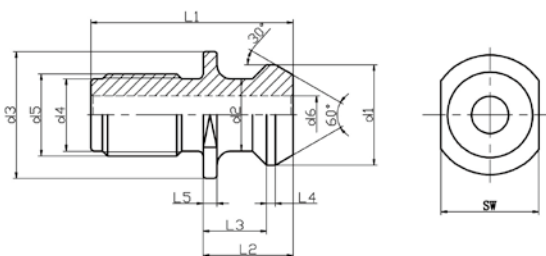
拉钉系列 PULL STUD

CD1301-03 ISO 7388A/B-拉钉 PULL STUD



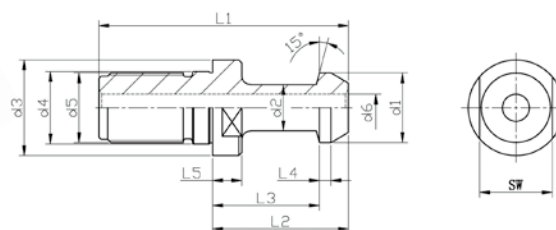
型号 Model No.	TYPE	L	d	d1	d2	d3	t	G
ISO7388/2-P12D	A	44	12	8	13	18	-	M12
	B	27	13.3	9.3				
ISO7388/2-P16D	A	54	19	14	17	23	7.5	M16
	B	44.5	18.95	12.95				
ISO7388/2-P24D	A	74	28	21	25	36	11.5	M24
	B	65.5	29.1	19.6				

CD1301-04 CAT40/50-拉钉 PULL STUD



型号 Model No.	d1	d2	d3	d4	d5 NUC	d6	L1	L2	L3	SW	KGS
CAT30-45°	0.52	0.385	0.65	0.385	1/2" -13	-	1.1	0.46	0.32	0.53	0.03
CAT40-45°	0.74	0.49	0.94	0.49	5/8" -11	-	1.5	0.64	0.44	0.75	0.04
CAT50-45°	1.14	0.82	1.44	0.82	1" -8	-	2.3	1	0.7	1.25	0.16
CAT40-45° W	0.74	0.49	0.94	0.49	5/8" -11	0.281	1.5	0.64	0.44	0.75	0.03
CAT50-45° W	1.14	0.82	1.44	0.82	1" -8	0.468	2.3	1	0.7	1.25	0.15

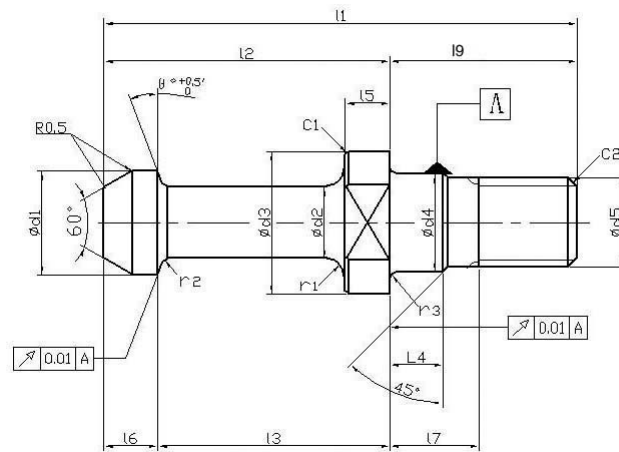
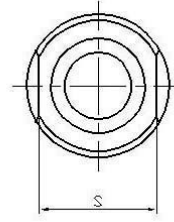
CD1301-05 JIS B6339



型号 Model No.	d1	d2	d3	d4	d5	d6	L1	L2	L3	L4	L5	SW	KGS
30P	12	8	16.5	12.5	M12	-	43	23.4	18.4	3	5	13	0.03
40P	19	14	23	17	M16	7	54	29	23	3	7	19	0.08
50P	28	21	38	25	M24	10	74	34	25	5	7	30	0.24

拉钉系列 PULL STUD

CD1301-06 SR 拉钉 (ST刀柄专用拉钉) SR PULL STUD ()

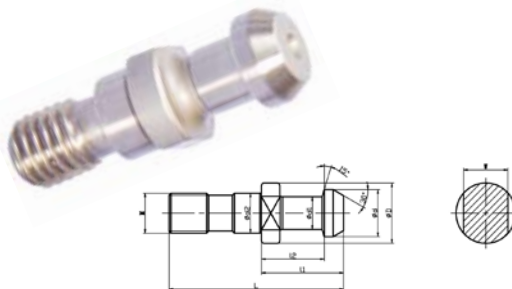


型号 Model No.	l_1	d_4 h_7	d_5 6_g	C_2	r_3 (Max)	l_4	l_7	$d_{3-0.1}^0$	r_1	$l_{5-0.1}^0$	$s_{0-0.2}^0$	C_1
S5R	23.5	5.5	M5	0.5	0.4	3	5	8	1	2.5	7	0.2
S10R	26.5	6.5	M6	0.5	0.4	3	5	10	1.5	3	8	0.3
S15R	32	8.5	M8	1	0.5	4	6	12	1.5	3.5	10	0.4
S20R	34.5	8.5	M8	1	0.5	4	6	14	1.8	4	10	0.5
S25R	40	10.5	M10	1	0.5	4	7	15.5	2	4.5	13	0.5

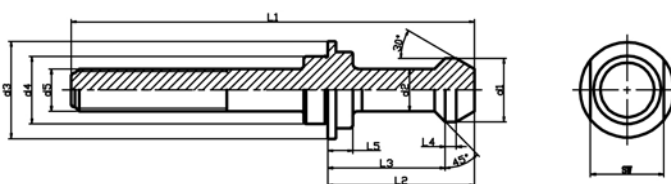
型号 Model No.	$d_{1-0.1}^0$	$d_{2-0.1}^0$	$l_{2-0.1}^0$	$l_{3-0.1}^0$	l_6	r_2	θ		l_{3-5}	l_9	CHUCK
							1形	2形			
S5R	5.8	4	13.5	10.5	1.4	0.3	+0.5° 0 15°	+0.5° 0 0°	8	10	S5T
S10R	7	5	15.5	12	1.6	0.3			9	11	S10T
S15R	8.3	6	18	14	1.9	0.4			10.5	14	S15T
S20R	9.5	7	20.5	16	2.1	0.4			12	14	S20T
S25R	10.8	8	23	18	2.3	0.5			13.5	17	S25T

CD1301-07 ISO雕刻机用拉钉 PULL STUD OF CARVING MACHINE

型号 Model No.	D	d	d1	d2	L	l1	l2	W	M
ISO20	11.4	9	6	8.5	26	12	9	10	M8X1.25
ISO25	12	10	7	9	32	16	11.6	10	M8X1.25
ISO30	17	13	9	13	45	24	19	14	M12X1.75



CD1301-08 无扁尾莫氏圆锥孔刀柄加长拉钉
ADAPTOR SLEEVES FOR MORSE TAPER WITHOUT TANG



MAS 403-1975

型号 Model No.	d1	d2	d3	d4	d5	L1	L2	L3	L4	L5	SW	KGS
BT40-45°	15	10	23	17	M10	115	35	28	2.7	6	19	0.14
BT40-45°					M12							
BT40-45°					M14							
BT40-45°					M16							
BT40-60°					M12							
BT40-60°					M16							
BT50-45°	23	17	38	25	M20	170	45	35	5	10	30	0.42

JIS B6339

型号 Model No.	d1	d2	d3	d4	d5	d6	L1	L2	L3	L4	L5	SW	KGS
40P-110	19	14	23	17	M12	-	110	29	23	3	7	19	0.15
40P-115					M16		115						

ISO 7388/2 A

型号 Model No.	d1	d2	d3	d4	d5	d6	L1	L2	L3	L4	L5	SW	KGS
LDA40-110	19	14	23	17	M12	-	110	25	20	4	4	19	0.15
LDA40-116					M16		116						

ISO 7388/2 B

型号 Model No.	d1	d2	d3	d4	d5	d6	L1	L2	L3	L4	L5	SW	KGS
LDB40-110	18.95	12.95	23	17	M12	-	100	16.4	11.5	1.75	3.25	19	0.15
LDB40-106					M16		106						

高精度、高寿命**攻丝刀柄**系列

High accuracy high durability tapping chucks

特点:

- ◆材质: 20CrMnTi;
- ◆渗碳深度: > 0.8;
- ◆硬度: 56-60HRC;
- ◆柄体锥度精度等级按 $\leq AT3$;
- ◆攻丝夹头具有螺距补偿装置在前, 后, 攻丝夹头具有转矩过载保护装置, 防止丝锥折断
- ◆夹头有不同直径可以通过调整螺母, 得到不同的滑动力矩;
- ◆深冷处理
所有的数控刀柄都进行长时间深冷处理使残余奥氏体向马氏体和纳米碳化物颗粒沉淀, 提高刀柄硬度, 韧性和耐久性, 降低残余内应力;
- ◆热时效处理
长时间的热时效处理有效去除磨加工时的残余内应力。
- ◆提供两种外观: 喷砂外观和涂层处理。

Comprehensive features of tapping chucks

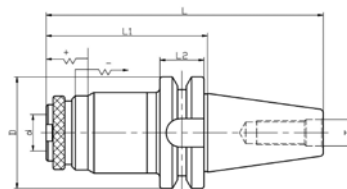
- ◆Material 20CrMnTi;
- ◆Carbon depth>0.8 ;
- ◆Hardness 56-60HRC;
- ◆Tapper tolerance: $\leq AT3$, High precision connection of the shank
- ◆Tapping chuck has pitch compensate device in the front and at the end, tapping collet has torque overload protection device to prevent tap breaking;
- ◆Tap with different Dia can get different slip torque by adjusting the nut;
- ◆cryogenic treatment:
All of the CNC chucks are processed long time sub-zero treatment Make the residual austenite into martensite and precipitate of nano-sized carbide particles, enhance chucks hardness, toughness durability, and reduce the residual internal stress.
- ◆Thermal aging treatment:
Long time thermal aging treatment can get rid of the residual internal stress in grinding process.
- ◆Provide 2 kinds appearance : Sand-blasting and nickel coating process.



攻丝夹头系列 TAPPING CHUCK SERIES

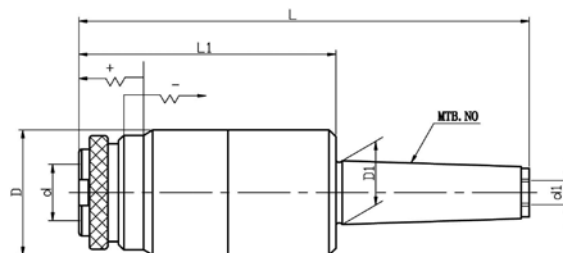
CD1401-01 BT、SK(DIN69871)、NT G型攻丝夹头刀柄 BT、SK(DIN69871)、NT TAP HOLDER ADAPTER

型号 Model No.	攻牙范围 Gripl range	D	d	L	L1	L2	T	筒夹名称 Collet name
BT30-G3	M3-M12	46	19	141	87.6	20	M12	G3
BT40-G3		63		153	92.6	25	M16	
BT50-G3		100		199	97.2	35	M24	
BT40-G12	M12-M24	63	30	200	134.6	25	M16	G12
BT50-G12		100		246	142.2	35	M24	
BT50-G24	M24-M42	100	45	276	174.2		M24	G24
SK30-G3	M3-M12	50	19	137	78.5	15.9	M12	M3
SK40-G3		63.55		144	83.5		M16	
SK50-G3		97.50		180	88.5		M24	
SK40-G12	M12-M24	63.55	30	191	125.5		M16	G12
SK50-G12		97.50		227	125.5	M24		
SK50-G24	M24-M42	97.50	45	257	155.1		M24	G24
NT30-G3	M3-M12	50	19	149	100.6	8	M12	G3
NT40-G3		63		166	100.6	10	M16	
NT50-G3		100		201	102.6	12	M24	
NT40-G12	M12-M24	63	30	213	147.6	10	M16	G12
NT50-G12		100		248	149.6	12	M24	
NT50-G24	M24-M42	100	45	278	176.6		M24	G24



- ◎ 具有扭矩过载保护装置，防止丝锥断裂
- ◎ 具有张力和弹力的丝锥刀柄
- ◎ 刀具更换简便快捷
- ◎ With torque overload protection device to prevent tap break
- ◎ With tension and elasticity
- ◎ Easier to change the insert

CD1401-02 G型扭矩保护攻丝夹头 REVERSIBLE TAPPING CHUCK TYPE G



型号 Model No.	攻牙范围 Gripl range	D	d	L	L1	D1	筒夹名称 Collet name
MTA2-G3	M3-M12	46	19	169	89	17.78	G3
MTA3-G3				188		23.825	
MTA4-G3				213		31.267	
MTA3-G12	M12-M24	66	30	219	120	23.825	G12
MTA4-G12				244		31.267	
MTA5-G24	M24-M42	92	45	296	140	44.399	G24
MTB3-G03	M3-M12	46	19	176	89	23.825	G3
MTB4-G03				199		31.267	
MTB3-G12	M12-M24	66	30	206	120	23.825	G12
MTB4-G12				229		31.267	
C20-50-G3	M3-M12	46	19	149	89	20	G3
C20-100-G3				189		25	
C25-50-G3				149			
C25-100-G3				189			
C25-100-G12	M12-M24	66	30	220	120	25	G12
C32-100-G12				220		32	

攻丝夹头系列 TAPPING CHUCK SERIES

CD1402-01 快换式攻丝筒夹 QUICK CHANGE TAPPER COLLET

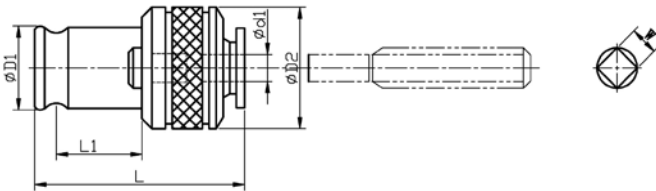
伸缩型 Flexible type

型号 Model No.	Range 攻牙范围	D1	D2	L	L1
G3	M3-M12	19	36	61	17.5
G12	M12-M24	30	58	82	30.5
G24	M24-M42	45	84	118	40



刚性型 Rigidity type

型号 Model No.	Range 攻牙范围	D1	D2	L	L1
G3	M3-M12	19	34	34.5	17.5
G12	M12-M24	30	50	47	30.5
G24	M24-M42	45	72	62	40



型号 Model No.	通用标准 Common standard				英制 Inch	d1	W □
	ISO	JIS	DIN371	DIN376			
G3	M3					2.24	1.8
				M3.5		2.5	2.1
	M3.5					2.5	2.0
				M4		2.8	2.1
		M2				3	2.5
	M3,M4					3.15	2.5
			M3	M5		3.5	2.7
	M3.5, M4.5					3.55	2.8
			M3.5			4	3
		M3			1/8	4	3.2
	M4, M5					4	3.15
			M4	M6		4.5	3.4
	M6					4.5	3.55
	M5	M4, M4.5			5/32	5	4
				M7		5.5	4.3
		M5, M5.5			3/16	5.5	4.5
		M6			1/4	6	4.5
			M5, M6	M8		6	4.9
					5/16	6.1	5
		M7, M8				6.2	5
M6, M8					6.3	5	
	M9, M10	M7	M10	3/8	7	5.5	
	M11			7/16	8	6	
		M8	M11		8	6.2	
M8, M10					8	6.3	
	M12				8.5	6.5	
			M12		9	7	
M12				1/2	9	7.1	

型号 Model No.	通用标准 Common standard				英制 Inch	d1	W □
	ISO	JIS	DIN371	DIN376			
G12		M12				8.5	6.5
				M12		9	7
	M12				1/2	9	7.1
			M10			10	8
		M14, M15			9/16	10.5	8
				M14		11	9
	M14					11.2	9
				M16	5/8	12	9
	M16	M16				12.5	10
		M17				13	10
		M18		M18	3/4	14	11
	M18, M20					14	11.2
		M20				15	12
				M20		16	12
	M22					16	12.5
		M22			7/8	17	13
			M22, M24		18	14.5	
M24					18	14	
	M24,M25				19	15	

型号 Model No.	通用标准 Common standard			英制 Inch	d1	W □
	ISO	JIS	DIN376			
G24			M22, M24		18	14.5
		M24			18	14
			M24,M25		19	15
			M26, M27	1	20	15
		M27,M30		M27	20	16
				M28	21	17
				M30	22	18
		M33			22.4	18
			M30		23	17
			M33		25	19
		M36		M33	25	20
			M36		28	21
		M39,M42			28	22.4

◇ 订购时确认筒夹为扭力攻丝筒夹Fig1或刚性攻丝筒夹Fig2以及攻丝筒夹的柄径d1和四角孔w
 ◇ Quick change tap collet Notice: Before order, please affirm the type is fig1 or fig2, and the d1 and w.

高速、高精度、高寿命**顶尖**系列

High speed high accuracy high durability live center

顶尖综合特点

- ◆材质：轴承钢GCr15;
- ◆硬度：58-62HRC；高刚性和耐久性;
- ◆精度：≤5u，转速最高可达12000rpm,
- ◆顶尖采用精确匹配的角接触球轴承和滚子轴承集成，确保高同心精度;
- ◆密封环在前端防尘和防水,可以避免冷却剂影响轴承,延长的顶尖使用寿命;
- ◆深冷处理
所有的数控顶尖都进行长时间深冷处理使残余奥氏体向马氏体和纳米碳化物颗粒沉淀，提高卡盘的硬度，韧性和耐久性，降低残余内应力。
- ◆热时效处理
长时间的热时效处理有效去除磨加工时的残余内应力。

Comprehensive features of live center

- ◆Material: Mandrel use bearing stell GCr15;
- ◆Hardness 58-62HRC; High rigidity and high durability;
- ◆Precision: ≤5u, High speed12000rpm;
- ◆Live center adopts precision matched angular contact bearing and integrate with roller bearing, ensure high concentric precision;
- ◆Sealing ring at the front end is dust proof and water proof, can avoid coolant influence the bearing,prolong the life of the live center;
- ◆cryogenic treatment
Make the residual austenite into martensite and precipitate of nano-sized carbide particles, enhance chucks hardness, toughness durability, and reduce the residual internal stress.
- ◆Thermal aging treatment
Long time thermal aging treatment can get rid of the residual internal stress in grinding process.

顶尖由高质量合金钢制作，整体热处理，高抗拉强度。

Live center is made of high quality alloy steel, overall heat treatment, high tensile strength .

有4套高精度高速轴承，保证高速工作时精度稳定。

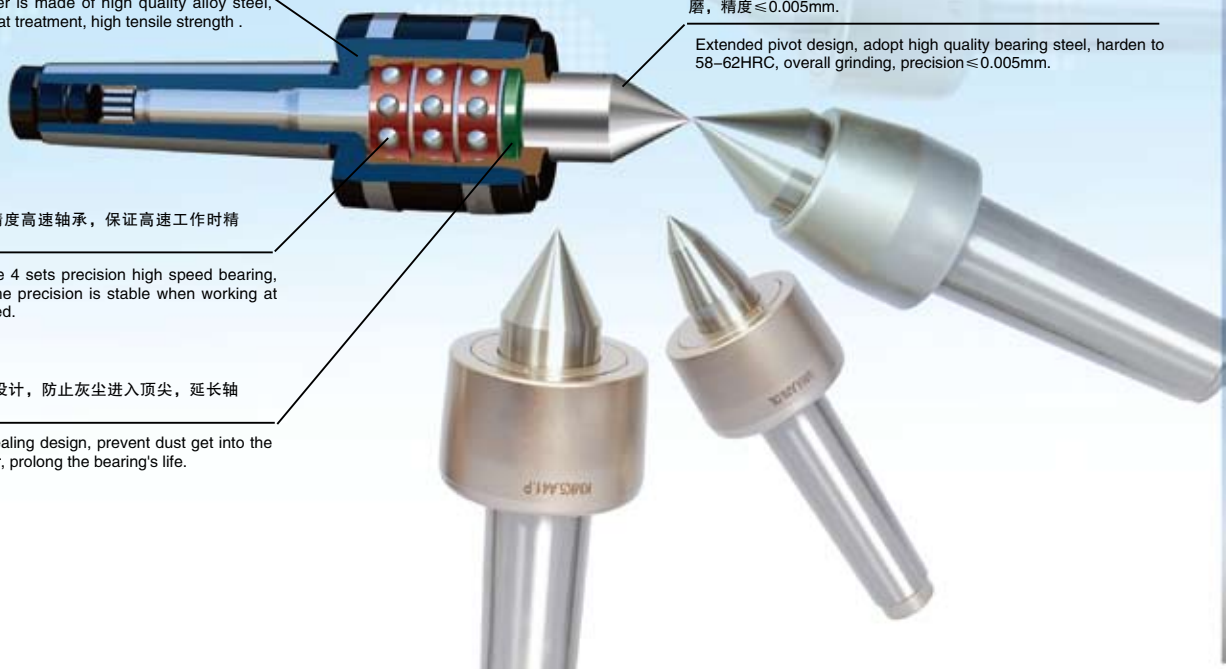
There are 4 sets precision high speed bearing, ensure the precision is stable when working at high speed.

整体封闭设计，防止灰尘进入顶尖，延长轴承寿命。

Overall sealing design, prevent dust get into the live center, prolong the bearing's life.

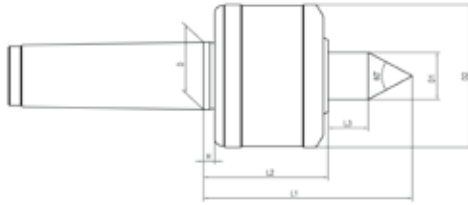
延长轴的设计，采用高质量轴承钢，硬度达到58-62HRC，整体研磨，精度≤0.005mm.

Extended pivot design, adopt high quality bearing steel, harden to 58-62HRC, overall grinding, precision≤0.005mm.



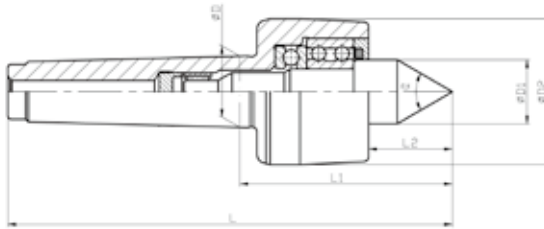
顶尖系列 CNENTER SERIES

CD1501-01 精密高速回转顶尖 (数控机床专用)
PRECISION HIGH SPEED LIVE CENTER (CNC MACHINE TOOLS)



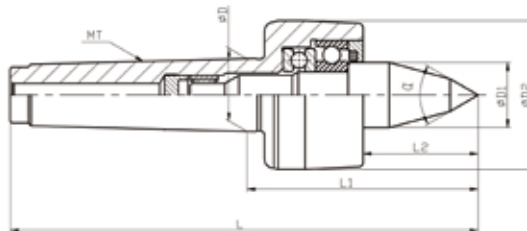
型号 Model No.	技术数据 Technolog parameter										Trecision	SPEED r.min ⁻¹	KGS
	D	D1	D2	H	a	L	L1	L2	L3				
MT2	17.78	20	43	6	60°	150	80	54	14	0.003	8000	0.85	
MT3	23.825	22	53	6.5		175	94	54	16		8000	1.3	
MT4	31.267	28	63	8.5		218	116	65	18		6000	2.1	
MT5	44.399	38	83	8.5		267	132	78	20		5000	4.7	

CD1501-02 精密重型回转顶尖 (数控机床专用)
PRECISION HEAVY LIVE CENTER (CNC MACHINE TOOLS)



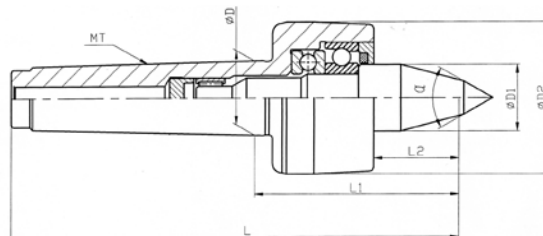
型号 Model	技术数据											精度	转速r.min ⁻¹	KGS
	D	D1	D2	H	J	k	a	L	L1	L2	L3			
DMT3	23.825	28	58	6.5	8	12	60°	172	90	50	14	0.005	4000	1.4
DMT4	31.267	32	68	8.5	8	12		214	112	61	16		3000	2.2
DMT5	44.399	42	88	8.5	10	16		260	132	72	17		2500	5

CD1501-03 精密型回转顶尖 MEDIUM-DUTY LIVE CENTER(EXTENDED)



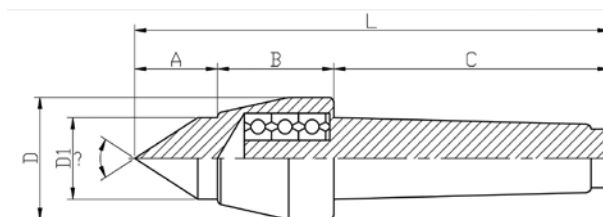
MS.NO	D	D1	D2	L	L1	L2	a	MAX SUGGESTED RPM	WEIHT OF WORKE IECE (KG)	精度 mm	净重 (Kg)
KMK2.A18.P	17.78	18	42	135	72	27	60°	5000	200	0.008	0.75
KMK3.A25.P	23.825	24.8	56	171	91	45	60°	4000	300	0.008	1
KMK4.A28.P	31.267	28	63	201	99	50	60°	3000	600	0.008	1.7
KMK5.A41 .P	44.399	40.7	83	265	135	73	60°	2500	1500	0.008	4
KMK6.A52.P	63.348	52	108	365	183	97	60°	2000	4000	0.008	9.8

》》 CD1501-04 精密加长型回转顶尖 MEDIUM-DUTY LIVE CENTER(EXTENDED)



MS.NO	D	D1	D2	L	L1	L2	a	MAX SUGGESTED RPM	WEIHT OF WORKE IECE (KG)	精度 mm	净重 (Kg)
KMK2.A18.DL	17.78	18	48	142	79	34	60°	5000	200	0.008	0.75
KMK3.A24.8DL	23.825	24.8	56	171	91	45	60°	4000	300	0.008	1
KMK4.A28.DL	31.267	28	63	201	99	50	60°	3000	600	0.008	1.7
KMK5.A40.7.DL	44.399	40.7	83	265	135	73	60°	2500	1500	0.008	4
KMK6.A52.DL	63.348	52	108	365	183	97	60°	2000	4000	0.008	9.8

》》 CD1501-05 外旋回转顶尖 MEDIUM-DUTY LIVE CENTER

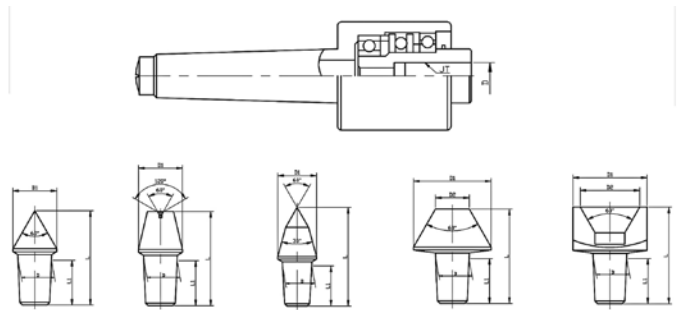


型号 Model No.	A	B	C	D	D1	d	L	Co精度 Accuracy	θ	KGS
WX-MT.3H	39	55	86	53	45	-	180	0.005	60°	1.28
WX-MT.4H	42	62	108	63	53	-	208	0.005	60°	2.2
WX-MT.5H	49	71	136	83	68	-	256	0.005	60°	4.33
WX-MT.3B	39	55	86	53	45	-	180	0.005	60°	1.28
WX-MT.4B	42	62	108	63	53	-	208	0.005	60°	2.2
WX-MT.5B	49	71	136	83	68	-	256	0.005	60°	4.33
WX-MT.3X	45	55	86	53	45	10	186	0.005	60°	1.28
WX-MT.4X	52	62	108	63	53	12	218	0.005	60°	2.2
WX-MT.5X	59	71	136	83	68	14	266	0.005	60°	4.42

- ◎ 此顶尖使用滚珠轴承，平面推力轴承结合。
- ◎ 适用于较大内孔径零件加工使用
- ◎ 心轴采用合金工具钢，经过热处理淬硬（58-62HRC）具高钢性及耐磨性
- ◎ The center is assembled with ball bearing
- ◎ Applicatable to pipes turning
- ◎ The shaft adopt alloy steel and heat treatment（58-62HRC）super steel trait and durable

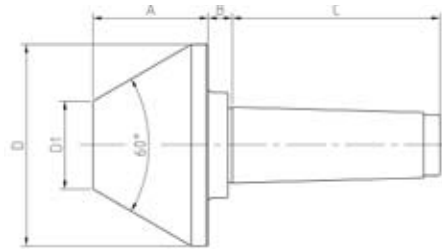
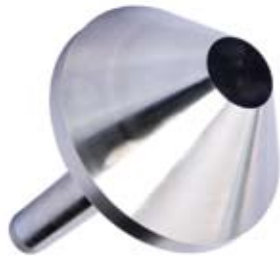
顶尖系列 CNENTER SERIES

CD1502-01 插入式回转顶尖 MULTI-PURPOSE LIVE CENTER



型号 Model No.	莫氏圆锥号 MT.NO.	D	L1	a		b		c		d			e			f		
				D1	L	D1	L	D1	L	D1	D2	L	D1	L	D2	D1	L	D2
D432	2	10	20	16	39	16	35.5	16	46	25	10	40	16	36	10	20	39	16
D433	3	12	24	20	48	20	43.5	18	56	35	15	50	22	42	18	35	48	30
D434	4	15	30	28	61.5	28	55.5	26	73	55	30	61.5	40	55	35	55	60	48
D435	5	20	40	36	80	36	72.5	36	101	70	41	78	60	81	50	70	85	61
D436	6	30	55	55	117	55	113	50	138	90	50	107.5	75	110	60	90	116	75

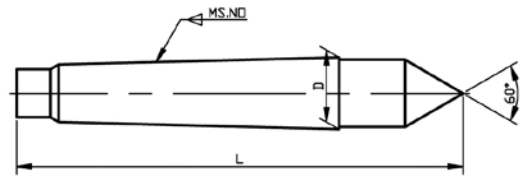
CD1503-01 伞型顶尖 BULL NOSE CENTER



型号 Model No.	A	B	C	D	D1	L	Co精度 Accuracy	θ	KGS
SX63-MT.2	46	17	69	60	12	132	0.005	60°	0.9
SX63-MT.3	46	17	86	60	12	149	0.005	60°	1
SX78-MT.3	52	18	86	80	15	156	0.005	70°	1.3
SX63-MT.4	46	17	108	60	12	171	0.005	60°	1
SX78-MT.4	52	18	108	80	15	178	0.005	70°	1.45
SX106-MT.4	59	16	108	100	25	183	0.008	70°	3
SX128-MT.4	73	12	108	130	40	193	0.008	70°	4.8
SX156-MT.4	88	12	108	150	45	208	0.01	70°	7.6
SX206-MT.4	98	12	108	200	81	218	0.01	70°	17
SX128-MT.5	73	12	136	130	40	221	0.008	70°	5.8
SX156-MT.5	88	12	136	150	45	236	0.01	70°	8.5
SX206-MT.5	98	12	136	200	81	246	0.015	70°	18
SX258-MT.5	107	13	136	250	92	256	0.015	80°	28
SX206-MT.6	98	12	190	200	81	300	0.010	70°	20.6
SX258-MT.6	107	13	190	250	92	310	0.015	80°	30.6

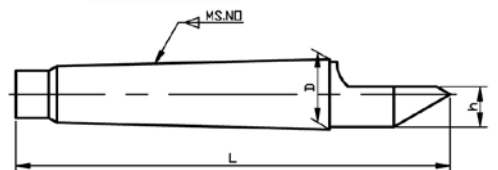
CD1503-02 固定顶尖 DEAD CENTER

型号 Model No.	MS.NO.	D	L	KGS	精度 Accuracy
DG1	MS1	12.065	80	0.057	0.01
DG2	MS2	17.78	100	0.15	
DG3	MS3	23.825	125	0.334	
DG4	MS4	31.267	160	0.746	
DG5	MS5	44.399	200	1.862	
DG6	MS6	63.348	270	4.925	
DG7	MS7	83.061	360	8.62	



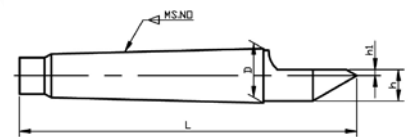
CD1503-03 半缺顶尖 HALF-NOTCHED CENTER

型号 Model No.	MS.NO.	D	h	L	KGS	精度 Accuracy
DH1	MS1	12.065	7.6	80	0.057	0.01
DH2	MS2	17.78	11	100	0.15	
DH3	MS3	23.825	15.05	125	0.334	
DH4	MS4	31.267	20.8	160	0.746	
DH5	MS5	44.399	29.35	200	1.862	
DH6	MS6	63.348	41.9	270	4.925	
DH7	MS7	83.061	53.78	360	8.62	



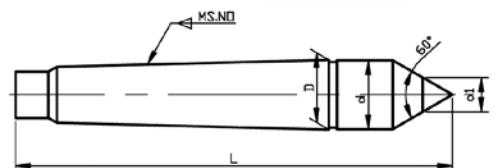
CD1503-04 硬质合金半缺顶尖 CARBIDE HALF-NOTCHED CENTER

型号 Model NO	MS.NO.	h1	h	D	L	KGS	精度 Accuracy
DHE1	MS1	1.5	5.5	12.065	80	0.06	0.01
DHE2	MS2	2	6	17.78	100	0.15	
DHE3	MS3	3	9	23.825	125	0.34	
DHE4	MS4	5	12.5	31.267	160	0.71	
DHE5	MS5	7	16	44.399	200	0.78	
DHE6	MS6	10	22	63.348	270	5	
DHE7	MS7	12	24	83.061	360	8.3	



CD1503-05 硬质合金顶尖 CARBIDE CENTER

型号 Model No.	MS.NO.	D	L	d	d1	KGS	精度 Accuracy
E1	MS1	12.065	80	12.2	8	0.057	0.01
E2	MS2	17.78	100	18	8	0.151	
E3	MS3	23.825	125	24.1	12	0.335	
E4	MS4	31.267	160	31.6	15	0.746	
E5	MS5	44.399	200	44.7	18	1.826	
E6	MS6	63.348	270	63.8	24	5.23	
E7	MS7	83.061	360	83.555	24	9.19	



顶尖系列 CNENTER SERIES

CD1504-01 液压端面拨动顶尖 CONSTANT HYDROSTARTER FACE DRIVER



- ◎ 端面拨动顶尖主要用于仿型车床，数控车床和普通车床上加工轴类零件，在一次装夹情况下，可以方便的车销零件外圆所有各部尺寸，由于使用工件中心定位从而保证了产品质量，端面拨盘由三个浮动液压缸推动，当工件端面与工件轴线不垂直在5° 以内时，均能保证正常工作
- ◎ 端面拨盘顶尖可换顶尖和拨盘一般和拨动顶尖整体配套供应单独订货时请注明规格（D）。也可根据用户需要制作相应规格（D）的可换顶尖和拨盘

- ◎ Constant hydrostarter face driver is mainly used on the forming lathe , CNC lathe and common lathe to process axis type workpiece.Put in only one collect , you can get all the dimensions of the workpiece' s exterior.Using the workpiece' s centre hole to locate, we can guarantee the quality. Driving plate propelled by three floating hydraulic cylinder to stab to the end of workpiece and made the workpiece rotate . When the end face and the axis is not perpendicular within 5 degree, constant face driver can work regularly
- ◎ Constant face driver is used to be provided with driving center' s body together with Changing centre and driver, please mention specification on the individual order. Also we can manufacture changable centre and driver plate

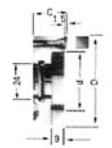
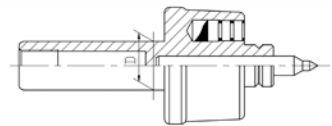
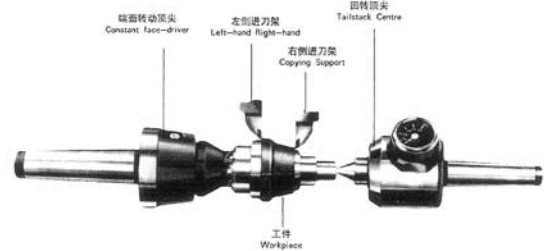
端面拨动顶尖主要参数 Main parameter

型号 Model No.	莫氏锥度 Morse taper	切削范围 Cutt range(mm)	备注 Remarks
D233	MT3	11-80	左旋 (L)
D233R			右旋 (R)
D234	MT4	11-80	左旋 (L)
D234R			右旋 (R)
D235	MT5	11-80	左旋 (L)
D235R			右旋 (R)
D236	MT6	17-160	左旋 (L)
D236R			右旋 (R)

允许工件最大重: 莫氏3号40kg Max weight: MT3 · 40kg
 莫氏4号60kg MT4 · 60kg
 莫氏5号80kg MT5 · 80kg

配套可换端面拨盘 FACE DRIVER






中心顶尖 Centres		Sen of rotation	D Clamping dia	Toming range	d	c
4		R	10	11-20	4.5	38
		L				
6		R	12	13-24	7	36
		L				
10		R	16	17-32	11	33
		L				
12		R	20	21-40	13	30
		L				
16		R	25	26-50	17	30
		L				
16		R	31	33-540	22	30
		L				
16		R	40	41-80	20	24
		L				
16		R	50	51-100	28	24
		L				
16		R	63	64-126	41	24
		L				
16		R	80	81-160	58	24
		L				



带有可换合金钢刀片四面可用
 Changed on all side with a stal blade can be used

CD1504-01 液压端面拨动顶尖 CONSTANT HYDROSTARTER FACE DRIVER

端面拨动顶尖主要参数 Main parameter

顶尖 Centres	直径 Dia	适用端面拨盘规格 For face drive(mm)	适用型号 Associated Model No.
	4	10	D233, D233R (M.T3), D234 D234R, (M.T4) D235, D235R (M.T5) D236 D236R (M.T6)
	6	12	
	10	16	
	12	20	
	16	25	

◇ 使用方法

- ◎根据工件直径选择合适的活动顶尖和拨盘。
- ◎更换活动顶尖时，松开紧定螺钉4，装入适当的活顶尖，使螺钉4的导向部分位于活动顶尖导向槽内，拧紧螺钉，活动顶尖能轴向滑动，但不能转动。
- ◎更换端面拨盘，用力将拨盘推进主体B处，使拨盘端面的键槽和活塞的扁部结合，卸下拨盘时用撬出板撬出。
- ◎调整活塞1，可以调整活动顶尖长度。活动顶尖尖部与拨盘齿尖相距3-7mm为宜。
- ◎工作中心孔一端装在活动顶尖上，另一端用机床尾架顶尖支撑，尾架顶尖应顶紧尾架，顶紧力可以按以下式计算（见图二）

$$P=2.5tsobi$$

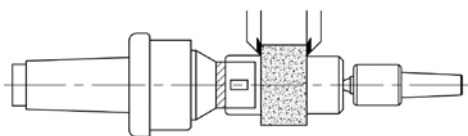
p 尾架顶紧力 (KG)

t 切削深度 (mm)

s 走刀量(mm/转)

ob 工件材料抗拉强度 (kg/mm²)

i 夹持比(d/D)



◇ 维护

- ◎应经常加入20#机油，润滑活动顶尖。
- ◎液压油不足时，可松开2处密封螺钉，加入适量双曲线齿轮油，使活塞端面与主体端面等高，拧紧密封螺钉。当密封组合垫圈损坏时，应更换。上述密封在出厂时已调好，一般不要拆卸。
- ◎推荐下列切削规范
最大切削深度t=5mm
最大走刀量s=0.4mm/转

◇ 易损件

- ◎O型密封圈 φ 16 × 2.4
- ◎组合垫圈:B型6

◇ Mounting instructions:

- ◎Choose proper center and driving plate according to the workpiece's diameter.
- ◎When changing the center ,loosen the bolt , then put in proper center , make sureThe guide part of the bolt lies in the leading groove , fix up the bolt , the center can move along the axis ,but cannot rotate.
- ◎Changing the driver plate , pull the driver plate into the body part(B) , make sure the driver plate's groove integrate into the thin part of the piston , lever the driver plate out.
- ◎You use the piston 1 to adjust the length of the center . The most fitable space between the center and the gear of the driver plate is 3-7mm .
- ◎Fix one side of the center hole on the active center , and the other side be strutted by the apex of the lathe , the power of the strut can be calculated as follows:p=2.5tsobi
P—the power of the strut
t—depth of the cutting (mm)
s —rotating speed revolution (mm/round)
ob—pulling intensity of the material
i—d/D (d , D can be found in picture 2)

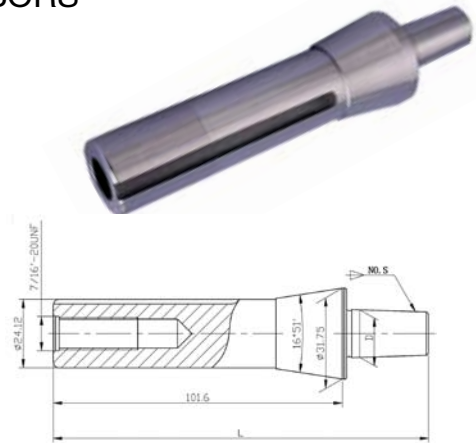
◇ Maintenance:

- ◎hold over enough 20# engine oil , lubricate active center tighten
- ◎when hydraulic pressure is short , you can loose the 2 screw-cap of seal , then add appropriate hyperbolic gear oil , make the appearance of piston at the same high end with main body , tighten sealing body bolts . when the washer of seal comition has been damaged , should be replacing instantly ,the above seal has mixed up already before at the factory . Don' t take down normally.
- ◎recommend cutting range as below : Maxium cutting range : t=5mm.
Maxium cutting speed : s=04.mm/turn
- ◇ Easily damaged parts
- ◎O type seal loop : φ 16 × 2.4
- ◎combination washer: type B6

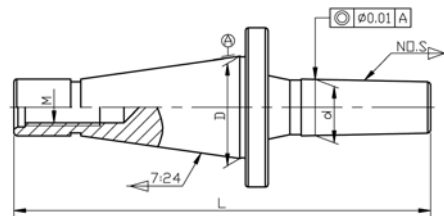
钻接杆系列 DRILL CHUCK ARBORS

CD1601-01 R8 钻接杆 R8 DRILL CHUCK ARBORS

型号 Model No.	D	L	KGS	型号 Model NO.	D	L	KGS
R8-JT0	6.35	117	0.393	R8-JT5	35.89	154	0.742
R8-JT1	9.754	122	0.409	R8-B6	6.35	118.5	0.25
R8-JT2S	13.94	125	0.4	R8-B10	10.094	124	0.388
R8-JT2	14.199	128	0.414	R8-B12	12.065	128	0.408
R8-JT33	15.85	132	0.418	R8-B16	15.733	135	0.44
R8-JT6	17.17	132	0.426	R8-B18	17.78	143	0.454
R8-JT3	20.599	137	0.465	R8-B22	21.793	152	0.514
R8-JT4	28.55	148	0.6	R8-B24	23.825	162	0.567



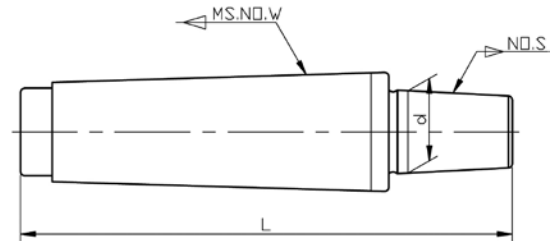
CD1602-01 7:24 钻接杆 7:24 DRILL CHUCK ARBORS



型号 Model No.	D	d	L	M	KGS	型号 Model NO.	D	d	L	M	KGS
NT30-J0	31.75	6.35	99	M12	0.313	NT50-J6	69.85	17.17	184	M24	2.739
NT30-J1	31.75	9.754	106	M12	0.326	NT50-J3	69.85	20.599	191	M24	2.777
NT30-J2S	31.75	13.94	109	M12	0.341	NT50-J4	69.85	28.55	202	M24	2.953
NT30-J2	31.75	14.199	113	M12	0.349	NT50-J5	69.85	35.89	208	M24	3.178
NT30-J33	31.75	15.85	122	M12	0.377	NT30-B10	31.75	10.094	104	M12	0.325
NT30-J6	31.75	17.17	122	M12	0.388	NT30-B12	31.75	12.065	108	M12	0.33
NT30-J3	31.75	20.599	123	M12	0.426	NT30-B16	31.75	15.733	116	M12	0.372
NT30-J4	31.75	28.55	136	M12	0.602	NT30-B18	31.75	17.78	124	M12	0.393
NT30-J5	31.75	35.89	145	M12	0.827	NT30-B22	31.75	21.793	133	M12	0.46
NT40-J0	44.45	6.35	126	M16	0.789	NT30-B24	44.45	23.825	143	M12	0.518
NT40-J1	44.45	9.754	133	M16	0.797	NT40-B10	44.45	10.094	132	M16	0.801
NT40-J2S	44.45	13.94	136	M16	0.817	NT40-B12	44.45	12.065	136	M16	0.809
NT40-J2	44.45	14.199	141	M16	0.829	NT40-B16	44.45	15.733	143	M16	0.848
NT40-J33	44.45	15.85	145	M16	0.853	NT40-B18	44.45	17.78	151	M16	0.869
NT40-J6	44.45	17.17	145	M16	0.864	NT40-B22	44.45	21.793	160	M16	0.936
NT40-J3	44.45	20.599	150	M16	0.902	NT40-B24	44.45	23.825	169	M16	0.994
NT40-J4	44.45	28.55	165	M16	1.028	NT50-B10	69.85	10.094	170	M24	2.684
NT40-J5	44.45	35.89	170	M16	1.303	NT50-B12	69.85	12.065	174	M24	2.676
NT50-J1	69.85	9.754	175	M24	2.672	NT50-B16	69.85	15.733	182	M24	2.723
NT50-J2S	69.85	13.94	177	M24	2.692	NT50-B18	69.85	17.78	195	M24	2.744
NT50-J2	69.85	14.199	180	M24	2.704	NT50-B22	69.85	21.793	200	M24	2.811
NT50-J33	69.85	15.85	184	M24	2.728	NT50-B24	69.85	23.825	215	M24	2.869

钻接杆系列 DRILL CHUCK ARBORS

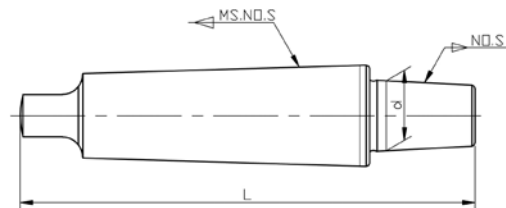
CD1603-01 后拉型莫氏钻接杆
MORSE TAPER DRILL CHUCK ARBORS WITH DRAW BAR



型号 Model No.	dmm	Lmm	Model NO.	dmm	Lmm	型号 Model NO.	dmm	Lmm
MTB.0-JT0	6.35	67	MTB.2-JT6	17.170	97	MTB.4-JT33	15.85	137
MTB.0-JT1	9.754	72	MTB.2-JT33	15.850	97	MTB.4-B10	10.094	130
MTB.0-JT2	14.199	78	MTB.2-B10	10.094	90	MTB.4-B12	12.065	134
MTB.0-JT3	20.599	87	MTB.2-B12	12.065	94	MTB.4-B16	15.733	141
MTB.0-JT6	17.17	81	MTB.2-B16	15.733	101	MTB.4-B18	17.78	149
MTB.0-JT33	15.85	81	MTB.2-B18	17.780	109	MTB.4-B22	21.793	158
MTB.0-B10	10.094	74	MTB.2-B22	21.793	117	MTB.4-B24	23.825	168
MTB.0-B12	12.065	78	MTB.2-B24	23.825	127	MTB.5-JT2	14.199	161
MTB.0-B16	15.733	85	MTB.3-JT1	9.754	105	MTB.5-JT3	20.599	170
MTB.0-B18	17.78	93	MTB.3-JT2	14.199	111	MTB.5-JT4	28.55	181
MTB.1-JT0	6.35	71	MTB.3-JT3	20.599	120	MTB.5-JT5	35.89	186
MTB.1-JT1	9.754	76	MTB.3-JT4	28.550	131	MTB.5-JT6	17.17	164
MTB.1-JT2	14.199	82	MTB.3-JT5	35.890	136	MTB.5-JT33	15.85	164
MTB.1-JT3	20.599	91	MTB.3-JT6	17.170	114	MTB.5-B16	15.733	168
MTB.1-JT6	17.17	85	MTB.3-JT33	15.850	114	MTB.5-B18	17.78	176
MTB.1-JT33	15.85	85	MTB.3-B10	10.094	107	MTB.5-B22	21.793	185
MTB.1-B10	10.094	78	MTB.3-B12	12.065	111	MTB.5-B24	23.825	195
MTB.1-B12	12.65	82	MTB.3-B16	15.733	118	MTB.6-JT3	20.599	224
MTB.1-B16	15.733	89	MTB.3-B18	17.780	126	MTB.6-JT4	28.55	235
MTB.1-B18	17.78	97	MTB.3-B22	21.793	135	MTB.6-JT5	35.89	240
MTB.2-JT0	6.35	83	MTB.3-B24	23.825	145	MTB.6-JT6	17.17	218
MTB.2-JT1	9.754	88	MTB.4-JT2	14.199	134	MTB.6-JT33	15.85	218
MTB.2-JT2	14.199	94	MTB.4-JT3	20.599	143	MTB.6-B16	15.733	222
MTB.2-JT3	20.599	103	MTB.4-JT4	28.550	154	MTB.6-B18	17.78	230
MTB.2-JT4	28.55	114	MTB.4-JT5	35.890	159	MTB.6-B22	21.793	238
MTB.2-JT5	35.89	119	MTB.4-JT6	17.170	137	MTB.6-B24	23.825	248

钻接杆系列 DRILL CHUCK ARBORS

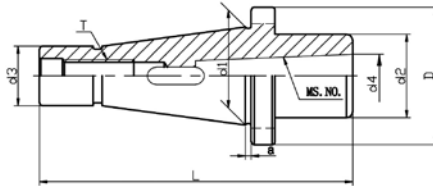
》》 CD1604-01 舌尾型莫氏钻接杆 MORSE TAPER DRILL CHUCK ARBORS WITH TANG



型号 Model No.	dmm	Lmm	型号Model NO.	dmm	Lmm	型号Model NO.	dmm	Lmm
MTA.0-B6	6.35	75	MTA.2-B22	21.793	128	MTA.4-B18	17.78	164
MTA.0-B10	10.094	80	MTA.2-B24	23.825	138	MTA.4-B22	21.793	172
MTA.0-B12	12.065	84	MTA.2-B18S	17.431	113	MTA.4-B24	23.825	182
MTA.0-B16	15.733	91	MTA.2-JT0	6.35	94	MTA.4-JT0	6.35	138
MTA.0-B18	17.78	99	MTA.2-JT1	9.754	100	MTA.4-JT1	9.754	143
MTA.0-B22	21.793	108	MTA.2-JT2	14.199	105	MTA.4-JT2	14.199	149
MTA.0-B24	23.825	118	MTA.2-JT3	20.599	114	MTA.4-JT3	20.599	158
MTA.0-JT0	6.35	73	MTA.2-JT4	28.55	125	MTA.4-JT4	28.55	169
MTA.0-JT3	20.599	93	MTA.2-JT5	35.89	130	MTA.4-JT5	35.89	174
MTA.0-JT33	15.85	88	MTA.2-JT6	17.17	108	MTA.4-JT6	17.17	152
MTA.1-B10	10.094	86	MTA.2-JT33	15.85	108	MTA.4-JT33	15.85	152
MTA.1-B12	12.065	90	MTA.3-B10	10.094	120	MTA.5-B10	10.094	177
MTA.1-B16	15.733	97	MTA.3-B12	12.065	124	MTA.5-B12	12.065	181
MTA.1-B18	17.78	105	MTA.3-B16	15.733	131	MTA.5-B16	15.733	188
MTA.1-B22	21.793	114	MTA.3-B18	17.78	139	MTA.5-B18	17.78	196
MTA.1-B24	23.825	124	MTA.3-B22	21.793	147	MTA.5-B22	21.793	204
MTA.1-JT0	6.35	79	MTA.3-B24	23.825	157	MTA.5-B24	23.825	214
MTA.1-JT1	9.754	85	MTA.3-JT0	6.35	113	MTA.5-JT0	6.35	170
MTA.1-JT2	14.199	90	MTA.3-JT1	9.754	118	MTA.5-JT1	9.754	175
MTA.1-JT3	20.599	99	MTA.3-JT2	14.199	124	MTA.5-JT2	14.199	181
MTA.1-JT4	28.55	110	MTA.3-JT3	20.599	133	MTA.5-JT3	20.599	190
MTA.1-JT5	35.89	116	MTA.3-JT4	28.55	144	MTA.5-JT4	28.55	201
MTA.1-JT6	17.17	94	MTA.3-JT5	35.89	149	MTA.5-JT5	35.89	206
MTA.1-JT33	15.85	94	MTA.3-JT6	17.17	127	MTA.5-JT6	17.17	184
MTA.2-B10	10.094	101	MTA.3-JT33	15.85	127	MTA.5-JT33	15.85	184
MTA.2-B12	12.065	105	MTA.4-B10	10.094	145	MTA.6-B16	15.733	250
MTA.2-B16	15.733	112	MTA.4-B12	12.065	149	MTA.6-JT3	20.599	252
MTA.2-B18	17.78	120	MTA.4-B16	15.733	156	MTA.6-JT6	17.17	246

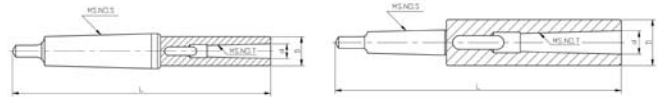
变径套系列 SLEEVE SERIES

CD1701-01 7:24变径套(扁尾式) 7:24 MS ADAPTER(WITH TANG)



型号 Model No.	l1	D	d1	d2	d3	d4	L	a	T	KGS
NT30-MTA2	55.5	49	31.75	32	17.15	17.780	123.9	1.6	1/2" -13UNC /M12X1.75P	0.50
NT30-MTA3	74			40		23.825	142.4			0.55
NT40-MTA2	25	63	44.45	32	25.07	17.180	118.4		5/8" -11UNC /M16X2.0P	0.80
NT40-MTA3	47			40		23.825	140.4			0.85
NT40-MTA4	82			48		31.267	175.4			1.25
NT40-MTA5	170			63		44.399	263.4			1.45
NT50-MTA2	20	97.5	69.85	32	39.37	17.780	146.8	1" -8UNC /M24X3.0P	2.80	
NT50-MTA3	30			40		23.825	156.8		2.90	
NT50-MTA4	60			48		31.267	186.8		3.00	
NT50-MTA5	86.2			63		44.399	209.8		3.10	

CD1702-01 DIN 2187 加长变径套 EXTENSION SOCKET WITH MS.HOLE

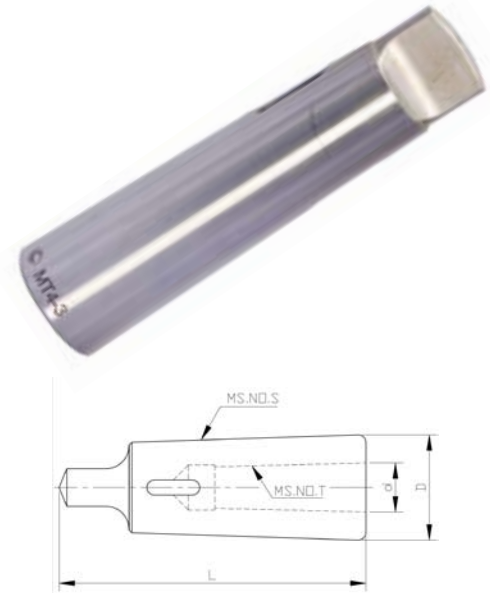


型号 Model No.	MS.NO.S	MS.NO.T	Dmm	dmm	Lmm	KGS	精度(mm)Accuracy
MT1-1	1	1	20	12.065	145	0.19	0.03
MT1-2	1	2	30	17.78	160	0.4	0.03
MT1-3	1	3	36	23.825	181	0.4	0.03
MT2-1	2	1	20	12.065	160	0.29	0.03
MT2-2	2	2	30	17.78	175	0.5	0.03
MT2-3	2	3	36	23.065	196	0.6	0.03
MT2-4	2	4	48	31.267	221	1.43	0.03
MT3-1	3	1	20	12.065	175	0.41	0.03
MT3-2	3	2	30	17.78	194	0.62	0.03
MT3-3	3	3	36	23.825	215	0.89	0.03
MT3-3A	3	3	40	23.825	215	1.1	0.03
MT3-4	3	4	48	31.267	240	1.55	0.03
MT3-5	3	5	63	44.399	275	2.8	0.03
MT4-1	4	1	20	12.065	200	0.81	0.03
MT4-2	4	2	30	17.787	215	1	0.03
MT4-3	4	3	36	23.825	240	1.27	0.03
MT4-4	4	4	48	31.267	265	1.93	0.03
MT4-5	4	5	63	44.399	300	3.18	0.03
MT4-6	4	6	85	63.348	368	6.5	0.05
MT5-1	5	1	20	12.065	232	1.76	0.04
MT5-2	5	2	30	17.78	247	2	0.04
MT5-3	5	3	36	23.825	268	2.27	0.04
MT5-4	5	4	48	31.267	300	2.93	0.04
MT5-5	5	5	63	44.399	335	4.18	0.04
MT5-6	5	6	85	63.348	403	6.7	0.05
MT6-1	6	1	20	12.065	294	4.4	0.04
MT6-2	6	2	30	17.78	309	4.25	0.04
MT6-3	6	3	36	23.825	330	4.52	0.04
MT6-4	6	4	48	31.267	355	5.18	0.04
MT6-5	6	5	63	44.399	390	6.43	0.04

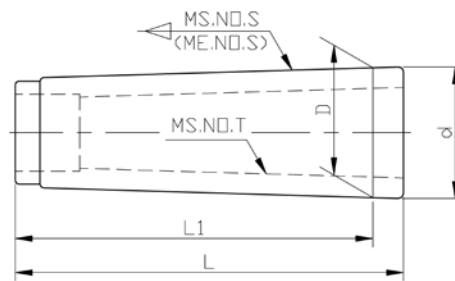
变径套系列 SLEEVE SERIES

CD1703-01 DIN 2185 莫氏变径套 MORSE TAPER SLEEVE

型号 Model No.	MS.NO.S	MS.NO.T	D	d	L	KGS	精度 Accuracy
MT1-0	1	0	13	9.045	80	0.1	0.015
MT2-1	2	1	18.6	12.065	92	0.1	0.015
MT3-1	3	1	24.1	12.065	99	0.24	0.015
MT3-2	3	2	24.7	17.78	112	0.12	0.015
MT4-1	4	1	31.6	12.065	124	0.6	0.015
MT4-2	4	2	31.6	17.78	124	0.5	0.015
MT4-3	4	3	32.4	23.825	140	0.38	0.015
MT5-1	5	1	44.7	12.065	156	1.59	0.02
MT5-2	5	2	44.7	17.78	156	1.49	0.02
MT5-3	5	3	44.7	23.825	156	1.36	0.02
MT5-4	5	4	45.5	31.267	171	0.95	0.02
MT6-1	6	1	63.8	12.065	218	3.48	0.02
MT6-2	6	2	63.8	17.78	218	3.73	0.02
MT6-3	6	3	63.8	23.825	218	3.85	0.02
MT6-4	6	4	63.8	31.267	218	3.12	0.02
MT6-5	6	5	63.8	44.399	218	1.95	0.02



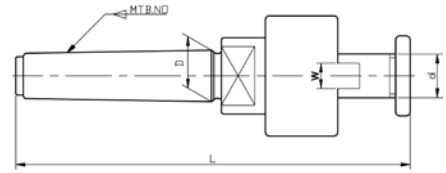
CD1704-01 顶尖套 SOLID SOCKET



型号 Model No.	MS.NO.S	MS.NO.T	L	L1	D	d
MT2-1	MT2	1	60	56	17.780	12.065
MT3-1	MT3	1	70	66	23.825	12.065
MT3-2	MT3	2	70	66	23.825	17.780
MT4-2	MT4	2	70	63.5	31.267	17.780
MT4-3	MT4	3	70	63.5	31.267	23.825
MT5-2	MT5	2	77	70.5	44.399	17.780
MT5-3	MT5	3	77	70.5	44.399	23.825
MT5-4	MT5	4	77	70.5	44.399	31.267
MT6-3	MT6	3	110	103.5	63.348	23.825
MT6-4	MT6	4	110	103.5	63.348	31.267
MT6-5	MT6	5	110	103.5	63.348	44.399

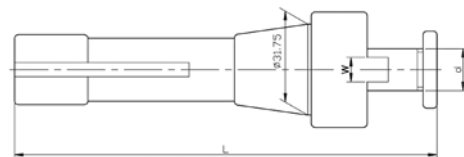
铣刀杆系列 MILLING MACHINE ARBOR SERIES

CD1801-01 MT莫氏锥柄铣刀柄 MORSE TAPER SHELL END MILL ARBORS



型号 Model No.	D	d	W	KGS	d	W	KGS
MTA(B)2-d	17.780	FMA1/2	6.35	0.235	FMB13	8	0.269
MTA(B)2-d	17.780	FMA5/8	7.14	0.307	FMB16	8	0.314
MTA(B)2-d	17.780	FMA3/4	7.94	0.369	FMB22	10	0.417
MTA(B)2-d	17.780	FMA7/8	8.7	0.590	FMB27	12	0.537
MTA(B)3-d	23.825	FMA1/2	6.35	0.480	FMB13	8	0.484
MTA(B)3-d	23.825	FMA5/8	7.14	0.530	FMB16	8	0.530
MTA(B)3-d	23.825	FMA3/4	7.94	0.650	FMB22	10	0.637
MTA(B)3-d	23.825	FMA7/8	8.7	0.730	FMB27	12	0.770
MTA(B)3-d	23.825	FMA1"	9.35	0.850	FMB32	14	0.969
MTA(B)3-d	23.825	FMA1-1/4	12.7	1.148	FMB40	16	1.507
MTA(B)4-d	31.267	FMA1/2	6.35	0.859	FMB13	8	0.879
MTA(B)4-d	31.267	FMA5/8	7.14	0.923	FMB16	8	0.931
MTA(B)4-d	31.267	FMA3/4	7.94	1.008	FMB22	10	1.050
MTA(B)4-d	31.267	FMA7/8	8.7	1.105	FMB27	12	0.198
MTA(B)4-d	31.267	FMA1"	9.35	1.360	FMB32	14	1.420
MTA(B)4-d	31.267	FMA1-1/4	12.7	1.526	FMB40	16	2.224
MTA(B)4-d	31.267	FMA1-1/2	15.88	1.859	FMB50	18	2.482
MTA(B)5-d	44.399	FMA1/2	6.35	1.931	FMB16	8	2.064
MTA(B)5-d	44.399	FMA5/8	7.14	1.994	FMB22	10	2.219
MTA(B)5-d	44.399	FMA3/4	7.94	2.079	FMB27	12	2.410
MTA(B)5-d	44.399	FMA7/8	8.7	2.760	FMB32	14	2.697
MTA(B)5-d	44.399	FMA1"	9.35	2.278	FMB40	16	3.145
MTA(B)5-d	44.399	FMA1-1/4	12.7	2.550	FMB50	18	4.035
MTA(B)5-d	44.399	FMA1-1/2	15.88	2.428	FMB60	20	5.154
MTA(B)5-d	44.399	FMA2"	19.05	2.725	-	-	-

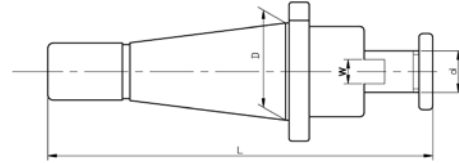
CD1801-02 R8柄套式(平面)铣刀柄 R8 SHELL END MILL ARBO



型号 Model No.	d	W	L	KGS
R8-FMB16	16	8	148	0.35
R8-FMB22	22	10	155	0.7
R8-FMB27	27	12	160	0.88
R8-FMB32	32	14	166	1.16
R8-FMB40	40	16	170	1.466
R8-FMA1/2"	1/2"	6.35	150	0.47
R8-FMA3/4"	3/4"	7.94	154	0.62
R8-FMA7/8"	7/8"	8.7	155	0.72
R8-FMA1"	1"	9.53	155	0.85
R8-FMA1-1/4"	1-1/4"	12.7	156	1.15
R8-FMA1-1/2"	1-1/2"	15.88	163	1.36

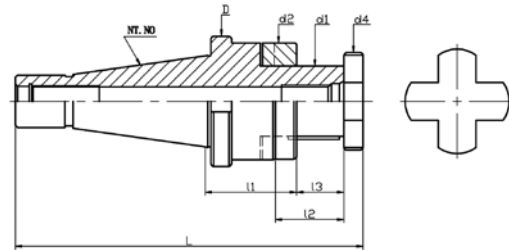
铣刀杆系列 MILLING MACHINE ARBOR SERIES

CD1801-03 NT端面铣刀柄 NT FACE MILL HOLDER-METRIC



型号 Model No.	D	d	W	L	KGS	d	W	L	KGS
NT30-d	31.75	FMB13	8	121	0.315	FMA1/2	6.35	139.5	0.549
		FMB16	8	126	0.369	FMA 5/8	7.14	140.5	0.639
		FMB22	10	129	0.47	FMA 3/4	7.94	144	0.753
		FMB27	12	134	0.6	FMA 7/8	8.7	145	0.879
		FMB32	14	141	1.04	FMA1"	9.53	145	1.021
NT40-d	44.45	FMB16	8	153	0.711	FMA1/2	6.35	164.5	0.922
		FMB22	10	156	0.82	FMA5/8	7.14	165.5	1.012
		FMB27	12	159	0.95	FMA3/4	7.94	169	1.126
		FMB32	14	178	1.45	FMA7/8	8.7	170	1.252
		FMB40	16	182	1.91	FMA1"	9.53	170	1.415
		FMB50	18	187	2.8	FMA1-1/4	12.7	171	1.712
		FMB60	20	209	4.23	FMA1-1/2	15.88	178	2.206
NT50-d	69.85	FMB16	8	205	2.88	FMA1/2	6.35	198	2.705
		FMB22	10	208	3.04	FMA5/8	7.14	199	2.799
		FMB27	12	211	3.22	FMA3/4	7.94	202	2.913
		FMB32	14	215	3.49	FMA7/8	8.7	203	3.039
		FMB40	16	219	3.91	FMA1"	9.53	203	3.202
		FMB50	18	224	4.75	FMA1-1/4	12.7	204	4
		FMB60	20	246	6.15	FMA1-1/2	15.88	211.5	4.018
		-	-	-	-	FMA2"	19.05	238.5	5.693

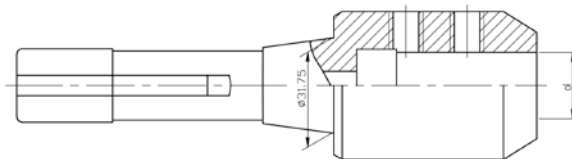
CD1801-04 NT混合插入式铣刀柄 NT COMBI SHELL END MILL ARBOR



型号 Model No. d1-l1	L	l2	l3	d2	D	DRAW BAR	KGS
NT30-CSR16-25	126	27	17	32	49	1/2" -13UNC /M12X1.75P	1.4
NT30-CSR22-25	129	31	19	40			1.6
NT30-CSR27-25	132	33	21	48			1.8
NT40-CSR16-40	168	27	17	32	63	5/8" -11UNC /M16X2.0P	2.2
NT40-CSR22-40	171	31	19	40			2.4
NT40-CSR27-40	174	33	21	48			2.6
NT40-CSR32-40	178	38	24	58			2.8
NT40-CSR40-40	182	41	27	70			3.0
NT50-CSR16-40	205	27	17	32			97.5
NT50-CSR22-40	208	31	19	40	4.6		
NT50-CSR27-40	211	33	21	48	4.8		
NT50-CSR32-40	215	38	24	58	5.0		
NT50-CSR40-40	219	41	27	70	5.2		
NT50-CSR50-40	224	46	30	90	5.4		

铣刀杆系列 MILLING MACHINE ARBOR SERIES

CD1802-01 R8柄立铣刀柄 R8 END MILL ADAPTERS



型号 Model No.		d		
		mm	单夹头 in(SINGLE)	双夹头(DOUBLE) in
R8-SLNd			3/16"-5/8"	
R8-SLNdL		4-40	-	3/8"-2-1/2"
d	mm	4,5,6,7,8,10,12,14,16,18,20,25,27,32,40		
	in	3/16,1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,7/8,1",1-1/8,1-1/4,1-1/2,2",2-1/2		

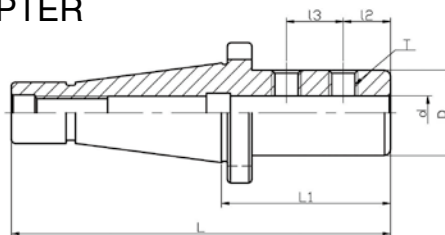
◎订购夹双头铣刀杆,则型号为R8-SLNdL, 如: R8-SLN1/2L

◎我们也可根据您的需要特殊订做

◎If order double:R8-SLNdL as R8-SLN1/2L

◎We also can match specially for your requirements

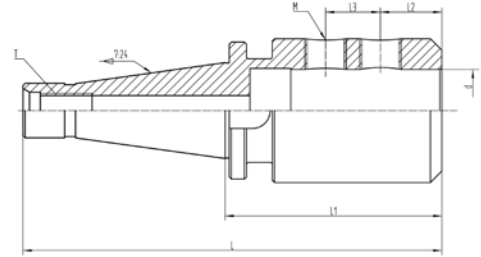
CD1802-02 NT侧固式铣刀杆 NT END MILL ADAPTER



型号 Model No.-d	D	I1	L	I2	I3	T	KGS
NT30-SLN6-40	25	40	108.4	18	-	M6X1.0P	0.50
NT30-SLN8-40	28	40	108.4	18	-	M8X1.25P	0.60
NT30-SLN10-40	35	40	108.4	20	-	M10X1.5P	0.60
NT30-SLN12-40	42	50	108.4	22.5	-	M12X1.75P	0.65
NT30-SLN16-50	48	50	118.4	24	-	M14X2.0P	0.75
NT30-SLN20-63	52	63	131.4	25	-	M16X2.0P	1.10
NT30-SLN25-80	65	80	148.4	24	25	M18X2.0P	1.20
NT40-SLN6-50	25	50	143.4	18	-	M6X1.0P	0.90
NT40-SLN8-50	28	50	143.4	18	-	M8X1.25P	0.95
NT40-SLN10-50	35	50	143.4	20	-	M10X1.5P	1.10
NT40-SLN12-50	42	50	143.4	22.5	-	M12X1.75P	1.00
NT40-SLN16-63	48	63	143.4	24	-	M14X2.0P	1.40
NT40-SLN20-63	52	63	143.4	25	-	M16X2.0P	1.45
NT40-SLN25-80	65	80	173.4	24	25	M18X2.0P	2.10
NT40-SLN32-80	72	80	173.4	24	28	M20X2.0P	2.50
NT50-SLN6-63	25	63	189.8	18	-	M6X1.0P	2.90
NT50-SLN8-63	28	63	189.8	18	-	M8X1.25P	3.00
NT50-SLN10-63	35	63	189.8	20	-	M10X1.5P	3.20
NT50-SLN12-63	42	63	189.8	22.5	-	M12X1.75P	3.30
NT50-SLN16-63	48	63	189.8	24	-	M14X2.0P	3.50
NT50-SLN20-63	52	63	189.8	25	-	M16X2.0P	3.60
NT50-SLN25-80	65	80	206.8	24	25	M18X2.0P	4.20
NT50-SLN32-80	72	80	206.8	24	28	M20X2.0P	4.40
NT50-SLN40-100	90	100	226.8	30	32	M20X2.0P	4.40
NT50-SLN42-100	90	100	226.8	30	32	M20X2.0P	4.20
NT50-SLN40-120	90	120	246.8	30	32	M20X2.0P	4.60
NT50-SLN50-120	100	120	246.8	35	35	M24X2.0P	4.80
NT50-SLN63-120	125	120	246.8	40	40	M24X2.0P	5.40

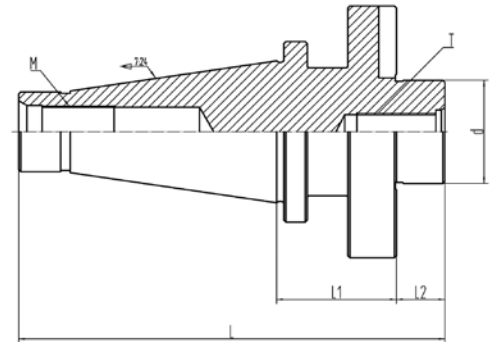
铣刀杆系列 MILLING MACHINE ARBOR SERIES

CD1802-03 NMTB30/40-SLN 侧固式刀柄 END MILL ADAPTER



型号 Model No.	L	L1	L2	L3	M	T
NMTB40-SLN3/16"	152.4	58.67	11.18	-	1/4-28UNF	5/8-11UNC
NMTB40-SLN1/4"			19.05		3/8-24UNF	
NMTB40-SLN3/8"			22.35		7/16-20UNF	
NMTB40-SLN1/2"			23.88		1/2-20UNF	
NMTB40-SLN5/8"			25.4		5/8-18UNF	
NMTB40-SLN3/4"			16.5		71.37	
NMTB40-SLN7/8"	188.98	95.25	28.45	25.4	3/4-16UNF	
NMTB40-SLN1-1/4"	194.06	100.33	28.45	25.4	3/4-16UNF	
NMTB40-SLN1-1/2"	194.06	100.33	28.45	25.4	3/4-16UNF	
NMTB30-SLN3/16"	112.78	44.45	11.18	24	1/4-28UNF	1/2-13UNC
MT30-SLN1/4"			19.05		3/8-24UNF	
NMTB30-SLN3/8"			22.35		7/16-20UNF	
NMTB30-SLN1/2"			23.88		1/2-20UNF	
NMTB30-SLN5/8"			25.4		5/8-18UNF	
NMTB30-SLN3/4"			138.33		70	
NMTB30-SLN7/8"	138.33	70	25.4	40	5/8-18UNF	
NMTB30-SLN1"	163.58	95.25	28.45	55	3/4-16UNF	
NMTB30-SLN1-1/4"	163.58	95.25	28.45	55	3/4-16UNF	

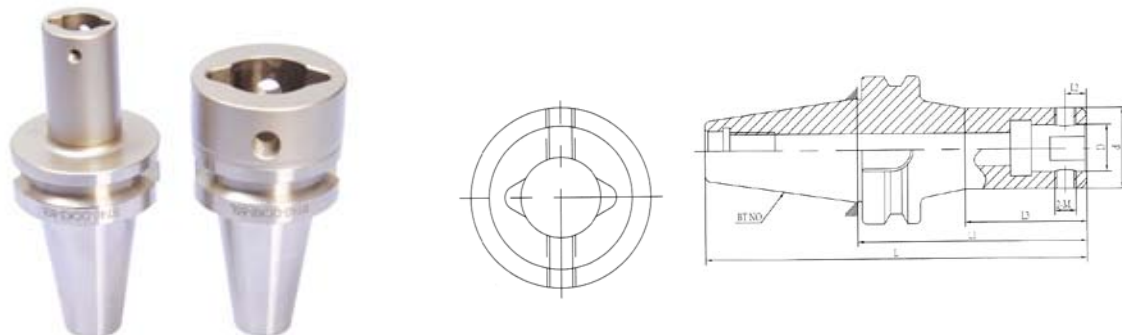
CD1802-04 NMTB30/40/50-FMA 面铣刀柄 CHUCK WITH BORING HEAD



型号 Model No.	L	L1	L2	d	T	M
NT30-FMA1/2"	114.38	31.75	14.3	1/2	1/4-28	1/2-13UNC
NT30-FMA3/4"	118.87	33.27	17.27	3/4	3/8-24	
NT30-FMA1"				1"	1/2-20	
NT30-FMA1-1/4"	122.18	36.58	17.27	1-1/4	5/8-18	5/8-11UNC
NT40-FMA1/2"	130.26	22.225	14.3	1/2	1/4-28	
NT40-FMA3/4"	133.35	22.35	17.27	3/4	3/8-24	
NT40-FMA1"	144.27	33.274	17.27	1"	1/2-20	
NT40-FMA1-1/4"	149.1	38.1	23.88	1-1/4	5/8-18	
NT40-FMA1-1/2"	158.76	41.15	23.88	1-1/2	3/4-16	
NT40-FMA2"	168.41	50.8	23.88	2"	1-14	1"-8NUF
NT50-FMA1/2"	179.4	38.1	14.3	1/2	1/4-28	
NT50-FMA3/4"	182.37	38.1	17.27	3/4	3/8-24	
NT50-FMA1"	195.07	50.8	17.27	1"	1/2-20	
NT50-FMA1-1/4"	182.37	38.1	23.88	1-1/4	5/8-18	
NT50-FMA1-1/2"	211.84	60.96	23.88	1-1/2	3/4-16	
NT50-FMA2"	211.84	60.96	23.88	2"	1"-14	

镗头系列 BORING HEAD SERIES

CD1901-01 DCK 镗头刀杆基础刀柄 CHUCK WITH BORING HEAD

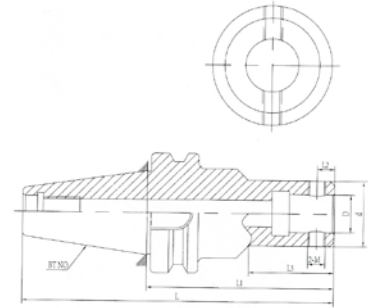


型号 Model No.	D	d	L	L1	L2	L3	M		
BT30-DCK1-55	11	19	103.4	55	5.05	-	M5 × 0.5		
BT30-DCK1-70			118.4	70					
BT30-DCK2-80	14	24	128.4	80	6.62				
BT30-DCK3-80	18	31	128.4	80	8				
BT30-DCK4-70	22	39	118.4	70	10				
BT30-DCK5-70	28	50	118.4	70	13				
BT30-DCK6-60	36	64	108.4	60	16				
BT40-DCK1-100	11	19	165.4	100	5.05	60	M5 × 0.5		
BT40-DCK1-130			195.4	130					
BT40-DCK2-75	14	24	140.4	75	6.62			-	
BT40-DCK2-100			165.4	100					
BT40-DCK2-130			195.4	130					
BT40-DCK2-160			125.4	160					
BT40-DCK3-80	18	31	145.4	80	8	-	M6 × 0.75		
BT40-DCK3-100			165.4	100					
BT40-DCK3-135			200.4	135					
BT40-DCK3-165			230.4	165					
BT40-DCK4-70	22	39	135.4	70	10	-	M8 × 0.75		
BT40-DCK4-100			165.4	100					
BT40-DCK4-150			215.4	150					
BT40-DCK4-170			235.4	170					
BT40-DCK5-60	28	50	125.4	60	13	-	M10 × 1		
BT40-DCK5-80			145.4	80					
BT40-DCK5-100			165.4	100					
BT40-DCK5-150			215.4	150					
BT40-DCK6-55	36	64	120.4	55	16			-	M12 × 1
BT40-DCK6-100			165.4	100					
BT40-DCK6-150			215.4	150					
BT50-DCK1-115	11	19	216.8	115	5.05	60	M5 × 0.5		
BT50-DCK1-145			246.8	145					
BT50-DCK2-105			206.8	105					
BT50-DCK2-135	14	24	236.8	135	6.62			-	
BT50-DCK2-165			266.8	165					
BT50-DCK3-110	18	31	211.8	110	8			-	M6 × 0.75
BT50-DCK3-140			241.8	140					
BT50-DCK3-170			271.8	170					
BT50-DCK4-100	22	39	201.8	100	10	-	M8 × 0.75		
BT50-DCK4-160			361.8	160					
BT50-DCK4-205			306.8	205					
BT50-DCK5-90	28	50	191.8	90	13	-	M10 × 1		
BT50-DCK5-165			266.8	165					
BT50-DCK5-210			311.8	210					
BT50-DCK5-270			371.8	270					
BT50-DCK6-85	36	64	186.8	85	16			-	M12 × 1
BT50-DCK6-155			256.8	155					
BT50-DCK6-215			316.8	215					
BT50-DCK6-250			351.8	250					
BT50-DCK6-300			401.8	300					
BT50-DCK6-350			451.8	350					

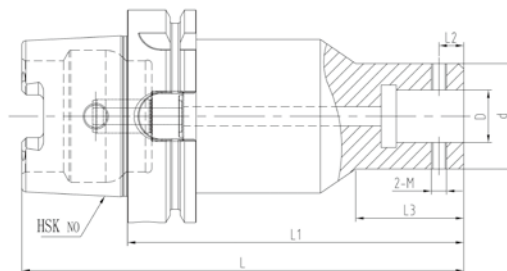
镗头系列 BORING HEAD SERIES

CD1902-01 LBK镗孔刀柄 LBK BORING TOOL HOLDER

型号 Model No.	D	d	L	L1	L2	L3	M		
BT/SK30-LBK1-70	11	19	118.4	70	5.05	-	M4 × 0.5		
BT/SK30-LBK2-80	14	24	128.4	80	6.55		M5 × 0.5		
BT/SK30-LBK3-80	18	31	128.4	80	8.05		M6 × 0.75		
BT/SK30-LBK4-70	22	39	118.4	70	10.05		M8 × 0.75		
BT/SK30-LBK5-60	28	50	108.4	60	13.05		M10 × 1		
BT/SK30-LBK6-60	36	64	108.4	60	16.05		M12 × 1		
BT/SK40-LBK1-75	11	19	140.4	75	5.05	-	M4 × 0.5		
BT/SK40-LBK1-105			170.4	105					
BT/SK40-LBK2-85	14	24	150.4	85	6.55		-	M5 × 0.5	
BT/SK40-LBK2-115			180.4	115					
BT/SK40-LBK3-95	18	31	160.4	95	8.05			-	M6 × 0.75
BT/SK40-LBK3-125			190.4	125					
BT/SK40-LBK3-155			220.4	155					
BT/SK40-LBK4-85	22	39	135.4	70	10.05	-			M8 × 0.75
BT/SK40-LBK4-130			195.4	130					
BT/SK40-LBK4-175			240.4	175					
BT/SK40-LBK5-75	28	50	140.4	75	13.05		-	M10 × 1	
BT/SK40-LBK5-125			190.4	125					
BT/SK40-LBK5-175			240.4	175					
BT/SK40-LBK6-65	36	64	130.4	65	16.05	-		M12 × 1	
BT/SK40-LBK6-115			180.4	115					
BT/SK40-LBK6-165			230.4	165					
BT/SK50-LBK1-115	11	19	216.8	115	5.05		40	M4 × 0.5	
BT/SK50-LBK1-145			246.8	145					70
BT/SK50-LBK2-110	14	24	211.8	110	6.55		-	M5 × 0.5	
BT/SK50-LBK2-140			241.8	140					
BT/SK50-LBK3-125	18	31	226.8	125	8.05	-		M6 × 0.75	
BT/SK50-LBK3-155			256.8	155					
BT/SK50-LBK4-115			216.8	115					
BT/SK50-LBK4-145	22	39	246.8	145	10.05			-	M8 × 0.75
BT/SK50-LBK4-175			276.8	175					
BT/SK50-LBK4-205			306.8	205					
BT/SK50-LBK5-105	28	50	206.8	105	13.05	-	M10 × 1		
BT/SK50-LBK5-180			281.8	180					
BT/SK50-LBK5-240			341.8	240					
BT/SK50-LBK5-300	36	64	401.8	300	16.05		-	M12 × 1	
BT/SK50-LBK6-95			196.8	95					195
BT/SK50-LBK6-170			271.8	170					
BT/SK50-LBK6-230	331.8	230	-						
BT/SK50-LBK6-290	391.8	290							
BT/SK50-LBK6-350	451.8	350		280					



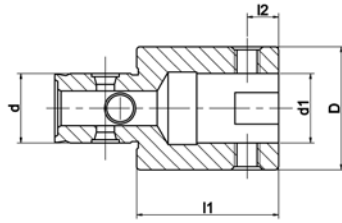
CD1902-02 LBK镗孔刀柄 LBK BORING TOOL HOLDER



型号 Model No.	D	d	L	L1	L2	L3	M
HSK63A-LBK3-95L	18	31	127	95	8.05	-	M6 × 0.75
HSK63A-LBK4-85L	22	39	117	85	10.05		M8 × 0.75
HSK63A-LBK5-70L	28	50	102	70	13.05		M10 × 1

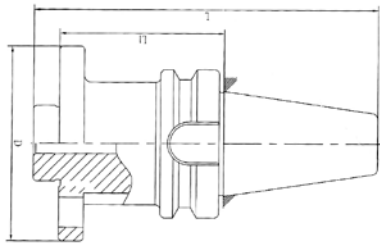
镗头系列 BORING HEAD SERIES

CD1902-03 DCK等径延长接柄



型号 Model No.	L	L1	L2	d
DCK1-1-30	11	11	19	30
DCK2-2-30	14	14	24	30
DCK3-3-30	18	18	31	30
DCK4-4-45	22	22	39	45
DCK4-4-60	22	22	39	60
DCK5-5-60	28	28	50	60
DCK5-5-90	28	28	50	90
DCK6-6-60	36	36	64	60
DCK6-6-100	36	36	64	100

CD1903-01 BST 镗孔刀柄 BST BORING TOOL HOLDER



镗头型号 Boring Head Model No.		D	L mm	L1
BT40	-BST-70	95	146.4	70
	-BST-100		212.8	100
	-BST-150		262.8	150
	-BST-200		312.8	200
	-BST-250		362.8	250
	-BST-300		412.8	300
	-BST-350		462.8	350
	-BST-400		512.8	400

CD1904-01 RBH可调式双刃粗镗头 RBH MICRO BORING HEAD SET



使用方法:

1: 按图示1松开

2: 使用方法:

(1)按照圆示①松开 (不完全收脱)

(2)按图示②③旋转微调螺丝, 拖动刀片座至预设切削尺寸 (切记小于需要的尺寸)

(3)刀片座A级刀片B必同时调整, 两刀误差值±0.5mm

(4)请按照图示④锁紧

Method of Use

1.Loosen as figure①

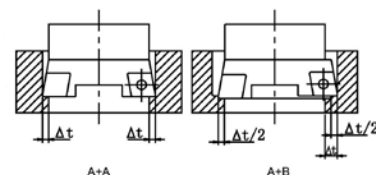
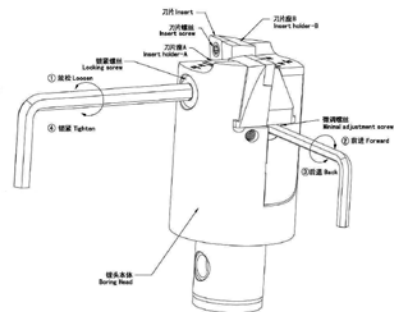
2.Method of Use

1)Loosen(Not fully loosen) as figure①

2)Turn the minimal adjustment screw for push the bade seat into the pre-set cut size as figure②③(Warning,be less than the required size)

3)Be sure to adjust insert holder A and B at same time ,both inset error values is ± 0.5mm

4)Hands locking as figure④



镗头型号 Boring Head Model No.	接口 型号 LBK NO	镗孔范围 Boring Range	L mm	刀片规格 Insert	重量KG Weight
CDBR25-33-C	LBK2	25-33	45	CCMT060204	0.15
CDBR32-42-C	LBK3	32-42	55	CCMT060204	0.3
CDBR40-55-C	LBK4	40-55	65	CCMT09T304	0.5
CDBR52-70-C	LBK5	52-70	75	CCMT09T304	1
CDBR68-92-C	LBK6	68-92	85	CCMT120408	2
CDBR90-122-C	LBK7	90-122	100	CCMT120408	2.9
CDBR120-164-C	BST	120-164	95	CCMT120408	4.3
CDBR160-204-C		160-204			5.3
CDBR200-300-C		200-300			7
CDBR300-410-C		300-410			8
CDBR400-510-C		400-510	130		8.8
CDBR500-610-C		500-610			9.6

镗头系列 BORING HEAD SERIES

CD1904-01 RBH可调式双刃粗镗头 RBH MICRO BORING HEAD SET

RECOMMENDED CUTTING CONDITION 推荐切削参数

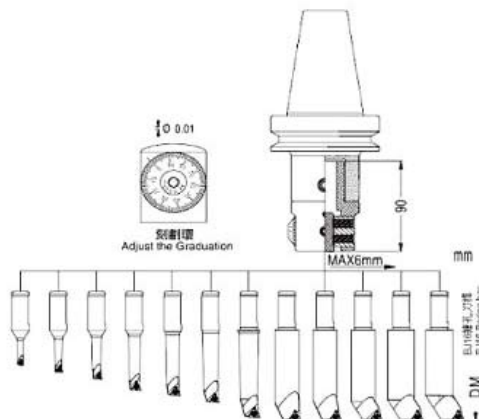
ISO	Workpiece material 被加工材料	HB 硬度	Hanging depth (stability) 悬深 (稳定性) L/D	Boring range 镗削范围 D20-35		Boring range 镗削范围 D35-55		Boring range 镗削范围 D55-70		Boring range 镗削范围 D70-110		Boring range 镗削范围 D110-150		Boring range 镗削范围 D150-			
				Ap(mm)	1.2 - 2.5	0.8 - 1.5	1.5 - 2.5	0.8 - 1.5	1.5 - 3.0	0.8 - 1.5	1.5 - 3.5	0.8 - 2.0	2.0 - 3.5	0.8 - 2.0	2.0 - 4.0		
P	Carbon steel 碳钢	HB<200	2.5 high 高	Vc(m/min)	150 - 180	120 - 150	160 - 200	140 - 170	160 - 200	140 - 180	160 - 200	150 - 180	180 - 250	160 - 200	220 - 280	200 - 220	
				f(mm/rev)	0.1 - 0.2	0.08 - 0.2	0.15 - 0.2	0.1 - 0.175	0.15 - 0.25	0.08 - 0.2	0.15 - 0.25	0.08 - 0.2	0.15 - 0.3	0.1 - 0.2	0.15 - 0.3	0.1 - .15	
			4 general 一般	Vc(m/min)	140 - 160	100 - 140	160 - 180	120 - 150	160 - 180	120 - 150	140 - 180	120 - 150	160 - 200	140 - 180	/	/	/
				f(mm/rev)	0.1 - 0.18	0.08 - 0.15	0.1 - 0.12	0.08 - 0.1	0.1 - 0.12	0.08 - 0.1	0.08 - 0.2	0.08 - 0.15	0.1 - 0.2	0.08 - 0.15	/	/	/
			6.0 poor 差	Vc(m/min)	60 - 80	40 - 60	60 - 90	50 - 60	70 - 90	50 - 70	70 - 100	50 - 70	/	/	/	/	/
				f(mm/rev)	0.06 - 0.12	0.06 - 0.1	0.06 - 0.12	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	/	/	/	/	/
P	Alloy steel 合金钢	HB<200	2.5 high 高	Vc(m/min)	140-160	90-120	150-180	100-130	160-200	140-180	160-220	140-180	160-220	140-180	160-220	140-180	
				f(mm/rev)	0.08-0.18	0.08-0.15	0.08-0.2	0.08-0.18	0.1-0.25	0.1-0.15	0.1-0.3	0.1-0.25	0.1-0.3	0.1-0.25	0.1-0.35	0.1-0.3	
			4 general 一般	Vc(m/min)	100-130	70-100	110-150	90-120	140-180	100-130	150-200	120-160	120-160	120-160	/	/	/
				f(mm/rev)	0.08-0.15	0.06-0.12	0.08-0.18	0.08-0.15	0.08-0.18	0.08-0.12	0.1-0.2	0.08-0.18	0.1-0.2	0.08-0.18	/	/	/
			6.0 poor 差	Vc(m/min)	80-100	60-90	80-100	70-90	100-140	80-120	100-140	100-140	/	/	/	/	/
				f(mm/rev)	0.08-0.15	0.06-0.1	0.06-0.12	0.06-0.12	0.06-0.15	0.08-0.1	0.08-0.18	0.08-0.15	/	/	/	/	/
M	Stainless steel 不锈钢	铁素体 & 马氏体	2.5 high 高	Vc(m/min)	100 - 150	110 - 130	120 - 160	100 - 150	120 - 160	110 - 160	130 - 220	120 - 200	140 - 220	120 - 180	150 - 220	120 - 200	
				f(mm/rev)	0.08 - 0.15	0.06 - 0.12	0.08 - 0.18	0.06 - 0.12	0.08 - 0.25	0.08 - 0.18	0.08 - 0.3	0.08 - 0.25	0.08 - 0.3	0.08 - 0.25	0.08 - 0.3	0.08 - 0.25	
			4 general 一般	Vc(m/min)	90 - 130	90 - 120	100 - 140	90 - 140	100 - 150	80 - 120	100 - 160	90 - 140	120 - 180	90 - 140	/	/	/
				f(mm/rev)	0.08 - 0.12	0.06 - 0.1	0.08 - 0.12	0.06 - 0.1	0.08 - 0.18	0.08 - 0.12	0.08 - 0.25	0.08 - 0.18	0.08 - 0.25	0.08 - 0.18	/	/	/
			6.0 poor 差	Vc(m/min)	60 - 90	50 - 70	60 - 90	50 - 70	70 - 100	50 - 70	70 - 100	50 - 70	/	/	/	/	/
				f(mm/rev)	0.06 - 0.1	0.06 - 0.1	0.06 - 0.12	0.06 - 0.1	0.06 - 0.15	0.08 - 0.1	0.08 - 0.2	0.08 - 0.15	/	/	/	/	/
K	Gray cast iron 灰铸铁 GG10-25	HB<200	2.5 high 高	Vc(m/min)	120 - 160	100 - 140	120 - 180	110 - 150	120 - 180	110 - 150	120 - 200	110 - 150	150 - 250	180 - 280	150 - 250	180 - 280	
				f(mm/rev)	0.06 - 0.15	0.06 - 0.18	0.06 - 0.15	0.06 - 0.12	0.08 - 0.2	0.08 - 0.12	0.08 - 0.25	0.08 - 0.3	0.08 - 0.25	0.08 - 0.35	0.08 - 0.25	0.08 - 0.35	
			4 general 一般	Vc(m/min)	100 - 140	80 - 120	100 - 150	80 - 120	100 - 150	80 - 120	100 - 150	80 - 120	120 - 170	120 - 170	/	/	/
				f(mm/rev)	0.06 - 0.12	0.06 - 0.1	0.06 - 0.12	0.06 - 0.1	0.08 - 0.12	0.08 - 0.1	0.08 - 0.18	0.08 - 0.2	0.08 - 0.18	0.08 - 0.25	/	/	/
			6.0 poor 差	Vc(m/min)	70 - 100	60 - 90	70 - 100	60 - 90	70 - 100	60 - 90	70 - 100	60 - 90	/	/	/	/	/
				f(mm/rev)	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	0.08 - 0.1	0.08 - 0.1	0.08 - 0.15	0.08 - 0.12	/	/	/	/	/
N	Aluminum alloy casting 铝合金/铸造	<120	2.5 high 高	Vc(m/min)	180 - 250	220 - 280	180 - 250	220 - 280	180 - 250	220 - 280	180 - 250	220 - 280	180 - 250	220 - 280	180 - 250	220 - 280	
				f(mm/rev)	0.06 - 0.2	0.06 - 0.25	0.06 - 0.25	0.06 - 0.25	0.06 - 0.25	0.06 - 0.3	0.06 - 0.25	0.06 - 0.3	0.06 - 0.3	0.06 - 0.4	0.06 - 0.3	0.06 - 0.4	
			4 general 一般	Vc(m/min)	120 - 220	120 - 220	120 - 220	120 - 220	120 - 220	120 - 220	120 - 220	120 - 220	120 - 220	120 - 220	/	/	/
				f(mm/rev)	0.06 - 0.2	0.06 - 0.2	0.06 - 0.2	0.06 - 0.2	0.06 - 0.2	0.06 - 0.25	0.06 - 0.2	0.06 - 0.25	0.06 - 0.2	0.06 - 0.25	/	/	/
			6.0 poor 差	Vc(m/min)	60 - 100	60 - 100	60 - 100	60 - 100	60 - 100	60 - 100	60 - 100	60 - 100	/	/	/	/	/
				f(mm/rev)	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	0.06 - 0.1	/	/	/	/	/

Note: when double boring into wrong boring, boring or single tooth cutting feed reduced by 50%

备注: 当双刃镗削变成错齿镗或单齿镗时, 切削进给降低50%

镗头系列 BORING HEAD SERIES

CD1905-01 NBJ16微调精镗刀系列 NBJ16 MICRO BORING HEAD SET



型号 Model No:	镗孔范围 (直径) Boring range	刀杆规格 Shank Size	L1	DrawBolt
BT30-NBJ16	06~51	BT30-NBJ16-55	55	-
BT40-NBJ16	06~51	BT40-NBJ16-55	55	-
BT50-NBJ16	06~51	BT50-NBJ16-65	65	-
BT50-NBJ16	06~51	BT50-NBJ16-85	85	-
NT40-NBJ16	06~51	NT40-NBJ16-55	55	M16*2.0P 5/8"-11
NT50-NBJ16	06~51	NT50-NBJ16-65	65	M24*3.0P 1"-8

-NBJ16微调镗孔系统: 镗孔范围6~51mm. NBJ16 fine-tuning boring system: boring range 6 ~ 51 mm.

BJ16-12PCS镗刀组 BORING CUTTER



型号 Model No:	范围 Boring range Dmin-Dmax		深度 DM	刀片 Inser	螺丝 Bolt	扳手 Wrench
BJ1606-24	6	9	24	TBGT0601.L	SB-1STR-M2	T6
BJ1608-32	8	10		TBGT0601.L	SB-1STR-M2	T6
BJ1610-40	10	13	40			
BJ1612-53	12	15	53	TPGH0902.L	SB-2TR-M2.5	T8
BJ1614-60	14	17	60			
BJ1616-68	16	21	68			
BJ1620-83	20	26	83			
BJ1625-90	25	31	90			
BJ1630-90	30	36	90			
BJ1635-90	35	41	90	TPGH1103.L	SB-3TR-M3	T8
BJ1640-90	40	46	90			
BJ1645-90	45	51	90			

-BJ16-8PCS套装标准配置: BJ1608-32、1610-40、1612-53、1616-68、1620-83、1625-90、1630-90、1640-90

-BJ16镗刀杆可另外选购镗孔头、套筒及钨钢柄镗刀杆使用。

-BJ16镗孔刀杆可依据需求自由选配。

-BJ16-8 PCS set standard configuration: BJ1608-32, 1610-40, 1612-53, 1616-68, 1620-83, 83-90, 1630-1630, 1640-90

-BJ16 boring bar can also purchase boring head, sleeve and tungsten stalk boring rod.

-BJ16 boring cutter bar free selection can be based on demand.

镗头系列 BORING HEAD SERIES

CD1906-01 NBH2084 微调精镗孔镗头 MICRO BORING HEAD SET(NBH2048)

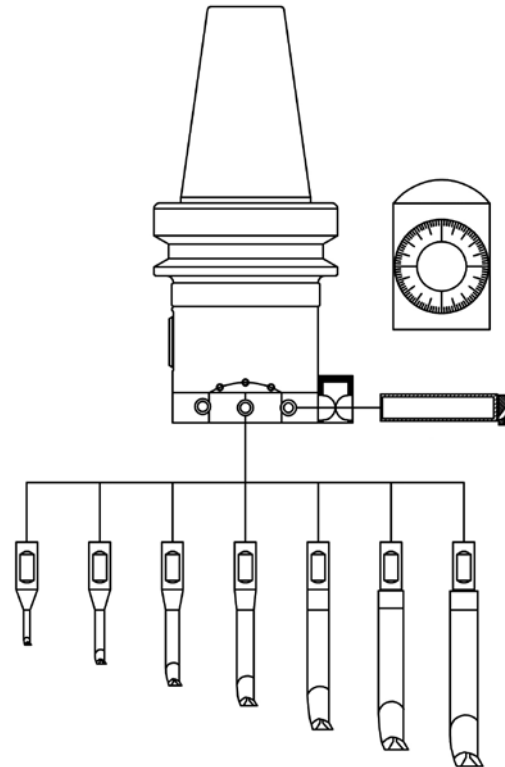
微调精镗孔头套装

MICRO BORING HEAD SETS(NBH2084)

微调镗孔头具有精密的调整螺杆，每调整一刻划读数为0.005mm（直径为0.01mm），可轻易的调节尺寸，附有8支大小舍弃式的镗刀柄，可方便的替换刀片，可任意的选择锥柄，可适合任何的机床选用。具有稳定性的镗孔功能及任意调整尺寸，有8种尺寸的舍弃式刀柄可以任意选择不同的镗孔范围。

Feature:

- ◎ The precision adjustable boring head is designed with precise worm, can adjust 0.01 diameter for each to change the dimension.
- ◎ With 8 pieces of various disposal boring shanks, easy to change
- ◎ To use shanks optional and fit to various machines.
- ◎ Stable boring functions, easy to change the dimensions.
- ◎ Expandable boring size to use 8 different kinds of boring shanks.



(Unit:mm)

SBJ20 BORING BAR SET-SBJ20-镗刀组

SBJ20 8PCS standard size:

SBJ20 8PCS 标准规格

型号 Model No.	镗孔范围 Boring range		深度 Dimensions DM	刀片 Insert	螺丝 Bolt	扳手 Wrench
	D Min	D Max				
SBJ2008-32	8	11	32	TBGT0601..L	SB-1STR-M2	T6
SBJ2010-40	10	13	40	TBGH0601..L	SB-1STR-M2	T6
SBJ2012-53	12	17	53	TPGH0902..L	SB-2TR-M2.5	T8
SBJ2016-68	16	21	68	TPGH0902..L	SB-2TR-M2.5	T8
SBJ2020-83	20	130	83	TPGH1103..L	SB-3TR-M3	T8
SBJ2025-96	25	135	96	TPGH1103..L	SB-3TR-M3	T8
SBJ2030-115	30	140	115	TPGH1103..L	SB-3TR-M3	T8
SBJ-L20-20	120	280	84+BTL1	TPGH1103..L	SB-3TR-M3	T8

-SBJ20 boring bar NOT including inserts

镗头系列 BORING HEAD SERIES

CD1907-01 NBH2084微调精镗孔镗头套装 NBH2084 MICRO BORING HEAD SET

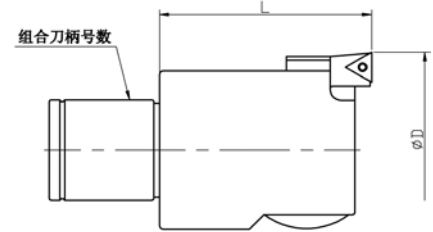


NBH2084 SET

型号 Model No.	镗孔范围(直径)Boring range		规格 Type	KGS
	Min	Max		
BT30-NBH2084-8PCS	8	280	M12 × 1.75P	7.4
BT40-NBH2084-8PCS	8	280	M16 × 2.0P	9.0
BT50-NBH2084-8PCS	8	280	M24 × 3.0P	11.7
R8-NBH2084-8PCS	8	280	7/16"-20UNC	10.0
NT30-NBH2084-8PCS	8	280	1/2"-12UNC	9.8
NT30-NBH2084-8PCS	8	280	M12 × 1.75P	9.8
NT40-NBH2084-8PCS	8	280	5/8"-11UNC	10.3
NT40-NBH2084-8PCS	8	280	M16 × 2.0P	10.3
NT50-NBH2084-8PCS	8	280	1"-8UNC	10.8
NT50-NBH2084-8PCS	8	280	M24 × 3.0P	10.8
MT3-NBH2084-8PCS	8	280	1/2"-12UNC	7.8
MT3-NBH2084-8PCS	8	280	M12 × 1.75P	7.8
MT4-NBH2084-8PCS	8	280	5/8"-11UNC	10.3
MT4-NBH2084-8PCS	8	280	M16 × 2.0P	10.3
MT5-NBH2084-8PCS	8	280	1"-8UNC	10.8
MT5-NBH2084-8PCS	8	280	M24 × 3.0P	10.8
MT3-NBH2084-8PCS	8	280	TANG	7.8
MT4-NBH2084-8PCS	8	280	TANG	10.3
MT5-NBH2084-8PCS	8	280	TANG	10.8
20-NBH2084-8PCS	8	280	φ 20 × 60	7.9
25-NBH2084-8PCS	8	280	φ 20 × 60	8.0
32-NBH2084-8PCS	8	280	φ 20 × 60	8.1

镗头系列 BORING HEAD SERIES

CD1908-01 CBH微调精镗头CBH MICRO BORING HEAD SET

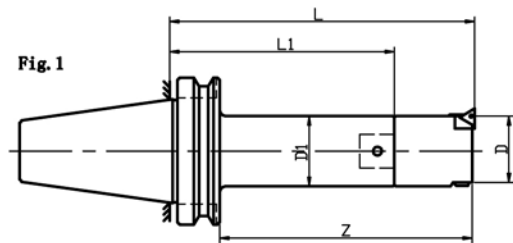
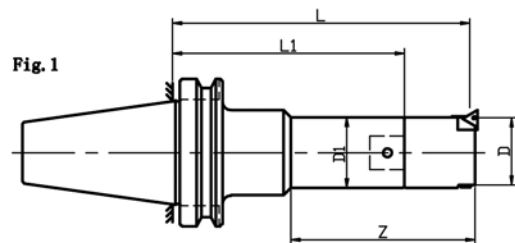


◇ 特点

- ◎ CBH精镗刀适用于精镗孔，工作范围20-202mm均可配选用。
- ◎ 调整刻度为圆角50等分，每格调整尺寸为直径0.01mm，另有副尺可作更精密之调整。
- ◎ 精密导程螺丝位于内部，不受切削、磨损、生锈等影响，具有内润滑，精准耐用。
- ◎ 内藏式水孔，刀尖直接冷却，刀片寿命长。

◇ Features

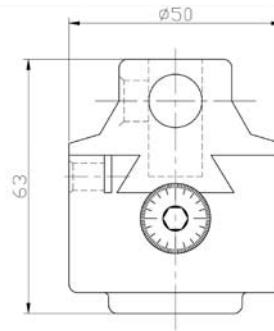
- ◎ CBH finish boring head is suitable for finish boring with working ranges from $\Phi 20\text{mm}$ to 202mm on diameter.
- ◎ The dial has been graduated into 50 divisions, each of which is 0.01mm on diameter available is a sub-dial for finer adjustment.
- ◎ High precision intertal lead screw with inner, lubrication is free from the effects of chip, featuring high durability.
- ◎ Coolant nozzle easily cools the insert elongating its working life.



型号 Model No.	组合刀柄 Chuck	刀片座	正镗			反镗				刀片	重量						
			镗孔范围	L	L1	镗孔范围	L2	L3	B								
CBH20-36	LBK1	CBH1-1	20-26	32.5	29.5	-	10.5	19	10	TP08	0.07						
		CBH1-2	25-31			30-31											
		CBH1-3	30-36			30-36											
CBH25-47	LBK2	CBH2-1	25-33	35.5	32.5	-	11.5	21	12.5			TP08	0.12				
		CBH2-2	32-42			36-40											
		CBH2-3	39-47			39-47											
CBH32-60	LBK3	CBH3-1	32-42	40	35	-	10	25	16					TP08	0.21		
		CBH3-2	41-51			46-51											
		CBH3-3	50-60			50-60											
CBH41-74	LBK4	CBH4-1	41-54	47	43	-	14	29	20							TC11	0.4
		CBH4-2	50-63			53-63											
		CBH4-3	61-74			61-74											
CBH53-95	LBK5	CBH5-1	53-70	57	53	62-70	19	34	25.5	TC11	1.1						
		CBH5-2	65-82			65-82											
		CBH5-3	78-95			78-95											
CBH68-150	LBK6	CBH6-1	68-100	71	67.2	80-100	22	45.2	32.5			TC11	1.47				
		CBH6-2	94-126			94-126											
		CBH6-3	118-150			118-150											
CBH100-203	LBK6	CBH6-1	100-153	87	83.2	112-153	22	45.2	45.5					TC11	2.46		
		CBH6-2	126-179			126-179											
		CBH6-3	150-203			150-203											

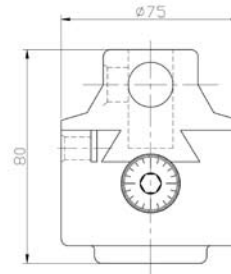
镗头系列 BORING HEAD SERIES

》》 CD1909-01 F1-50 镗头 F1-50 BORING HEAD



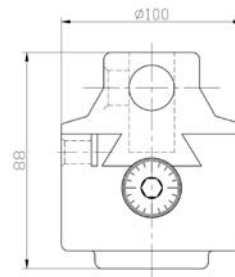
型号 Model No.	外部尺寸 Outside dimension	总长 Length overall	竖孔直径 Boring bar hole size	最大位移 Max offset	横孔直径 Shaft hole diameter	最大位移 Max offset	最小刻度值 Min graduation	镗削直径 Dia of Bring	KGS
F1inch	2"Dia	2-7/16"	1/2"	5/8"	1/2"	5/8"	0.01mm	3/8-5"	0.7
F1mm	50	63	12	16	12	16	0.01mm	10-125mm	0.7

》》 CD1909-02 F1-75 镗头 F1-75 BORING HEAD



型号 Model No.	外部尺寸 Outside dimension	总长 Length overall	竖孔直径 Boring bar hole size	最大位移 Max offset	横孔直径 Shaft hole diameter	最大位移 Max offset	最小刻度值 Min graduation	镗削直径 Dia of Bring	KGS
F1inch	3"Dia	3-5/32"	3/4"	1"	3/4"	1"	0.01	1/2"-9"	2
F1mm	75	80	18	25	18	25	0.01	12-225mm	2

》》 CD1909-03 F1-100 镗头 F1-100 BORING HEAD



型号 Model No.	外部尺寸 Outside dimension	总长 Length overall	竖孔直径 Boring bar hole size	最大位移 Max offset	横孔直径 Shaft hole diameter	最大位移 Max offset	最小刻度值 Min graduation	镗削直径 Dia of Bring	KGS
F1inch	4"Dia	3-1/2"	1"	1-5/8"	1"	1-5/8"	0.01	5/8"-25"	4
F1mm	100	88	25	41	25	41	0.01	15-630mm	4

镗头系列 BORING HEAD SERIES

CD1909-04 F1镗头柄 F1 BORING SHANK

型号 Model No.	T	KGS
BT40	M16 × 2.0P	1.24
BT50	M24 × 3.0P	3.97

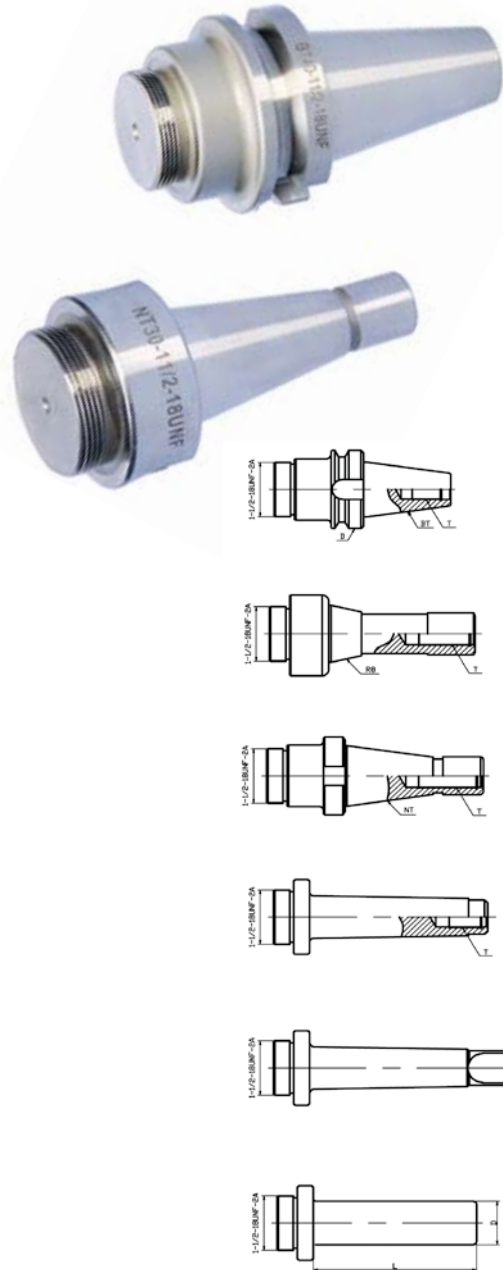
R8	7/16-20UNF	0.6
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NT30	1/2-12UNC	0.6
NT30	M12 × 1.75P	0.6
NT40	5/8-11UNC	1.2
NT40	M16 × 2.0P	1.2
NT50	1"-8UNC	3.14
NT50	M24 × 3.0P	3.14

MT2	3/8-16UNC	0.4
MT2	M10 × 1.5	0.4
MT3	3/8-16UNC	0.44
MT3	1/2-13UNC	0.44
MT3	1/2-12UNC	0.44
MT3	M12 × 1.75P	0.44
MT4	5/8-11UNC	0.95
MT4	M16 × 2.0P	0.95
MT5	1"-8UNC	1.7
MT5	M24 × 3.0P	1.7

MT2	TANGED	0.4
MT3	TANGED	0.5
MT4	TANGED	0.8
MT5	TANGED	1.8

型号 Model No.	D	L	KGS
C20	20	60	0.4
C25	25	60	0.5
C32	32	60	0.6



CD1909-05 F1-套装镗头 F1-PRECISION BORING HEAD SET

型号 Model No.	镗头支数 Boring bar pcs	柄部 Shank
F1-2"	9/12	NT/BT30 NT/BT40 NT/BT50 MT2 MT3 MT4 MT5 R8/5C 直柄
F1-50	9/12	
F1-3"	6/12	
F1-75	6/12	
F1-4"	7/12	
F1-100	7/12	



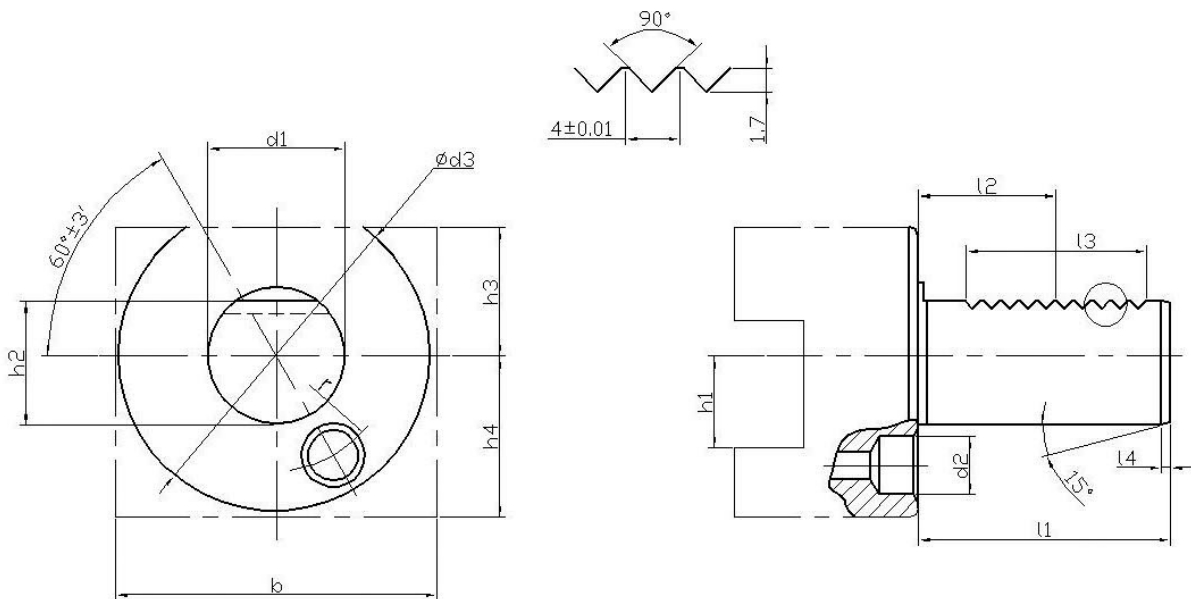
VDI刀夹系列 VDI TOOL HOLDER SERIES

VDI 刀夹柄部标准 TOOLHOLDERS VDI 3425-2 DIN69880

车削刀夹是车削工具系统中的一部分，是专门用于车削加工中心和数控车体的工具刀夹，能使各种标准刀具（钻头、铣刀）等安装到车削加工中心和数控车床上，使车床完成车钻、铰刀、攻丝、镗等切削加工。

Tool holders is a part of the turning tool system, specialized using in turning center and CNC machine, can make all kinds of standard tools (drill, milling cutter) be installed in turning center and CNC machine, finish turning processing, such as drilling, reamer, tapping, boring etc.

GB/T.19449-2004(与ISO10889-1:1997/DIN69880-1:1994等效)



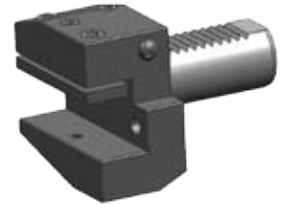
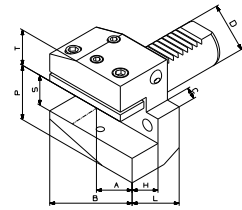
h1	b	d1 (h6)	d2 (H8)	d3	h2 ± 0.05	h3 min	h4	r ± 0.02	l1 max	l2 -0.25 -0.35	l3 max	l4 max
16	50	20	10	48	18	18	25	18	40	22	32	2
20	70	30	14	68	27	28	35	25	55	30	48	2
25	85	40	14	83	36	32.5	42.5	32	63	30	48	3
32	100	50	16	98	45	35	50	37	78	36	56	3
32	125	60	16	123	55	42.5	62.5	48	94	44	56	4
40	160	80	20	158	72	55	80	65	124	60	80	4

VDI刀夹系列 VDI TOOL HOLDER SERIDS

CD2001-01 径向右刀夹 AXIAL FEED (RIGHT) TOOL HOLDER

Form B1

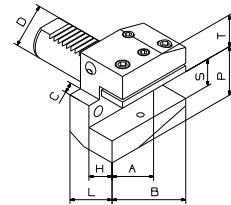
型号 Model No.	D	S	P	T	L	H	A	B	C
B1-16X12	16	12/10	22	20	24	11	23	42	5
B1-16X12L					34				
B1-20X16	20	16/12	30	25	30	14	30	55	7
B1-20X16L					40				
B1-25X16	25	16/12	30	25	30	14	30	55	7
B1-25X16L					40				
B1-30X20	30	20/16	38	28	40	18	35	70	10
B1-30X20L					60				
B1-40X25	40	25/20	48	32	44	22	42	85	12
B1-50X32	50	32/25	60	35	55	25	50	100	16
B1-60X32	60		62.5	42.5	60	30	62.5	125	



CD2001-02 径向左刀夹 AXIAL FEED (LEFT) TOOL HOLDER

Form B2

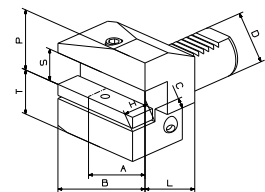
型号 Model No.	D	S	P	T	L	H	A	B	C
B2-16X12	16	12/10	22	20	24	11	23	42	5
B2-16X12L					34				
B2-20X16	20	16/12	30	25	30	14	30	55	7
B2-20X16L					40				
B2-25X16	25	16/12	30	25	30	14	30	55	7
B2-25X16L					40				
B2-30X20	30	20/16	38	28	40	18	35	70	10
B2-30X20L					60				
B2-40X25	40	25/20	48	32	44	22	42	85	12
B2-50X32	50	32/25	60	35	55	25	50	100	16
B2-60X32	60		62.5	42.5	60	30	62.5	125	



CD2001-03 径向右刀夹 (反) AXIAL REVERSE FEED (RIGHT) TOOL HOLDER

Form B3

型号 Model No.	D	S	P	T	L	H	A	B	C
B3-16X12	16	12/10	22	20	24	11	23	42	5
B3-16X12L					34				
B3-20X16	20	16/12	30	25	30	14	30	55	7
B3-20X16L					40				
B3-25X16	25	16/12	30	25	30	14	30	55	7
B3-25X16L					40				
B3-30X20	30	20/16	38	28	40	18	35	70	10
B3-30X20L					60				
B3-40X25	40	25/20	48	32	44	22	42	85	12
B3-50X32	50	32/25	60	50	55	25	50	100	16
B3-60X32	60		62.5	62.5	60	30	62.5	125	

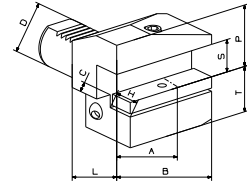


VDI刀夹系列 VDI TOOL HOLDER SERIDS

CD2001-04 径向左刀夹(反) AXIAL REVERSE FEED (LEFT) TOOL HOLDER

Form B4

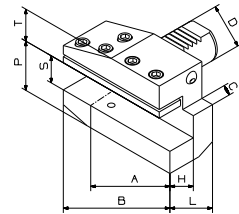
型号 Model No.	D	S	P	T	L	H	A	B	C
B4-16X12	16	12/10	22	20	24	11	23	42	5
B4-16X12L					34				
B4-20X16	20	16/12	30	25	30	14	30	55	7
B4-20X16L					40				
B4-25X16	25				30				
B4-25X16L					40				
B4-30X20	30	20/16	38	28	40	18	35	70	10
B4-30X20L					60				
B4-40X25	40	25/20	48	32	44	22	42	85	12
B4-50X32	50	32/25	60	50	55	25	50	100	16
B4-60X32	60		62.5	62.5	60	30	62.5	125	



CD2001-05 径向右刀夹(长) AXIAL FEED (RIGHT) TOOL HOLDER (LONG)

Form B5

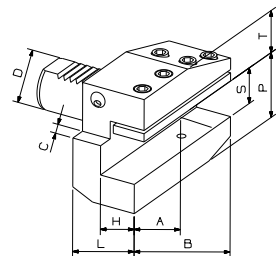
型号 Model No.	D	S	P	T	L	H	A	B	C
B5-16X12	16	12/10	22	20	24	11	39	58	5
B5-16X12L					34				
B5-20X16	20	16/12	30	25	30	14	50	75	7
B5-20X16L					40				
B5-25X16	25				30				
B5-25X16L					40				
B5-30X20	30	20/16	38	28	40	18	65	100	10
B5-30X20L					60				
B5-40X25	40	25/20	48	32	44	22	75	118	12
B5-50X32	50	32/25	60	35	55	25	80	130	16
B5-60X32	60		62.5	42.5	60	30	82.5	145	



CD2001-06 径向左刀夹(长) AXIAL FEED (LEFT) TOOL HOLDER (LONG)

Form B6

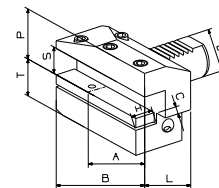
型号 Model No.	D	S	P	T	L	H	A	B	C
B6-16X12	16	12/10	22	20	24	11	39	58	5
B6-16X12L					34				
B6-20X16	20	16/12	30	25	30	14	50	75	7
B6-20X16L					40				
B6-25X16	25				30				
B6-25X16L					40				
B6-30X20	30	20/16	38	28	40	18	65	100	10
B6-30X20L					60				
B6-40X25	40	25/20	48	32	44	22	75	118	12
B6-50X32	50	32/25	60	35	55	25	80	130	16
B6-60X32	60		62.5	42.5	60	30	82.5	145	



VDI刀夹系列 VDI TOOL HOLDER SERIDS

CD2001-07 径向右刀夹 (长反) AXIAL REVERSE FEED (RIGHT) TOOL HOLDER (LONG)

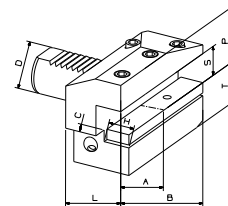
型号 Model No.	D	S	P	T	L	H	A	B	C
B7-16X12	16	12/10	22	20	24	11	39	58	5
B7-16X12L					34				
B7-20X16	20	16/12	30	25	30	14	50	75	7
B7-20X16L					40				
B7-25X16	25	16/12	30	25	30	14	50	75	7
B7-25X16L					40				
B7-30X20	30	20/16	38	35	40	18	65	100	10
B7-30X20L					60				
B7-40X25	40	25/20	48	42	44	22	75	118	12
B7-50X32	50	32/25	60	50	55	25	80	130	16
B7-60X32	60		62.5	62.5	60	30	82.5	145	



Form B7

CD2001-08 径向左刀夹 (长反) AXIAL REVERSE FEED (LEFT) TOOL HOLDER (LONG)

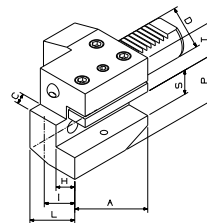
型号 Model No.	D	S	P	T	L	H	A	B	C
B8-16X12	16	12/10	22	20	24	11	39	58	5
B8-16X12L					34				
B8-20X16	20	16/12	30	25	30	14	50	75	7
B8-20X16L					40				
B8-25X16	25	16/12	30	25	30	14	50	75	7
B8-25X16L					40				
B8-30X20	30	20/16	38	35	40	18	65	100	10
B8-30X20L					60				
B8-40X25	40	25/20	48	42	44	22	75	118	12
B8-50X32	50	32/25	60	50	55	25	80	130	16
B8-60X32	60		62.5	62.5	60	30	82.5	145	



Form B8

CD2002-01 轴向右刀夹 RADIAL FEED (RIGHT) TOOL HOLDER

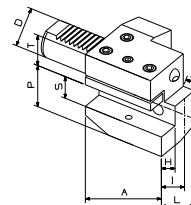
型号 Model No.	D	S	P	T	L	I	H	A	C
C1-16X12	16	12/10	22	20	43	24	11	44	5
C1-20X16	20	16/12	30	25	65	40	14	50	7
C1-25X16	25	16/12	30	25	58	33	14	55	7
C1-30X20	30	20/16	38	28	70	35	18	70	10
C1-40X25	40	25/20	48	32	85	48	22	85	12
C1-50X32	50	32/25	60	35	100	50	24	100	16
C1-60X32	60	32/25	62.5	42.5	125	62.5	30	125	16



Form C1

CD2002-02 轴向左刀夹 RADIAL FEED (LEFT) TOOL HOLDER

型号 Model No.	D	S	P	T	L	I	H	A	C
C2-16X12	16	12/10	22	20	43	24	11	44	5
C2-20X16	20	16/12	30	25	65	40	14	50	7
C2-25X16	25	16/12	30	25	58	33	14	55	7
C2-30X20	30	20/16	38	28	76	40	18	70	10
C2-40X25	40	25/20	48	32	90	48	22	85	12
C2-50X32	50	32/25	60	35	105	55	25	100	16
C2-60X32	60	32/25	62.5	42.5	125	62.5	30	125	16



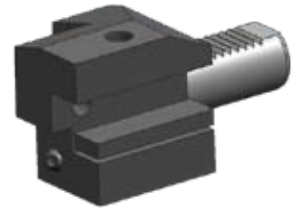
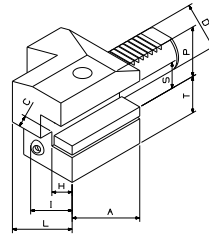
Form C2

VDI刀夹系列 VDI TOOL HOLDER SERIES

CD2002-03 轴向右刀夹 (反) RADIAL REVERSE FEED (RIGHT) TOOL HOLDER

Form C3

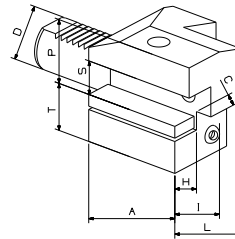
型号 Model No.	D	S	P	T	L	I	H	A	C
C3-16X12	16	12/10	22	20	43	24	11	44	5
C3-20X16	20	16/12	30	25	65	40	14	50	7
C3-25X16	25	16/12	30	25	58	33	14	55	7
C3-30X20	30	20/16	38	35	70	35	18	70	10
C3-40X25	40	25/20	48	42	85	48	22	85	12
C3-50X32	50	32/25	60	50	100	50	24	100	16
C3-60X32	60	32/25	62.5	62.5	125	62.5	30	125	16



CD2002-04 轴向左刀夹 (反) RADIAL REVERSE FEED (LEFT) TOOL HOLDER

Form C4

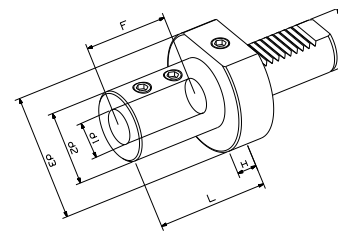
型号 Model No.	D	S	P	T	L	I	H	A	C
C4-16X12	16	12/10	22	20	43	24	11	44	5
C4-20X16	20	16/12	30	25	65	40	14	50	7
C4-25X16	25	16/12	25	25	58	33	14	55	7
C4-30X20	30	20/16	38	35	76	35	18	70	10
C4-40X25	40	25/20	48	42	90	48	22	85	12
C4-50X32	50	32/25	60	50	105	50	24	100	16
C4-60X32	60	32/25	62.5	62.5	125	62.5	30	125	16



CD2003-01 圆柱孔刀夹 TOOL HOLDER WITH ROUND BARS

Form E4

型号 Model No.	D	d ₁	d ₂	d ₃	F	L	H
E1-20X16	20	16	36	50	51	64	18
E1-20X20		20	40		54	67	
E1-20X25		25	45		59	71	
E1-25X20	25	20	40	58	54	67	20
E1-25X25		25	45		59	71	
E1-30X16	30	16	36	68	51	64	22
E1-30X20		20	40		54	67	
E1-30X25		25	45		59	71	
E1-30X32		32	52		63	75	
E1-40X16	40	16	36	83	51	64	22
E1-40X20		20	40		54	67	
E1-40X25		25	45		59	75	
E1-40X32		32	52		63	75	
E1-40X40		40	65		73	90	
E1-50X20	50	20	40	98	54	67	30
E1-50X25		25	45		59	80	
E1-50X32		32	52		63	80	
E1-50X40		40	65		73	90	
E1-50X50		50	75		83	100	
E1-60X20	60	20	40	123	54	80	30
E1-60X25		25	45		59	80	
E1-60X32		32	52		63	80	
E1-60X40		40	60		73	90	
E1-60X50		50	70		83	100	

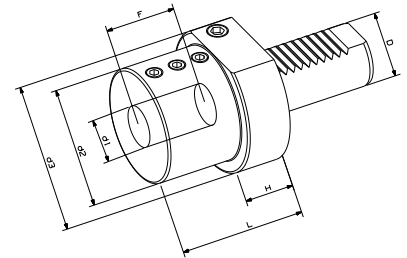


VDI刀夹系列 VDI TOOL HOLDER SERIES

CD2003-02 圆柱孔刀夹 TOOL HOLDER WITH ROUND BARS

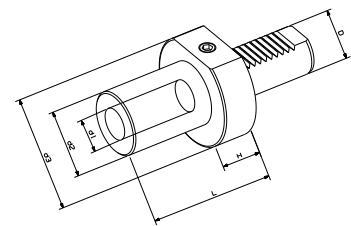
Form E2

型号 Model No.	D	d ₁	d ₂	d ₃	F	L	H
E2-16X8	16	8	32	40	34	44	18
E2-16X10		10					
E2-16X12		12					
E2-16X16		16					
E2-20X8	20	8	40	50	41	50	
E2-20X10		10					
E2-20X12		12					
E2-20X16		16					
E2-20X20		20					
E2-20X25	25	50	51	60			
E2-25X8	25	8	45	58	41	50	
E2-25X10		10					
E2-25X12		12					
E2-25X16		16					
E2-25X20		20					
E2-25X25		25					58
E2-30X8	30	8	55	68	51	60	
E2-30X10		10					
E2-30X12		12					
E2-30X16		16					
E2-30X20		20					
E2-30X25		25					
E2-30X32	32	68					
E2-40X12	40	12	55	83	61	75	
E2-40X16		16					
E2-40X20		20					
E2-40X25		25					60
E2-40X32		32					
E2-40X40		40					83
E2-50X16	50	16	55	98	76	90	
E2-50X20		20					
E2-50X25		25					65
E2-50X32		32					83
E2-50X40		40					
E2-50X50		50					90
E2-60X16	60	16	68	123	76	90	
E2-60X20		20					
E2-60X25		25					
E2-60X32		32					
E2-60X40		40					
E2-60X50		50					98



CD2004-01 莫氏锥孔刀夹 TOOL HOLDER WITH MORSE TAPER

型号 Model No.	D	MT.NO.	d ₂	d ₃	L	H
F20-MT1	20	MT1	50	50	22	-
F25-MT1	25	MT1	58	58	22	-
F30-MT1	30	MT1	68	68	27	-
F30-MT2	30	MT2	58	68	36	25
F30-MT3	30	MT3	58	68	66	25
F40-MT2	40	MT2	58	83	36	22
F40-MT3	40	MT3	58	83	50	22
F40-MT4	40	MT4	68	83	80	22
F50-MT2	50	MT2	58	98	36	30
F50-MT3	50	MT3	58	98	45	30
F50-MT4	50	MT4	68	98	55	30
F50-MT5	50	MT5	75	98	68	30
F60-MT3	60	MT3	58	123	47	30
F60-MT4	60	MT4	68	123	58	30
F60-MT5	60	MT5	75	123	74	30

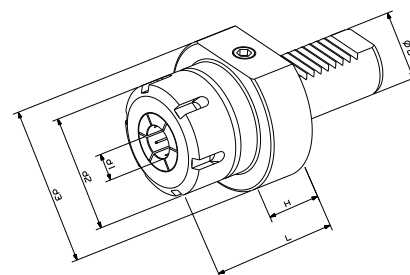


VDI刀夹系列 VDI TOOL HOLDER SERIES

CD2005-01 弹簧夹头刀夹 COLLET SPINDLE HOLDERS

Form E4

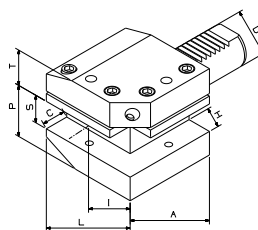
型号	D	d ₁	d ₂	d ₃	H	L
E4-16-ER16	16	1~10	28	40	15	40
E4-16-ER20		1~13	34			44
E4-20-ER16	20	1~10	28	50	20	45
E4-20-ER20		1~13	34			53
E4-20-ER25		1~16	42			57
E4-20-ER32		2~20	50			64
E4-25-ER25	25	1~16	42	58	23	57
E4-25-ER32		2~20	50			62
E4-30-ER25	30	1~16	42	68	23	60
E4-30-ER32		2~20	50			67
E4-30-ER40		3~30	63			70
E4-40-ER25	40	1~16	42	83	23	65
E4-40-ER32		2~20	50			67
E4-40-ER40		3~30	63			75
E4-50-ER32	50	2~20	50	98	30	84
E4-50-ER40		3~30	63			90
E4-60-ER40	60	3~30	63	123	30	90



CD2006-01 双向右刀夹 DOUBLE DIRECTION (RIGHT) TOOL HOLDER

Form D1

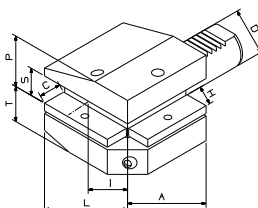
型号	D	S	P	T	L	I	H	A	C
D1-25X16	25	16/12	30	25	66	33	14	48	14
D1-30X20	30	20/16	38	28	76	35	18	60	18
D1-40X25	40	25/20	48	32	90	42.5	22	72	22
D1-50X32	50	32/25	60	35	105	50	24	85	25
D1-60X32	60	32/25	62.5	42.5	115	57.5	24.5	110	25



CD2006-02 双向左刀夹 DOUBLE DIRECTION (LEFT) TOOL HOLDER

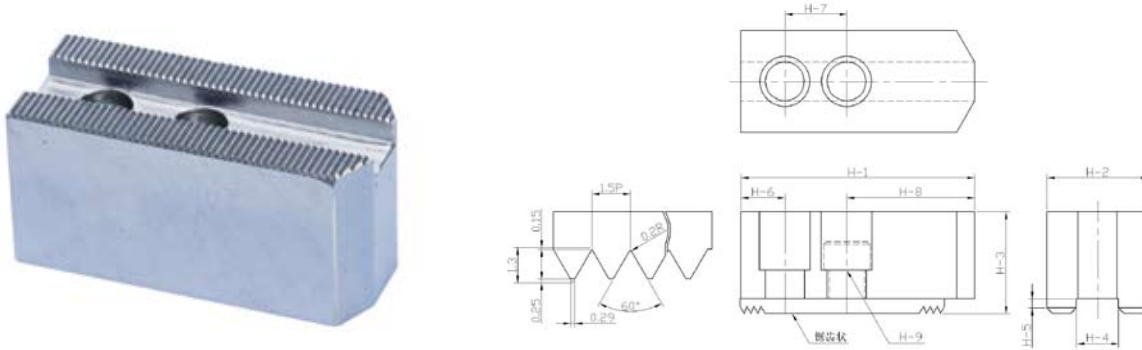
Form D2

型号	D	S	P	T	L	I	H	A	C
D2-25X16	25	16/12	30	25	66	33	14	48	14
D2-30X20	30	20/16	38	35	76	35	18	60	18
D2-40X25	40	25/20	48	42.5	90	42.5	22	72	22
D2-50X32	50	32/25	60	50	105	50	24	85	25
D2-60X32	60	32/25	62.5	62.5	115	57.5	24.5	110	25



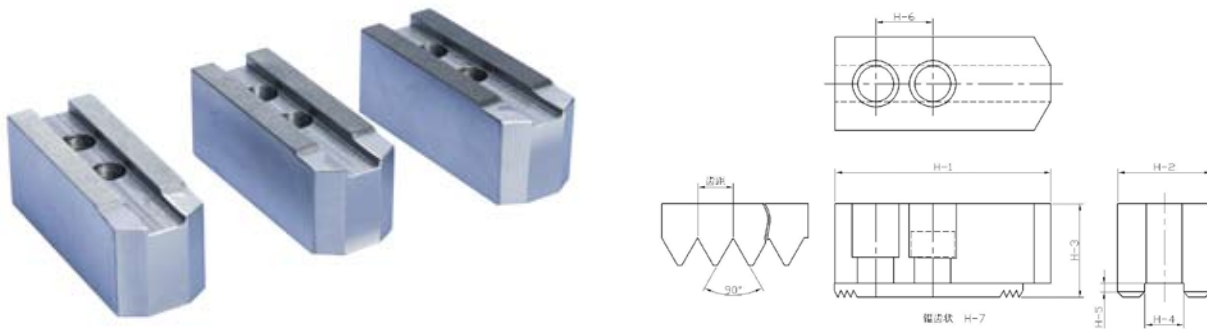
油压软爪系列 HYDRAULIC SOFT JAWS SERIES

CD2101-01 油压软爪 HYDRAULIC SOFT JAWS



型号 Model No. /尺寸	长 H-1	宽 H-2	高 H-3	键槽宽 H-4	键槽深 H-5	H-6	中心孔距 H-7	H-8	螺丝 H-9	锯齿状节距 Sprration pitch
CS04	53	23	23	10	4	10	14	29	M8	1.5×60°
CS05	62	25	30	10	4	10	14	38	M8	1.5×60°
CS06	73	31	36	12	5	15	20	38	M10	1.5×60°
CS08	95	35	38	14	5	24	25	46	M12	1.5×60°
CS10	110	40	42	16	5	30	30	50	M12	1.5×60°
CS12 (中空)	129	50	50	21	6	39	30	60	M16	1.5×60°
CS12S (中实)	129	50	50	18	6	39	30	60	M14	1.5×60°
CS15 (中空)	165	62	62	22	8	37	43	85	M20	1.5×60°
CS15S (中实)	165	62	62	25.5	5.3	37	43	85	M20	1.5×60°

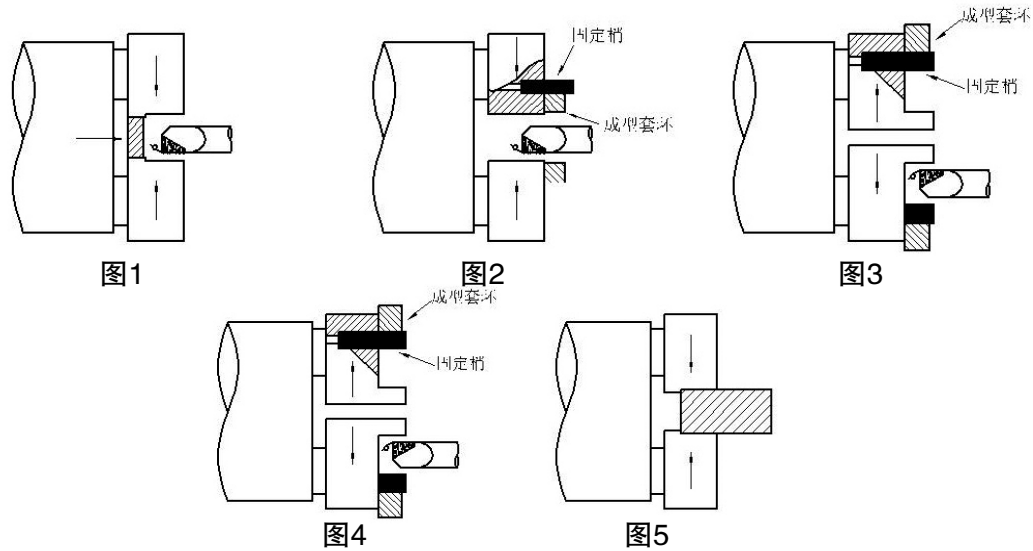
CD2101-02 环球油压软爪 (国内规格) GLOBAL HYDRAULIC SOFT JAWS (CHINA SPEC)



型号 Model No. /尺寸	长 H-1	宽 H-2	高 H-3	键槽宽 H-4	键槽深 H-5	中心孔距H-6	螺丝H-7	锯齿状节距 Sprration pitch
CH-06(160)	73	31	36	11	4.5	20	M8	1.5×90°
CH-08(200)	95	35	38	13	4.5	24	M10	1.5×90°
CH-10(250)	110	40	42	15	4.5	28	M12	1.5×90°
CH-12(320)	129	50	50	18	4.5	32	M12	2.5×90°
CH-15(400)	165	62	75	20	6	45	M16	2.5×90°
CH-20(500)	165	62	85	22	6	50	M18	2.5×90°
CH-24(630)	190	70	90	24	8	55	M20	2.5×90°

油压软爪系列 HYDRAULIC SOFT JAWS SERIES

CD2102-01 油压软爪成型圈 FUMES JAWS FORMING RING



◇特点

- ◎夹持增强，提高真圆度，圆柱度等精度，不会产生喇叭口状及离心震动，提高精度
- ◎外夹内胀二者均可使用，可任意调整所需尺寸，操作迅速简便，既省时间，永久使用
- ◎旧的夹头使用成型圈后，可提高精度及夹持力，恢复使用功能

◇使用说明

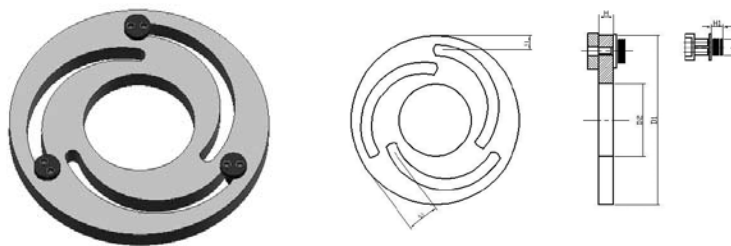
◎使用成型圈，不但能做到外夹，内胀与穿通形成3种方式的成形，尚可夹住工作物件时在同样的状态成形，所以芯振摆少，夹紧力也就提升。（如图一、二、三）使用成型圈，与夹头一成形时，无心振摆现象，夹紧力达100%，可提高精度（如图四）。使用硬爪夹持时接触面不良会产生喇叭口状，夹紧力不良会产生离心振动，影响精度，危险性高（如图五）

◇Feature:

- ◎ Grasp stronger, Improve the precision of the round, won't from Bell-shape and Centrifugal Vibration
- ◎ Both clamp and expand can be used, can adjust the size freely, Operation easily, Time saving, Use forever
- ◎ Dealt by the Forming Ring, can improve the precision and clamp capacity of the used collets, just like new collets

◇Operation Introduction

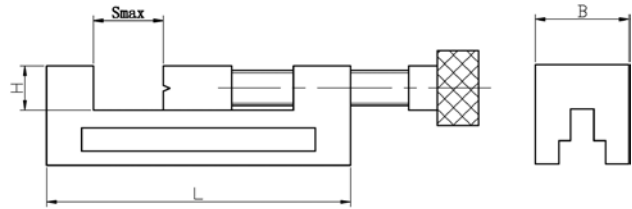
◎There are three kind usage of forming ring, clamp expand and punch-through molding, and can process the collets in the same way, minimize the vibration, enhance the grasp force. (Such as the photo 1,2,3) Process collets by using forming ring, grasp force can reach 100%, and improve the precision. When use hard claw, if the surface does not touch well, will from Bell-shape, and develop centrifugal Vibration due to the poor grasp force, then influence the accuracy and increase the risk.(such as the photo 5)



形式 MODELS	H	D1	D2	S1	S2	G	HI	O
5 "	12	140	60	12	28	10	9	13.5
6 "	12	168	80	12	32	10	9	16.5
8 "	12	218	115	17	36	10	9	18.5
10 "	12	258	150	15	40	10	9	18.5
12 "	15	316	188	21	50	10	9	21.5
15 "	20	380	230	23	52	12	16	31

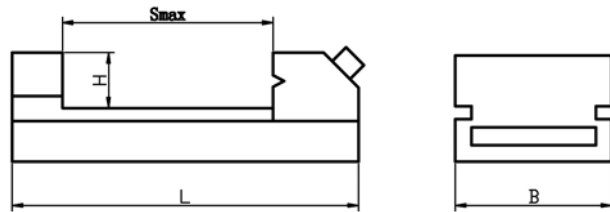
平口钳系列 PRECISION TOOL VISES

>>> CD2201-01 QGG型手转精密工具平口钳 QGG PRECISION TOOL VISES



型号 Model No.	B	H	Smax	L	KGS
QGG50	50	25	65	155	3
QGG60	60	25	55	110	2.4
QGG63	63	32	85	190	3.8
QGG73	73	35	100	210	5
QGG80	80	40	100	220	6.5
QGG88	88	40	125	250	11
QGG100	100	45	125	260	13
QGG125	125	50	160	300	19.5
QGG125A	125	50	210	350	23
QGG150	150	50	175	315	23.8

>>> CD2202-01 QKG型精密成型工具平口钳 QKG PRECISION TOOL VISES



型号 Model No.	B	H	Smax	L	KGS
QKG26	26	9.15	22	64.5	0.5
QKG36	36	20	40	100	1.2
QKG38	38	20	44	105	1.3
QKG50	50	25	65	140	2
QKG63	63	32	85	175	3
QKG73	73	35	100	190	4.1
QKG80	80	40	100	200	5.5
QKG88	88	40	125	235	7.3
QKG100	100	45	125	245	10
QKG125	125	50	160	285	18
QKG150	150	50	200	330	21.5
QKG150A	150	50	250	380	23
QKG150B	150	50	300	430	24

◇精密工具平口钳:

◎采用优质合金结构钢制造,工作面硬度HRC58-62。平行度0.005mm/100mm,垂直度0.005mm。夹紧快,操作灵活。用于精密测量和加工。

◎在工作时无论横立、竖立、平放皆可保持高的精密度。

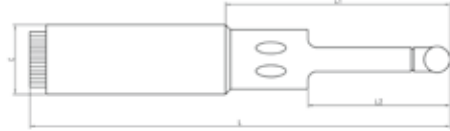
◇The precision tool vises:

◎Made of high-quality alloy steel. The hardness of working surface reaches HRC58-62. Parallelism 0.005mm/100mm, squareness 0.005mm. Quickly to clamp and easy to operate

◎Used for precision measurement and inspection precision grinding EDM and wire-cutting machine. Guarantee high accuracy in any position.

寻边器系列 TOUCH POINT SENSOR

CD2301-01 光电式寻边器 TOUCH POINT SENSOR



- 使用2枚UM5#1.5V电池
- 红灯亮时同时发出电子音，哔！哔！声响
- 对无法目视深孔探测，可由声音得知深测结果

- 2pieces battery (UM5#1.5V)
- The red light on with electronic sound
- According to the sound for deep hole testing

◇ CD-A 为蜂鸣音光电式寻边器 BUZZING TOUCH POINT SENSOR

型号 Model No.	C	D	L	L1	L2
CD20	20	10	160	85	50
CD32	32				
CD-A20	20				
CD-A32	32				

CD2301-02 机械式寻边器 TOUCH POINT SENSOR



Fig1

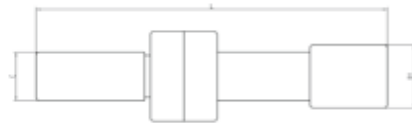
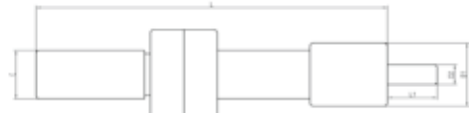


Fig2



- 适用在铣床和CNC加工机，可测量设定工件的X，Y轴坐标
- 设计的4mm的测头，供小孔径及偏窄沟槽使用
- 配合转速400-600RPM使用
- Suitable for milling machines CNC machining machines, can test the X,Y coordinate of work piece
- 4mm gauge head for the use of small diameter and narrow groove
- Speed 400-600 RPM

型号 Model No.	C	D1	D2	L	L1	Fig
JD-1020	10	10	-	82	-	1
JD-0420			4	90	7.5	2
JD-0610			6	65	11	2

CD2302-01 ZD1-50 隐藏式Z轴设定器invisible scale Z-axis setter (Magnetic)

ZD1-50 z轴设定器是一种能设置数控设备工具长度的五金工具，设定高度:50.00 + -0.01毫米
z轴设定器技术参数

- 1、在数控铣床和车床设置工具长度。
- 2、设定高度。
- 3、测试区域大,操作容易。
- 4、弹簧力小,避免小铣刀和小钻断裂。
- 5、可以设置研磨平行板。
- 6、各种参数测量灵敏，精度高(0.005毫米)。


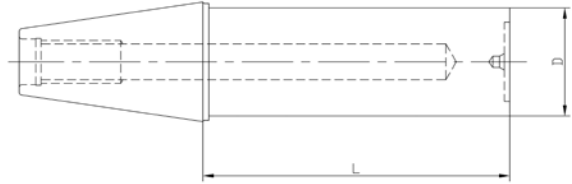
Z-axis setter is a kind of hardware tools to set the tool length of CNC machine. Set height:50.00+-0.01mm

Technical parameters of Z-axis setter


- 1, Set tool length on numerical control milling machine and lathe.
- 2, design height.
- 3, test area large, operate easily.
- 4, spring force small, avoid small milling cutter and small drill break.
- 5, can set with the grinding parallel plate.
- 6, Parallelism, and various parameters Measurement sensitivity, precision high (0.005mm).



CNC附件 CNC ACCESSORIES


 CD2303-01 BT/SK/CAT检测棒 TOUCH POINT SENSOR


型号 Model No.	D	L	圆柱度	同轴度
BT30-CD30-200	30	200	0.002	0.003
BT30-CD30-250	30	250	0.002	0.003
BT40-CD40-250	40	250	0.002	0.003
BT40-CD40-300	40	300	0.002	0.003
BT40-CD40-350	40	350	0.002	0.003
BT50-CD40-315	40	315	0.002	0.003
BT50-CD40-350	40	350	0.002	0.003
BT50-CD40-400	40	400	0.002	0.003
BT50-CD63-315	63	315	0.002	0.003
BT50-CD63-350	63	350	0.002	0.003
BT50-CD63-400	63	400	0.002	0.003
SK40-CD40-160	40	160	0.002	0.003
SK40-CD40-250	40	250	0.002	0.003
SK50-CD40-250	40	250	0.002	0.003
SK50-CD40-315	40	315	0.002	0.003
SK50-CD40-350	40	350	0.002	0.003
SK50-CD63-315	63	315	0.002	0.003
SK50-CD63-350	63	350	0.002	0.003
CAT40-CD40-160	40	160	0.002	0.003
CAT40-CD40-250	40	250	0.002	0.003
CAT50-CD40-250	40	250	0.002	0.003
CAT50-CD40-315	40	315	0.002	0.003
CAT50-CD40-350	40	350	0.002	0.003
CAT50-CD63-315	63	315	0.002	0.003
CAT50-CD63-350	63	350	0.002	0.003
HSK32A/E-CD25-200	25	200	0.002	0.003
HSK40A/E-CD30-200	30	200	0.002	0.003
HSK50A/E-CD30-250	30	250	0.002	0.003
HSK63A/E-CD40-300	40	300	0.002	0.003
HSK100A/E-CD50-300	50	300	0.002	0.003


 CD2304-01 BT/SK/CAT锁刀座


型号 Model No.	刀柄锥度	外形尺寸	重量
CD-BT30	BT30	205X98.5X128	3.7
CD-BT40	BT40	205X98.5X128	3.8
CD-BT50	BT50	275X150X198	11.4
CD-SK30	DIN69871.30	2015X98.5X128	3.7
CD-SK40	DIN69871.40	205X98.5X128	3.8
CD-SK50	DIN69871.50	275X150X198	11.4
CD-CAT30	CAT30	205X98.5X128	3.7
CD-CAT40	CAT40	205X98.5X128	3.8
CD-CAT50	CAT50	275X150X198	11.4

>>> CD2401-01 组合压板 CLAMPING KIT



货号: AI-58 58件/套机床组合压板
 Model:AL-58 58PCS.STEEL CLAMPING KIT

公制 MTRIC	英制 GB	美制 US
M8	5/16-18	5/16-18
M10	3/8-16	3/8-16
M12	1/2-12	1/2-13
M14		
M16	5/8-11	5/8-11
M18		
M20		
M22		
M24		



货号: AI-42 42件/套机床组合压板
 Model:AL-42 42PCS.STEEL CLAMPING KIT

公制 MTRIC	英制 GB	美制 US
M8	5/16-18	5/16-18
M10	3/8-16	3/8-16
M12	1/2-12	1/2-13
M14		
M16	5/8-11	5/8-11



货号: AI-36 36件/套机床组合压板
 Model:AL-36 36PCS.STEEL CLAMPING KIT

公制 MTRIC	英制 GB	美制 US
M8	5/16-18	5/16-18
M10	3/8-16	3/8-16
M12	1/2-12	1/2-13
M14		
M16	5/8-11	5/8-11

高速、高精度**刀具**系列

High speed high accuracy high durability end mill and face mill

立铣刀杆和端面铣刀盘特点：

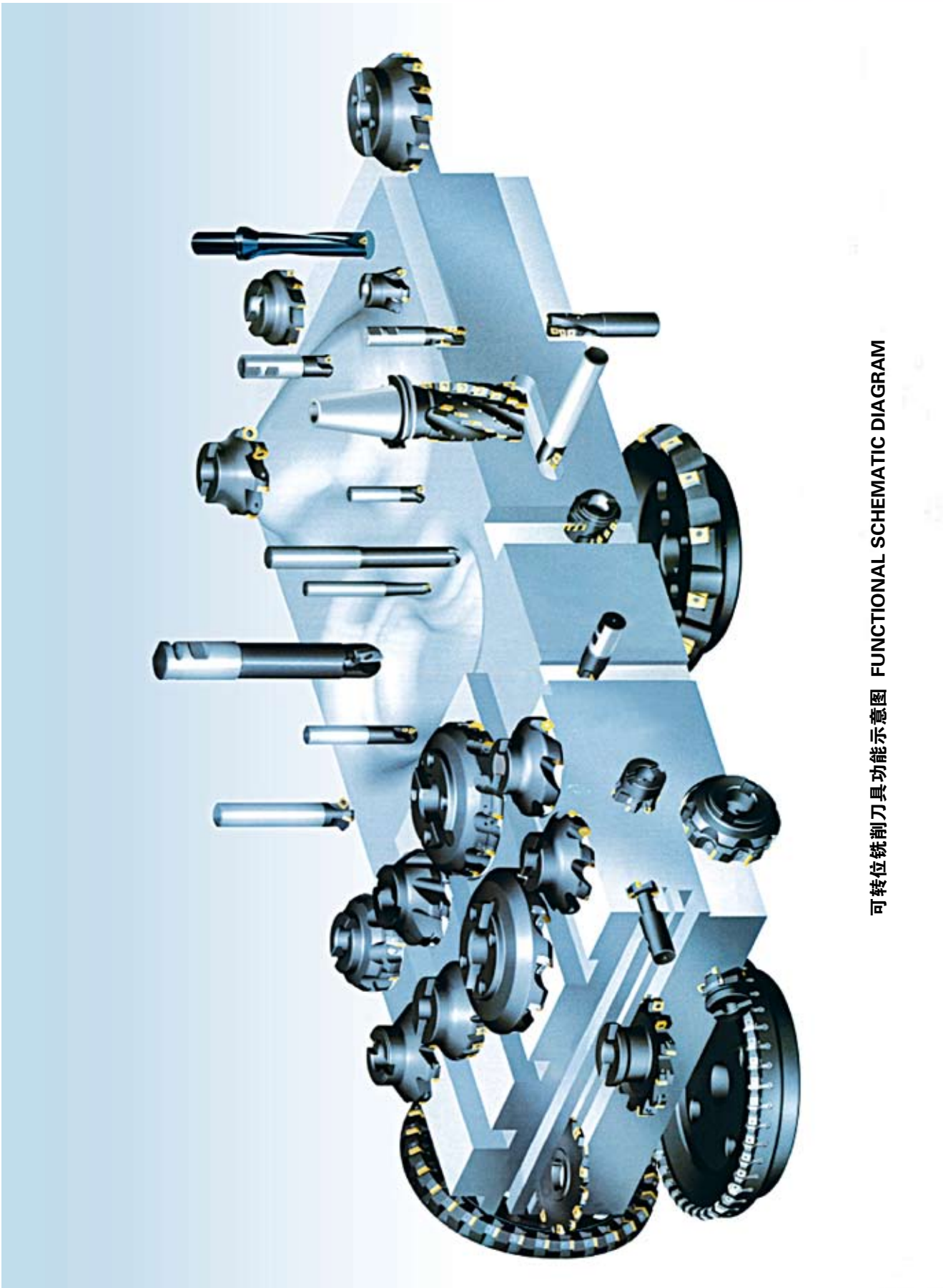
- ◆材料：42CrMo；
- ◆硬度：42-46HRC；
- ◆整体预硬化，然后再精细加工，提高加工精度。
- ◆检查刀片和铣刀本体之间的间隙用塞尺小于0.02，刀片用完在轴向和径向方向 ≤ 0.03 时，降低表面粗糙度和延长工具的寿命。
- ◆深冷处理
所有CNC铣刀和面铣刀超长冷处理，使残余奥氏体转变为马氏体、和纳米尺寸的碳化物颗粒的沉淀，提高工具，硬度，韧性，久性，并减少残余内应力。

Comprehensive features of end mill and face mill

- ◆Material: 42CrMo；
- ◆Hardness: 42-46HRC；
- ◆Overall pre-harden first, then fine processing, avoid transformation when proceed twice;
- ◆Inspect the gap between insert and milling body with feeler gauge less than 0.02, blade run out at axial and radial direction ≤ 0.03 , reduce the surface roughness and prolong tool's life.
- ◆Sub-zero treatment
All of the CNC end mills and face mills are processed long time sub-zero treatment Make the residual austenite into martensite and precipitate of nano-sized carbide particles, enhance tools' hardness, toughness, durability, and reduce the residual internal stress.
- ◆Thermal aging treatment
Long time thermal aging treatment can get rid of the residual internal stress in grinding process.

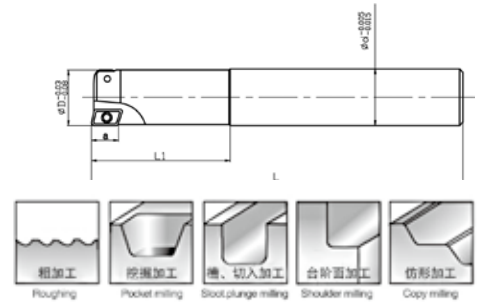


可转位数控刀具系列 INDEXABLE CNC TOOL SERIES



可转位铣削刀具功能示意图 FUNCTIONAL SCHEMATIC DIAGRAM

可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

 CD2501-01 TAP方肩铣刀杆 TAP RIGHT ANGLE SHOULDER END MILL


◇整体淬火后精加工进行深冷处理及热时效，避免二次加工产生变形

◇

型号 Model No.	刃数 No. of flutes	尺寸 Size						适用刀片 Applicable inserts	螺钉 Clamp screw	扳手 Wrench
		D	d	L	L1	L2	a			
TAP300R-10X120	1	10	10	120	30	-	9	APMT1135	A25050G M2.5x5	T8
TAP300R-12X100	1	12	12	100	30	-	9			
TAP300R-12X120	1	12	12	120	30	-	9			
TAP300R-12X130	1	12	12	130	36	-	9			
TAP300R-12X150	1	12	12	150	36	-	9			
TAP300R-13X120-C12	1	13	12	120	30	-	9			
TAP300R-13X150-C12	1	13	12	150	36	-	9			
TAP300R-16X120	2	16	16	120	40	-	9			
TAP300R-16X160	2	16	16	160	40	-	9			
TAP300R-16X160-C15.6	2	16	15.6	160	40	-	9			
TAP300R-16X180	2	16	16	180	40	90	9			
TAP300R-16X180-C15	2	16	15	180	40	-	9			
TAP300R-16X200	2	16	16	200	40	100	9			
TAP300R-16X160-C15	2	16	15	160	40	-	9			
TAP300R-17X160-C16	2	17	16	160	40	-	9			
TAP300R-17X200-C16	2	17	16	200	40	-	9			
TAP300R-20X120	2/3	20	20	120	40	-	9			
TAP300R-20X160	2/3	20	20	160	50	-	9			
TAP300R-20X160-C19	2/3	20	19	160	50	-	9			
TAP300R-20X180	2/3	20	20	180	50	90	9			
TAP300R-20X180-C19	2/3	20	20	180	45	-	9			
TAP300R-20X200	2/3	20	20	200	50	100	9			
TAP300R-20X200-C19	2/3	20	19	200	50	-	9			
TAP300R-21X160-C20	2/3	21	20	160	40	-	9			
TAP300R-21X180-C20	2/3	21	20	180	50	-	9			
TAP300R-21X200-C20	2/3	21	20	200	50	-	9			
TAP300R-25X160	3	25	25	160	50	-	9			
TAP300R-25X160-C24	3	25	24	160	50	-	9			
TAP300R-25X200	3	25	25	200	75	-	9			
TAP300R-25X200-C24	3	25	24	200	50	-	9			
TAP300R-26X160-C25	3	26	25	160	40	-	9			
TAP300R-26X200-C25	3	26	25	200	50	-	9			
TAP300R-30X160-C25	3	30	25	160	50	-	9			
TAP300R-30X200-C25	3	30	25	200	50	-	9			
TAP300R-30X250-C25	3	30	25	250	50	-	9			
TAP300R-30X300-C25	3	30	25	300	50	-	9			
TAP400R-25X160	2	25	25	160	50	-	14			
TAP400R-25X160-C24	2	25	24	160	50	-	14			
TAP400R-25X200	2	25	25	200	75	-	14			
TAP400R-25X200-C24	2	25	24	200	50	-	14			
TAP400R-25X250	2	25	25	250	50	115	14			
								APMT1604	A40090G M4x9	T15

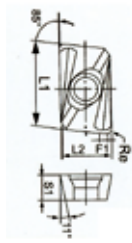
可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

CD2501-01 TAP 方肩铣刀 TAP RIGHT ANGLE SHOULDER END MILL

型号 Model No.	刃数 No. of flutes	尺寸 Size						适用刀片 Applicable inserts	螺钉 Clamp screw	扳手 Wrench
		D	d	L	L1	L2	a			
TAP400R-25X250-C24	2	25	24	250	50	-	14	APMT 1604	A40090G M4x9	T15
TAP400R-25X300	2	25	25	300	60	165	14			
TAP400R-26X160-C25	2	26	25	160	50	-	14			
TAP400R-26X200-C25	2	26	25	200	50	-	14			
TAP400R-26X250	2	26	25	250	50	-	14			
TAP400R-32X160-C25	2/3	32	25	160	50	-	14			
TAP400R-32X200-C25	2/3	32	25	200	50	-	14			
TAP400R-32X200	2/3	32	32	200	80	-	14			
TAP400R-32X250-C25	2/3	32	25	250	60	-	14			
TAP400R-32X250	2/3	32	32	250	60	115	14			
TAP400R-32X300	2/3	32	32	300	60	165	14			
TAP400R-32X350	2/3	32	32	350	60	165	14			
TAP400R-35X160-C32	3	35	32	160	50	-	14			
TAP400R-35X200-C32	3	35	32	200	50	-	14			
TAP400R-35X250-C32	3	35	32	250	60	-	14			
TAP400R-35X300-C32	3	35	32	300	60	-	14			
TAP400R-35X350-C32	3	35	32	350	60	-	14			
TAP400R-40X160-C32	3	40	32	160	50	-	14			
TAP400R-40X200-C32	3	40	32	200	50	-	14			
TAP400R-40X250-C32	3	40	32	250	60	-	14			
TAP400R-40X300-C32	3	40	32	300	60	-	14			
TAP400R-40X350-C32	3	40	32	350	60	-	14			

可配用刀片 INSERTS

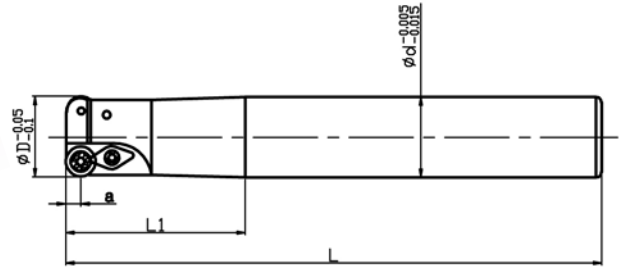
型号 Model No.	F7030	F620	VP15TF	UP20M	NX2525	NX4545	UT120T	HT110	NCM325	PC3535	PC3545	PC3530	PC6510	PD2000	H01	H101	H102	KC25	PP30	PC35	刀片形状 Insert shape	尺寸 Size (mm)					
																						L1	L2	S1	F1	Re	
APMT1135-H1	●	●	●★	●	●	●	●	●														11	6.35	3.5	1.5	0.4	MITSUBISHI(三菱)
APMT1135-H2	●	●	●★	●	●	●	●	●														11	6.35	3.5	1.2	0.8	
APMT1135-H3	●	●		●			●															11	6.35	3.5	0.8	1.2	
APMT1135-H4	●	●		●			●															11	6.35	3.5	0.4	1.6	
APMT1135-H6	●	●		●			●															11	6.35	3.5	0.4	2.4	
APMT1135-MO	●																					11	6.35	3.5	1.8	0.2	
APMT1135-M1	●																					11	6.35	3.5	1.5	0.4	
APMT1135-M2	●	●	●★			●																11	6.35	3.5	1.2	0.8	
APGT1135-G2								●														11	6.35	3.5	1.2	0.8	
APMT1604-H1	●		●				●															16.5	9.525	4.76	1.7	0.4	
APMT1604-H2	●	●	●★	●	●	●★	●	●														16.5	9.525	4.76	1.7	0.8	
APMT1604-H4	●						●															16.5	9.525	4.76	1.7	1.6	
APMT1604-H6	●						●															16.5	9.525	4.76	1.7	2.4	
APMT1604-H8	●						●															16.5	9.525	4.76	1.7	3.2	
APGT1604-M2	●	●	●★			●																16.5	9.525	4.76	1.7	0.8	
APMT1604-G2	●							●														16.5	9.525	4.76	1.7	0.8	
APKT1604									●	●	●	●	●									16.4	9.525	4.76	-	0.8	
APKT1604-MA														●	●							16.4	9.525	4.76	-	0.8	



刀片形状
Insert shape

KOPELOX
刀片

可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

 >>> CD2502-01 EMR/EMRW/TRS 圆鼻立铣刀
 EMR/EMRW/TRS ROUND DOWEL END MILL


- ◇ 整体淬火后精加工进行深冷处理及热时效，避免二次加工产生变形
- ◇ Overall pre-hard first, then fine processing, avoid transformation when proceed twice

型号 Model No.	刃数 No. of flutes	尺寸 Size(mm)						适用刀片 Applicable inserts	压板 Clamp piece	螺钉 Clamp screw	扳手 Wrench
		D	d	L	L1	L2	a				
4Rx12x120	1	12	12	120	40	-	4	RPMW0802MO	-		
4Rx13x120-C12	1	13	12	120	40	-	4				
4Rx16x120-C15	2	16	15	120	40	-	4				
4Rx16x120	2	16	16	120	40	-	4				
4Rx16x160	2	16	16	160	40	-	4				
4Rx16x160-C15	2	16	15	160	40	-	4				
4Rx16x150-C15.6	2	16	15.6	150	40	-	4				
4Rx16x160-C15.6	2	16	15.6	160	40	-	4				
4Rx16x180	2	16	16	180	40	90	4				
4Rx16x180-C15.6	2	16	15.6	180	40	-	4				
4Rx16x200	2	16	16	200	40	100	4				
4Rx16x200-C15	2	16	15	200	40	-	4	RPMW0802MO	A-4R	A30070G M3x7	T10
4Rx17x120-C16	2	17	16	120	40	-	4				
4Rx17x160-C16	2	17	16	160	40	-	4				
4Rx17x200-C16	2	17	16	200	40	-	4				
4Rx20x160	2	20	20	160	50	-	4				
4Rx20x160-C19	2	20	19	160	50	-	4				
4Rx20x180	2	20	20	180	50	90	4				
4Rx20x180-C19	2	20	19	180	50	-	4				
4Rx20x200	2	20	20	200	50	100	4				
4Rx20x200-C19	2	20	19	200	50	-	4				
4Rx21x160-C20	2	21	20	160	50	-	4				
4Rx21x200-C20	2	21	20	200	50	-	4				
5R/6Rx20x160	2	20	20	160	50	-	5				
5R/6Rx20x160-C19	2	20	19	160	50	-	5				
5R/6Rx20x180	2	20	20	180	50	90	5	RPMW1003MO RPMT10T3MOE			
5R/6Rx20x200	2	20	20	200	50	100	5				
5R/6Rx21x160-C20	2	21	20	160	50	-	5				
5R/6Rx21x200-C20	2	21	20	200	50	-	5				
5R/6Rx25x160	2	25	25	160	50	-	5				
5R/6Rx25x160-C20	2	25	20	160	50	-	5				
5R/6Rx25x160-C24	2	25	24	160	50	-	5				
5R/6Rx25x180	2	25	25	180	50	-	5				
5R/6Rx25x200	2	25	25	200	75	-	5				
5R/6Rx25x250	2	25	25	250	60	115	5	RPMW1003MO RPMT10T3MOE RPMT1204MO PDMW1204MO	A-6R	A40090G M4x9 A35100F M3.5x10	T15

可转位数控刀具系列 INDEXABLE CNC TOOL SERIES




CD2502-01 EMR/EMRW/TRS 圆鼻立铣刀
EMR/EMRW/TRS ROUND DOWEL END MILL

型号 Model No.	刃数 No. of flutes	尺寸 Size						适用刀片 Applicable inserts	压板 Clamp piece	螺钉 Clamp screw	扳手 Wrench
		D	d	L	L1	L2	a				
5R/6Rx25x300	2	25	25	300	60	165	5	RPMW1003MO RPMT10T3MOE RPMW1204MO RDMW1204MO	A-6R	A40090G M4X9 A35100F M3.5X10	T15
5R/6Rx25x200-C20	2	25	20	200	50	-	5				
5R/6Rx25x200-C24	2	25	24	200	50	-	5				
5R/6Rx25x250-C24	2	25	24	250	60	-	5				
5R/6Rx26x160-C24	2	26	25	160	50	-	5				
5R/6Rx26x200-C25	2	26	25	200	50	-	5				
5R/6Rx30x110-C20	2	30	20	110	40	-	5				
5R/6Rx30x110-C19.05	2	30	19.05	110	40	-	5				
5R/6Rx30x160-C25	2	30	25	160	50	-	5				
5R/6Rx30x200-C25	2	30	25	200	60	-	5				
5R/6Rx30x250-C25	2	30	25	250	60	-	5				
5R/6Rx30x300-C25	2	30	25	300	60	-	5				
5R/6Rx30x300-C32	2	30	32	300	60	-	5				
5R/6Rx35x160-C32	2/3	35	32	160	50	-	5				
5R/6Rx35x200-C32	2/3	35	32	200	50	-	5				
5R/6Rx35x250-C32	2/3	35	32	250	60	-	5				
5R/6Rx35x300-C32	3	35	32	300	60	-	5				
5R/6Rx35x350-C32	3	35	32	350	60	-	5				
5R/6Rx40x160-C32	3/4	40	32	160	50	-	5				
5R/6Rx40x200-C32	4	40	32	200	50	-	5				
5R/6Rx40x250-C32	4	40	32	250	60	-	5				
5R/6Rx40x300-C32	4	40	32	300	60	-	5				
5R/6Rx40x350-C32	4	40	32	350	60	-	5				
5R/6Rx50x200-C32	4	50	32	200	60	-	5				
5R/6Rx50x250-C32	4	50	32	250	60	-	5				
5R/6Rx50x300-C32	4	50	32	300	60	-	5				
5R/6Rx50x350-C32	4	50	32	350	60	-	5				



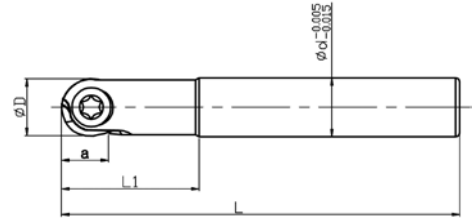
建议用环保节能型
Suggest to use energy saving type

可配用刀片 INSERTS

型号 Model No.	UP20M	NX2525	UT120T	F7030	VP15TF	SH8020	SH8250	JC3535	NIT	NAT	UMS	DX25	KT9	H101	H102	KC25	PP30	PC35	刀片形状 Insert shape	尺寸 Size (mm)					
																				D1	S1	排屑槽			
RPMW1003MO	●	●	●																		10	3.18	无	MITSUBISHI (三菱)	
RPMT10T3MOE				●	●	★															10	3.97	有		
RPMW1003MO						●	★	●	★													10	3.18	无	HITACHI(日立)
RPMW0802MO								●	●	●	●	●	●	●								8	2.38	无	DIJET(黛杰)
RPMW1003MO								●	●	●	●	●	●	●								10	3.18	无	
型号 Model No.	CY101H	CY45	CY25	CY150	CY250	GF30	TB6005	TB6020	TB6045	TB6060	PTH08M	WH10	H101	H102	KC25	PP30	PC35	刀片形状 Insert shape	尺寸 Size (mm)						
型号 Model No.																			D1	S1	排屑槽				
RDMW0501MOEN					●	★					●	★									5	1.59	无	HITACHI(日立)	
RDMW0702MOEN					●	★					●	★									7	2.37	无		
RDHW0802MOTN				●	●	●			●	●											8	2.38	无		
10T3MOTN				●	●	●			●	●											10	3.97	无		
1204MOTN				●	●	●			●	●											12	4.76	无		
1604MOTN				●	●	●			●	●											16	4.76	无		
RDMT0802MOTN			●	●	●	★	●	★	●	●	●										8	2.38	有		
0802MOEN	●											●									8	2.38	有		
10T3MOTN			●	●	●	★	●	★	●	●	●										10	3.97	有		
10T3MOEN	●											●									10	3.97	有		
1204MOTN				●	●	★	●	★	●	●	●										12	4.76	有		
1204MOEN												●									12	4.76	有		
RDMW10T3MO																	●				10	3.97	无		
1204MO																	●	●	★		12	4.76	无	WALTER (瓦尔特)	

可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

CD2503-01 T2139 球形精铣刀 T2139 COPY END FINE MILL



- ◇ 整体淬火后精加工进行深冷处理及热时效，避免二次加工产生变形
- ◇ Overall pre-hard first, then fine processing, avoid transformation when proceed twice

型号 Model No.	尺寸 Size (mm)					适用刀片 Applicable inserts	螺钉 Clamp screw	扳手 Wrench
	D	d	L	L1	a			
T2139-4Rx110-C8	8	8	110	25	5	P320□-D08	A30070J-4R	T8
T2139-4Rx110-C10	8	10	110	25	5			
T2139-4Rx140-C12	8	12	140	55	5			
T2139-5Rx130-C10	10	10	130	30	7	P320□-D10	A40090J-5R	T15
T2139-5Rx130-C12	10	12	130	30	7			
T2139-5Rx160-C10	10	10	160	30	7			
T2139-5Rx160-C12	10	12	160	30	7	P320□-D12	A50090J-6R	T20
T2139-6Rx130-C12	12	12	130	32	8			
T2139-6Rx160-C12	12	12	160	32	8			
T2139-6Rx160-C16	12	16	160	58.5	8	P320□-D16	A50130J-8R	T20
T2139-8Rx160-C16	16	16	160	65	10			
T2139-8Rx200-C16	16	16	200	65	10			
T2139-8Rx200-C20	16	20	200	65	10	P320□-D20	A50165J-10R	T30
T2139-10Rx160-C20	20	20	160	45	12.5			
T2139-10Rx200-C20	20	20	200	76	12.5			
T2139-10Rx250-C25	20	25	250	120	12.5	P320□-D25	A60210J-12.5R	T30
T2139-12.5Rx160-C25	25	25	160	45	15			
T2139-12.5Rx200-C25	25	25	200	76	15			
T2139-12.5Rx200-C32	25	32	200	98	15	P320□-D30	A8025J-15R/16R	T30
T2139-12.5Rx250-C32	25	32	250	120	15			
T2139-15Rx200-C32	30	32	200	80	18			
T2139-15Rx250-C40	30	40	250	121	18	P320□-D32	A8025J-15R/16R	T30
T2139-16Rx200-C32	32	32	200	80	19			
T2139-16Rx250-C40	32	40	250	121	19			

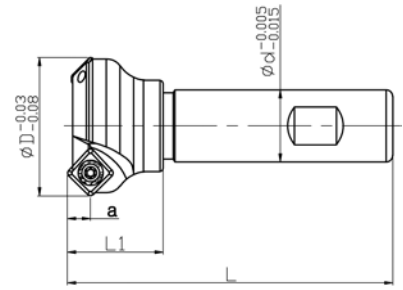
可配用刀片 INSERTS

型号 Model No.	WTA61	WAP25	WAP35	WXM35	WAK15	NX25 25	WXH15	WCB50	WCB80	刀片形状 Insert shape	尺寸 Size (mm)			
											DC	D1	L1	S
P320□-D08	●	●	●★	●	●	●★	●	●	●		8	3	4	2.0
-D10	●★	●	●	●	●	●★	●	●	●		10	4	5	2.5
-D12	●★	●	●	●	●	●★	●	●	●		12	5	6	2.5
-D16	●★	●	●	●	●	●★	●	●	●		16	5	6	3.0
-D20	●★	●	●	●	●	●★	●	●	●		20	5	6	3.0
-D25	●★	●	●	●	●	●★	●	●	●		25	6	9	4.0
-D30	●	●	●	●	●	●	●	●	●		30	8	10	5.0
-D32	●	●	●	●	●	●	●	●	●		32	8	10	5.0

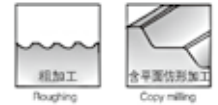
可订制日立、戴杰刀片精铣刀杆 Can be custom-made Hitachi, Dijet insert end mill

可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

CD2504-01 KM 45° 立铣刀杆 KM END MILL



- ◇ 整体淬火后精加工进行深冷处理及热时效，避免二次加工产生变形
- ◇ Overall pre-hard first, then fine processing, avoid transformation when proceed twice



型号 Model No.	刃数 No. of flutes	尺寸 Size					适用刀片 Applicable inserts	螺钉 Clamp screw	扳手 Wrench
		D	d	L	L1	a			
KM09-25x120-C20	4	25	20	120	-	4.5	SEEX09T3	A30070E M3x7	T8
KM09-25x120-C25	4	25	25	120	32	4.5			
KM09-32x120-C25	4	32	25	120	-	4.5			
KM09-32x120-C32	4	32	32	120	32	4.5			
KMO12-32x120-C20	3	32	20	120	-	6	SEHT1204	A50110D M5x11	T20
KMO12-32x120-C25	3	32	25	120	-	6			
KMO12-40x120-C20	3	40	20	120	-	6			
KMO12-40x120-C25	3	40	25	120	-	6			
KMO12-40x120-C32	3	40	32	120	-	6			
KM12-50x120-C20	3	50	20	120	-	6			
KM12-50x120-C25	3	50	25	120	35	6			
KM12-50x120-C32	3	50	32	120	35	6			
KM12-63x120-C20	3	63	20	120	-	6	45度铣刀杆 组 装 图 接柄		
KM012-63x120-C25	3	63	25	120	35	6			
KM012-63x120-C32	3	63	32	120	35	6			

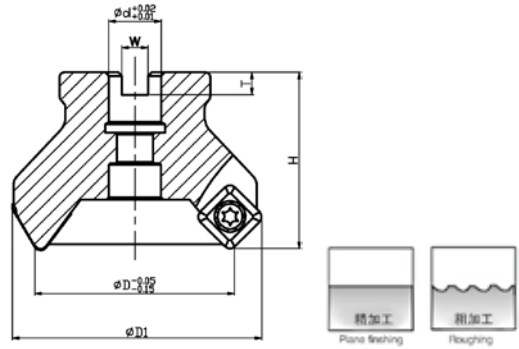
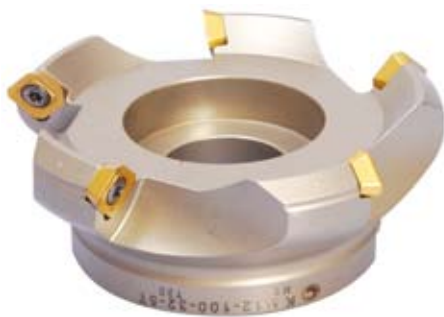


可配用刀片 INSERTS

型号 Model No.	WAP25	WAP35	WTP35	WXP45	WPM	WXM35	WAK15	WAK25	WKM	WK10	NCM25	PC3535	PC6510	PC230	CN30	H01	刀片形状 Insert shape	尺寸 Size (mm)			
																		D1	S1	排屑槽	
SEHT 1204AFN		●	●	●		●				●								12.7	4.76	有	WALTER (瓦尔特)
1204AFN-K88										●								12.7	4.76	有	
SEHW 1204AFN	●	●	●		●	●	●	●										12.7	4.76	无	KORLOY (克劳伊)
SECA 1204AFSN											●	●						12.7	4.76	无	
1204AFTN													●	●	●			12.7	4.76	无	
1204AFFN													●					12.7	4.76	无	
1204AFEN											●							12.7	4.76	无	
SEHT 1204AFFN-M															●			12.7	4.76	无	
型号 Model No.	PT25	PFZ	MP91M	PMG	GH1	SK10	刀片形状 Insert shape										尺寸 Size (mm)				
							D1	S1	排屑槽												
SEET 1204AFSN-M01	●							12.7	4.76	有	STELLRAW (斯特拉姆)										
1204AFFN-F01				●				12.7	4.76	有											
SEET 1204AF4B		●	●					12.7	4.76	有											
1204FFN					●			12.7	4.76	有											
SEHW 1204AFN						●		12.7	4.76	无											

可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

CD2505-01 KM - 45° 面铣刀盘 KM - 45° FACE MILL



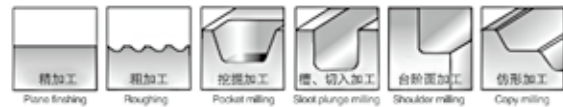
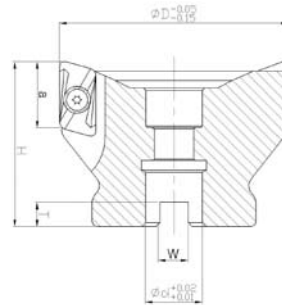
配有钢件、铸件、铝件、多种材质刀片
Match blade with difference material, such as steel, Casting and Aluminum

型号 Model No.	尺寸 Size						圆垫片 Circular cushion	通用刀片 Applicable inserts	螺钉 Clamp screw	扳手 Wrench
	D	D1	d	H	W	T				
KM09 - 50 - 22 - 4T	50	64	22	50	10.4	6.3	-	SEEX 09T3	A30070E M3x7	T8
KM09 - 63 - 22 - 4T	63	77	22	50	10.4	6.3	-			
KM12 - 50 - 22 - 4T	50	64	22	50	10.4	6.3	-	SEKT 1204	A501105D M5x11	T20
KM12 - 63 - 22 - 4T	63	77	22	50	10.4	6.3	-			
KM12 - 80 - 27 - 5T	80	94	27	50	12.4	7	-			
KM12 - 100 - 32 - 5T	100	114	32	50	14.4	8	FMB - 32 - SHIM			
KM12 - 125 - 40 - 6T	125	139	40	63	16.4	9	FMB - 40 - SHIM			
KM12 - 160 - 40 - 9T	160	174	40	63	16.4	9	FMB - 40 - SHIM			
KM12 - 50 - 25.4 - 4T	50	64	25.4	50	10	6	-			
KM12 - 63 - 25.4 - 4T	63	77	25.4	50	10	6	-			
KM12 - 80 - 25.4 - 5T	80	94	25.4	50	10	6	-			
KM12 - 100 - 31.75 - 5T	100	114	31.75	50	13	8	FMB - 31.75 - SHIM			
KM12 - 125 - 38.1 - 6T	125	139	38.1	63	16.2	10	FMB - 38.1 - SHIM			
KM12 - 160 - 38.1 - 6T	160	174	38.1	63	16.2	10	FMB - 38.1 - SHIM			
KM12 - 200 - 38.1 - 9T	200	214	38.1	63	16.2	10	FMB - 38.1 - SHIM			
KM12 - 250 - 60 - 12T	250	264	60	63	16.2	10	FMB - 60 - SHIM			

型号 Model No.	WAP25	WAP35	WTP35	WXP45	WPM	WXM35	WAK15	WAK25	WKM	WK10	NCM325	PC3535	PC9350	PC6510	PC230	CN30	H01	刀片形状 Insert shape	尺寸 Size (mm)			
																			D1	S1	排屑槽	
SEHT 1204AFN	●	●	●	●					●										12.7	4.76	有	WALTER (瓦尔特)
1204AFN-K88									●										12.7	4.76	有	
SEHW 1204AFN	●	●	●	●	●	●	●	●											12.7	4.76	无	KORLOY (克劳伊)
SECA 1204AFSN											●	●							12.7	4.76	无	
1204AFTN													●		●	●		12.7	4.76	无		
1204AFFN													●					12.7	4.76	无		
1204AFEN										●								12.7	4.76	无		
SEHT 1204AFFN-M																	●	12.7	4.76	无		
型号 Model No.	H101	H102	KC25	PP30	PC35	PLE25	PFZ	MP91M	PMG	GH1	SK10	刀片形状 Insert shape					尺寸 Size (mm)					
																		D1	S1		排屑槽	
SEET 1204AFSN-M01						●													12.7	4.76	有	STELLRAM (斯特拉姆)
1204AFFN-F01									●										12.7	4.76	有	
SEHT 1204AF4B																			12.7	4.76	有	
1204AFFN										●									12.7	4.76	有	
SEHW 1204AFN											●							12.7	4.76	无		

可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

CD2506-01 TAP 方肩铣刀盘 TAP RIGHT ANGLE SHOULDER FACE MILL



型号 Model No.	尺寸 Size (mm)						圆垫片 Circular cushion	通用刀片 Applicable inserts	螺钉 Clamp screw	扳手 Wrench
	D	d	H	W	T	a				
TAP400R - 50 - 22 - 4T	50	22	50	10.4	6.3	14	-	APMT 1604 PDER	A40100J M4x10	T15
TAP400R - 63 - 22 - 4T	63	22	50	10.4	6.3	14	-			
TAP400R - 63 - 22 - 5T	63	22	50	10.4	6.3	14	-			
TAP400R - 80 - 27 - 6T	80	27	50	12.4	7	14	-			
TAP400R - 100 - 32 - 6T	100	32	50	14.4	8	14	FMB - 32 - SHIM			
TAP400R - 125 - 40 - 6T	125	40	63	14.4	8	14	FMB - 40 - SHIM			
TAP400R - 160 - 40 - 9T	160	40	63	14.4	8	14	FMB - 40 - SHIM			
TAP400R - 200 - 60 - 9T	200	60	63	25.7	14	14	-			
TAP400R - 200 - 60 - 12T	200	60	63	25.7	14	14	-			
TAP400R - 250 - 60 - 12T	250	60	63	25.7	14	14	-			
TAP400R - 50 - 25.4 - 4T	50	25.4	50	10	6	14	-			
TAP400R - 63 - 25.4 - 4T	63	25.4	50	10	6	14	-			
TAP400R - 63 - 25.4 - 5T	63	25.4	50	10	6	14	-			
TAP400R - 80 - 25.4 - 6T	80	25.4	50	10	6	14	-			
TAP400R - 100 - 31.75 - 6T	100	31.75	50	13	8	14	FMB - 31.75 - SHIM			

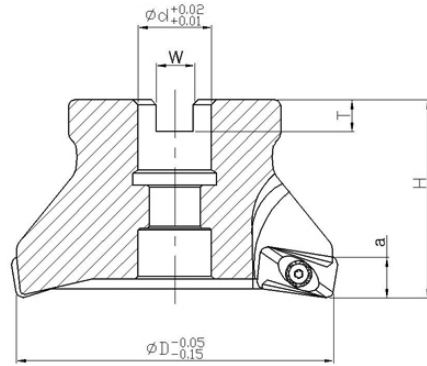
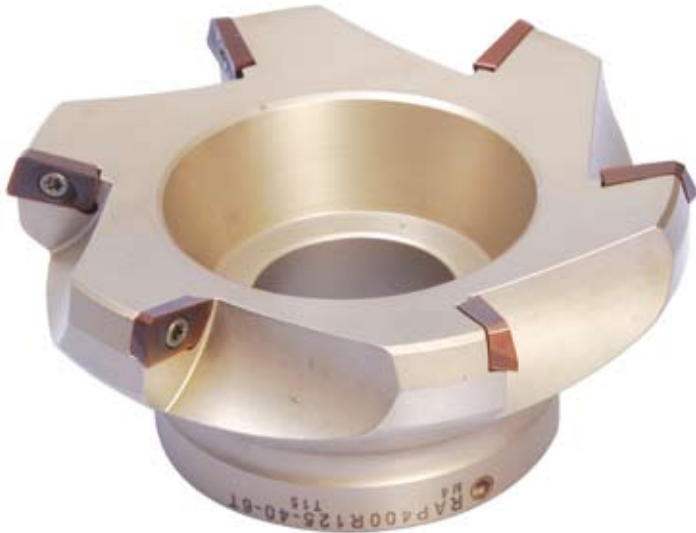
注：接受非标定制
Notice: accept nonstandard as custom order

可配用刀片 INSERTS

型号 Model No.	F7030	F620	VP15TF	UP20M	NX2525	NX4545	UT120T	HT110	NCM325	PC3535	PC3545	PC3530	PC6510	PD2000	H01	H101	H102	KC25	PP30	PC35	刀片形状 Insert shape	尺寸 Size (mm)						
	L1	L2	S1	F1	Re																							
APMT1604PDER - H1	●		●			●																16.5	9.525	4.76	1.7	0.4	MTSUBISHI (山崎)	
APMT1604PDER - H2	●	●	●	●	●	●																16.5	9.525	4.76	1.7	0.8		
APMT1604PDER - H4	●					●																16.5	9.525	4.76	1.7	1.6		
APMT1604PDER - H6	●					●																16.5	9.525	4.76	1.7	2.4		
APMT1604PDER - H8	●					●																16.5	9.525	4.76	1.7	3.2		
APMT1604PDER - M2	●	●	●		●																	16.5	9.525	4.76	1.7	0.8		
APGT1604PFDR - G2	●						●															16.5	9.525	4.76	1.7	0.8		
APKT1604PDSR								●	●	●	●	●	●									16.4	9.525	4.76	-	0.8		克劳伊 KORLOY
1604PDR - MA														●	●							16.4	9.525	4.76	-	0.8		

可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

CD2507-01 RAP 75° 面铣刀盘 RAP FACE MILL



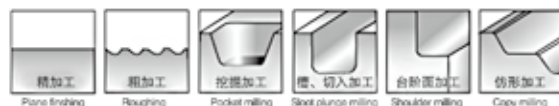
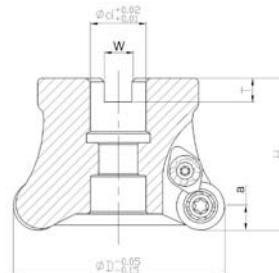
型号 Model No.	尺寸 Size (mm)						圆垫片 Circular cushion	通用刀片 Applicable inserts	螺钉 Clamp screw	扳手 Wrench
	D	d	H	W	T	a				
RAP400R-63-22-4T	63	22	50	10.4	6.3	8	-	APMT1604PDER	A40100J M4x10	T15F T15
RAP400R-80-27-5T	80	27	50	12.4	7	8	-			
RAP400R-100-32-6T	100	32	50	14.4	8	8	FMB-32-SHIM			
RAP400R-125-40-6T	125	40	63	16.4	9	8	FMB-40-SHIM			
RAP400R-160-40-6T	160	40	63	16.4	9	8	FMB-40-SHIM			
RAP400R-200-60-9T	200	60	63	25.7	14	8	-			
RAP400R-250-60-9T	250	60	63	25.7	14	8	-			
RAP400R-63-25.4-4T	63	25.4	50	10	6	8	-			
RAP400R-80-25.4-5T	80	25.4	50	10	6	8	-			
RAP400R-100-31.75-6T	100	31.75	50	13	8	8	FMB-31.75-SHIM			

可配用刀片 INSERTS

型号 Model No.	F7030	F620	VP15TF	UP20M	NX2525	NX4545	UT120T	HT110	NCM325	PC3535	PC3545	PC3530	PC6510	PD2000	H01	H101	H102	KC25	PP30	PC35	刀片形状 Insert shape	尺寸 Size (mm)						
	L1	L2	S1	F1	Re																							
APMT1604PDER-H1	●		●				●															16.5	9.525	4.76	1.7	0.4	MITSUBISHI(三菱)	
1604PDER-H2	●	●	●★	●	●	●★	●															16.5	9.525	4.76	1.7	0.8		
1604PDER-H4	●						●															16.5	9.525	4.76	1.7	1.6		
1604PDER-H6	●						●															16.5	9.525	4.76	1.7	2.4		
1604PDER-H8	●						●															16.5	9.525	4.76	1.7	3.2		
APMT1604PDER-M2	●	●	●			●																16.5	9.525	4.76	1.7	0.8		
APGT1604PFDR-G2	●						●															16.5	9.525	4.76	1.7	0.8		
APKT1604PDSR								●	●	●	●	●										16.4	9.525	4.76	-	0.8		KORLOY 肯纳金属
1604PDFR-MA													●	●								16.4	9.525	4.76	-	0.8		

可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

CD2508-01 EMR/TPS/EMRW 仿型铣刀盘 EMR/TPS/EMRW ROUND DOWEL FACE MILL



型号 Model No.	尺寸 Size (mm)						圆垫片 Circular cushin	通用刀片 Applicable inserts	压板 Clamp piece	螺钉 Clamp screw	扳手 Wrench
	D	d	H	W	T	a					
5R-50-22-4T	50	22	50	10.4	6.3	5	-	RPMW1003MO RPMW10T3MOE	A-5R	A40100J/A35100F M4x10/N3.5x10	T15F T15
5R-63-22-4T	63	22	50	10.4	6.3	5	-				
5R-63-22-5T	63	22	50	10.4	6.3	5	-				
5R-80-27-6T	80	27	50	12.4	7	5	-				
5R-100-32-6T	100	32	50	14.4	8	5	FMB-32-SHIM	RPMWT1204MO	A-6R	A40100J M4x10	
6R-50-22-4T	50	22	50	10.4	6.3	6	-				
6R-63-22-4T	63	22	50	10.4	6.3	6	-				
6R-63-22-5T	63	22	50	10.4	6.3	6	-				
6R-80-27-6T	80	27	50	12.4	7	6	-				
6R-100-32-6T	100	32	50	14.4	8	6	FMB-32-SHIM				
6R-125-40-6T	125	40	63	16.4	9	6	FMB-40-SHIM				
6R-160-40-9T	160	40	63	16.4	9	6	FMB-40-SHIM				
6R-200-60-9T	200	60	63	25.7	14	6	-				

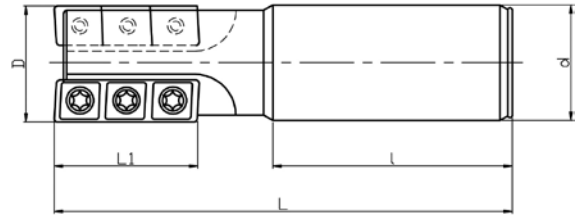
注：接受非标订制
Notice: accept nonstandard as custom order

可配用刀片 INSERTS

型号 Model No.	F7030	F620	VP15TF	NX4545	UT120T	TN100M	PR510	PR660	PP730	KW10	H101	H102	KC25	PP30	PC35	刀片形状 Insert shape	尺寸 Size (mm)						
	D1	S1	排屑槽																				
RPMT1204MOE-JS	●	●*	●*														12	4.76	有	MITSUBISHI (三菱)			
RPMT1204MO							●	●	●	●							12	4.76	有	KYOCERA (京瓷)			
RPMT1204MO-H						●	●	●	●								12	4.76	有	KYOCERA (京瓷)			
RPMW1204MOE	●	●		●	●	●											12	4.76	无	MITSUBISHI (三菱)			
RPMW1204MOT			●														12	4.76	无	MITSUBISHI (三菱)			
型号 Model No.	UP20M	NX2525	UT120T	F7030	VP15TF	SH8020	SH8250	JC3535	NIT	NAT	UMS	DX25	KT9	H101	H102	KC25	PP30	PC35	刀片形状 Insert shape	尺寸 Size (mm)			
D1	S1	排屑槽																					
PMW1003MO	●	●	●																	10	3.18	无	MITSUBISHI (三菱)
PMT10T3MOE				●	●															10	3.97	有	MITSUBISHI (三菱)
PMW1003MOEN						●*	●*													10	3.18	无	HITACHI (日立)
PMW1003MO								●	●	●	●	●	●							10	3.18	无	DIJET(黛杰)

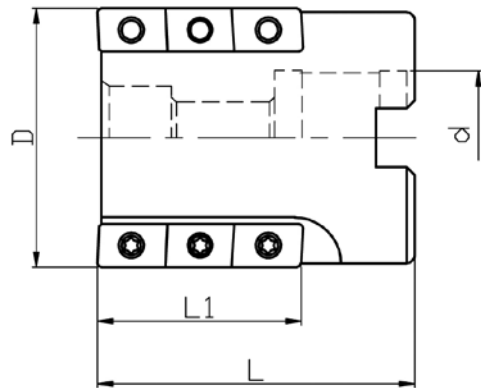
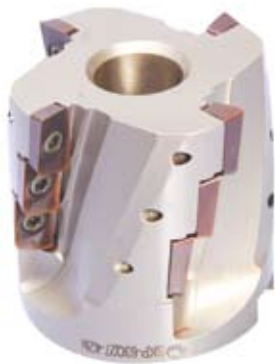
可转位数控刀具系列 INDEXABLE CNC TOOL SERIES

>>> CD2509-01 EKP 粗切削玉米铣刀 EKP ROUGHING CUT CORN MILLING CUTTER



型号 Model No.	D	d	L	l	L1	刃数 No. of flutes	刀片数 Blade number	刀片 Blade	刀片螺丝 Blade screw	扳手 wrench
EKP-16R3232-42M	32	32	120	60	42	2	6	AP..1604	RS-010-M4	T15
EKP-16R3232-70M	32	32	150	60	70	2	10	AP..1604	RS-010-M4	T15
EKP-16R4032-56M	40	32	135	60	56	3	12	AP..1604	RS-010-M4	T15
EKP-16R4032-70M	40	32	160	70	70	3	14	AP..1604	RS-010-M4	T15
EKP-16R5042-70M	50	42	170	70	70	3	14	AP..1604	RS-010-M4	T15
EKP-16R5050.8-112M	50	50.8	220	80	112	3	24	AP..1604	RS-010-M4	T15

>>> CD2509-02 SKP 粗切削玉米铣刀 SKP ROUGHING CUT CORN MILLING CUTTER



型号 Model No.	D	d	L	L1	刃数 No. of flutes	刀片数 Blade number	刀片 Blade	刀片螺丝 Blade screw	扳手 wrench
SKP-50Q22-42M	50	22	55	42	3	9	AP..1604	RS-010-M4	T15
SKP-63Q27-42M	63	27	63	42	4	12	AP..1604	RS-010-M4	T15
SKP-80Q32-70M	80	32	85	70	5	25	AP..1604	RS-010-M4	T15

高效钨钢抗震铣、镗刀杆

HIGH EFFICIENCY HIGH SPEED HIGH HARDNESS
ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR

钨钢抗震刀杆加工特点:

Processing Advantages of Administrator-shock Cutting Tool:

提高表面光洁度，提升加工质量

Improve The Surface Finish,Vertical Degree.

提高尺寸精准度

Improve the Dimension Precision.

适合大悬伸工件加工

Suitable For Large Overhanging Workpiece Machining.

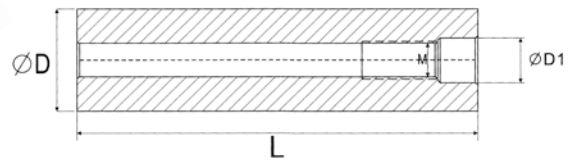
节省刀片，降低成本

Save Blade,Reduce The Cost.

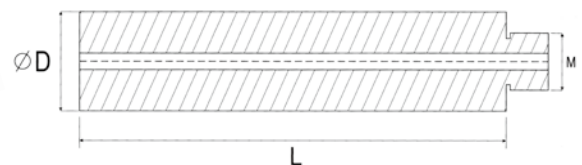
一杆多用省时省力

A Multi-Purpose Rod Which Save Time And Effort.



钨钢抗震铣、镗刀杆 ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR
**CD2601-01 锁牙式抗震刀杆MFT系列
 ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR**


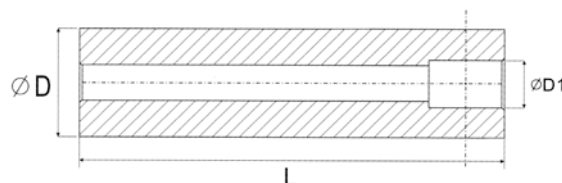
型号Model No.	L(mm)	ΦD	$\Phi D1$	M
MFT09-08-100-M4	100	$\Phi 8$	$\Phi 4.5$	M4
MFT11-10-(80-150)-M5	80-150	$\Phi 10$	$\Phi 5.5$	M5
MFT13-12-(100-200)-M6	100-200	$\Phi 12$	$\Phi 6.5$	M6
MFT16-15-(100-200)-M8	100-200	$\Phi 15$	$\Phi 8.5$	M8
MFT16-15.6-(150-250)-M8	100-200	$\Phi 15.6$	$\Phi 8.5$	M8
MFT17-16-(100-300)-M8	100-300	$\Phi 16$	$\Phi 8.5$	M8
MFT20-19-(150-250)-M10	150-250	$\Phi 19$	$\Phi 10.5$	M10
MFT21-20-(100-300)-M10	100-300	$\Phi 20$	$\Phi 10.5$	M10
MFT25-24-(150-300)-M12	150-300	$\Phi 24$	$\Phi 12.5$	M12
MFT26-25-(150-300)-M12	150-300	$\Phi 25$	$\Phi 12.5$	M12
MFT35-32-(200-400)-M16	200-400	$\Phi 32$	$\Phi 17$	M16

**CD2601-02 钨钢抗震镗刀杆ST系列
 ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR**


型号Model No.	L(mm)	ΦD	M	适用镗孔头 Applicable Carbide Tool Holder
ST08-M5-100L	100	$\Phi 8$	M5	BE09A, BE10.5A
ST10-M6-100L	100	$\Phi 10$	M6	BE12A
ST10-M6-150L	150			
ST12-M6-(100-200)L	100-200	$\Phi 12$	M6	BE14A, BE16A
ST14-M6-(M10)-(150-200)L	150-200	$\Phi 14$	M6(M10)	BE14A, BE16A
ST16-M10-(100-250)L	100-250	$\Phi 16$	M10	BE18A BE20A BE22A BE24A BE26A BE28A BE30A BE32A BE34A BE36A BE38A BE40A
ST20-M10-(100-250)L	100-250	$\Phi 20$	M10	BE22A- BE40A

钨钢抗震铣、镗刀杆 ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR

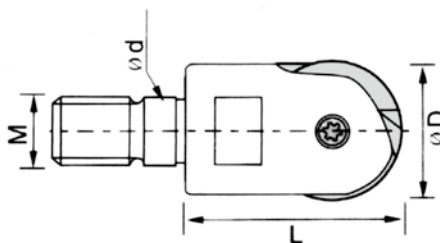
CD2601-03 钨钢抗震镗刀杆SC系列
ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR



型号Model No.	L(mm)	ΦD	$\Phi D1$	适用镗孔头 Applicable Carbide Tool Holder	加工范围 (mm) Range of Processing
SC19-LBK1-(150-250)L	150-250	$\Phi 19$	$\Phi 11$	CBH20-36	20-36
SC24-LBK2-(200-300)L	200-300	$\Phi 24$	$\Phi 14$	CBH25-47	25-47
SC32-LBK3-(200-400)L	200-400	$\Phi 32$	$\Phi 18$	CBH32-60	32-60

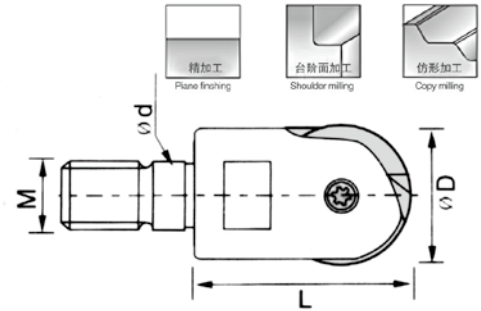
●CBH微调精镗头详见158页。CBH Micro boring head details can be find in the catalogue page 158.

CD2602-01 锁牙式球型精铣刀头 BALL PRECISION CUTTERS



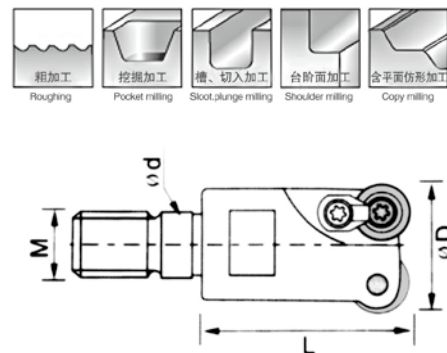
型号Model No.	尺寸Size(mm)				刀片 Insert
	ΦD	M	Φd	L	
PPH08-M04	$\Phi 08$	M4	$\Phi 4.5$	16	BNM-080
PPH10-M05	$\Phi 10$	M5	$\Phi 5.5$	20	BNM-010
PPH12-M06	$\Phi 12$	M6	$\Phi 6.5$	22	BNM-120
PPH16-M08	$\Phi 16$	M8	$\Phi 8.5$	28	BNM-160
PPH20-M10	$\Phi 20$	M10	$\Phi 10.5$	30	BNM-200
PPH25-M12	$\Phi 25$	M12	$\Phi 12.5$	40	BNM-250

适配黛杰 (DIJET) 刀片或自产刀片 Adaptation to Dijet insert or own insert

钨钢抗震铣、镗刀杆 ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR
CD2602-02 锁牙式球型精铣刀头 BALL PRECISION CUTTERS


型号Model No.	尺寸Size(mm)				刀片Insert
	ΦD	M	Φd	L	
WGR08-M04	Φ08	M4	Φ4.5	16	P3201-D08
WGR10-M05	Φ10	M5	Φ5.5	20	P3201-D10
WGR12-M06	Φ12	M6	Φ6.5	22	P3201-D12
WGR16-M08	Φ16	M8	Φ8.5	28	P3201-D16
WGR20-M10	Φ20	M10	Φ10.5	30	P3201-D20
WGR25-M12	Φ25	M12	Φ12.5	40	P3201-D25
WGR32(30)-M16	Φ32(30)	M16	17	43	P3201-D32(30)

适配瓦尔特 (WALTER) 刀片或韩国刀片 Adaptation to WALTER insert or South Korea insert

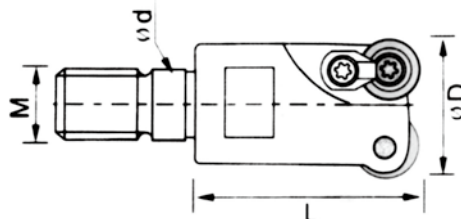
CD2602-03 锁牙式/圆刃立铣刀头 SHOULDER/CARRNER ROUNDING END MILLS


型号Model No.	尺寸Size(mm)				刀片Insert
	ΦD	M	Φd	L	
R200-5R-25-M10	Φ21	M10	Φ10.5	35	RCKT10T3MO
R200-5R-26-M12	Φ25	M12	Φ12.5	35	
R200-6R-30-M16	Φ26	M16	Φ17	40	RCKT1204MO
R200-6R-32-M16	Φ32	M16	Φ17	40	
R200-6R-35-M16	Φ35	M16	Φ17	40	

适配山特维克 (SANDVIK) 刀片 Adaptation to SANDVIK insert

钨钢抗震铣、镗刀杆 ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR

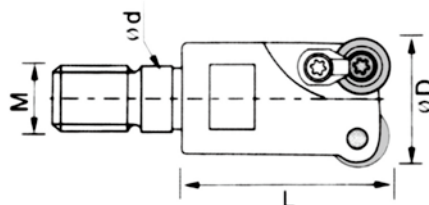
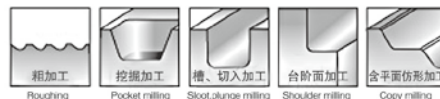
CD2602-04 锁牙式圆刃立铣刀头 CARRNER ROUNDING END MILLS



型号Model No.	尺寸Size(mm)				刀片Insert
	ΦD	M	Φd	L	
RP08T2-20-2T-M10	Φ20	M10	Φ10.5	32	RPKT08T2MO
RP08T2-21-2T-M10	Φ21	M10	Φ10.5	32	
RP1003-25-2T-M12	Φ25	M12	Φ12.5	35	RPKT10T3MO
RP1003-26-2T-M12	Φ26	M12	Φ12.5	35	
RP1003-35-3T-M16	Φ35	M16	Φ17	43	

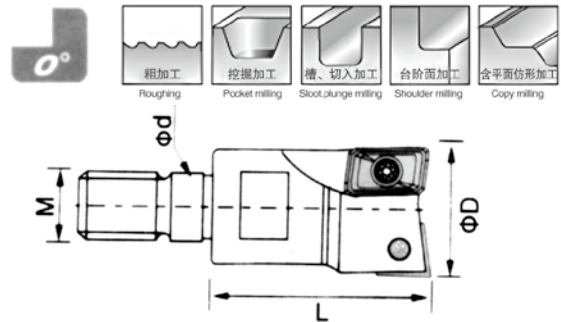
适配三菱 (MITSUBISHI) 刀片 Adaptation to MITSUBISHI insert

CD2602-05 锁牙式/圆刃立铣刀头 SHOULDER/CARRNER ROUNDING END MILLS



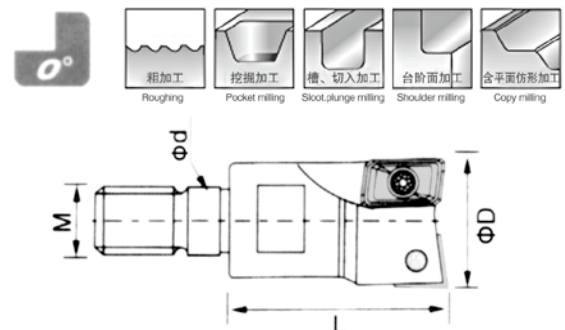
型号Model No.	尺寸Size(mm)				刀片Insert
	ΦD	M	Φd	L	
RD0702-16-2T-M08	Φ16	M08	Φ8.5	25	RDKW0702
RD0702-17-2T-M08	Φ17	M08	Φ8.5	25	
RD0702-20-3T-M10	Φ20	M10	Φ10.5	32	
RD0702-21-3T-M10	Φ21	M10	Φ10.5	32	
RD0702-25-4T-M12	Φ25	M12	Φ12.5	35	
RD0702-26-4T-M12	Φ26	M12	Φ12.5	35	RDKW10T3MO
RD0702-25-2T-M12	Φ25	M12	Φ12.5	35	
RD0702-26-2T-M12	Φ26	M12	Φ12.5	35	
RD0702-35-3T-M16	Φ35	M16	Φ17	43	

适配日立 (HITACHI) 刀片 Adaptation to HITACHI insert

钨钢抗震铣、镗刀杆 ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR
CD2603-01 锁牙式/直角台肩立铣刀头 SHOULDER/CUTTING END MILLS


型号Model No.	尺寸Size(mm)				刀片Insert
	ΦD	M	Φd	L	
BAP3-16-2T-M08	$\Phi 16$	M08	$\Phi 8.5$	25	APMT1135
BAP3-17-2T-M08	$\Phi 17$	M08	$\Phi 8.5$	25	
BAP3-20-2T-M10	$\Phi 20$	M10	$\Phi 10.5$	30	
BAP3-21-2T-M10	$\Phi 21$	M10	$\Phi 10.5$	30	
BAP3-25-3T-M12	$\Phi 25$	M12	$\Phi 12.5$	35	
BAP3-26-3T-M12	$\Phi 26$	M12	$\Phi 12.5$	35	
BAP4-25-2T-M12	$\Phi 25$	M12	$\Phi 12.5$	35	APMT1604
BAP4-26-2T-M12	$\Phi 26$	M12	$\Phi 12.5$	35	
BAP4-35-3T-M16	$\Phi 35$	M16	$\Phi 17$	43	APMT1135
BAP3-40-3T-M16	$\Phi 40$	M16	$\Phi 17$	43	

适配三菱 (MITSUBISHI) 刀片 Adaptation to MITSUBISHI insert

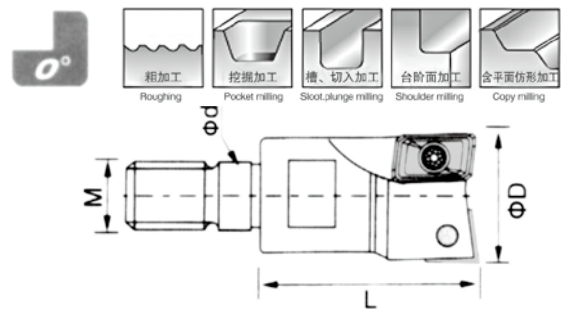
CD2603-02 锁牙式/直角台肩立铣刀头 SHOULDER/CUTTING END MILLS


型号Model No.	尺寸Size(mm)				刀片Insert
	ΦD	M	Φd	L	
TE90AX06-10-2T-M5	$\Phi 10$	M5	$\Phi 5.5$	16	AXMT0602
TE90AX06-11-2T-M5	$\Phi 11$	M5	$\Phi 5.5$	16	
TE90AX06-12-3T-M6	$\Phi 12$	M6	$\Phi 6.5$	18	
TE90AX06-13-3T-M6	$\Phi 13$	M6	$\Phi 6.5$	18	
TE90AX06-16-3T-M8	$\Phi 16$	M8	$\Phi 8.5$	23	
TE90AX09-20-3T-M10	$\Phi 20$	M10	$\Phi 10.5$	30	
TE90AX09-21-3T-M10	$\Phi 21$	M10	$\Phi 10.5$	30	AXMT0903
TE90AX09-25-3T-M12	$\Phi 25$	M12	$\Phi 12.5$	35	
TE90AX09-26-3T-M12	$\Phi 26$	M12	$\Phi 12.5$	35	
TE90AX09-32-3T-M16	$\Phi 32$	M16	$\Phi 17$	43	

适配特固克(TAEGUTEC)刀片 Adaptation to TAEGUTEC insert

钨钢抗震铣、镗刀杆 ANTI-SHOCK TUNGSTEN STEEL CNC MILLING SHNAK,BORE ARBOR

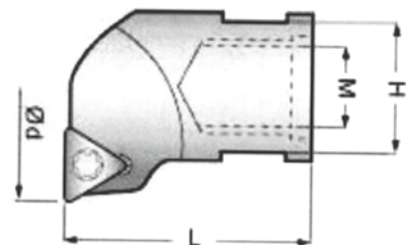
CD2603-03 锁牙式/直角台肩立铣刀头 SHOULDER/CUTTING END MILLS



型号Model No.	尺寸Size(mm)				刀片 Insert
	ΦD	M	Φd	L	
R390-16-M8	Φ16	M8	Φ8.5	30	ACKT11T308
R390-17-M8	Φ17	M8	Φ8.5	30	
R390-20-M10	Φ20	M10	Φ10.5	35	
R390-21-M10	Φ21	M10	Φ10.5	35	
R390-25-M12	Φ25	M12	Φ12.5	35	
R390-26-M12	Φ26	M12	Φ12.5	35	
R390-30-M16	Φ30	M16	Φ17	40	
R390-32-M16	Φ32	M16	Φ17	40	
R390-35-M16	Φ35	M16	Φ17	40	

适配山特维克 (SANDVIK) 刀片 Adaptation to SANDVIK insert

CD2604-01 组合式镗孔头BE型 MODULAR INSERT HOLDER TYPE BE



型号Model No.	尺寸Size(mm)				刀片 Insert
	Φd	M	H	L	
BE09A	Φ9	M5	7	18	TP0802
BE10.5A	Φ10.5		8		
BE12A	Φ12	M6	10	23	
BE14A	Φ14		14		
BE16A	Φ16	M10	14	27	
BE18A	Φ18				
BE20A	Φ20				
BE22A	Φ22				
BE24A	Φ24				
BE26A	Φ26				

高速、高效快速钻

HIGH SPEED MILLING CARBIDE CUTTER

高速、高效快速钻特点：

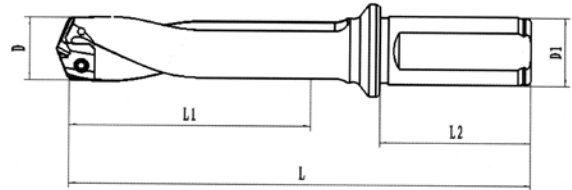
- 一、快速钻是传统麻花钻的升级换代产品，可应用于数控设备。
- 二、快速钻刀片分为硬质合金和高速钢两种材质，所安装的刀杆也是不同的，不能互换。
- 三、所有快速钻刀杆均有出水孔，推荐尽量使用高压高流量内冷却液，这样会大大的延长刀片的使用寿命，也更加有利于排屑。
- 四、所有刀片均为断屑槽设计，出来的铁屑均为小碎屑。
- 五、快速钻刀片具有自定心功能，双刃对称均匀受力，所以适合打深孔。长径比在5倍以内的，优先选用浅孔钻（U钻），刀具成本比较省。超出5倍径的建议使用舍弃式快速钻。
- 六、在冷却液压力够高，流量够大，排泄顺畅情况下，舍弃式快速钻可以一打到底，不需要回退排屑。

- 1.Spade drill,an upgraded replacement product of traditional twist drill,can be applied to CNC and a variety of conventional equipment,such as vertical drill,radial drill etc.
- 2.The material of spade drill inserts include carbide andHSS,which are mounted on different holder and can not be interchanged.
- 3.All spade drill holders have center water hole with recommendation of high-pressure and high-flow coolant,which will greatly extend insert life and accelerate chip evacuation.
- 4.All inserts and designed for chip breaker and the out of the filing are small debris.
- 5.Spade drill inserts with self-centering,double symmetric uniform stress are suitable for deep hole drilling.The length to diameter ratio within 5*D,we suggest preferred shallow hole drill (U drill)for saving tool cost.More than 5*D,we recommend spade drill.
- 6.Under enough coolant pressure and flow.and smooth chip evacuation,spade drill can be used for one shot drilling.

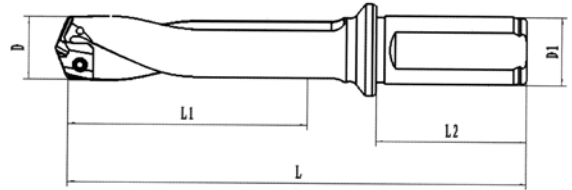


钻削系列 DISPOSABLE RAPID DRILLING TOOLS

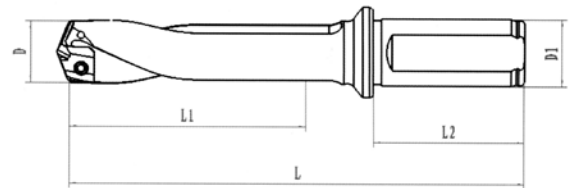
CD2701-01 3D舍弃式硬质合金快速钻 3×D FLANGED STRAIGHT FLUTE HOLDER



型号Model No.	L	L1	L2	D	D1	螺丝Screw	扳手Wrench
CDT03-11.0-11.9-H-XP20	112	36	48	11.0-11.9	20	M1.8×4.5	T6
CDT03-12.0-12.9-H-XP20	116	39	48	12.0-12.9	20	M2×5	T6
CDT03-13.0-13.9-H-XP20	118	42	48	13.0-13.9	20	M2×5	T6
CDT03-14.0-14.9-H-XP20	122	45	48	14.0-14.9	20	M2×5	T6
CDT03-15.0-15.9-H-XP20	126	48	48	15.0-15.9	20	M2×5	T6
CDT03-16.0-16.9-H-XP20	130	51	48	16.0-16.9	20	M2.5×6	T8
CDT03-17.0-17.9-H-XP20	134	54	48	17.0-17.9	20	M2.5×7	T8
CDT03-18.0-19.9-H-XP25	150	57	56	18.0-19.9	25	M3×7.5	T10
CDT03-20.0-21.9-H-XP25	156	66	56	20.0-21.9	25	M3×7.5	T10
CDT03-22.0-23.9-H-XP25	162	72	56	22.0-23.9	25	M3×9	T10
CDT03-24.0-25.9-H-XP25	168	78	56	24.0-25.9	25	M3×9	T10
CDT03-26.0-28.9-H-XP32	186	87	60	26.0-28.9	32	M4×10	T15
CDT03-29.0-31.9-H-XP32	195	96	60	29.0-31.9	32	M4×10	T15
CDT03-32.0-35.0-H-XP32	205	105	60	32.0-35.0	32	M4×10	T15

钻削系列 DISPOSABLE RAPID DRILLING TOOLS
》》 CD2701-02 5D舍弃式硬质合金快速钻 5×D FLANGED STRAIGHT FLUTE HOLDER


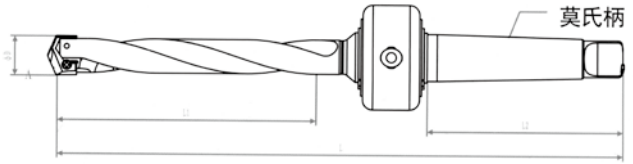
型号Model No.	L	L1	L2	D	D1	螺丝 Screw	扳手 Wrench
CDT05-11.0-11.9-H-XP20	136	60	48	11.0-11.9	20	M1.8×4.5	T6
CDT05-12.0-12.9-H-XP20	142	65	48	12.0-12.9	20	M2×5	T6
CDT05-13.0-13.9-H-XP20	146	70	48	13.0-13.9	20	M2×5	T6
CDT05-14.0-14.9-H-XP20	152	75	48	14.0-14.9	20	M2×5	T6
CDT05-15.0-15.9-H-XP20	158	80	48	15.0-15.9	20	M2×5	T6
CDT05-16.0-16.9-H-XP20	164	85	48	16.0-16.9	20	M2.5×6	T8
CDT05-17.0-17.9-H-XP20	170	90	48	17.0-17.9	20	M2.5×7	T8
CDT05-18.0-19.9-H-XP25	190	100	56	18.0-19.9	25	M3×7.5	T10
CDT05-20.0-21.9-H-XP25	200	110	56	20.0-21.9	25	M3×7.5	T10
CDT05-22.0-23.9-H-XP25	210	120	56	22.0-23.9	25	M3×9	T10
CDT05-24.0-25.9-H-XP25	220	130	56	24.0-25.9	25	M3×9	T10
CDT05-26.0-28.9-H-XP32	245	145	60	26.0-28.9	32	M4×10	T15
CDT05-29.0-31.9-H-XP32	259	160	60	29.0-31.9	32	M4×10	T15
CDT05-32.0-35.0-H-XP32	275	175	60	32.0-35.0	32	M4×10	T15

》》 CD2701-03 7D舍弃式硬质合金快速钻 7×D FLANGED STRAIGHT FLUTE HOLDER


型号Model No.	L	L1	L2	D	D1	螺丝 Screw	扳手 Wrench
CDT07-11.0-11.9-H-XP20	160	84	48	11.0-11.9	20	M1.8×4.5	T6
CDT07-12.0-12.9-H-XP20	168	91	48	12.0-12.9	20	M2×5	T6
CDT07-13.0-13.9-H-XP20	174	98	48	13.0-13.9	20	M2×5	T6
CDT07-14.0-14.9-H-XP20	182	105	48	14.0-14.9	20	M2×5	T6
CDT07-15.0-15.9-H-XP20	190	112	48	15.0-15.9	20	M2×5	T6
CDT07-16.0-16.9-H-XP20	198	119	48	16.0-16.9	20	M2.5×6	T8
CDT07-17.0-17.9-H-XP20	206	126	48	17.0-17.9	20	M2.5×7	T8
CDT07-18.0-19.9-H-XP25	230	140	56	18.0-19.9	25	M3×7.5	T10
CDT07-20.0-21.9-H-XP25	244	154	56	20.0-21.9	25	M3×7.5	T10
CDT07-22.0-23.9-H-XP25	258	168	56	22.0-23.9	25	M3×9	T10
CDT07-24.0-25.9-H-XP25	272	182	56	24.0-25.9	25	M3×9	T10
CDT07-26.0-28.9-H-XP32	303	203	60	26.0-28.9	32	M4×10	T15
CDT07-29.0-31.9-H-XP32	323	224	60	29.0-31.9	32	M4×10	T15
CDT07-32.0-35.0-H-XP32	345	245	60	32.0-35.0	32	M4×10	T15

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

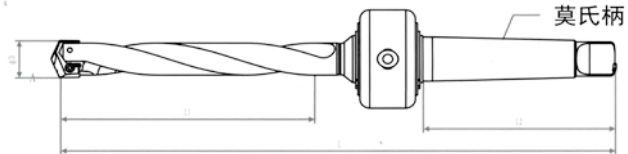
CD2702-01 3D舍弃式硬质合金快速钻 3 × D MORSE SHANK SPADE DRILL



莫氏柄

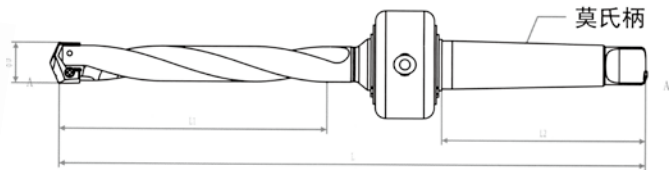
型号Model No.	L	L1	L2	D	莫氏柄Morse shank	螺丝Screw	扳手Wrench
CDS03-09.5-11.0-MT2	181	36	80	9.5-11.0	MT2	M2 × 5	T6
CDS03-11.1-12.9-MT2	187	42	80	11.1-12.9	MT2	M2 × 5	T6
CDS03-13.0-15.0-MT2	193	48	80	13.0-15.0	MT2	M2.5 × 6	T8
CDS03-15.1-17.5-MT2	200	55	80	15.1-17.5	MT2	M2.5 × 6	T8
CDS03-17.6-19.5-MT3	226	61	99	17.6-19.5	MT3	M3 × 8	T10
CDS03-19.6-21.5-MT3	232	67	99	19.6-21.5	MT3	M3 × 8	T10
CDS03-21.6-24.4-MT3	241	76	99	21.6-24.4	MT3	M3 × 8	T10
CDS03-24.5-26.5-MT4	284	82	124	24.5-26.5	MT4	M3.5 × 10	T15
CDS03-26.6-28.5-MT4	290	88	124	26.6-28.5	MT4	M3.5 × 10	T15
CDS03-28.6-30.5-MT4	296	94	124	28.6-30.5	MT4	M3.5 × 10	T15
CDS03-30.6-32.5-MT4	302	100	124	30.6-32.5	MT4	M3.5 × 10	T15
CDS03-32.6-34.9-MT4	309	107	124	32.6-34.9	MT4	M3.5 × 10	T15
CDS03-35.0-37.9-MT5	360	116	156	35.0-37.9	MT5	M3.5 × 10	T15
CDS03-38.0-40.9-MT5	369	125	156	38.0-40.9	MT5	M3.5 × 10	T15
CDS03-41.0-43.9-MT5	378	134	156	41.0-43.9	MT5	M3.5 × 10	T15
CDS03-44.0-47.9-MT5	390	146	156	44.0-47.9	MT5	M3.5 × 10	T15
CDS03-48.0-51.9-MT5	402	158	156	48.0-51.9	MT5	M5 × 15	T20
CDS03-52.0-55.9-MT5	414	170	156	52.0-55.9	MT5	M5 × 15	T20
CDS03-56.0-59.9-MT5	426	182	156	56.0-59.9	MT5	M5 × 15	T20
CDS03-60.0-65.0-MT5	442	198	156	60.0-65.0	MT5	M5 × 15	T20

CD2702-02 5D舍弃式硬质合金快速钻 5 × D MORSE SHANK SPADE DRILL

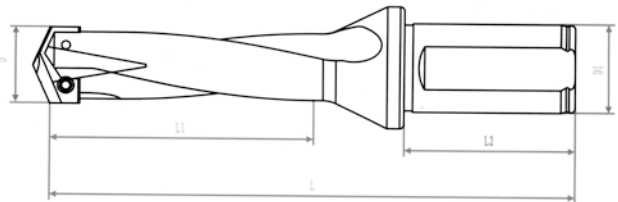


莫氏柄

型号Model No.	L	L1	L2	D	莫氏柄Morse shank	螺丝Screw	扳手rench
CDS05-09.5-11.0-MT2	203	58	80	9.5-11.0	MT2	M2 × 5	T6
CDS05-11.1-12.9-MT2	213	68	80	11.1-12.9	MT2	M2 × 5	T6
CDS05-13.0-15.0-MT2	223	78	80	13.0-15.0	MT2	M2.5 × 6	T8
CDS05-15.1-17.5-MT2	235	90	80	15.1-17.5	MT2	M2.5 × 6	T8
CDS05-17.6-19.5-MT3	265	100	99	17.6-19.5	MT3	M3 × 8	T10
CDS05-19.6-21.5-MT3	275	110	99	19.6-21.5	MT3	M3 × 8	T10
CDS05-21.6-24.4-MT3	290	125	99	21.6-24.4	MT3	M3 × 8	T10
CDS05-24.5-26.5-MT4	337	135	124	24.5-26.5	MT4	M3.5 × 10	T15
CDS05-26.6-28.5-MT4	347	145	124	26.6-28.5	MT4	M3.5 × 10	T15
CDS05-28.6-30.5-MT4	357	155	124	28.6-30.5	MT4	M3.5 × 10	T15
CDS05-30.6-32.5-MT4	367	165	124	30.6-32.5	MT4	M3.5 × 10	T15
CDS05-32.6-34.9-MT4	380	178	124	32.6-34.9	MT4	M3.5 × 10	T15
CDS05-35.0-37.9-MT5	436	192	156	35.0-37.9	MT5	M3.5 × 10	T15
CDS05-38.0-40.9-MT5	452	208	156	38.0-40.9	MT5	M3.5 × 10	T15
CDS05-41.0-43.9-MT5	466	222	156	41.0-43.9	MT5	M3.5 × 10	T15
CDS05-44.0-47.9-MT5	486	242	156	44.0-47.9	MT5	M3.5 × 10	T15
CDS05-48.0-51.9-MT5	506	262	156	48.0-51.9	MT5	M5 × 15	T20
CDS05-52.0-55.9-MT5	526	282	156	52.0-55.9	MT5	M5 × 15	T20
CDS05-56.0-59.9-MT5	546	302	156	56.0-59.9	MT5	M5 × 15	T20
CDS05-60.0-65.0-MT5	572	328	156	60.0-65.0	MT5	M5 × 15	T20

钻削系列 DISPOSABLE RAPID DRILLING TOOLS
CD2702-03 7D舍弃式硬质合金快速钻 7 × D MORSE SHANK SPADE DRILL


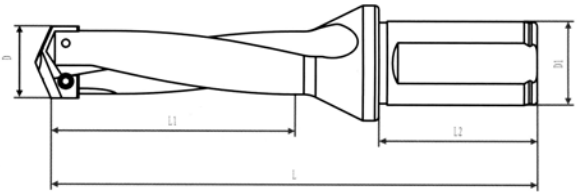
型号Model No.	L	L1	L2	D	莫氏柄Morse shank	螺丝Screw	扳手rench
CDS07-09.5-11.0-MT2	225	80	80	9.5-11.0	MT2	M2 × 5	T6
CDS07-11.1-12.9-MT2	238	93	80	11.1-12.9	MT2	M2 × 5	T6
CDS07-13.0-15.0-MT2	253	108	80	13.0-15.0	MT2	M2.5 × 6	T8
CDS07-15.1-17.5-MT2	270	125	80	15.1-17.5	MT2	M2.5 × 6	T8
CDS07-17.6-19.5-MT3	304	139	99	17.6-19.5	MT3	M3 × 8	T10
CDS07-19.6-21.5-MT3	318	153	99	19.6-21.5	MT3	M3 × 8	T10
CDS07-21.6-24.4-MT3	338	173	99	21.6-24.4	MT3	M3 × 8	T10
CDS07-24.5-26.5-MT4	390	188	124	24.5-26.5	MT4	M3.5 × 10	T15
CDS07-26.6-28.5-MT4	404	202	124	26.6-28.5	MT4	M3.5 × 10	T15
CDS07-28.6-30.5-MT4	418	216	124	28.6-30.5	MT4	M3.5 × 10	T15
CDS07-30.6-32.5-MT4	432	230	124	30.6-32.5	MT4	M3.5 × 10	T15
CDS07-32.6-34.9-MT4	449	247	124	32.6-34.9	MT4	M3.5 × 10	T15
CDS07-35.0-37.9-MT5	512	268	156	35.0-37.9	MT5	M3.5 × 10	T15
CDS07-38.0-40.9-MT5	533	289	156	38.0-40.9	MT5	M3.5 × 10	T15
CDS07-41.0-43.9-MT5	554	310	156	41.0-43.9	MT5	M3.5 × 10	T15
CDS07-44.0-47.9-MT5	582	338	156	44.0-47.9	MT5	M3.5 × 10	T15
CDS07-48.0-51.9-MT5	610	366	156	48.0-51.9	MT5	M5 × 15	T20
CDS07-52.0-55.9-MT5	638	394	156	52.0-55.9	MT5	M5 × 15	T20
CDS07-56.0-59.9-MT5	666	422	156	56.0-59.9	MT5	M5 × 15	T20
CDS07-60.0-65.0-MT5	702	458	156	60.0-65.0	MT5	M5 × 15	T20

CD2703-01 3D舍弃式高速钢快速钻 3 × D FLANGED SHANK SPADE DRILL


型号Model No.	L	L1	L2	D	D1	螺丝Screw	扳手 Wrench
CDG03-09.5-11.0-XP20	106	36	48	9.5-11.0	20	M2 × 5	T6
CDG03-11.1-12.9-XP20	112	42	48	11.1-12.9	20	M2 × 5	T6
CDG03-13.0-15.0-XP20	118	48	48	13.0-15.0	20	M2.5 × 6	T8
CDG03-15.1-17.5-XP20	125	55	48	15.1-17.5	20	M2.5 × 6	T8
CDG03-17.6-19.5-XP25	140	61	56	17.6-19.5	25	M3 × 8	T10
CDG03-19.6-21.5-XP25	146	67	56	19.6-21.5	25	M3 × 8	T10
CDG03-21.6-24.4-XP25	155	76	56	21.6-24.4	25	M3 × 8	T10
CDG03-24.5-26.5-XP32	170	82	60	24.5-26.5	32	M3.5 × 10	T15
CDG03-26.6-28.5-XP32	176	88	60	26.6-28.5	32	M3.5 × 10	T15
CDG03-28.6-30.5-XP32	182	94	60	28.6-30.5	32	M3.5 × 10	T15
CDG03-30.6-32.5-XP32	188	100	60	30.6-32.5	32	M3.5 × 10	T15
CDG03-32.6-34.9-XP32	195	107	60	32.6-34.9	32	M3.5 × 10	T15
CDG03-35.0-37.9-XP32	206	116	60	35.0-37.9	32	M3.5 × 10	T15
CDG03-38.0-40.9-XP32	215	125	60	38.0-40.9	32	M3.5 × 10	T15
CDG03-41.0-43.9-XP40	232	134	65	41.0-43.9	40	M3.5 × 10	T15
CDG03-44.0-47.9-XP40	244	146	65	44.0-47.9	40	M3.5 × 10	T15
CDG03-48.0-51.9-XP40	256	158	65	48.0-51.9	40	M5 × 15	T20
CDG03-52.0-55.9-XP40	268	170	65	52.0-55.9	40	M5 × 15	T20
CDG03-56.0-59.9-XP40	280	182	65	56.0-59.9	40	M5 × 15	T20
CDG03-60.0-65.0-XP40	296	198	65	60.0-65.0	40	M5 × 15	T20

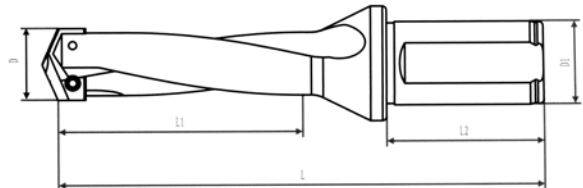
钻削系列 DISPOSABLE RAPID DRILLING TOOLS

CD2703-02 5D舍弃式高速钢快速钻 5 × D FLANGED SHANK SPADE DRILL



型号Model No.	L	L1	L2	D	D1	螺丝Screw	扳手rench
CDG05-09.5-11.0-XP20	128	58	48	9.5-11.0	20	M2 × 5	T6
CDG05-11.1-12.9-XP20	138	68	48	11.1-12.9	20	M2 × 5	T6
CDG05-13.0-15.0-XP20	148	78	48	13.0-15.0	20	M2.5 × 6	T8
CDG05-15.1-17.5-XP20	160	90	48	15.1-17.5	20	M2.5 × 6	T8
CDG05-17.6-19.5-XP25	179	100	56	17.6-19.5	25	M3 × 8	T10
CDG05-19.6-21.5-XP25	189	110	56	19.6-21.5	25	M3 × 8	T10
CDG05-21.6-24.4-XP25	204	125	56	21.6-24.4	25	M3 × 8	T10
CDG05-24.5-26.5-XP32	223	135	60	24.5-26.5	32	M3.5 × 10	T15
CDG05-26.6-28.5-XP32	233	145	60	26.6-28.5	32	M3.5 × 10	T15
CDG05-28.6-30.5-XP32	243	155	60	28.6-30.5	32	M3.5 × 10	T15
CDG05-30.6-32.5-XP32	253	165	60	30.6-32.5	32	M3.5 × 10	T15
CDG05-32.6-34.9-XP32	266	178	60	32.6-34.9	32	M3.5 × 10	T15
CDG05-35.0-37.9-XP32	282	192	60	35.0-37.9	32	M3.5 × 10	T15
CDG05-38.0-40.9-XP32	298	208	60	38.0-40.9	32	M3.5 × 10	T15
CDG05-41.0-43.9-XP40	320	222	65	41.0-43.9	40	M3.5 × 10	T15
CDG05-44.0-47.9-XP40	332	242	65	44.0-47.9	40	M3.5 × 10	T15
CDG05-48.0-51.9-XP40	352	262	65	48.0-51.9	40	M5 × 15	T20
CDG05-52.0-55.9-XP40	372	282	65	52.0-55.9	40	M5 × 15	T20
CDG05-56.0-59.9-XP40	392	302	65	56.0-59.9	40	M5 × 15	T20
CDG05-60.0-65.0-XP40	328	328	65	60.0-65.0	40	M5 × 15	T20

CD2703-03 7D舍弃式高速钢快速钻 7 × D FLANGED SHANK SPADE DRILL



型号Model No.	L	L1	L2	D	D1	螺丝Screw	扳手 Wrench
CDG07-09.5-11.0-XP20	150	80	48	9.5-11.0	20	M2 × 5	T6
CDG07-11.1-12.9-XP20	163	93	48	11.1-12.9	20	M2 × 5	T6
CDG07-13.0-15.0-XP20	178	108	48	13.0-15.0	20	M2.5 × 6	T8
CDG07-15.1-17.5-XP20	195	125	48	15.1-17.5	20	M2.5 × 6	T8
CDG07-17.6-19.5-XP25	218	139	56	17.6-19.5	25	M3 × 8	T10
CDG07-19.6-21.5-XP25	232	153	56	19.6-21.5	25	M3 × 8	T10
CDG07-21.6-24.4-XP25	252	173	56	21.6-24.4	25	M3 × 8	T10
CDG07-24.5-26.5-XP32	276	188	60	24.5-26.5	32	M3.5 × 10	T15
CDG07-26.6-28.5-XP32	290	202	60	26.6-28.5	32	M3.5 × 10	T15
CDG07-28.6-30.5-XP32	304	216	60	28.6-30.5	32	M3.5 × 10	T15
CDG07-30.6-32.5-XP32	318	230	60	30.6-32.5	32	M3.5 × 10	T15
CDG07-32.6-34.9-XP32	335	247	60	32.6-34.9	32	M3.5 × 10	T15
CDG07-35.0-37.9-XP32	358	268	60	35.0-37.9	32	M3.5 × 10	T15
CDG07-38.0-40.9-XP32	379	289	60	38.0-40.9	32	M3.5 × 10	T15
CDG07-41.0-43.9-XP40	408	310	65	41.0-43.9	40	M3.5 × 10	T15
CDG07-44.0-47.9-XP40	436	338	65	44.0-47.9	40	M3.5 × 10	T15
CDG07-48.0-51.9-XP40	364	366	65	48.0-51.9	40	M5 × 15	T20
CDG07-52.0-55.9-XP40	492	394	65	52.0-55.9	40	M5 × 15	T20
CDG07-56.0-59.9-XP40	520	422	65	56.0-59.9	40	M5 × 15	T20
CDG07-60.0-65.0-XP40	556	458	65	60.0-65.0	40	M5 × 15	T20

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

CD2704-01 硬质合金刀片规格 CARBIDE INSERT

11.00-G12-A	11.50-G12-A	12.00-G12-A	12.50-G12-A	13.00-G12-A	13.50-G12-A	14.00-G12-A	14.50-G12-A	15.00-G12-A
15.50-G12-A	16.00-G12-A	16.50-G12-A	17.00-G12-A	17.50-G12-A	18.00-G12-A	18.50-G12-A	19.00-G12-A	19.50-G12-A
20.00-G12-A	20.50-G12-A	21.00-G12-A	21.50-G12-A	22.00-G12-A	22.50-G12-A	23.00-G12-A	23.50-G12-A	24.00-G12-A
24.50-G12-A	25.00-G12-A	25.50-G12-A	26.00-G12-A	26.50-G12-A	27.00-G12-A	27.50-G12-A	28.00-G12-A	28.50-G12-A
29.00-G12-A	29.50-G12-A	30.00-G12-A	30.50-G12-A	31.00-G12-A	31.50-G12-A	32.00-G12-A	32.50-G12-A	33.00-G12-A
33.50-G12-A	34.00-G12-A	34.50-G12-A	35.00-G12-A					

CD2704-02 高速钢刀片规格 HSS INSERT

9.00-M42-A	9.50-M42-A	10.00-M42-A	10.50-M42-A	11.00-M42-A	11.50-M42-A	12.00-M42-A	12.50-M42-A	13.00-M42-A
13.50-M42-A	14.00-M42-A	14.50-M42-A	15.00-M42-A	15.50-M42-A	16.00-M42-A	16.50-M42-A	17.00-M42-A	17.50-M42-A
18.00-M42-A	18.50-M42-A	19.00-M42-A	19.50-M42-A	20.00-M42-A	20.50-M42-A	21.00-M42-A	21.50-M42-A	22.00-M42-A
22.50-M42-A	23.00-M42-A	23.50-M42-A	24.00-M42-A	24.50-M42-A	25.00-M42-A	25.50-M42-A	26.00-M42-A	26.50-M42-A
27.00-M42-A	27.50-M42-A	28.00-M42-A	28.50-M42-A	29.00-M42-A	29.50-M42-A	30.00-M42-A	30.50-M42-A	31.00-M42-A
31.50-M42-A	32.00-M42-A	32.50-M42-A	33.00-M42-A	33.50-M42-A	34.00-M42-A	34.50-M42-A	35.00-M42-A	35.50-M42-A
36.00-M42-A	36.50-M42-A	37.00-M42-A	37.50-M42-A	38.00-M42-A	38.50-M42-A	39.00-M42-A	39.50-M42-A	40.00-M42-A
40.50-M42-A	41.00-M42-A	41.50-M42-A	42.00-M42-A	42.50-M42-A	43.00-M42-A	43.50-M42-A	44.00-M42-A	44.50-M42-A
45.00-M42-A	45.50-M42-A	46.00-M42-A	46.50-M42-A	47.00-M42-A	47.50-M42-A	48.00-M42-A	48.50-M42-A	49.00-M42-A
49.50-M42-A	50.00-M42-A	50.50-M42-A	51.00-M42-A	51.50-M42-A	52.00-M42-A	52.50-M42-A	53.00-M42-A	53.50-M42-A
54.00-M42-A	54.50-M42-A	55.00-M42-A	55.50-M42-A	56.00-M42-A	56.50-M42-A	57.00-M42-A	57.50-M42-A	58.00-M42-A
58.50-M42-A	59.00-M42-A	59.50-M42-A	60.00-M42-A	60.50-M42-A	61.00-M42-A	61.50-M42-A	62.00-M42-A	62.50-M42-A
63.00-M42-A	63.50-M42-A	64.00-M42-A	64.50-M42-A	65.00-M42-A				

◆可转位快速钻的计算参数 Calculated parameters

钻头转速 Drill speed

$$n = \frac{V_c \times 1000}{\pi \times D_m}$$

V_c (m/min):线速度
 D_m (mm):钻头直径
 n (rev/min):转速

实例

刀片线速度120m/min,钻头直径为 $\phi 20$ mm,其钻头转速: $n = \frac{120 \times 1000}{3.14 \times 20} = 1900 \text{ rev/min}$

进给速度 Feed speed

$$V_f = f_z \times n$$

V_f (mm/min):进给速度
 f_z (mm/rev):每齿进给量
 n (rev/min):主轴转速

实例

主轴转速度1900rev/min,每转进给量为0.1mm/rev,其进给速度: $V_f = f_z \times n = 1900 \times 0.1 = 190 \text{ mm/min}$

孔加工时间 Machining time

$$T_c = \frac{l_m}{V_f} \times 60$$

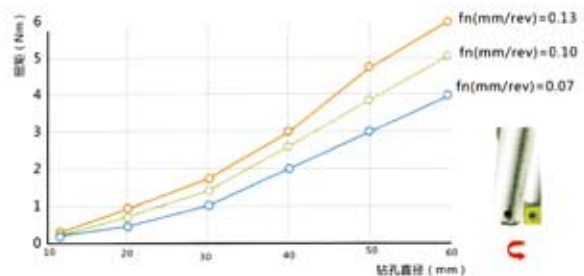
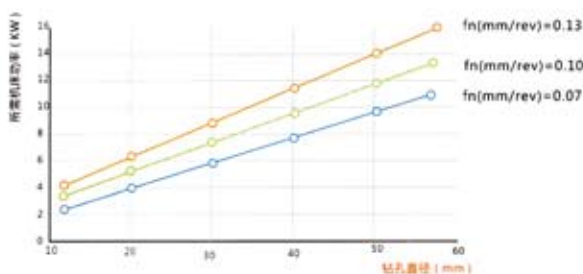
T_c (s):加工时间
 l_m (mm):钻孔深

实例

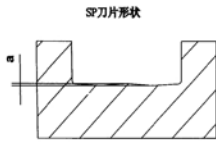
钻一个直径为 $\phi 20$ mm,深为40mm的孔,进给速度为190mm/min: $T_c = \frac{H}{V_f} \times 60 = \frac{40}{190} \times 60 = 13 \text{ s}$

◆加工功率要求 Processing power requirements

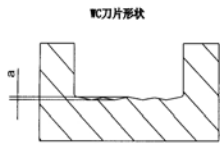
- 以下图表为钻削加工所需切削力 The following chart for drilling processing required for cutting force
- U-Drill钻头适用于高刚性高功率机床 U-drill bit is suitable for high rigidity high power machine



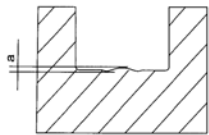
◆盲孔底面尺寸说明 Blind substrate dimension instruction



刀片规格	波浪高度a
SPMG050204	0.30mm
SPMG060204	0.40mm
SPMG07T308	0.50mm
SPMG090408	0.70mm
SPMG0110408	0.80mm
SPMG140512	0.90mm



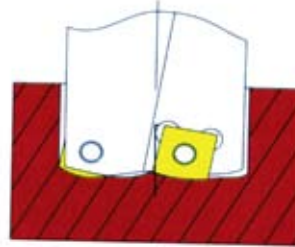
刀片规格	波浪深度a
WCMT030208	0.5mm
WCMT040208	0.6mm
WCMT050308	0.8mm
WCMT060308	0.95mm
WCMT080412	1.25mm



刀片规格	波浪深度a
WCMT030208	0.40mm
SPMG050204	
WCMT030208	0.40mm
SPMG060204	
WCMT040208	0.50mm
SPMG060204	0.70mm
WCMT050308	
SPMG070308	0.70mm
WCMT050308	
SPMG090408	0.90mm
WCMT060308	
SPMG110408	1.20mm
WCMT080412	
SPMG140512	

S形刀片浅孔钻

Quadrilateral blade shallow hole drilling



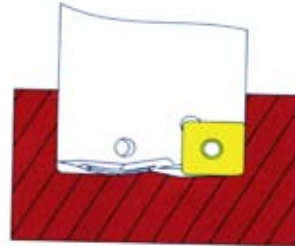
W形刀片浅孔钻

Equilateral unequal Angle hexagon blade shallow hole drilling

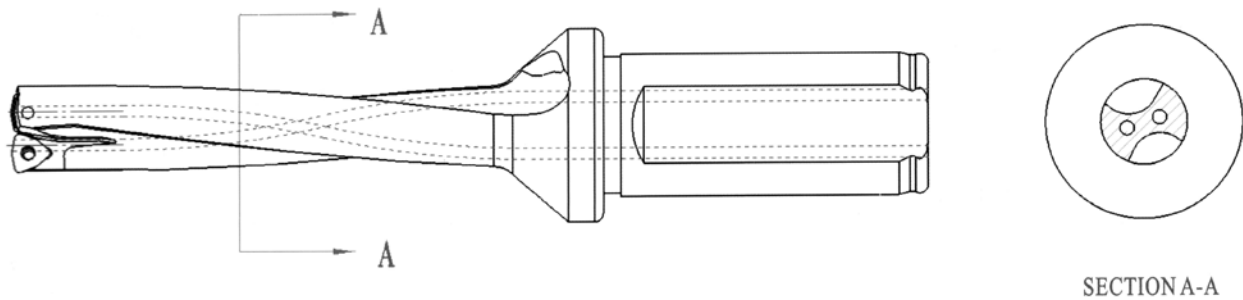


S和W组合刀片浅孔钻

Square and hexagonal blade shallow hole drilling



◆快速钻的冷却示意图 Fast drilling cooling schemes



- 1、出水孔流量明显增大，提供更好的冷却和排屑。
 - 2、壁厚均匀，不易破，增强了刚性。
 - 3、螺旋排屑槽排屑空间加大了30%更加有利于排屑顺畅，性能提升40%。
- 1.Increased outlet hole has a greater flow of cooling water to provide better cooling and chip evacuation.
 - 2.Thickness of wall is symmetrical,difficult to break and enhance the rigidity.
 - 3.The space of helical flutes increases by 30% and it is more conducive to the smooth chip evacuation ,performance improve 40%.

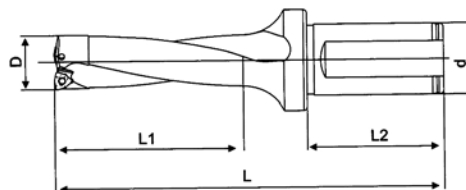
钻削系列 DISPOSABLE RAPID DRILLING TOOLS

◆可转位式钻头切削数据参考表 Cutting data reference table

快钻直径 Diameter	材质 Material	转速 RPM	2D切削速 2 × D Feeding	3D切削速 3 × D Feeding	4D切削速 4 × D Feeding	5D切削速 5 × D Feeding	材质 Material
14-17	一般钢 Carbon Steel	2500-2300	Lathe F0.06-0.07 Machin F150-180	Lathe F0.06-0.07 Machin F150-180	Lathe F0.05-0.06 Machin F130-150	Lathe F0.05-0.06 Machin F130-150	特殊钢转速降低 20%-30% Special Material RPM Reduce 20%-30%
18-20		2300-2100	Lathe F0.085-0.10 Machin F180-200	Lathe F0.085-0.10 Machin F180-200	Lathe F0.06-0.07 Machin F150-170	Lathe F0.06-0.07 Machin F150-170	
21-23		2100-1900	Lathe F0.085-0.10 Machin F180-200	Lathe F0.085-0.10 Machin F180-200	Lathe F0.06-0.07 Machin F150-170	Lathe F0.06-0.07 Machin F150-170	
24-26		1800-1700	Lathe F0.10-0.12 Machin F170-200	Lathe F0.10-0.12 Machin F170-200	Lathe F0.09-0.11 Machin F160-190	Lathe F0.08-0.09 Machin F150-180	
27-29		1600-1500	Lathe F0.10-0.13 Machin F160-200	Lathe F0.10-0.13 Machin F160-200	Lathe F0.10-0.12 Machin F160-180	Lathe F0.09-0.11 Machin F140-160	
30-32		1500-1400	Lathe F0.10-0.13 Machin F150-180	Lathe F0.10-0.13 Machin F150-180	Lathe F0.10-0.12 Machin F140-170	Lathe F0.09-0.11 Machin F130-150	
33-35		1400-1300	Lathe F0.10-0.13 Machin F130-160	Lathe F0.10-0.13 Machin F140-170	Lathe F0.10-0.12 Machin F130-160	Lathe F0.10-0.12 Machin F130-160	
36-38		1300-1200	Lathe F0.10-0.13 Machin F120-150	Lathe F0.10-0.13 Machin F120-150	Lathe F0.10-0.12 Machin F120-150	Lathe F0.09-0.11 Machin F110-130	
39-41		1200-1100	Lathe F0.10-0.13 Machin F110-140	Lathe F0.10-0.13 Machin F110-140	Lathe F0.10-0.12 Machin F110-130	Lathe F0.09-0.11 Machin F100-120	
42-44		1100-1000	Lathe F0.11-0.14 Machin F105-135	Lathe F0.10-0.13 Machin F105-135	Lathe F0.10-0.12 Machin F95-120	Lathe F0.09-0.11 Machin F90-110	
45-47		1000-950	Lathe F0.11-0.14 Machin F100-130	Lathe F0.10-0.13 Machin F100-120	Lathe F0.10-0.12 Machin F90-110	Lathe F0.09-0.11 Machin F80-100	
48-50		950-900	Lathe F0.11-0.14 Machin F95-120	Lathe F0.10-0.13 Machin F90-110	Lathe F0.10-0.12 Machin F85-105	Lathe F0.09-0.11 Machin F75-95	
51-53		900-850	Lathe F0.11-0.14 Machin F90-110	Lathe F0.10-0.13 Machin F80-100	Lathe F0.10-0.12 Machin F80-100	Lathe F0.09-0.11 Machin F70-85	
54-56		850-800	Lathe F0.11-0.14 Machin F85-105	Lathe F0.10-0.13 Machin F75-95	Lathe F0.10-0.12 Machin F75-95	Lathe F0.09-0.11 Machin F65-80	
57-60		800-750	Lathe F0.11-0.14 Machin F80-100	Lathe F0.10-0.13 Machin F70-90	Lathe F0.10-0.12 Machin F70-90	Lathe F0.09-0.11 Machin F60-75	

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

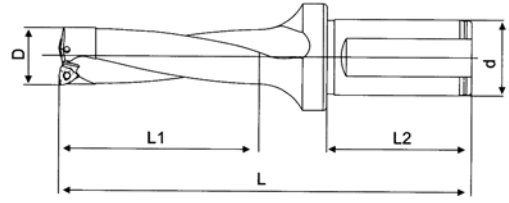
CD2705-01 可转位式CD02-WC刀片 CD02-WC INSERT



型号Model No.	L1	L2	L	D	d	适用刀片 Applicable to insert	螺丝 Screw	扳手 Wrench
CD02-14.0-XP25-WC03-02	33	56	106	14	25	WCMT030208	M2.5X6.5	T8
CD02-15.0-XP25-WC03-02	35	56	108	15				
CD02-16.0-XP25-WC03-02	37	56	110	16				
CD02-17.0-XP25-WC03-02	39	56	112	17				
CD02-18.0-XP25-WC03-02	41	56	114	18				
CD02-19.0-XP25-WC03-02	43	56	116	19				
CD02-20.0-XP25-WC03-02	45	56	119	20				
CD02-21.0-XP25-WC04-02	47	56	121	21				
CD02-22.0-XP25-WC04-02	49	56	123	22				
CD02-23.0-XP25-WC04-02	51	56	125	23				
CD02-24.0-XP25-WC04-02	53	56	127	24				
CD02-25.0-XP32-WC05-02	55	60	141	25	32	WCMT050308	M3X7	T15
CD02-26.0-XP32-WC05-02	57	60	143	26				
CD02-27.0-XP32-WC05-02	59	60	145	27				
CD02-28.0-XP32-WC05-02	61	60	147	28				
CD02-29.0-XP32-WC05-02	63	60	149	29				
CD02-30.0-XP32-WC05-02	65	60	151	30				
CD02-31.0-XP32-WC05-02	67	60	153	31				
CD02-32.0-XP32-WC06-02	69	60	155	32				
CD02-33.0-XP32-WC06-02	71	60	157	33				
CD02-34.0-XP32-WC6-02	73	60	159	34				
CD02-35.0-XP32-WC6-02	75	60	161	35				
CD02-36.0-XP32-WC6-02	77	60	163	36				
CD02-37.0-XP32-WC6-02	79	60	165	37				
CD02-38.0-XP32-WC6-02	81	60	167	38				
CD02-39.0-XP32-WC6-02	83	60	169	39				
CD02-40.0-XP32-WC6-02	85	60	171	40				
CD02-41.0-XP32-WC6-02	87	60	173	41				
CD02-42.0-XP32-WC6-02	89	60	175	42				
CD02-43.0-XP40-WC08-02	91	65	186	43	40	WCT080412	M4X10	T8
CD02-44.0-XP40-WC08-02	93	65	188	44				
CD02-45.0-XP40-WC08-02	95	65	190	45				
CD02-46.0-XP40-WC08-02	97	65	192	46				
CD02-47.0-XP40-WC08-02	99	65	194	47				
CD02-48.0-XP40-WC08-04	101	65	196	48				
CD02-49.0-XP40-WC08-04	103	65	198	49				
CD02-50.0-XP40-WC08-04	105	65	200	50				
CD02-51.0-XP40-WC08-04	107	65	202	51				
CD02-52.0-XP40-WC08-04	109	65	204	52				
CD02-53.0-XP40-WC08-04	111	65	206	53				
CD02-54.0-XP40-WC08-04	113	65	208	54				
CD02-55.0-XP40-WC08-04	115	65	210	55				
CD02-56.0-XP40-WC08-04	117	65	212	56				
CD02-57.0-XP40-WC08-04	119	65	214	57				
CD02-58.0-XP40-WC06-04	121	65	216	58				
CD02-59.0-XP40-WC06-04	123	65	218	59				
CD02-60.0-XP40-WC16-02	125	65	220	60				
CD02-61.0-XP40-WC16-02	127	65	222	61				
CD02-62.0-XP40-WC16-02	129	65	224	62				
CD02-63.0-XP40-WC16-02	131	65	226	63				
CD02-64.0-XP40-WC16-02	133	65	228	64				
CD02-65.0-XP40-WC16-02	135	65	230	65				
						WCMT06T308	M3.5X8	T15

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

CD2705-02 CD03-WC刀片 CD03-WC INSERT



型号Model No.	L1	L2	L	D	d	适用刀片 Applicable insert	螺丝 Screw	扳手 Wrench	
CD03-14.0-XP25-WC03-02	47	56	120	14	25	WCMT030208	M2.5×6.5	T8	
CD03-14.5-XP25-WC03-02	48.5	56	122	14.5					
CD03-15.0-XP25-WC03-02	50	56	123	15					
CD03-15.5-XP25-WC03-02	51.5	56	124	15.5					
CD03-16.0-XP25-WC03-02	53	56	126	16					
CD03-16.5-XP25-WC03-02	54.5	56	127	16.5					
CD03-17.0-XP25-WC03-02	56	56	129	17					
CD03-17.5-XP25-WC03-02	57.5	56	130	17.5					
CD03-18.0-XP25-WC03-02	59	56	132	18					
CD03-18.5-XP25-WC03-02	60.5	56	133	18.5					
CD03-19.0-XP25-WC03-02	62	56	135	19					
CD03-19.5-XP25-WC03-02	63.5	56	136	19.5					
CD03-20.0-XP25-WC03-02	65	56	139	20					
CD03-20.5-XP25-WC03-02	66.5	56	140	20.5					
CD03-21.0-XP25-WC04-02	68	56	142	21					WCMT0-040208
CD03-21.5-XP25-WC04-02	69.5	56	143	21.5					
CD03-22.0-XP25-WC04-02	71	56	145	22					
CD03-22.5-XP25-WC04-02	72.5	56	148	22.5					
CD03-23.0-XP25-WC04-02	74	56	148	23					
CD03-23.5-XP25-WC04-02	75.5	56	149	23.5					
CD03-24.0-XP25-WC04-02	77	56	151	24					
CD03-24.5-XP25-WC04-02	78.5	56	152	24.5					
CD03-25-XP32-WC05-02	80	60	166	25	32	WCMT050308	M3×7	T8	
CD03-25.5-XP32-WC05-02	81.5	60	167	25.5					
CD03-26-XP32-WC05-02	83	60	169	26					
CD03-26.5-XP32-WC05-02	84.5	60	170	26.5					
CD03-27-XP32-WC05-02	86	60	172	27					
CD03-27.5-XP32-WC05-02	87.5	60	173	27.5					
CD03-28-XP32-WC05-02	89	60	175	28					
CD03-28.5-XP32-WC05-02	90.5	60	176	28.5					
CD03-29-XP32-WC05-02	92	60	178	29					
CD03-29.5-XP32-WC05-02	93.5	60	179	29.5					
CD03-30-XP32-WC05-02	95	60	181	30					
CD03-30.5-XP32-WC05-02	96.5	60	182	30.5					
CD03-31-XP32-WC05-02	98	60	184	31					
CD03-31.5-XP32-WC05-02	99.5	60	185	31.5					

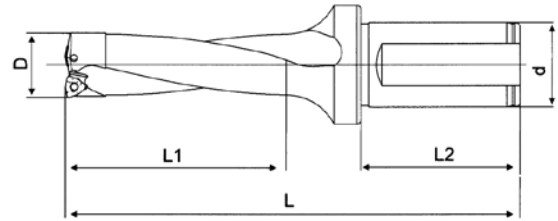
钻削系列 DISPOSABLE RAPID DRILLING TOOLS

CD2705-02 CD03-WC刀片 CD03-WC INSERT

型号 Model No.	L1	L2	L	D	d	适用刀片 Applicable insert	螺丝 Screw	扳手 Wrench			
CD03-32-XP32-WC06-02	101	60	187	32	32	WCMT06T308	M3.5 × 8	T15			
CD03-32.5-XP32-WC06-02	102.5	60	188	32.5							
CD03-33-XP32-WC06-02	104	60	190	33							
CD03-33.5-XP32-WC06-02	105.5	60	191	33.5							
CD03-34-XP32-WC06-02	107	60	193	34							
CD03-34.5-XP32-WC06-02	108.5	60	194	34.5							
CD03-35-XP32-WC06-02	110	60	196	35							
CD03-35.5-XP32-WC06-02	111.5	60	197	35.5							
CD03-36-XP32-WC06-02	113	60	199	36							
CD03-36.5-XP32-WC06-02	114.5	60	200	36.5							
CD03-37-XP32-WC06-02	116	60	202	37							
CD03-37.5-XP32-WC06-02	117.5	60	203	37.5							
CD03-38-XP32-WC06-02	119	60	205	38							
CD03-38.5-XP32-WC06-02	120.5	60	206	38.5							
CD03-39-XP32-WC06-02	122	60	206	39							
CD03-39.5-XP32-WC06-02	123.5	60	209	39.5							
CD03-40-XP32-WC06-02	125	60	211	40					40	WCMT080412	M4 × 10
CD03-41-XP32-WC06-02	128	60	214	41							
CD03-42-XP32-WC06-02	131	60	217	42							
CD03-43-XP40-WC08-02	134	65	229	43							
CD03-44-XP40-WC08-02	137	65	232	44							
CD03-45-XP40-WC08-02	140	65	235	45							
CD03-46-XP40-WC08-02	143	65	238	46							
CD03-47-XP40-WC08-02	146	65	241	47							
CD03-48-XP40-WC08-02	149	65	244	48							
CD03-49-XP40-WC08-02	152	65	247	49							
CD03-50-XP40-WC08-02	155	65	250	50							
CD03-51-XP40-WC08-02	158	65	253	51							
CD03-52-XP40-WC08-02	161	65	256	52							
CD03-53-XP40-WC08-02	164	65	259	53							
CD03-54-XP40-WC08-02	167	65	262	54							
CD03-55-XP40-WC08-02	170	65	265	55							
CD03-56-XP40-WC08-02	173	65	268	56							
CD03-57-XP40-WC08-02	176	65	271	57							
CD03-58-XP40-WC08-02	179	65	274	58	WCMT06T308	M3.5 × 8					
CD03-59-XP40-WC06-02	182	65	277	59							
CD03-60-XP40-WC06-02	185	65	280	60							
CD03-61-XP40-WC06-02	188	65	283	61							
CD03-62-XP40-WC06-02	191	65	286	62							
CD03-63-XP40-WC06-02	194	65	289	63							
CD03-64-XP40-WC06-02	197	65	292	64							
CD03-65-XP40-WC06-02	200	65	295	65							

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

>>> CD2705-03 CD04-WC刀片 CD04-WC INSERT



型号Model No.	L1	L2	L	D	d	适用刀片 Applicable insert	螺丝 Screw	扳手 Wrench
CD04-14.0-XP25-WC03-02	61	56	134	14	25	WCMT030208	M2.5 × 6.5	T8
CD04-14.5-XP25-WC03-02	63	56	136	14.5				
CD04-15.0-XP25-WC03-02	65	56	138	15				
CD04-15.5-XP25-WC03-02	67	56	140	15.5				
CD04-16.0-XP25-WC03-02	69	56	142	16				
CD04-16.5-XP25-WC03-02	71	56	144	16.5				
CD04-17.0-XP25-WC03-02	73	56	146	17				
CD04-17.5-XP25-WC03-02	75	56	148	17.5				
CD04-18.0-XP25-WC03-02	77	56	150	18				
CD04-18.5-XP25-WC03-02	79	56	152	18.5				
CD04-19.0-XP25-WC03-02	81	56	154	19				
CD04-19.5-XP25-WC03-02	83	56	155	19.5				
CD04-20.0-XP25-WC03-02	85	56	159	20				
CD04-20.5-XP25-WC03-02	87	56	161	20.5				
CD04-21.0-XP25-WC04-02	89	56	163	21				
CD04-21.5-XP25-WC04-02	91	56	165	21.5				
CD04-22.0-XP25-WC04-02	93	56	167	22				
CD04-22.5-XP25-WC04-02	95	56	169	22.5				
CD04-23.0-XP25-WC04-02	97	56	171	23				
CD04-23.5-XP25-WC04-02	99	56	173	23.5				
CD04-24.0-XP25-WC04-02	101	56	175	24				
CD04-24.5-XP25-WC04-02	103	56	177	24.5				
CD04-25-XP32-WC05-02	105	60	191	25	32	WCMT050308	M3 × 7	T8
CD04-25.5-XP32-WC05-02	107	60	193	25.5				
CD04-26-XP32-WC05-02	109	60	195	26				
CD04-26.5-XP32-WC05-02	111	60	197	26.5				
CD04-27-XP32-WC05-02	113	60	199	27				
CD04-27.5-XP32-WC05-02	115	60	201	27.5				
CD04-28-XP32-WC05-02	117	60	203	28				
CD04-28.5-XP32-WC05-02	119	60	205	28.5				
CD04-29-XP32-WC05-02	121	60	207	29				
CD04-29.5-XP32-WC05-02	123	60	209	29.5				
CD04-30-XP32-WC05-02	125	60	211	30				
CD04-30.5-XP32-WC05-02	127	60	213	30.5				
CD04-31-XP32-WC05-02	129	60	215	31				
CD04-31.5-XP32-WC05-02	131	60	217	31.5				

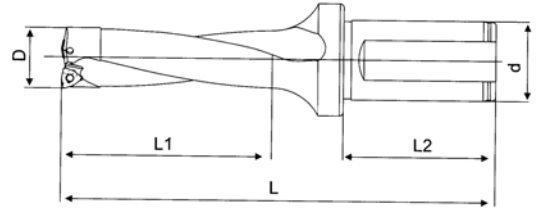
钻削系列 DISPOSABLE RAPID DRILLING TOOLS

CD2705-03 CD04-WC刀片 CD04-WC INSERT

型号Model No.	L1	L2	L	D	d	适用刀片 Applicable insert	螺丝 Screw	扳手 Wrench			
CD04-32-XP32-WC06-02	133	60	219	32	32	WCMT06T308	M3.5 × 8	研 T15			
CD04-32.5-XP32-WC06-02	135	60	221	32.5							
CD04-33-XP32-WC06-02	137	60	223	33							
CD04-33.5-XP32-WC06-02	139	60	225	33.5							
CD04-34-XP32-WC06-02	141	60	227	34							
CD04-34.5-XP32-WC06-02	143	60	229	34.5							
CD04-35-XP32-WC06-02	145	60	231	35							
CD04-35.5-XP32-WC06-02	147	60	233	35.5							
CD04-36-XP32-WC06-02	149	60	235	36							
CD04-36.5-XP32-WC06-02	151	60	237	36.5							
CD04-37-XP32-WC06-02	153	60	239	37							
CD04-37.5-XP32-WC06-02	155	60	241	37.5							
CD04-38-XP32-WC06-02	157	60	243	38							
CD04-38.5-XP32-WC06-02	159	60	245	38.5							
CD04-39-XP32-WC06-02	161	60	247	39							
CD04-39.5-XP32-WC06-02	163	60	249	39.5							
CD04-40-XP32-WC06-02	165	60	251	40					40	WCMT080412	M4 × 10
CD04-41-XP32-WC06-02	169	60	255	41							
CD04-42-XP32-WC06-02	173	60	259	42							
CD04-43-XP40-WC08-02	177	65	272	43							
CD04-44-XP40-WC08-02	181	65	276	44							
CD04-45-XP40-WC08-02	185	65	280	45							
CD04-46-XP40-WC08-02	189	65	284	46							
CD04-47-XP40-WC08-02	193	65	288	47							
CD04-48-XP40-WC08-02	197	65	292	48							
CD04-49-XP40-WC08-02	201	65	296	49							
CD04-50-XP40-WC08-02	205	65	300	50							
CD04-51-XP40-WC08-02	209	65	304	51							
CD04-52-XP40-WC08-02	213	65	308	52							
CD04-53-XP40-WC08-02	217	65	312	53							
CD04-54-XP40-WC08-02	221	65	316	54							
CD04-55-XP40-WC08-02	225	65	320	55							
CD04-56-XP40-WC08-02	229	65	324	56							
CD04-57-XP40-WC08-02	233	65	328	57							
CD04-58-XP40-WC08-02	237	65	332	58							
CD04-59-XP40-WC06-02	241	65	336	59	WCMT06T308	M3.5 × 8					
CD04-60-XP40-WC06-02	245	65	340	60							
CD04-61-XP40-WC06-02	249	65	344	61							
CD04-62-XP40-WC06-02	253	65	348	62							
CD04-63-XP40-WC06-02	257	65	352	63							
CD04-64-XP40-WC06-02	261	65	356	64							
CD04-65-XP40-WC06-02	265	65	360	65							

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

>>> CD2705-04 CD05-WC刀片 CD05-WC INSERT

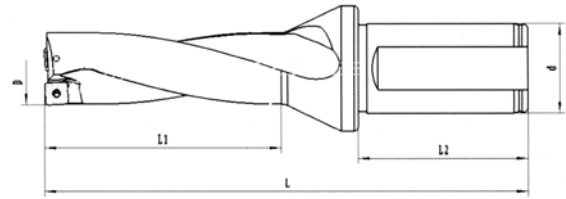


型号Model No.	L1	L2	L	D	d	适用刀片 Applicable insert	螺丝 Screw	扳手 Wrench	
CD05-14.0-XP25-WC03-02	75	56	148	14	25	WCMT030208	M2.5×6.5	T8	
CD05-14.5-XP25-WC03-02	77.5	56	150	14.5					
CD05-15.0-XP25-WC03-02	80	56	153	15					
CD05-15.5-XP25-WC03-02	82.5	56	155	15.5					
CD05-16.0-XP25-WC03-02	85	56	158	16					
CD05-16.5-XP25-WC03-02	87.5	56	160	16.5					
CD05-17.0-XP25-WC03-02	90	56	163	17					
CD05-17.5-XP25-WC03-02	92.5	56	165	17.5					
CD05-18.0-XP25-WC03-02	95	56	168	18					
CD05-18.5-XP25-WC03-02	97.5	56	170	18.5					
CD05-19.0-XP25-WC03-02	100	56	173	19					
CD05-19.5-XP25-WC03-02	102.5	56	174	19.5					
CD05-20.0-XP25-WC03-02	105	56	179	20					
CD05-20.5-XP25-WC03-02	107.5	56	181	20.5					
CD05-21.0-XP25-WC04-02	110	56	184	21					WCMT0-040208
CD05-21.5-XP25-WC04-02	112.5	56	186	21.5					
CD05-22.0-XP25-WC04-02	115	56	189	22					
CD05-22.5-XP25-WC04-02	117.5	56	193	22.5					
CD05-23.0-XP25-WC04-02	120	56	194	23					
CD05-23.5-XP25-WC04-02	122.5	56	196	23.5					
CD05-24.0-XP25-WC04-02	125	56	199	24					
CD05-24.5-XP25-WC04-02	127.5	56	201	24.5					
CD05-25-XP32-WC05-02	130	60	216	25	WCMT050308	M3×7	T8		
CD05-25.5-XP32-WC05-02	132.5	60	218	25.5					
CD05-26-XP32-WC05-02	135	60	221	26					
CD05-26.5-XP32-WC05-02	137.5	60	223	26.5					
CD05-27-XP32-WC05-02	140	60	226	27					
CD05-27.5-XP32-WC05-02	142.5	60	228	27.5					
CD05-28-XP32-WC05-02	145	60	231	28					
CD05-28.5-XP32-WC05-02	147.5	60	233	28.5					
CD05-29-XP32-WC05-02	150	60	236	29					
CD05-29.5-XP32-WC05-02	152.5	60	238	29.5					
CD05-30-XP32-WC05-02	155	60	241	30					
CD05-30.5-XP32-WC05-02	157.5	60	243	30.5					
CD05-31-XP32-WC05-02	160	60	246	31					
CD05-31.5-XP32-WC05-02	162.5	60	248	31.5					

钻削系列 DISPOSABLE RAPID DRILLING TOOLSOOLS

CD2705-04 CD05-WC刀片 CD05-WC INSERT

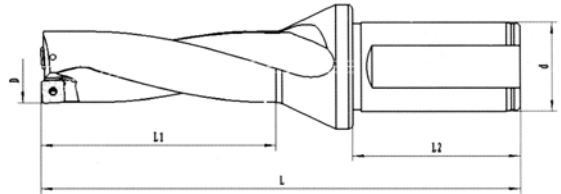
型号 Model No.	L1	L2	L	D	d	适用刀片 Applicable insert	螺丝 Screw	扳手 Wrench	
CD05-32-XP32-WC06-02	165	60	251	32	32	WCMT06T308	M3.5 × 8	T15	
CD05-32.5-XP32-WC06-02	167.5	60	253	32.5					
CD05-33-XP32-WC06-02	170	60	256	33					
CD05-33.5-XP32-WC06-02	172.5	60	258	33.5					
CD05-34-XP32-WC06-02	175	60	261	34					
CD05-34.5-XP32-WC06-02	177.5	60	263	34.5					
CD05-35-XP32-WC06-02	180	60	266	35					
CD05-35.5-XP32-WC06-02	182.5	60	268	35.5					
CD05-36-XP32-WC06-02	185	60	271	36					
CD05-36.5-XP32-WC06-02	187.5	60	273	36.5					
CD05-37-XP32-WC06-02	190	60	276	37					
CD05-37.5-XP32-WC06-02	192.5	60	278	37.5					
CD05-38-XP32-WC06-02	195	60	281	38					
CD05-38.5-XP32-WC06-02	197.5	60	283	38.5					
CD05-39-XP32-WC06-02	200	60	284	39					
CD05-39.5-XP32-WC06-02	202.5	60	288	39.5					
CD05-40-XP32-WC06-02	205	60	291	40					
CD05-41-XP32-WC06-02	210	60	296	41					
CD05-42-XP32-WC06-02	215	60	301	42					
CD05-43-XP40-WC08-02	220	65	315	43	40	WCMT080412	M4 × 10		
CD05-44-XP40-WC08-02	225	65	320	44					
CD05-45-XP40-WC08-02	230	65	325	45					
CD05-46-XP40-WC08-02	235	65	330	46					
CD05-47-XP40-WC08-02	240	65	335	47					
CD05-48-XP40-WC08-02	245	65	340	48					
CD05-49-XP40-WC08-02	250	65	345	49					
CD05-50-XP40-WC08-02	255	65	350	50					
CD05-51-XP40-WC08-02	260	65	355	51					
CD05-52-XP40-WC08-02	265	65	360	52					
CD05-53-XP40-WC08-02	270	65	365	53					
CD05-54-XP40-WC08-02	275	65	370	54					
CD05-55-XP40-WC08-02	280	65	375	55					
CD05-56-XP40-WC08-02	285	65	380	56					
CD05-57-XP40-WC08-02	290	65	385	57					
CD05-58-XP40-WC08-02	295	65	390	58					
CD05-59-XP40-WC06-02	300	65	395	59				WCMT06T308	M3.5 × 8
CD05-60-XP40-WC06-02	305	65	400	60					
CD05-61-XP40-WC06-02	310	65	405	61					
CD05-62-XP40-WC06-02	315	65	410	62					
CD05-63-XP40-WC06-02	320	65	415	63					
CD05-64-XP40-WC06-02	325	65	420	64					
CD05-65-XP40-WC06-02	330	65	425	65					

钻削系列 DISPOSABLE RAPID DRILLING TOOLS
CD2706-01 CD02-SP刀片 CD02-SP INSERT


型号Model No.	L1	L2	L	D	d	适用刀片 Applicable to insert	螺丝 Screw	扳手 Wrench				
CD02-13.0XP25-SP05-02	31	56	104	13	25	SPMG050204	M2X5	T6				
CD02-14.0XP25-SP05-02	33	56	106	14								
CD02-15.0XP25-SP05-02	35	56	108	15								
CD02-16.0XP25-SP06-02	37	56	110	16								
CD02-17.0XP25-SP06-02	39	56	112	17								
CD02-18.0XP25-SP06-02	41	56	114	18								
CD02-19.0XP25-SP06-02	43	56	116	19								
CD02-20.0XP25-SP06-02	45	56	119	20								
CD02-21.0XP25-SP06-02	47	56	121	21								
CD02-22.0XP25-SP07-02	49	56	123	22								
CD02-23.0XP25-SP07-02	51	56	125	23								
CD02-24.0XP25-SP07-02	53	56	127	24								
CD02-25.0XP32-SP07-02	55	60	141	25		SPMG060204	M2.5X6		T8			
CD02-26.0XP32-SP07-02	57	60	143	26								
CD02-27.0XP32-SP07-02	59	60	145	27								
CD02-28.0XP32-SP09-02	61	60	147	28								
CD02-29.0XP32-SP09-02	63	60	149	29								
CD02-30.0XP32-SP09-02	65	60	151	30								
CD02-31.0XP32-SP09-02	67	60	153	31								
CD02-32.0XP32-SP09-02	69	60	155	32	32	SPMG07T308	M3.5X8	T15				
CD02-33.0XP32-SP09-02	71	60	157	33								
CD02-34.0XP32-SP11-02	73	60	159	34								
CD02-35.0XP32-SP11-02	75	60	161	35								
CD02-36.0XP32-SP11-02	77	60	163	36								
CD02-37.0XP32-SP11-02	79	60	165	37								
CD02-38.0XP32-SP11-02	81	60	167	38								
CD02-39.0XP32-SP11-02	83	60	169	39								
CD02-40.0XP32-SP11-02	85	60	171	40					40	SPMG110408	M4X10	T20
CD02-41.0XP32-SP14-02	87	60	173	41								
CD02-42.0XP32-SP14-02	89	60	175	42								
CD02-43.0XP40-SP14-02	91	65	186	43								
CD02-44.0XP40-SP14-02	93	65	188	44								
CD02-45.0XP40-SP14-02	95	65	190	45								
CD02-46.0XP40-SP14-02	97	65	192	46								
CD02-47.0XP40-SP14-02	99	65	194	47								
CD02-48.0XP40-SP07-04	101	65	196	48	SPMG140512	M5X10	T8					
CD02-49.0XP40-SP07-04	103	65	198	49								
CD02-50.0XP40-SP07-04	105	65	200	50								
CD02-51.0XP40-SP07-04	107	65	202	51								
CD02-52.0XP40-SP09-04	109	65	204	52								
CD02-53.0XP40-SP09-04	111	65	206	53								
CD02-54.0XP40-SP09-04	113	65	208	54								
CD02-55.0XP40-SP09-04	115	65	210	55	SPMG07T308	M2.5X6	T15					
CD02-56.0XP40-SP09-04	117	65	212	56								
CD02-57.0XP40-SP09-04	119	65	214	57								
CD02-58.0XP40-SP09-04	121	65	216	58								
CD02-59.0XP40-SP09-04	123	65	218	59								
CD02-60.0XP40-SP14-02	125	65	220	60				SPMG090408	M3.5X8	T8		

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

CD2706-02 CD03-SP刀片 CD03-SP INSERT



型号Model No.	L1	L2	L	D	d	适用刀片 Applicable to insert	螺丝 Screw	扳手 Wrench
CD03-13.0XP25-SP05-02	44	56	117	13	25	SPMG050204	M2X5	T6
CD03-13.5XP25-SP05-02	45.5	56	118	13.5				
CD03-14.0XP25-SP05-02	47	56	120	14				
CD03-14.5XP25-SP06-02	48.5	56	122	14.5				
CD03-15.0XP25-SP06-02	50	56	123	15				
CD03-15.5XP25-SP06-02	51.5	56	124	15.5				
CD03-16.0XP25-SP06-02	53	56	126	16				
CD03-16.5XP25-SP06-02	54.5	56	127	16.5				
CD03-17.0XP25-SP06-02	56	56	129	17				
CD03-17.5XP25-SP07-02	57.5	56	130	17.5				
CD03-18.0XP25-SP07-02	59	56	132	18				
CD03-18.5XP25-SP07-02	60.5	56	133	18.5				
CD03-19.0XP32-SP07-02	62	56	135	19				
CD03-19.5XP32-SP07-02	63.5	56	136	19.5				
CD03-20.0XP32-SP07-02	65	56	139	20				
CD03-20.5XP32-SP09-02	66.5	56	140	20.5				
CD03-21.0XP32-SP09-02	68	56	142	21				
CD03-21.5XP32-SP09-02	69.5	56	143	21.5				
CD03-22.0XP32-SP09-02	71	56	145	22				
CD03-22.5XP32-SP09-02	72.5	56	148	22.5				
CD03-23.0XP32-SP09-02	74	56	148	23				
CD03-23.5XP32-SP11-02	75.5	56	149	23.5				
CD03-24.0XP32-SP11-02	77	56	151	24				
CD03-24.5XP32-SP11-02	78.5	56	152	24.5				
CD03-25.0XP32-SP11-02	80	60	166	25	32	SPMG07T308	M2.5X6	T8
CD03-25.5XP32-SP11-02	81.5	60	167	25.5				
CD03-26.0XP32-SP11-02	83	60	169	26				
CD03-26.5XP32-SP11-02	84.5	60	170	26.5				
CD03-27.0XP32-SP14-02	86	60	172	27				
CD03-27.5XP32-SP14-02	87.5	60	173	27.5				
CD03-28.0XP40-SP14-02	89	60	175	28				
CD03-28.5XP40-SP14-02	90.5	60	176	28.5				
CD03-29.0XP40-SP14-02	92	60	178	29				
CD03-29.5XP40-SP14-02	93.5	60	179	29.5				
CD03-30.0XP40-SP14-02	95	60	181	30				
CD03-30.5XP40-SP07-04	96.5	60	182	30.5				
CD03-31.0XP40-SP07-04	98	60	184	31				
CD03-31.5XP40-SP07-04	99.5	60	185	31.5				
CD03-32.0XP40-SP07-04	101	60	187	32				
CD03-32.5XP40-SP09-04	102.5	60	188	32.5				
CD03-33.0XP40-SP09-04	104	60	190	33				
CD03-33.5XP40-SP09-04	105.5	60	191	33.5				

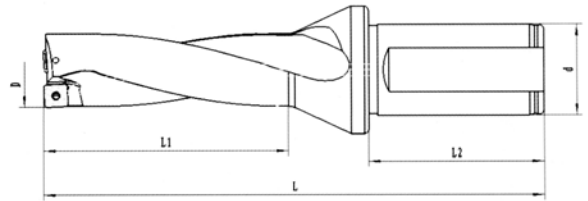
钻削系列 DISPOSABLE RAPID DRILLING TOOLS

>>> CD2706-02 CD03-SP刀片 CD03-SP INSERT

型号Model No.	L1	L2	L	D	d	适用刀片 Applicable to insert	螺丝 Screw	扳手 Wrench
CD03-34.0-XP32-SP11-02	107	60	193	34	32	SPMG110408	M4X10	T15
CD03-34.5-XP32-SP11-02	108.5	60	194	34.5				
CD03-35.0-XP32-SP11-02	110	60	196	35				
CD03-35.5-XP32-SP11-02	111.5	60	197	35.5				
CD03-36.0-XP32-SP11-02	113	60	199	36				
CD03-36.5-XP32-SP11-02	114.5	60	200	36.5				
CD03-37.0-XP32-SP11-02	116	60	202	37				
CD03-37.5-XP32-SP11-02	117.5	60	203	37.5				
CD03-38.0-XP32-SP11-02	119	60	205	38				
CD03-38.5-XP32-SP11-02	120.5	60	206	38.5				
CD03-39.0-XP32-SP11-02	122	60	206	39				
CD03-39.5-XP32-SP11-02	123.5	60	209	39.5				
CD03-40.0-XP32-SP11-02	125	60	211	40				
CD03-41.0-XP32-SP14-02	128	60	214	41				
CD03-42.0-XP32-SP14-02	131	60	217	42				
CD03-43.0-XP40-SP14-02	134	65	229	43	40	SPMG140512	M5X10	T20
CD03-44.0-XP40-SP14-02	137	65	232	44				
CD03-45.0-XP40-SP14-02	140	65	235	45				
CD03-46.0-XP40-SP14-02	143	65	238	46				
CD03-47.0-XP40-SP14-02	146	65	241	47				
CD03-48.0-XP40-SP07-04	149	65	244	48				
CD03-49.0-XP40-SP07-04	152	65	247	49				
CD03-50.0-XP40-SP07-04	155	65	250	50				
CD03-51.0-XP40-SP07-04	158	65	253	51				
CD03-52.0-XP40-SP09-04	161	65	256	52				
CD03-53.0-XP40-SP09-04	164	65	259	53				
CD03-54.0-XP40-SP09-04	167	65	262	54				
CD03-55.0-XP40-SP09-04	170	65	265	55				
CD03-56.0-XP40-SP09-04	173	65	268	56				
CD03-57.0-XP40-SP09-04	176	65	271	57				
CD03-58.0-XP40-SP09-04	179	65	274	58				
CD03-59.0-XP40-SP09-04	182	65	277	59				
CD03-60.0-XP40-SP09-04	185	65	280	60				
						SPMG07T308	M2.5X6	T8
						SPMG090408	M3.5X8	T15

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

CD2706-03 CD04-SP刀片 CD04-SP INSERT



型号Model No.	L1	L2	L	D	d	适用刀片 Applicable to insert	螺丝 Screw	扳手 Wrench
CD04-13.0-XP25-SP05-02	57	56	130	13	25	SPMG050204	M2X5	T6
CD04-13.5-XP25-SP05-02	59	56	132	13.5				
CD04-14.0-XP25-SP05-02	61	56	134	14				
CD04-14.5-XP25-SP05-02	63	56	136	14.5				
CD04-15.0-XP25-SP05-02	65	56	138	15				
CD04-15.5-XP25-SP06-02	67	56	140	15.5				
CD04-16.0-XP25-SP06-02	69	56	142	16				
CD04-16.5-XP25-SP06-02	71	56	144	16.5				
CD04-17.0-XP25-SP06-02	73	56	146	17				
CD04-17.5-XP25-SP06-02	75	56	148	17.5				
CD04-18.0-XP25-SP06-02	77	56	150	18				
CD04-18.5-XP25-SP06-02	79	56	152	18.5				
CD04-19.0-XP25-SP06-02	81	56	154	19				
CD04-19.5-XP25-SP06-02	83	56	155	19.5				
CD04-20.0-XP25-SP06-02	85	56	159	20				
CD04-20.5-XP25-SP06-02	87	56	161	20.5				
CD04-21.0-XP25-SP06-02	89	56	163	21				
CD04-21.5-XP25-SP06-02	91	56	165	21.5				
CD04-22.0-XP25-SP07-02	93	56	167	22				
CD04-22.5-XP25-SP07-02	95	56	169	22.5				
CD04-23.0-XP25-SP07-02	97	56	171	23				
CD04-23.5-XP25-SP07-02	99	56	173	23.5				
CD04-24.0-XP25-SP07-02	101	56	175	24				
CD04-24.5-XP25-SP07-02	103	56	177	24.5				
CD04-25.0-XP32-SP07-02	105	60	191	25	32	SPMG07T308	M2.5X6	T8
CD04-25.5-XP32-SP07-02	107	60	193	25.5				
CD04-26.0-XP32-SP07-02	109	60	195	26				
CD04-26.5-XP32-SP07-02	111	60	197	26.5				
CD04-27.0-XP32-SP07-02	113	60	199	27				
CD04-27.5-XP32-SP07-02	115	60	201	27.5				
CD04-28.0-XP32-SP09-02	117	60	203	28				
CD04-28.5-XP32-SP09-02	119	60	205	28.5				
CD04-29.0-XP32-SP09-02	121	60	207	29				
CD04-29.5-XP32-SP09-02	123	60	209	29.5				
CD04-30.0-XP32-SP09-02	125	60	211	30	32	SPMG090408	M3.5X8	T15
CD04-30.5-XP32-SP09-02	127	60	213	30.5				
CD04-31.0-XP32-SP09-02	129	60	215	31				
CD04-31.5-XP32-SP09-02	131	60	217	31.5				
CD04-32.0-XP32-SP09-02	133	60	219	32				
CD04-32.5-XP32-SP09-02	135	60	221	32.5				
CD04-33.0-XP32-SP09-02	137	60	223	33				
CD04-33.5-XP32-SP09-02	139	60	225	33.5				
CD04-34.0-XP32-SP11-02	141	60	227	34				
CD04-34.5-XP32-SP11-02	143	60	229	34.5				
CD04-35.0-XP32-SP11-02	145	60	231	35	32	SPMG110408	M4X10	

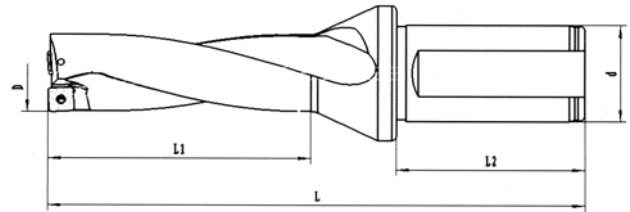
钻削系列 DISPOSABLE RAPID DRILLING TOOLS

>>> CD2706-03 CD04-SP刀片 CD04-SP INSERT

型号Model No.	L1	L2	L	D	d	适用刀片 Applicable to insert	螺丝 Screw	扳手 Wrench			
CD04-35.5-XP32-SP11-02	147	60	233	35.5	32	SPMG110408	M4X10	T15			
CD04-36.0-XP32-SP11-02	149	60	235	36							
CD04-36.5-XP32-SP11-02	151	60	237	36.5							
CD04-37.0-XP32-SP11-02	153	60	239	37							
CD04-37.5-XP32-SP11-02	155	60	241	37.5							
CD04-38.0-XP32-SP11-02	157	60	243	38							
CD04-38.5-XP32-SP11-02	159	60	245	38.5							
CD04-39.0-XP32-SP11-02	161	60	247	39							
CD04-39.5-XP32-SP11-02	163	60	249	39.5							
CD04-40.0-XP32-SP11-02	165	60	251	40							
CD04-41.0-XP40-SP14-02	169	60	255	41					40	SPMG140512	M5X10
CD04-42.5-XP40-SP14-02	173	60	259	42							
CD04-43.0-XP40-SP14-02	177	65	272	43							
CD04-44.0-XP40-SP14-02	181	65	276	44							
CD04-45.0-XP40-SP14-02	185	65	280	45							
CD04-46.0-XP40-SP14-02	189	65	284	46							
CD04-47.0-XP40-SP14-02	193	65	288	47							
CD04-48.0-XP40-SP07-04	197	65	292	48							
CD04-49.0-XP40-SP07-04	201	65	296	49							
CD04-50.0-XP40-SP07-04	205	65	300	50							
CD04-51.0-XP40-SP07-04	209	65	304	51							
CD04-52.0-XP40-SP09-04	213	65	308	52	SPMG07T308	M2.5X6	T8				
CD04-53.0-XP40-SP09-04	217	65	312	53							
CD04-54.0-XP40-SP09-04	221	65	316	54							
CD04-55.0-XP40-SP09-04	225	65	320	55							
CD04-56.0-XP40-SP09-04	229	65	324	56							
CD04-57.0-XP40-SP09-04	233	65	328	57							
CD04-58.0-XP40-SP09-04	237	65	332	58							
CD04-59.0-XP40-SP09-04	241	65	336	59							
CD04-60.0-XP40-SP09-04	245	65	340	60							
									SPMG090408	M3.5X8	T15

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

CD2706-04 CD05-SP刀片 CD05-SP INSERT



型号Model No.	L1	L2	L	D	d	适用刀片 Applicable to insert	螺丝 Screw	扳手 Wrench
CD05-13.0-XP25-SP05-02	70	56	143	13	25	SPMG050204	M2X5	T6
CD05-13.5-XP25-SP05-02	72.5	56	145	13.5				
CD05-14.0-XP25-SP05-02	75	56	148	14				
CD05-14.5-XP25-SP05-02	77.5	56	150	14.5				
CD05-15.0-XP25-SP05-02	80	56	153	15				
CD05-15.5-XP25-SP06-02	82.5	56	155	15.5				
CD05-16.0-XP25-SP06-02	85	56	158	16				
CD05-16.5-XP25-SP06-02	87.5	56	160	16.5				
CD05-17.0-XP25-SP06-02	90	56	163	17				
CD05-17.5-XP25-SP06-02	92.5	56	165	17.5				
CD05-18.0-XP25-SP06-02	95	56	168	18				
CD05-18.5-XP25-SP06-02	97.5	56	170	18.5				
CD05-19.0-XP25-SP06-02	100	56	173	19				
CD05-19.5-XP25-SP06-02	102.5	56	174	19.5				
CD05-20.0-XP25-SP06-02	105	56	179	20				
CD05-20.5-XP25-SP06-02	107.5	56	181	20.5				
CD05-21.0-XP25-SP06-02	110	56	184	21				
CD05-21.5-XP25-SP06-02	112.5	56	186	21.5				
CD05-22.0-XP25-SP07-02	115	56	189	22				
CD05-22.5-XP25-SP07-02	117.5	56	193	22.5				
CD05-23.0-XP25-SP07-02	120	56	194	23				
CD05-23.5-XP25-SP07-02	122.5	56	196	23.5				
CD05-24.0-XP25-SP07-02	125	56	199	24				
CD05-24.5-XP25-SP07-02	127.5	56	201	24.5				
CD05-25.0-XP32-SP07-02	130	60	216	25	32	SPMG07T308	M2.5X6	T8
CD05-25.5-XP32-SP07-02	132.5	60	218	25.5				
CD05-26.0-XP32-SP07-02	135	60	221	26				
CD05-26.5-XP32-SP07-02	137.5	60	223	26.5				
CD05-27.0-XP32-SP07-02	140	60	226	27				
CD05-27.5-XP32-SP07-02	142.5	60	228	27.5				
CD05-28.0-XP32-SP09-02	145	60	231	28				
CD05-28.5-XP32-SP09-02	147.5	60	233	28.5				
CD05-29.0-XP32-SP09-02	150	60	236	29				
CD05-29.5-XP32-SP09-02	152.5	60	238	29.5				
CD05-30.0-XP32-SP09-02	155	60	241	30				
CD05-30.5-XP32-SP09-02	157.5	60	243	30.5				
CD05-31.0-XP32-SP09-02	160	60	246	31				
CD05-31.5-XP32-SP09-02	162.5	60	248	31.5				
CD05-32.0-XP32-SP09-02	165	60	251	32				
CD05-32.5-XP32-SP09-02	167.5	60	253	32.5				
CD05-33.0-XP32-SP09-02	170	60	256	33				
CD05-33.5-XP32-SP09-02	172.5	60	258	33.5				
CD05-34.0-XP32-SP11-02	175	60	261	34				
CD05-34.5-XP32-SP11-02	177.5	60	263	34.5				
CD05-35.0-XP32-SP11-02	180	60	266	35				
CD05-35.5-XP32-SP11-02	182.5	60	268	35.5				
						SPMG110408	M4X10	T15

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

>>> CD2706-04 CD05-SP刀片 ZD05-SP INSERT

型号Model No.	L1	L2	L	D	d	适用刀片 Applicable to insert	螺丝 Screw	扳手 Wrench
CD05-36.0-XP32-SP11-02	185	60	271	36	32	SPMG110408	M4X10	T15
CD05-36.5-XP32-SP11-02	187.5	60	273	36.5				
CD05-37.0-XP32-SP11-02	190	60	276	37				
CD05-37.5-XP32-SP11-02	192.5	60	278	37.5				
CD05-38.0-XP32-SP11-02	195	60	281	38				
CD05-38.5-XP32-SP11-02	197.5	60	283	38.5				
CD05-39.0-XP32-SP11-02	200	60	284	39				
CD05-39.5-XP32-SP11-02	202.5	60	288	39.5				
CD05-40.0-XP32-SP11-02	205	60	291	40				
CD05-41.0-XP32-SP14-02	210	60	296	41				
CD05-42.0-XP32-SP14-02	215	60	301	42				
CD05-43.0-XP40-SP14-02	220	65	315	43				
CD05-44.0-XP40-SP14-02	225	65	320	44				
CD05-45.0-XP40-SP14-02	230	65	325	45				
CD05-46.0-XP40-SP14-02	235	65	330	46				
CD05-47.0-XP40-SP14-02	240	65	335	47				
CD05-48.0-XP40-SP07-04	245	65	340	48				
CD05-49.0-XP40-SP07-04	250	65	345	49				
CD05-50.0-XP40-SP07-04	255	65	350	50				
CD05-51.0-XP40-SP07-04	260	65	355	51				
CD05-52.0-XP40-SP09-04	265	65	360	52				
CD05-53.0-XP40-SP09-02	270	65	365	53				
CD05-54.0-XP40-SP09-04	275	65	370	54				
CD05-55.0-XP40-SP09-04	280	65	375	55	SPMG090408	M3.5X8	T15	
CD05-56.0-XP40-SP09-04	285	65	380	56				
CD05-57.0-XP40-SP09-04	290	65	385	57				
CD05-58.0-XP40-SP09-04	295	65	390	58				
CD05-59.0-XP40-SP09-04	300	65	395	59				
CD05-60.0-XP40-SP09-04	305	65	400	60				

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

》》》 VMD可转位大钻头大幅提高加工效率

VMD Indexable big drill tool cutter can significantly improve processing efficiency



工艺	工艺过程	转速	进给	加工时间	总用时长
传统工艺	①Φ60麻花钻	80	16	1小时10分钟	150分钟
	②粗镗刀一	200	30	40分钟	
	③粗镗刀二	200	30	40分钟	
新工艺	VMD可转位大钻头Φ105	280	45	18分钟	18分钟

加工Φ105m孔深550mm, 材料42Crmo、HB220

Crafts	Crafts Process	Speed	Feed	ProcessTime	Total Time
Traditional Crafts	①Φ60twish drill	80	16	1h10min	150min
	②rough boring cutter1	200	30	40min	
	③ough boring cutter2	200	30	40min	
New Crafts	VMD index able drillΦ105	280	45	18min	18min

MachiningΦ105m depth 550mm,material 42Crmo,HB220

钻头转速

$$n = \frac{V_c \times 1000}{\pi \times D_m}$$

V_c = 线速度 100m/min
 D_m = 钻头直径
 n = 主轴转速

实例: 以钻头直径Φ100为例。

$$n = \frac{100 \times 1000}{3.14 \times 100} = 318 \text{ rev/min}$$

进给速度

$$V_f = f_z \times n$$

V_f = 进给速度
 f_z = 每转进给量
 n = 主轴转速

实例: 以钻头直径Φ100为例,每转进给量0.15mm/rev。

$$V_f = 0.15 \times 318 = 47.7 \text{ mm/min}$$

孔加工时间

$$T_c = \frac{l_m}{V_f} \times 60$$

$T_c(s)$ = 加工时间
 l_m = 孔的加工深度

实例: 以钻头直径Φ100为例,孔加工深度为100mm。

$$T_c = \frac{100 \times 60}{47.7} = 126(s)$$

在石油、煤矿等机械行业中,大孔加工越来越普遍,应用VMD可转为大钻头可大幅的提高加工效率。VMD可转为大钻头的亮点:

- 一、采用中心导向钻结构, 有较好的定心效果, 从而保证孔位有良好的直线度。
- 二、内外刀刃采用可替换小刀夹结构。在实际使用中, 最易损坏的是外刃刀夹。通过替换小刀夹, 避免了整支钻头的报废, 节省了刀具成本。
- 三、通过调整外刀夹, 钻头加工尺寸可以在0-5mm内变动。
- 四、刀头和刀柄采用组合式结构。加工不同孔的深度, 只需要换不同长度的刀柄即可。
- 五、钻头有中心出水孔, 可以较好的冷却刀片, 延长刀片的使用寿命, 同时有利于排屑。
- 六、采用可转位硬质合金刀片切削, 有较高的转速和进给, 孔壁光洁度有大幅的提升。
- 七、加工过程中, 铁屑均为断屑状态, 没有传统麻花钻的细长缠绕的铁屑, 安全性大大提高。
- 八、加工中, 自动连续进刀, 不需要每次退刀回屑, 效率大幅提升。

In the oil, coal and other machine industries, as oversize hole machining becomes more and more common, the application of VMD indexable drill can greatly improve the machining efficiency.

The bright spot of VMD indexable deill:

- Using the structure of center guide drill with better centering effect to make sure hole site agood straightness.
- Internal and External cutter edge is applied to the structure of replaceable clamp tool.
- In practical using ,the most vulnerable is external edge clamp.Replacing clamp can avoid the drill scrapped to save the tool cost.
- Adjusting external clamp, the dimension of drill machining can vary within 0-5mm.
- Cutter head and shank are modular structure.Only change different length shank during processing the different depth of the hole.
- Drill with center water hole can cool insert better,extend insert life and accelerate chip evacuation.
- Using indexable carbide insert cutting with high speed and feed,surface finish has greatly improved.
- In the process,security is greatly improved as chip is breaker not slender twining of traditional twist drill.
- In the process,automatic continuous feed,and don't need tool back off to chip,and efficiency is greatly improved.

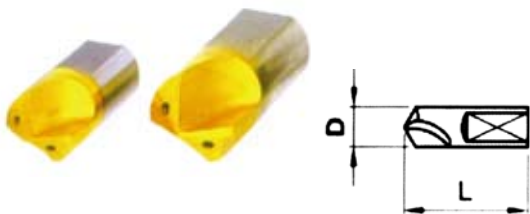
钻削系列 DISPOSABLE RAPID DRILLING TOOLS

CD2707-01 小刀夹 SMALL TOOL HOLDER



型号Model No.	内刀Inside knife	外刀Outside knife	刀片Insert	刀刃数Blade	螺丝Screw	扳手Wrench
45-50	VNC-045050N	VMC-045050T	WC.030204	2	TSB-22045	T6
50-55	VNC-050055N	VMC-050055T				
55-60	VNC-055060N	VMC-055060T	WC.040204	2	TSB-25055	T10
60-65	VNC-060065N	VMC-060065T	WC.050308	2	TSB-30070	
65-70	VNC-065070N	VMC-065070T				
70-75	VNC-070075N	VMC-070075T				
75-80	VNC-075080N	VMC-075080T	WC.06T308	2	TSB-35090	T15
80-85	VNC-080085N	VMC-080085T				
85-90	VNC-085090N	VMC-085090T				
90-95	VNC-090095N	VMC-090095T				
95-100	VNC-095100N	VMC-095100T	WC.06T308	3	TSB-35090	T15
100-105	VNC-100105N	VMC-100105T				
105-110	VNC-105110N	VMC-105110T				
110-115	VNC-110115N	VMC-110115T				
115-120	VNC-115120N	VMC-115120T				
120-125	VNC-120125N	VMC-120125T				
125-130	VNC-125130N	VMC-125130T				
130-135	VNC-130135N	VMC-130135T				
135-140	VNC-135140N	VMC-135140T				
140-150	VNC-140150N	VMC-140150T				
150-160	VNC-150160N	VMC-150160T				
160-170	VNC-160170N	VMC-160170T				
170-180	VNC-170180N	VMC-170180T				

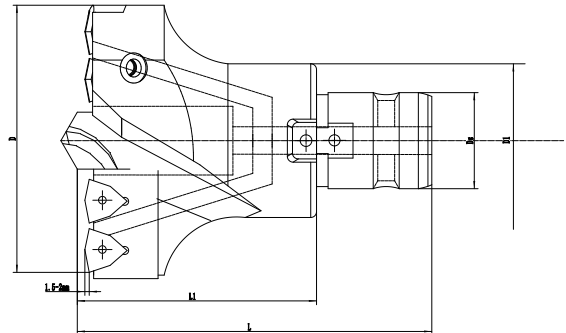
CD2707-02 定心钻 SPOT DRILLING



型号Model No.	D	L
PLD-V1035 TIN-H	10	35
PLD-V1238 TIN-H	12	38
PLD-V1645 TIN-H	16	45
PLD-2045 TIN-H	20	45
PLD-2256 TIN-H	25	56
PLD-3068 TIN-H	30	68

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

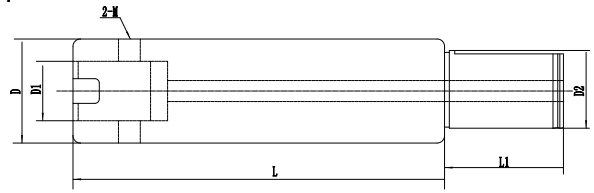
CD2707-03 VMD大钻头 BIG DRILL TOOL



型号Model No.	D	Ds	D1	导向钻D2	L1	L	刀夹Tool holder	适用刀片 Suitable Insert	螺丝Screw	扳手Wrench
VMD-045050	45-50	16	30	PLS-1035 TiN-H	60	95	VMC-045050N/T	WCMT030208	TSB-25055	T8
VMD-050055	50-55						VMC-050055N/T			
VMD-055060	55-60						VMC-055060N/T			
VMD-060065	60-65	25	45	PLS1238 TiN-H	82	127	VMC-060065N/T	WCMT050308	TSB-30070	T15
VMD-065070	65-70						VMC-065070N/T			
VMD-070075	70-75						VMC-070075N/T			
VMD-075080	75-80						VMC-075080N/T			
VMD-080085	80-85	30	50	PLS-1645 TiN-H	139	139	VMC-080085N/T	WCMT06T308	TSB-35090	T15
VMD-085090	85-90						VMC-085090N/T			
VMD-090095	90-95						VMC-090095N/T			
VMD-095100	95-100	32	58	PLS-2045 TiN-H	94	154	VMC-095100N/T	WCMT050308	TSB-30070	T8
VMD-100105	100-105						VMC-100105N/T			
VMD-105110	105-110						VMC-105110N/T			
VMD-110115	110-115	40	70	PLS-2045 TiN-H	104	154	VMC-110115N/T	WCMT06T308	TSB-35090	T15
VMD-115120	115-120						VMC-115120N/T			
VMD-120125	120-125						VMC-120125N/T			
VMD-125130	125-130						VMC-125130N/T			
VMD-130135	130-135						VMC-130135N/T			
VMD-135140	135-140						VMC-135140N/T			
VMD-140145	140-145	50	80	PLS-2556 TiN-H	116	176	VMC-140145N/T	WCMT080408	TSB-40110	T15
VMD-145150	145-150						VMC-145150N/T			
VMD-150155	150-155						VMC-150155N/T			
VMD-155160	155-160						VMC-155160N/T			
VMD-160165	160-165						VMC-160165N/T			
VMD-165170	165-170						VMC-165170N/T			
VMD-170175	170-175						VMC-170175N/T			
VMD-175180	175-180						VMC-175180N/T			

钻削系列 DISPOSABLE RAPID DRILLING TOOLS

>>> CD2707-04 连接杆 CONNECTING ARBOP



型号 Model No.	D	D1	D2	L	L1	M	适用范围Range
DXZ-3016100	30	16	32	100	75	M10X1	Φ45--Φ55
DXZ-3013150	30	16	32	150	75	M10X1	
DXZ-3016200	30	16	32	200	75	M10X1	
DXZ-3016250	30	16	32	250	75	M10X1	
DXZ-3016300	30	16	32	300	75	M10X1	
DXZ-3016400	30	16	32	400	75	M10X1	
DXZ-4525100	45	25	40	100	75	M10X1	Φ60--Φ80
DXZ-4525150	45	25	40	150	75	M10X1	
DXZ-4525200	45	25	40	200	75	M10X1	
DXZ-4525250	45	25	40	250	75	M10X1	
DXZ-4525300	45	25	40	300	75	M10X1	
DXZ-4525400	45	25	40	400	75	M10X1	Φ85--Φ95
DXZ-5030100	50	30	40	100	75	M12X1	
DXZ-5030150	50	30	40	150	75	M12X1	
DXZ-5030200	50	30	40	200	75	M12X1	
DXZ-5030250	50	30	40	250	75	M12X1	
DXZ-5030300	50	30	40	300	75	M12X1	
DXZ-5030400	50	30	40	400	75	M12X1	Φ100--Φ110
DXZ-5832100	58	32	40	100	75	M12X1	
DXZ-5832150	58	32	40	150	75	M12X1	
DXZ-5832200	58	32	40	200	75	M12X1	
DXZ-5832250	58	32	40	250	75	M12X1	
DXZ-5832300	58	32	40	300	75	M12X1	
DXZ-5832400	58	32	40	400	75	M12X1	Φ115--Φ135
DXZ-7040100	70	40	50	100	80	M12X1	
DXZ-7040150	70	40	50	150	80	M12X1	
DXZ-7040200	70	40	50	200	80	M12X1	
DXZ-7040250	70	40	50	250	80	M12X1	
DXZ-7040300	70	40	50	300	80	M12X1	
DXZ-8050400	70	40	50	400	80	M12X1	Φ140--Φ195
DXZ-8050100	80	50	50	100	80	M12X1	
DXZ-8050150	80	50	50	150	80	M12X1	
DXZ-8050200	80	50	50	200	80	M12X1	
DXZ-8050250	80	50	50	250	80	M12X1	
DXZ-8050300	80	50	50	300	80	M12X1	
DXZ-8050400	80	50	50	400	80	M12X1	

CD2801-01 2刃/4刃高速铣削硬质合金铣刀

2 Blade/4 Blade High speed milling carbide cutter

- ◆材质：德国进口硬质合金材料；
- ◆最高适合转速可为：40000RPM铣削加工；
- ◆表面处理：德国技术特殊表面涂层处理；
- ◆加工：适用于高速铣削，加工65HRC硬度以下的零件的铣削加工，可与欧美铣削加工工艺相媲美。
- ◆Material: Germany imported carbide materials;
- ◆Highest speed can be: 40000 RPM milling process
- ◆Surface treatment: German technology special surface coating treatment;
- ◆Processing: suitable for high speed milling, can work under 60 HRC hardness milling machining parts, Can be comparable with the European and American milling process.



2blades milling cutter(standard)				
Moder No.	Dia	Length	Processing hardness(HRC)	
0.3	4.0	50	-	milling cutter 60
0.4	4.0		-	
0.5	4.0		60	
0.6	4.0			
0.8	4.0			
R0.5	4.0			
R0.75	4.0		45、55、60、65 bronze	-
R1.0	4.0			-
R1.25	4.0			-
R1.5	4.0			-
R2.0	4.0			-
R0.5	6.0			-
R0.75	6.0		45、55	-
R1.0	6.0			-
R1.5	6.0			-
R2.0	6.0			-
R2.5	6.0	-		
R3.0	6.0	45、55、60、65 bronze		-
R4.0	8.0	60	45、55、60、65 bronze	-
R5.0	10.0	75		-
R6.0	12.0	75		-
R8.0	16.0	100		-
R10.0	20.0	100	45、55	-

2blades milling cutter(standard)				
Moder No.	Dia	Length	Processing hardness(HRC)	
R1.5	3.0	100	45、55	-
2.0	4.0	100		60、65 bronze
2.5	6.0	100		-
3.0	6.0	75		-
3.0	6.0	100		60、65 bronze
3.0	6.0	150		-
4.0	8.0	100		60、65 bronze
4.0	8.0	150		-
5.0	10.0	100		60、65 bronze
5.0	10.0	150		-
6.0	12.0	100		60、65 bronze
6.0	12.0	150		-
8.0	16.0	150		-
10.0	20.0	150		-

铣削刀片系列 MILLING CUTTING INSERT SERIES

»» CD2901-01 精铣刀片 FINISH-MILLING INSERT

型号 Model No.	D	T	L	R	
CDTD-D12	12	3	10	6.0	
CDTD-D16	16	4	12	8.0	
CDTD-D20	20	5	15	10.0	
CDTD-D25	25	6	18.5	12.5	
CDTD-D30	30	7	22.5	15.0	
CDTB-D12	12	2.5	6	5	
CDTB-D16	16	3	6	5	
CDTB-D20	20	3	6	5	
CDTB-D25	25	4	9	6	
CDTB-D30	30	5	10	8	
CDFW120-R0.5	12	3.2	14.6	0.5	
CDFW120-R1.0	12	3.2	14.6	1.0	
CDFW160-R0.5	16	4.2	16.6	0.5	
CDFW160-R1.0	16	4.2	16.6	1.0	
CDFW200-R0.5	20	5.2	20.3	0.5	
CDFW200-R1.0	20	5.2	20.3	1.0	
CDFW250-R1.0	25	6.2	24.1	1.0	
CDFW250-R2.0	25	6.2	24.1	2.0	
CDFW300-R0.5	30	7.2	29.2	1.0	
CDFW300-R1.0	30	7.2	29.2	2.0	
CDFG120	12	3.2	14.6	6.0	
CDFG160	16	4.2	16.6	8.0	
CDFG200	20	5.2	16.6	8.0	
CDFG250	25	6.2	24.1	12.5	
CDFG300	30	7.2	29.2	15	

CD3001-01 电磁感应热装机 ELECTROMAGNETIC HEATER



电磁感应热装机 Electromagnetic Heater

高效 节能 操作简便 通用性强大

φ3-φ25钨钢刀，加热不需要更换线圈，可加热不锈钢模具钢等不同钢材。



机型 H5000

电源 220V 50/60Hz

冷却方式 压缩空气,4kgf/cm

加热适用材料 不锈钢、模具钢、工具钢

外形尺寸 420 × 490 × 765mm

加热方式 电磁感应

最大输出功率 5KW

加热圈内径 φ45和φ55mm任选

重量 21KG

加热参数（仅供参考，加热时间需按实际操作自定）

钨钢刀直径	加热时间
φ3-8	15-25s
φ10-16	25-35s
φ20-25	35-55s



非标产品 NON-STANDARD PRODUCTS

非标产品 Non-standard Products



小径延长杆 Trail extension rod

◆小径延长杆：螺帽及杆的直径都为Φ10，夹头夹持范围为1-3.2mm,更适合深孔小孔加工。

◆Trail extension rod: diameter of the nut and rod are Φ10, Chuck range of 1-3.2mm, more suitable for deep hole machining.



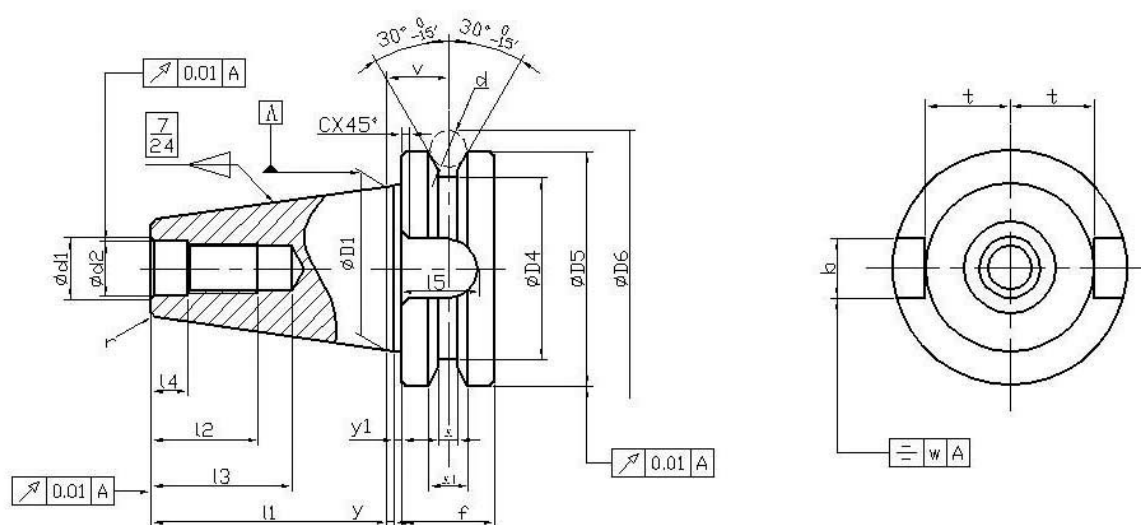
柔性筒夹 Collets for tapping heads

型号 Model No.	加持范围 capacity
R3.30TC/DC	.094-177"
SPD3	.177-256"
R5.50TC/DC	.139-257"
SPD5	.253-383"
R7.70TC/DC	.176-383"
SPD7	.328-500"
R7	.5.75"

»» 技术资料 Technical data

ST 有键槽高速刀柄标准

STANDARD OF ST HIGH SPEED COLLET CHUCK WITH KEYWAY



型号 Model No.	D1	l1 ±0.15	r (最大)	d1	d2 H8	g 6H	l2 (最小)	l3 (最小)	l4 ±0.5 0	b H12	l5 (最小)	t 0 -0.2	w	C (最大)
S5T	12.700	13	0.3	6.5	5.5	M5	13	15	5.5	6.5	8	6.5	0.1	0.3
S10T	15.875	16.5	0.3	7.5	6.5	M6	15	18	5.5	6.5	8	8.2	0.1	0.3
S15T	19.050	20	0.5	9.5	8.5	M8	18	22	6.5	8.1	9.5	9.8	0.1	0.3
S20T	22.225	25	0.5	9.5	8.5	M8	18	22	6.5	8.1	9.5	11.4	0.1	0.3
S25T	25.400	30	0.5	11.5	10.5	M10	22	28	7.5	9.6	11	13	0.1	0.3

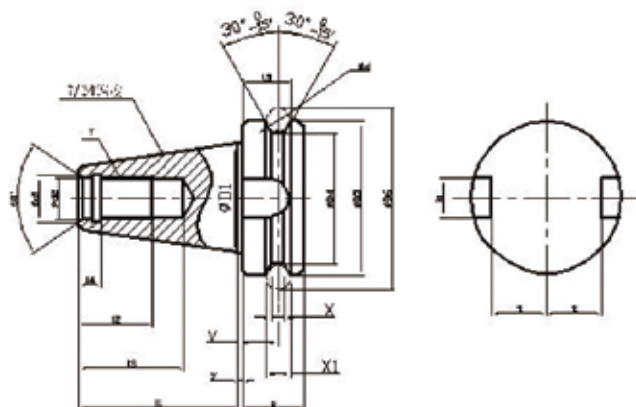
型号 Model No.	D4	D5 h8	f	v ±0.1	x	x1 ±0.1 0	y ±0.4	y1 0 -0.4	角度许容差 AT _D	小端径	d	D6
S5T	15	20	10	6	2	4	1	1	+0.0021 0	8.908	4	25.072
S10T	18	23	10	6	2	4	1	1	+0.0021 0	11.063	4	28.072
S15T	21	27	11	7	2.5	5	1.5	1.5	+0.0025 0	13.216	5	33.340
S20T	24	30	11	7	2.5	5	1.5	1.5	+0.0025 0	14.933	5	36.340
S25T	28	35	13	8.5	3	6	2	2	+0.0030 0	16.650	6	42.608

 MAS 403/BT

◇ A Type:

中心孔不通

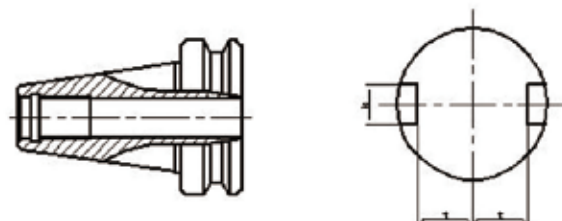
Without through hole



◇ AD Type:

中心进水冷却

Without through hole for center coolant



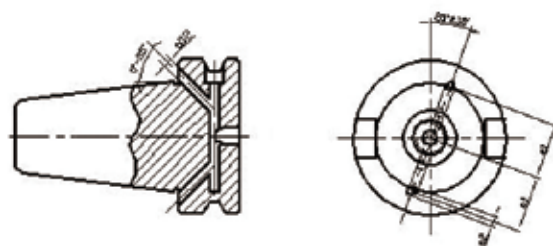
◇ AD+B Type:

中心进水冷却与法兰盘侧面进水冷却两种形式

Form AD and form B, the former is in the center

cold, the latter is in the flange plate cold, These

Two Forms Can Transform



Taper No.	Model No.	D1	L1 ± 0.2	d1	d2 H8	T	L2min	L3 min	L4 + 0.5	bH12	L5min	t-0.2
30	MAS-BT	31.75	48.4	14	12.5	M12	24	34	7.0	16.1	17	16.3
35	MAS-BT	38.1	56.4	14	12.5	M12	24	34	7.0	16.1	20	19.6
40	MAS-BT	44.45	65.4	19	17	M16 × 2	30	43	9.0	16.1	21	22.6
45	MAS-BT	57.15	82.8	23	21	M20 × 2.5	38	53	11.0	19.3	26	29.1
50	MAS-BT	69.85	101.8	27	25	M24 × 3	45	62	13.0	25.7	31	35.4

Taper No.	Model No.	D4	D5-0.05	e	e1	e2	d12	V ± 0.1	X + 0.15	X1 + 0.1	y ± 0.4	d	D6
30	MAS-BT	38	46	20	21	5	4	13.6	4	8	2	8	56.144
35	MAS-BT	43	53	22	23	5	4	14.6	5	10	2	10	65.68
40	MAS-BT	53	63	25	27	5	4	16.6	5	10	2	10	75.679
45	MAS-BT	73	85	30	35	6	5	21.2	6	12	3	12	100.216
50	MAS-BT	85	100	35	42	7	6	23.2	7	15	3	15	119.02

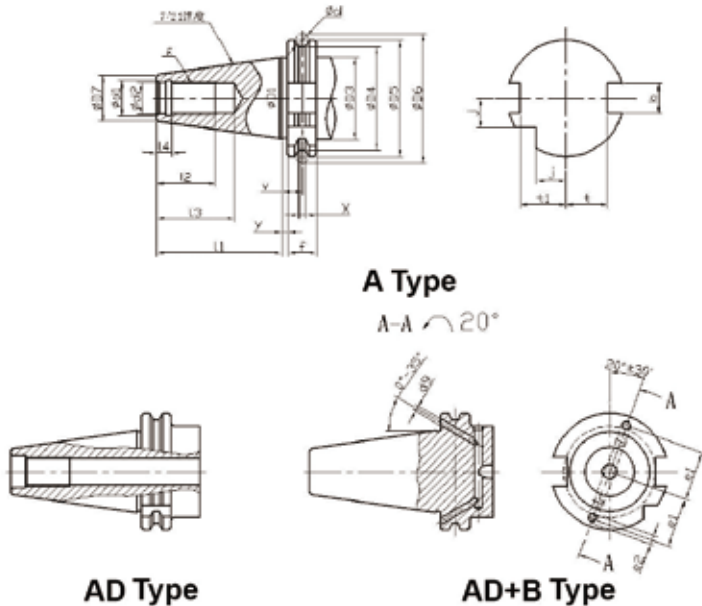
◎ 订购MAS403/BT刀柄样式时，如需中心进水与法兰盘侧面进水冷却的刀柄，请注明AD+B型，如：BT40 (AD+B) /ER32-60L

◎ 根据需要可提供动平衡刀柄，刀柄精度为G6.3/12000rpm，精密精度G2.5/20000rpm，并注明具体精度

◎ When order MAS403/BT chuck, if you need center cooling and flange plate cooling, please specify AD+B, such as:
BT40 (AD+B) /ER32-60L

◎ We can provide balancing chuck, precision G6.3 /12000 rpm, G2.5/ 20000 rpm, please specify what precision you need

»»» DIN69871-SK/JT/DAT/ 或 DV



◇ A Type:
中心孔不通
Without through hole

◇ AD Type:
中心进水冷却
Without through hole for center coolant

◇ AD+B Type:
中心进水冷却与法兰盘侧面进水冷却两种形式
Form AD and form B, the former is in the center cold, the latter is in the flange plate cold, These Two Forms Can Transform

Taper No.	Model No.	D1	L1-0.3	d1max	d2H7	g	L2min	L3min	L4+0.5	b+0.18	t-0.4	t1-0.4	j-0.3
30	DIN-SK	31.75	47.8	14.5	13	M12×1.75	24	33.5	5.5	16.1	16.3	18.8	15
40	DIN-SK	44.45	68.4	19.0	17	M16×2	32	42.5	8.2	16.1	22.7	25	18.5
45	DIN-SK	57.15	82.7	23.5	21	M20×2.5	40	52.5	10.0	19.3	29.1	31.3	24.0
50	DIN-SK	69.85	101.75	28.0	25	M24×3	47	61.5	11.5	25.7	35.5	37.7	30.0

Taper No.	Model No.	D3max	D4-0.5	D5-0.01	e1	e2	d9	f	V±0.1	X+0.15	y±0.1	D7	d	D6±0.05
30	DIN-SK	45	44.3	50	21	5	4	15.9	11.1	3.75	3.2	17.808	7	59.3
40	DIN-SK	50	56.25	63.55	27	5	4	15.9	11.1	3.75	3.2	24.5	7	72.3
45	DIN-SK	63	75.25	82.55	35	6	5	15.9	11.1	3.75	3.2	33.029	7	91.35
50	DIN-SK	80	91.25	97.50	42	7	6	15.9	11.1	3.75	3.2	40.173	7	107.25

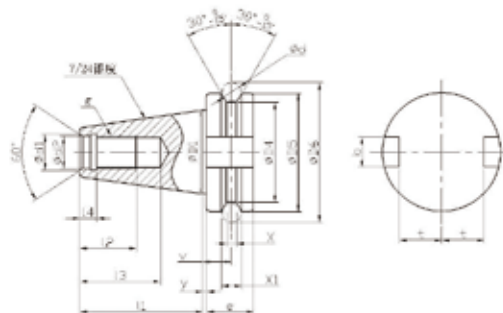
◎ 订购SK (DIN69871A) 刀柄样式时, 如需中心进水与法兰盘侧面进水冷却的刀柄, 请注明AD+B型, 如: SK40 (AD+B) /ER32-60L

◎ 根据需要可提供动平衡刀柄, 刀柄精度为G6.3/12000rpm, 精密精度G2.5/20000rpm, 并注明具体精度

◎ When order DIN69871/SK chuck, If you need center cooling and flange plate cooling, please specify AD+B, such as: SK40 (AD+B) /ER32-60L

◎ We can provide balancing chuck, precision G6.3 /12000 rpm, G2.5/ 20000 rpm, please specify what precision you need

»»» ANSI B5.50 CAT

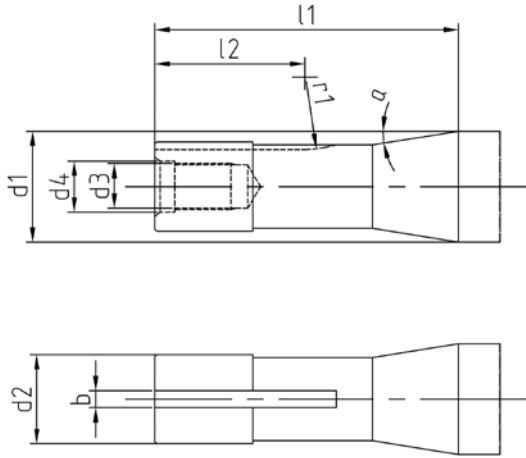


锥度号	类型	D1	L1±0.2	d1	d2+0.3	g	L2min	L3min	L4+0.5	b+0.2	t-0.4	t1-0.4
30	ANSI-CAT	31.75	47.63	14	13.11	1/2"-13UNC	24	34	7.0	16.38	16.26	18.67
40	ANSI-CAT	44.45	68.25	18.5	16.28	5/8"-11UNC	30	40	4.75	16.38	22.6	25.02
45	ANSI-CAT	57.15	82.55	22.5	19.46	3/4"-10UNC	38	50	5.25	19.56	28.96	31.37
50	ANSI-CAT	69.85	101.6	26.5	26.19	1"-8UNC	45	55	5.75	25.91	35.31	37.72

锥度号	类型	D3±0.25	D4-0.5	D5-0.1	e	V±0.1	X+0.15	y	d	D6±0.05
30	ANSI-CAT	31.75	39.25	46.02	15.9	11.1	3.75	3.2	7	55.25
40	ANSI-CAT	44.45	56.25	63.5	15.9	11.1	3.75	3.2	7	72.3
45	ANSI-CAT	57.15	75.25	82.55	15.9	11.1	3.75	3.2	7	91.35
50	ANSI-CAT	69.85	91.25	98.45	15.9	11.1	3.75	3.2	7	107.25

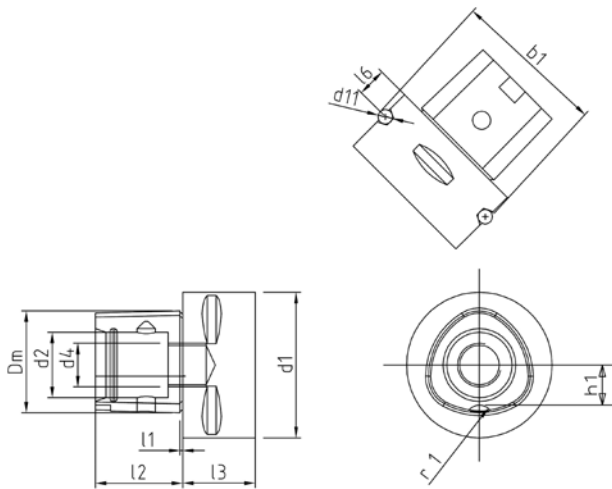
技术资料 TECHNICAL DATA

»» R8



R8	
a	8° 25' 30"
b ±0.1	4.2
d1	31.750
d2	24.109
d3 -0.007 -0.020	M 12
d4	12.5
l1	101
l2 min.	60
r1	20

»» CAPTO



PSC	40	50	63	80	100
b ±0.1	46	59.3	70.7	86	110
Dm	28	35	44	55	72
d1 ±0.1	40	50	63	80	100
d2 +0.1 -0.05	18	21	28	32	43.025
d4	M14×1.5	M16×1.5	M20×2		M24×2
d11	5	7		10	
l1	2.5	3			
l2	24	30	38	48	60
l3min	20		22	30	36
16±0.15	8	10	12		16
h1 ±0.1	11	14	18	22.2	29
r1 +2 0	3	4	5	6	8

型号 Model No.	AT3 斜度标准				斜度 θ/2
	AT ₀		AT _D	L	
	μ rad	sec	μ m		
BT30	50	10"	2 μ	42	
BT40	50	10"	3 μ	59	
BT50	40	8"	4 μ	92	

型号 Model No.	AT3 斜度标准				斜度 θ/2
	AT ₀		AT _D	L	
	μ rad	sec	μ m		
SK30	50	10"	2 μ	42	
SK40	50	10"	3 μ	59	
SK50	40	8"	4 μ	92	

型号 Model No.	AT3 斜度标准				斜度 θ/2
	AT ₀		AT _D	L	
	μ rad	sec	μ m		
HSK63A	100	21"	1.5 μ	14.7	
HSK80A	80	16"	1.5 μ	19	
HSK100A	80	16"	1.9 μ	24	

型号 Model No.	AT3 斜度标准				斜度 θ/2
	AT ₀		AT _D	L	
	μ rad	sec	μ m		
CAT30	50	10"	2 μ	42	
CAT40	50	10"	3 μ	59	
CAT50	40	8"	4 μ	92	

技术资料 Technical data

HSK锥柄结构 HSK shank

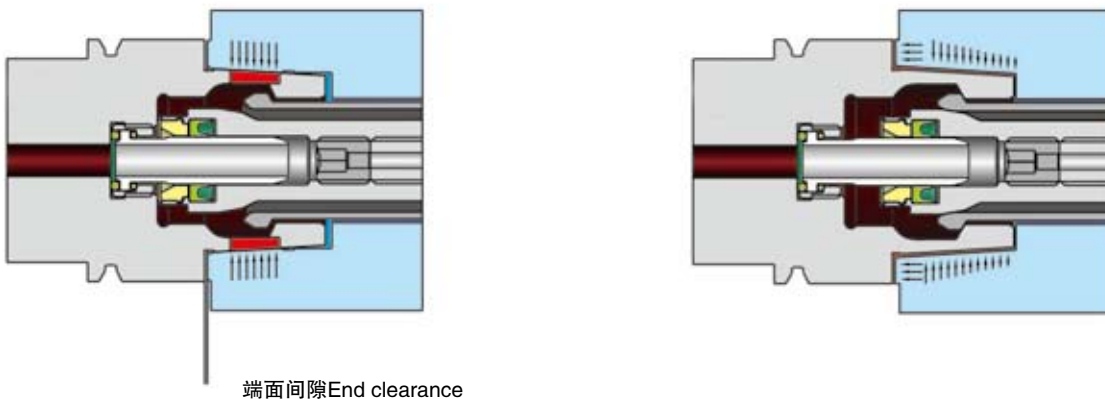
旋转180度 Rotate 180 degrees



HSK刀柄与主轴的连接结构及工作原理 HSK handle connected to the spindle of the structure and working principle

图一：拉杆未拉紧前 Rod before tightening

图二：拉杆拉紧后 Rod after tightening



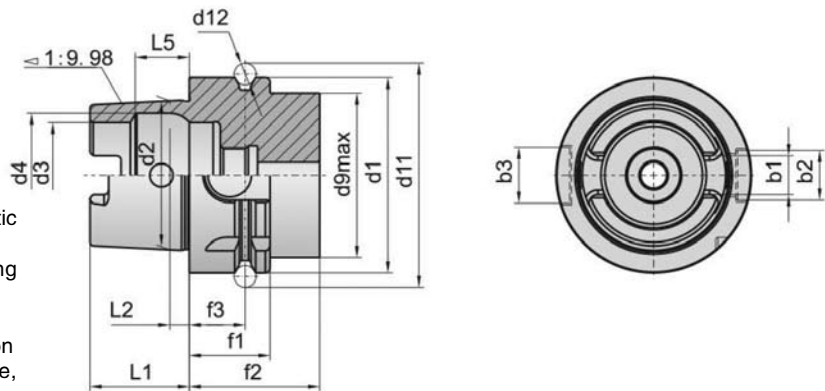
◎ HSK刀柄的空心锥柄与主轴孔完全接触时，HSK刀柄端面有约0.1mm间隙（如图一）。在夹紧机构作用下，拉杆向右移动，夹爪胀开，夹爪外锥面顶在空心锥柄30度锥面上，拉动HSK刀柄略右移动，空心锥柄产生变形。刀柄端面与主轴端面靠紧，实现了刀柄与主轴锥面和端面两面同时定位和夹紧（如上图二）

◎ Hollow taper shank HSK toolholder and spindle hole full contact, HSK shank end—about 0.1mm gap (see figure 1). Clamping action, move lever to the right, clamping JAWS burst, clamps and exterior conical surface in the hollow taper shank on a 30-degree cone, pull the HSK tool moves toward the right c, hollow taper shank deformation. Shaft end and spindle nose close, realizes the toolholder and spindle taper and end both sides positioning and clamping (see figure II)

》》 HSK短锥型式 – A型 HSK sthort cone type-A

对于加工中心的标准设计
 带有机械手卡槽，适合自动刀具交换
 通过冷却润滑管，支持中心冷却润滑供应
 锥柄末端有驱动键槽
 数据芯片孔 (DIN69873) 为可选配置
 包含手动装卸孔，也可以用于C型柄

For the standard design of machining center
 Manipulator with card slot, is suitable for automatic tool change
 Through the pipe cooling and lubrication, cooling and lubrication support center
 Taper shank end drive keyway
 Data chip hole (DIN69873) as optional configuration
 Contains the manual loading and unloading hole, can also be used for C type handle

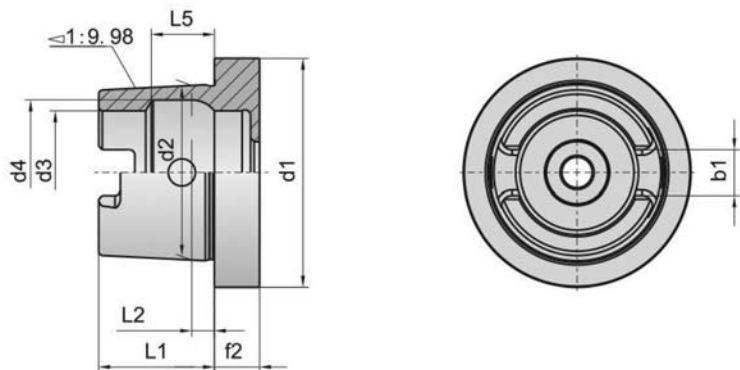


锥柄型式 Taper type	尺寸Size(mm)															
	b1	b2	b3	d1	d2	d3	d4	d9	d11	d12	f1	f2	f3	L1	L2	L5
HSK-25A	6.05	6	7	25	19.006	14	15	20	28.5	3	10	20	4.5	13	2.5	7.21
HSK-32A	7.05	7	9	32	24.007	17	19	26	37	4	20	35	16	16	3.2	8.92
HSK-40A	8.05	9	11	40	30.007	21	23	34	45	4	20	35	16	20	4	11.42
HSK-50A	10.54	12	14	50	38.009	26	29	42	59.3	7	26	42	18	25	5	14.13
HSK-63A	12.54	16	18	63	48.010	34	37	53	72.3	7	26	42	18	32	6.3	18.13
HSK-80A	16.04	18	20	80	60.012	42	50	68	88.8	7	26	42	18	40	8	22.85
HSK-100A	20.02	20	22	100	75.013	53	58	88	109.75	7	29	45	20	50	10	28.56
HSK-125A	25.02	25	28	125	95.016	67	73	111	134.75	7	29	45	20	63	12.5	36.27
HSK-160A	30.02	32	36	160	120.2	85	92	144	196.75	7	31	47	22	80	16	45.98

》》 HSK短锥型式 – C型 HSK sthort cone type-C

适合专机和模块化刀具系统
 带有机械手卡槽，适合手动换刀
 支持中心冷却润滑供应
 锥柄末端有驱动键槽

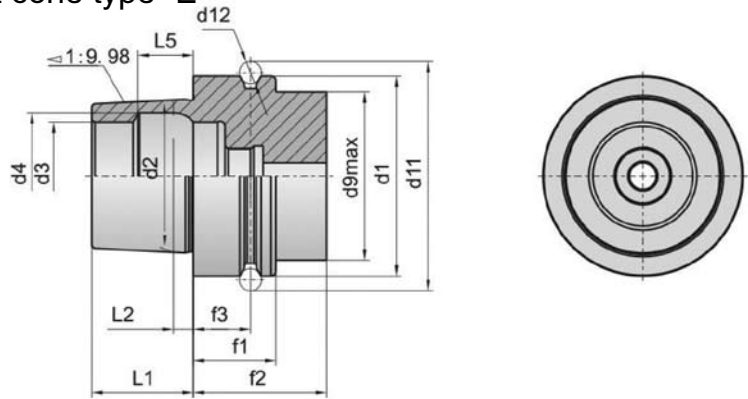
Suitable for plane and modular tool system
 Manipulator with card slot, suitable for manual tool change
 Supply cooling and lubrication support center
 Taper shank end drive keyway



锥柄型式 Taper type	尺寸Size(mm)								
	b1	d1	d2	d3	d4	f2	L1	L2	L5
HSK-25C	6.05	25	19.006	14	15	8	13	2.5	7.21
HSK-32C	7.05	32	24.007	17	19	10	16	3.2	8.92
HSK-40C	8.05	40	30.007	21	23	10	20	4	11.42
HSK-50C	10.54	50	38.009	26	29	12.5	25	5	14.13
HSK-63C	12.54	63	48.010	34	37	12.5	32	6.3	18.13
HSK-80C	16.04	80	60.012	42	50	16	40	8	22.85
HSK-100C	20.02	100	75.013	53	58	16	50	10	28.56
HSK-125C	25.02	125	95.016	67	73	-	63	12.5	36.27
HSK-160C	30.02	160	120.2	85	92	-	80	16	45.98

HSK短锥型式 – E型 HSK sthort cone type-E

适合高速机床
带有机手卡槽, 适合自动刀具交换
通过冷却润滑管, 支持中心冷地润滑供应
没有驱动键槽, 旋转对称
Suitable for high speed machine tool
Manipulator with card slot, is suitable for automatic tool change
Through the pipe cooling and lubrication, lubrication supply support center cold
There is no drive keyway, rotational symmetry

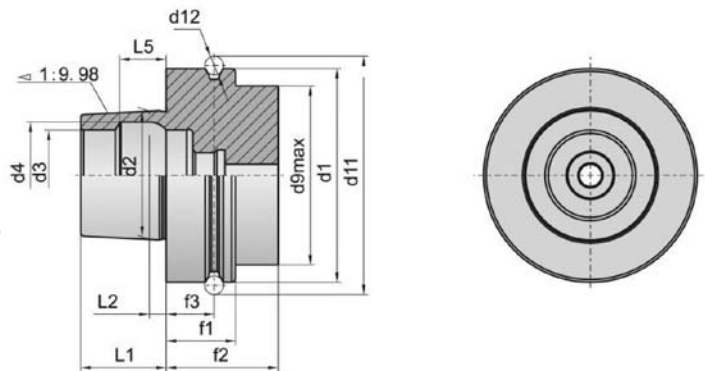


锥柄型式 Taper type	尺寸Size(mm)												
	d1	d2	d3	d4	d9	d11	d12	f1	f2	f3	L1	L2	L5
HSK-32E	32	24.007	17	19	26	37	4	20	35	16	16	3.2	8.92
HSK-40E	40	30.007	21	23	34	45	4	20	35	16	20	4	11.42
HSK-50E	50	38.009	26	29	42	59.3	7	26	42	18	25	5	14.13
HSK-63E	63	48.010	34	37	53	72.3	7	26	42	18	32	6.3	18.13
HSK-80E	80	60.012	42	50	68	88.8	7	26	42	18	40	8	22.85

HSK短锥型式 – F型 HSK sthort cone type-F

适合高速机床, 多用于木工领域
通过加大法兰接触面可增大径向压力
带有机手卡槽, 适合自动刀具交换
通过冷却润滑管, 支持中心冷却润滑供应
没有驱动键槽, 旋转对称

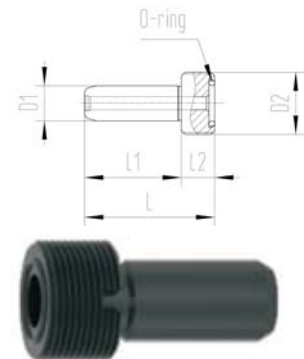
Suitable for high speed machine tools used in woodworking field
Through the flange surface can increase the radial pressure increased
Manipulator with card slot, is suitable for automatic tool change
Through the pipe cooling and lubrication, cooling and lubrication support center
There is no drive keyway, rotational symmetry



锥柄型式 Taper type	尺寸Size(mm)												
	d1	d2	d3	d4	d9	d11	d12	f1	f2	f3	L1	L2	L5
HSK-50F	50	30.007	21	23	42	45	4	20	35	16	20	4	11.42
HSK-63F	63	38.009	26	29	42	59.3	7	26	42	18	25	5	14.13
HSK-80F	80	48.010	34	37	67	72.3	7	26	42	18	32	6.3	18.13

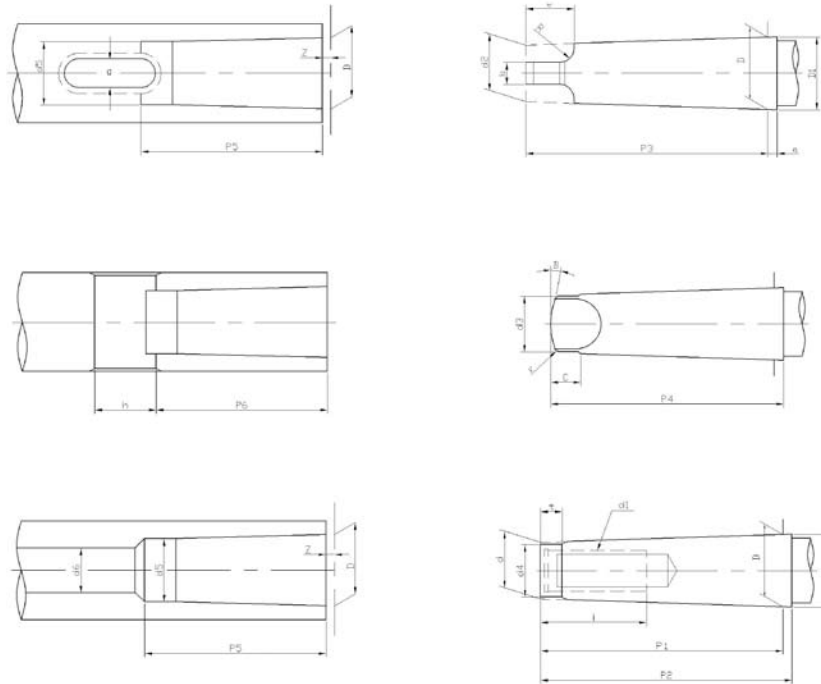
HSK用切削液管尺寸表 HSK cutting fluid pipe sizes

HSK NO.	D1	D2	L	L1	L2
HSK32	6	M10X1.0	26	20.5	5.5
HSK40	8	M12X1.0	29.5	22	7.5
HSK50	10	M16X1.0	33	23.5	9.5
HSK63	12	M18X1.0	36.5	25	11.5
HSK80	14	M20X1.0	40	26.5	13.5
HSK100	16	M24X1.0	44	28.5	15.5



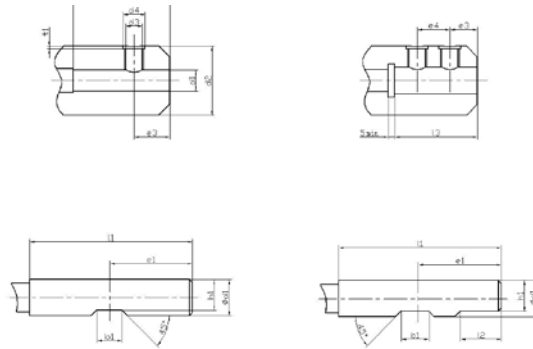
技术资料 TECHNICAL DATA

>>> MT刀柄尺寸 (A型) MORSE TAPER(A TYPE)



Code Number		Morse Taper							
Size	Taper	0	1	2	3	4	5	6	7
		1:19.212= 0.05205	1:20.047= 0.04988	1:20.020= 0.04995	1:19.922= 0.05020	1:19.254= 0.05194	1:19.002= 0.05263	1:19.180= 0.05214	1:19.231= 0.05200
Outside Taper	D	9.045	12.065	17.780	23.825	31.267	44.399	63.348	83.058
	a	3	3.5	5	5	6.5	6.5	8	10
	D1	9.2	12.2	18	24.1	31.6	44.7	63.8	83.6
	d	6.4	9.4	14.6	19.8	25.9	37.6	53.9	70.0
	d1	-	M6	M10	M12	M16	*M20	M24	M33
	d2	6.1	9	14	19.1	25.2	36.5	52.4	68.2
	d3MAX	6	8.7	13.5	18.5	24.5	35.7	51	66.8
	d4MAX	6	9	14	19	25	35.7	51	65
	P1MAX	50	53.5	64	81	102.5	129.5	182	250
	P2MAX	53	57	69	86	109	136	190	260
	P3MAX	56.5	62	75	94	117.5	149.5	210	286
	P4MAX	59.5	65.5	80	99	124	156	218	296
	bh13	3.9	5.2	6.3	7.9	11.9	15.9	19	28.5
	C	6.5	8.5	10	13	16	19	27	35
	eMAX	10.5	13.5	16	20	24	29	40	54
	iMIN	-	16	24	28	32	40	50	80
	RMAX	4	5	6	7	8	10	13	19
r	1	1.2	1.6	2	2.5	3	4	5	
tMAX	4	5	5	7	9	9	12	185	
Inside Taper	d5H11	6.7	9.7	14.9	20.2	26.5	38.2	54.6	71.1
	d6	-	7	11.5	14	18	23	27	30
	P5MIN.	52	56	67	84	107	135	188	258
	P6	49	52	62	78	98	125	177	241
	gA13	41	5.4	6.6	8.2	12.2	16.2	19.3	28.8
	h	15	19	22	27	32	38	47	69
z	1	1	1	1	1.5	15	2	2	

侧压柄刀具接口形式 (DIN 1835-B) INTERFACE OF LATERAL SHANK TOOLS

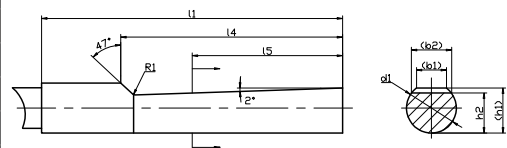


d1 (H5)	d2 (0-1)	d3 (6H)	d4 min	e3 (0)	e4 (±0.5)	l3 (±1)	t1	压紧整体硬质合金刀具推荐拉矩 recommended pull torque of compress carbide cutting tools
6	25	M6	8	18.0	-	35	1.0	5Nm
8	28	M8	10	18.0	-	35	1.3	10Nm
10	35	M10	12	20.0	-	39	1.5	16Nm
12	42	M12	14	22.5	-	44	1.6	28Nm
14	44	M12	14	22.5	-	44	1.6	28Nm
16	48	M14	16	24.0	-	47	1.7	42Nm
18	50	M14	16	24.0	-	47	1.7	42Nm
20	52	M16	18	25.0	-	49	2.1	50Nm
25	65	M18X2	20	24.0	25	54	2.1	60Nm
32	72	M20X2	22	24.0	28	58	2.2	60Nm

d1 (H6)	l1	b1	l2	e1 (0)	h1 (h11)
6	36	4.2	-	18.0	5.1
8	36	5.5	-	18.0	6.9
10	40	7.0	-	20.0	8.5
12	45	8.0	-	22.5	10.4
14	45	8.0	-	22.5	12.7
16	48	10.0	-	24.0	14.2
18	48	10.0	-	24.0	16.2
20	50	11.0	-	25.0	18.2
25	56	12.0	17	32.0	23.0
32	60	14.0	19	35.0	30.0

斜侧压柄刀具接口形式 (DIN 1835-E)
INTERFACE OF LATERAL SHANK TOOLS (INCLINED)

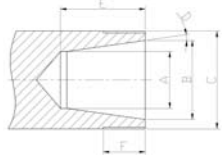
d1 (h6)	(b1)~	(b2)	(h1)	h2 (h13)	h1 (0)	l4 (0)	l5	R1 min
6	3.5	4.8	5.4	4.8	36	25	18	1.2
8	4.7	6.1	7.2	6.6	36	25	18	1.2
10	5.7	7.3	9.1	8.4	40	28	20	1.2
12	6.0	8.2	11.2	10.4	45	33	22.5	1.2
16	7.6	10.1	15.0	14.2	48	36	24	1.6
20	8.4	11.5	19.1	18.2	50	38	25	1.6
25	9.3	13.6	24.1	23.0	56	44	32	1.6
32	9.9	15.5	31.2	30.0	60	48	35	1.6



技术资料 TECHNICAL DATA

ER COLLET DIN6499-B(ER-GN TYPE) ISO15488:2003E

ER COLLET CHUCK & MACHINE SPINDLE DIMENSIONS.

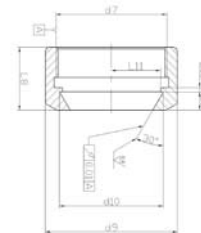
Drawings with tolerance specification on request	Clamp	Type	ϕ	ϕ	ϕ	D	E	F
			A	B	C			
			mm	mm	mm			
	0.5-5	ER8MS	5.2	8	M10 × 0.75	8°	13	7.5
	0.5-7	ER11MS	7.5	11	M13 × 0.75	8°	17	10
	0.5-10	ER16MS	10.5	16	M19 × 1	8°	22	13
	1.0-13	ER20MS	13.5	20	M24 × 1	8°	26.5	13.5
	0.5-5	ER8MS	5.2	8	M10 × 0.75	8°	13	7.5
	0.5-7	ER11MS	7.5	11	M13 × 0.75	8°	17	10
	0.5-10	ER16MS	10.5	16	M19 × 1	8°	22	13
	1.0-13	ER20MS	13.5	20	M24 × 1	8°	26.5	13.5
	1.0-16	ER25MS	18	25	M30 × 1	8°	29	13
	0.5-7	A/ER11	7.5	11	M14 × 0.75	8°	17	10
	0.5-10	A/ER16	10.5	16	M22 × 1.5	8°	22	13
	1.0-13	A/ER20	13.5	20	M25 × 1.5	8°	26.5	13.5
	0.5-10	UM/ER16	10.5	16	M22 × 1.5	8°	22	13
	1.0-13	UM/ER20	13.5	20	M25 × 1.5	8°	26.5	13.5
	1.0-16	UM/ER25	18	25	M32 × 1.5	8°	29	14
	2.0-20	UM/ER32	23.5	32	M40 × 1.5	8°	34	16
	3.0-26	UM/ER40	30.5	40	M50 × 1.5	8°	38	17
	12-34	UM/ER50	38	50	M64 × 2	8°	48	24
	0.5-10	KM/ER16	10.5	16	M22 × 1.5	8°	22	13
	1.0-13	KM/ER20	13.5	20	M25 × 1.5	8°	26.6	13.5
	1.0-16	KM/ER25	18	25	M32 × 1.5	8°	29	14
	2.0-20	KM/ER32	23.5	32	M40 × 1.5	8°	34	16
	3.0-26	KM/ER40	30.5	40	M50 × 1.5	8°	38	17
	12-34	KM/ER50	38	50	M64 × 2	8°	48	24

ER COLLET DIN6499-B(ER-GN TYPE) ISO15488:2003E

Bezeichnung einer Spannmutter Form Nenngröße 32:

Spannmutter din 6499-D32

Tabelle3: Maße der Spannmuttern



Nenngröße	d7	d9	d10	l8	l9	l10	l11
	6H					-0.2	max
11	M14 × 0.75	19	12.1	11.3	3.1	1	5
16	M22 × 1.5	28	17.71	17.5	4.7	1.1	7.2
20	M25 × 1.5	34	21.76	19	5.5	1.2	9.2
25	M32 × 1.5	42	26.76	20	5.7	1.4	11.5
32	M40 × 1.5	50	33.81	22.5	6.2	1.7	14.9
40	M50 × 1.5	63	41.86	25.5	7.7	2.2	18.5

ER COLLET DIN6499-B(ER-GN TYPE) ISO15488:2003E

Ma ß e Bezeichnung

Spannzangen, spannzangenaufnahmen und Spannmütern brauchen der bildchen Darstellung nicht zu entsprechen; nur die angegebenen Ma ß e sind einzuhalten.

Allgemeintoleranzen: ISO 2768-m (siehe NIN ISO 2768 Teil 1)

Spannzangen

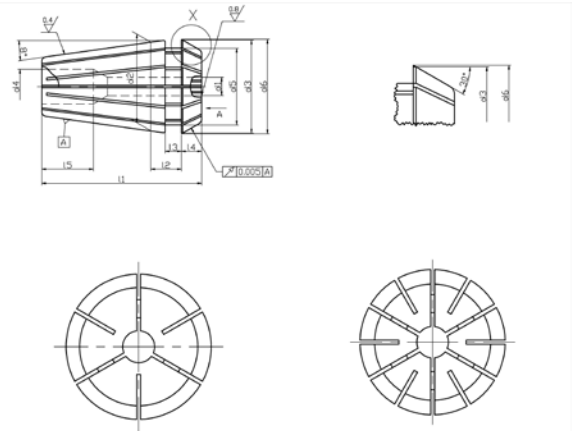
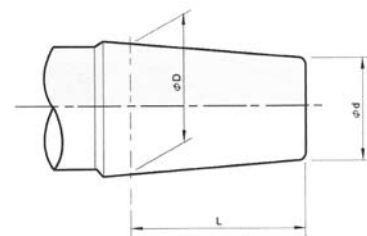


Tabelle 1: Ma ß e der spannzangen

Nenngröße	d1				d2	d3				d4	d5				d6				I1	I2		I3		I4	I5
	H7					0																			
	Nenndurchmesser					-0.2																			
	Form A1)		Form B2)			Form		Form			Form		Form		max		Form			Form					
von	bis	von	bis	A	B	A	B	A	B	A	B	max	A	B	A	B	±0.2	min							
11	1	<3	1	2.5	11	11.3	11.5	-	-	9.5	11.6	11.7	18	2	3.8	2	2	2.5	9						
11	3	6	3	7	11	11.3	11.5	-	-	9.5	11.6	11.7	18	2	3.8	2	2	2.5	-						
16	1	<5	1	4	16	16.74	17	7	7.5	13.8	17.1	17.25	27.5	2.3	6.26	2.3	2.7	4	9						
16	5	10	5	10	16	16.74	17	-	-	13.8	17.1	17.25	27.5	2.3	6.26	2.3	2.7	4	-						
20	1	<7	1	6	20	20.74	21	9	10	17.4	21.1	21.3	31.5	2.4	6.36	2.4	2.8	4.8	12						
20	7	13	7	13	20	20.74	21	-	-	17.4	21.1	21.3	31.5	2.4	6.36	2.4	2.8	4.8	-						
25	1	<8	2	7	25	25.74	26	10	12	22	26.1	26.3	34	2.5	6.66	2.5	3.1	5	13						
25	8	16	8	16	25	25.74	26	-	-	22	26.1	26.3	34	2.5	6.66	2.5	3.1	5	-						
32	2	<8	3	7	32	32.74	33	12	15	29.2	33.1	33.35	40	2.7	7.16	2.7	3.6	5.5	15						
32	8	20	8	20	32	32.74	33	-	-	29.2	33.1	33.35	40	2.7	7.16	2.7	3.6	5.5	-						
40	3	<9	4	8	40	40.74	41	14	20	36.2	41.1	41.4	46	3.5	7.66	3.5	4.1	7	18						
40	9	26	9	26	40	40.74	41	-	-	36.2	41.1	41.4	46	3.5	7.66	3.5	4.1	7	-						
1) Für Spannbereich h10																									
2) Spannbereich--00.5																									
Nenngröße 16 bis Spanntoleranz--10.0; nach Vereinbarung--00.5																									

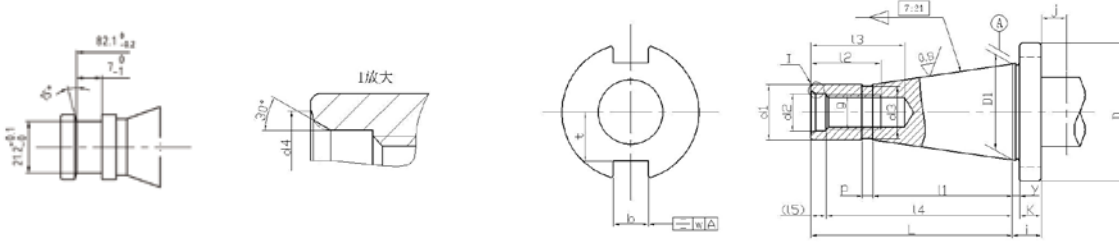
JACOBS TAPER SHANK 莫氏短锥 MORSE SHORT SHANK

Taper NO.	Taper	Taper Angle (α)	D	d	L
JT0	0.049	1° 24'42"	6.35	5.802	11.112
JT1	0.077	2° 12'26.6"	9.754	8.469	16.669
JT2 Short	0.082	2° 19'52"	13.940	12.386	19.05
JT2	0.082	2° 19'52"	14.199	12.386	22.225
JT33	0.064	1° 49'01"	15.850	14.237	25.4
JT6	0.052	1° 30'28"	17.170	15.852	25.4
JT3	0.053	1° 31'26"	20.599	18.951	30.956
B12	0.052	1° 25'43"	12.065	11.1	18.5
B16	0.051	1° 25'50"	15.733	14.5	24.0
B18	0.049	1° 25'50"	17.78	16.2	32.0



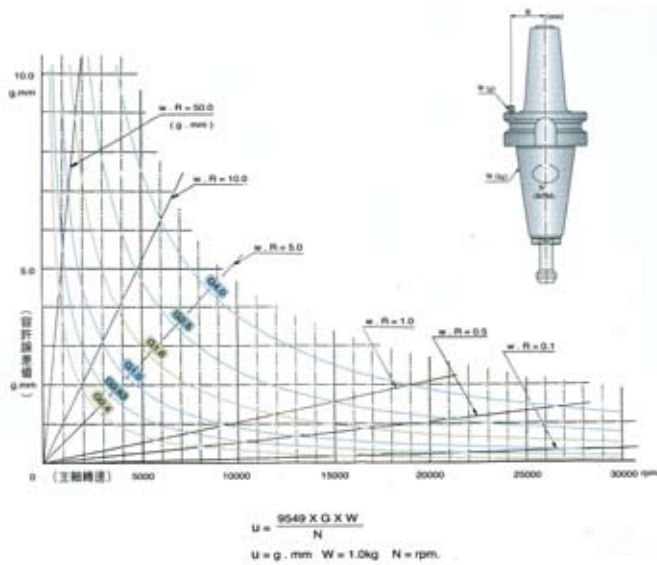
技术资料 TECHNICAL DATA

»»» DIN2080-NT



锥度号	D	D1	L h12	l1	d1 a10	p	d3	y	K ± 0.15	b H12	t max	w	d2	d4 max	g ²⁾	l2 min	l3 min	l4 0 -0.5	(15)	j min
30	50	31.75	68.4	48.4	17.4	3	16.5	1.6	8	16.1	16.2	0.12	13	16	M12	24	34	62.9	5.5	9
40	68	44.45	93.4	65.4	25.3	5	24		10		22.5		17	21.5	M16	32	43	85.2	8.2	11
45	89	57.15	106.8	82.8	32.4	6	30	12	19.3	29	21		26	M20	40	53	96.8	10	13	
50	97.5	69.85	126.8	101.8	39.6	8	38	12	25.7	35.3	26		32	M24	47	62	115.3	11.5	16	
55	130	88.9	164.8	126.8	50.4	9	48	14		45	26		36	M24	47	62	153.3	11.5	16	
60	156	107.95	206.8	161.8	60.2	10	58	16	60	32	44		M30	59	76	192.8	14	16		
65	295	133.35	246	202	75	12	72	18	32.4	72	38	52	M36	70	89	230	16	-		
70	230	165.1	296	252	92	14	90	20		86	38	52	M36	70	89	280	16	-		
75	280	203.2	370	307	114	16	110	5	22	104	50	68	M48	92	115	350	20	-		
80	350	254	469	394	140	18	136	6	28	132	50	68	M48	92	115	449	20	-		

»»» BLANCING FIGURE 动能平衡计算标准



转速rpm	G0.1	G0.4	G1.0	G1.6	G2.5	G4.0	G6.3	G10	G16	G25	G40
3000	0.32	1.27	3.18	5.09	7.96	12.73	20.05	31.83	50.93	79.58	127.32
5000	0.19	0.76	1.91	3.06	4.77	7.64	12.03	19.01	30.56	47.75	76.39
8000	0.12	0.48	1.91	1.91	2.98	4.77	7.52	11.94	19.10	29.84	47.75
10000	0.10	0.38	0.95	1.53	2.39	3.82	6.02	9.55	15.28	23.87	38.20
12000	0.08	0.32	0.80	1.27	1.99	3.18	5.01	7.96	12.73	19.89	31.83
15000	0.06	0.25	0.64	1.02	1.59	2.55	4.01	6.37	10.19	15.92	25.46
20000	0.05	0.19	0.48	0.76	1.19	1.91	3.01	4.77	7.64	11.94	19.10
25000	0.04	0.15	0.38	0.61	0.95	1.53	2.41	3.82	6.11	9.55	15.28
30000	0.03	0.13	0.32	0.51	0.80	1.27	2.01	3.18	5.09	7.96	12.73
35000	0.03	0.11	0.27	0.44	0.68	1.09	1.72	2.73	4.37	6.82	10.91
40000	0.02	0.10	0.24	0.38	0.60	0.95	1.50	2.39	3.82	5.97	9.55
50000	0.02	0.08	0.19	0.31	0.48	0.76	1.20	1.91	3.06	4.77	7.64