



OLIMA[®]

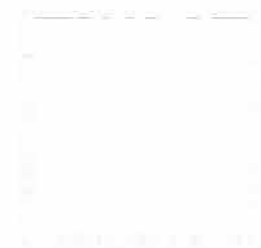
OLICNC[®]

SINCE 2004

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1988年进入机床附件行业，欧力公司注册于2004年；2006年在山东省泗水县经济开发区泉鑫路9号征地建厂，占地15320平米，厂房11000平米；**OLICNC**®商标于2015年完成国内注册，并分别于2018和2020年完成在欧盟与北美的注册；**OLICNC**®现在是一家集研发、加工、贸易、服务于一体的专业性工贸公司，服务于我们的客户，员工与社会。

OLICNC®主要生产经营工具夹具与木工机械配件，也出口当地生产的其他机械配件，属于机床工具行业。**OLICNC**®主要产品是车铣钻磨镗刨床及各类加工中心与数控机床上的必备夹具，分别有弹性夹头与套装铣夹头，铣刀柄，攻丝夹头，精粗镗头镗刀，钻夹头与顶尖系列等；其他可供产品有卡盘，组合压板，平口钳，台钳，分度头，工作台与磁力吸盘等；**OLICNC**®所有这些产品均可提供全系列常用的规格型号；也可来图来样订做加工。

OLICNC®凭借先进的数控机床，加工中心与齐备的检测手段，按照ISO9001标准流程控制生产经营的各环节，提供团队化的全程服务，实行精细化的细节管理；**OLICNC**®坚持诚实守信，质量第一，用户至上的原则，不仅为客户提供精准的产品，还有相关的售前、售后服务；**OLICNC**®这些年来总产量的85%已出口到40多个国家和地区，并得到国内外用户的好评与关注。

OLICNC®致力于依靠平台，团队，信誉创树企业品牌**OLICNC**®与**OLIMA**®。**OLICNC**®专注任何垂询，随时欢迎前来实地参观或进行商务洽谈；**OLICNC**®乐意开展本行业内的业务长远合作，并致力于满足您对产品服务的至臻要求。

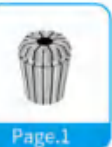

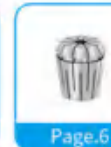


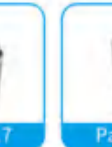






































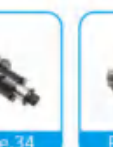


































































OLICNC® came into the line of Machine Tool Accessories in 1988, set up and registered in 2004 legally; Bought land and built new factory at No. 9 Quanxin Rd., Sishui Economic Developing Zone, Jining, Shandong in 2007, occupies an area of 15320m², workshops and office building are over 11000m². **OLICNC**® brand was legally registered in China in 2015, furthermore in European Union in 2018 and in Northern American in 2020. Now **OLICNC**® consists of related R & D, processing, trading and service, as a professional company to serve for our clients, employees and society entirely.

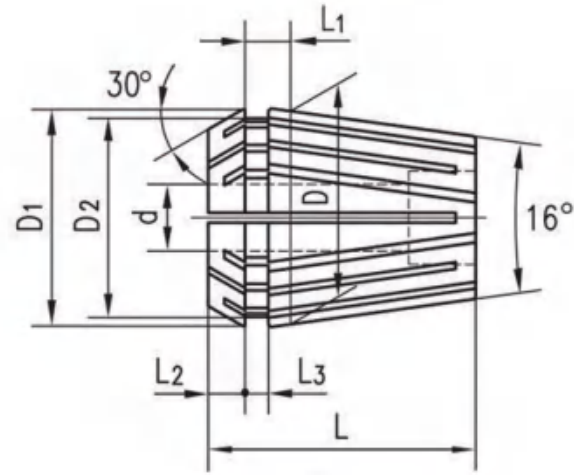
OLICNC® mainly manufactures Tooling System, Wood Machines Parts and machine Accessories belong to the line of Machine & Tools. **OLICNC**® main products are necessary Tool Holders in lathing, milling, drilling, grinding, boring, planning, CNC Machines or Machines or Machine Centers, including variety of Spring Collets, Collets Chuck Sets, Mill Holders, Tapping Collets, Rough or Precision Boring Heads, Drill Chucks, Live Centers and so on. Meanwhile, **OLICNC**® can also supply Machine Accessories like Lathe Chucks, Steel Clamping Kits, Machine Vises, Bench Vises, Dividing Heads, Rotary Tables and Magnetic Chucks, etc. All these items are in series of different common sizes. Besides above exiting ones, **OLICNC**® can also make and supply the goods as delivered samples of drawings.

With CNC machines and advanced testing methods, **OLICNC**® put her manufacturing and management under the strict control of ISO9001, offer steam service in process, fully manages each details during every step accurately and meticulously; **OLICNC**® insists on the principle to keep her words honestly, Quality first and clients go above everything, not only quality and precision products to be delivered, but also corresponding technological service before and after sale; There year **OLICNC**® have already exported 85% of her annual output to more than 40 countries and regions worldwide, and come to attract widespread good review and close attention from the clients at home & abroad.

OLICNC® devotes her to rely on our company's solid platform, striving team and nice reputation to establish her brands of **OLICNC**® & **OLIMA**®. **OLICNC**® pay attention to any inquiry and welcome business visit or negotiation at her factory. **OLICNC**® likes to cooperate between each other at a long term and dedicate to meet her client's top demands on products and service at most.

Tooling System	 Page.1	 Page.4	 Page.6	 Page.6	 Page.7	 Page.7	 Page.8	 Page.8	 Page.9
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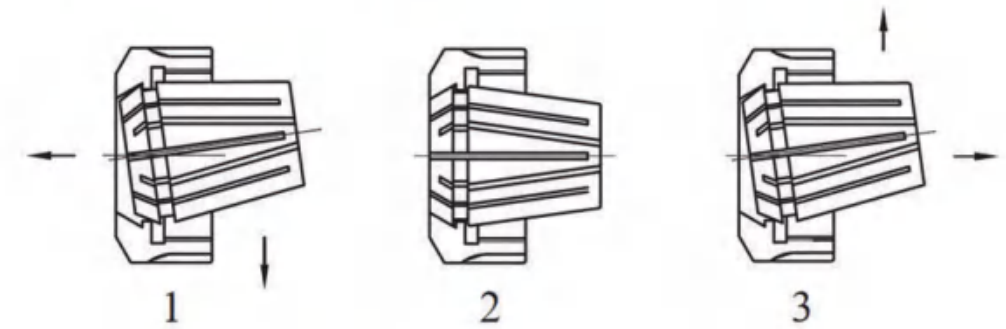


- ◎ 材质Material : 65Mn
- ◎ 硬度Hardness : HRC44-48

Run Out

I : ≤0.003mm II : ≤0.005mm III : ≤0.008mm
IV : ≤0.01mm V : ≤0.015mm

型号 Model	dH7	D	D1	D2	L	L1	L2	L3	弹性收缩量 Collapsible capacity
ER8	1.0-5.0	8	8.5	6.5	13.5	2.7	1.5	1.5	0.5
ER11	1.0-7.0	11	11.5	9.5	18.0	3.8	2.5	2.0	0.5
ER16	1.0-2.5	16	17	13.8	27.5	6.26	4.0	2.7	0.5
	2.5-10.0	16	17	13.8	27.5	6.26	4.0	2.7	1.0
ER20	1.0-2.5	20	21	17.4	31.5	6.36	4.8	2.8	0.5
	2.5-13.0	20	21	17.4	31.5	6.36	4.8	2.8	1.0
ER25	1.0-2.5	25	26	22.0	34.0	6.66	5.0	3.1	0.5
	2.5-16.0	25	26	22.0	34.0	6.66	5.0	3.1	1.0
ER32	2.0-2.5	32	33	29.2	40.0	7.16	5.5	3.6	0.5
	2.5-20.0	32	33	29.2	40.0	7.16	5.5	3.6	1.0
ER40	3.0-26.0	40	41	36.2	46.0	7.66	7.0	4.1	1.0
ER50	6.0-10.0	50	52	46.0	60.0	12.6	8.5	5.5	1.0
	10.0-34.0	50	52	46.0	60.0	12.6	8.5	5.5	2.0



1. 将夹头放入压帽内, 轻轻转动, 待压帽偏心部分凹入夹头槽内, 沿箭头方向均匀用力推动夹头, 即可装入压帽内。
2. 将夹头与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)。
3. 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夹头, 使其退出, 然后根据需要换上其它孔径的夹头即可。

1. Put the collet into the nut, turn the collet slightly, push it into the nut at the offered direction evenly. When the offset flange into the undercut of the collet.
2. 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).
3. 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.

型号 Model	规格 Types	
	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, 21/4, 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, 5/64, 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, 23/32
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

ER8 (1-5mm)	ER11 (1-7mm)	ER16 (1-10mm)	ER20 (1-13mm)	ER25 (1-16mm)	ER32 (1-20mm)	ER40 (3-26mm)	ER50 (10-32mm)
1.0-0.5	1.0-0.5	1.0-0.5	1.0-0.5	1.0-0.5	1.0-0.5	3-2	6-5
1.5-1.0	1.5-1.0	1.5-1.0	1.5-1.0	1.5-1.0	1.5-1.0	4-3	7-6
2.0-1.5	2.0-1.5	2.0-1.5	2.0-1.5	2.0-1.5	2.0-1.5	5-4	8-7
2.5-2.0	2.5-2.0	2.5-2.0	2.5-2.0	2.5-2.0	2.5-2.0	6-5	9-8
3.0-2.5	3.0-2.5	3-2	3-2	3-2	3-2	7-6	10-9
3.5-3.0	3.5-3.0	4-3	4-3	4-3	4-3	8-7	11-9
4.0-3.5	4.0-3.5	5-4	5-4	5-4	5-4	9-8	12-10
4.5-4.0	4.5-4.0	6-5	6-5	6-5	6-5	10-9	13-11
5.0-4.5	5.0-4.5	7-6	7-6	7-6	7-6	11-10	14-12
	5.5-5.0	8-7	8-7	8-7	8-7	12-11	15-13
	6.0-5.5	9-8	9-8	9-8	9-8	13-12	16-14
	6.5-6.0	10-9	10-9	10-9	10-9	14-13	17-15
	7.0-6.5		11-10	11-10	11-10	15-14	18-16
			12-11	12-11	12-11	16-15	19-17
			13-12	13-12	13-12	17-16	20-18
				14-13	14-13	18-17	21-19
				15-14	15-14	19-18	22-20
				16-15	16-15	20-19	23-21
					17-16	21-20	24-22
					18-17	22-21	25-23
					19-18	23-22	26-24
					20-19	24-23	27-25
						25-24	28-26
						26-25	29-27
							30-28
							31-29
							32-30
							33-31
							34-32



型号 Model No.	规格 Spec	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

型号 Model No.	规格 Spec	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

型号 Model No.	规格 Spec	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

型号 Model	规格 Spec	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 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



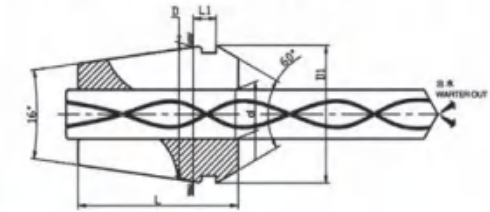
型号 Model	规格 Spec	支/套 PCS/SET
ER25-14PCS	3 4 5 6 7 8 9 10 11 12 13 14 15 16	14PCS/SET
ER25-15PCS	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	15PCS/SET
ER25-18PCS	1 1.5 2 2.5 3 4 5 6 7 8 9 10 11 12 13 14 15 16	18PCS/SET
ER25-18PCS(inch)	3/32 1/8 5/32 3/16 7/32 1/4 9/32 5/16 11/32 3/8 13/32 7/16 15/32 1/2 17/32 9/16 19/32 5/8	18PCS/SET
ER25-9PCS(inch)	1/8 3/16 1/4 5/16 7/16 1/2 9/16 3/8 5/8	9PCS/SET

型号 Model	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

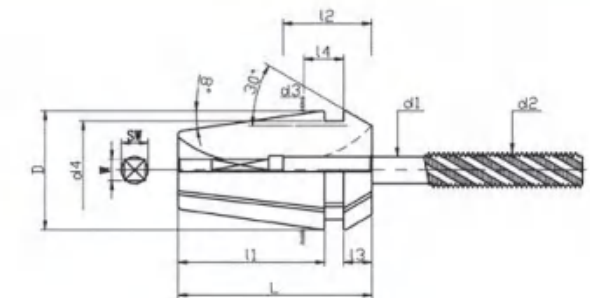
型号 Model	规格 Spec	支/套 PCS/SET
ER40-24PCS	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	24PCS/SET
ER40-23PCS	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	23PCS/SET
ER40-18PCS	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25	18PCS/SET
ER40-15PCS	4 5 6 7 8 9 10 12 14 15 16 18 20 22 25	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



- ◇材料: 65Mn ◇Material: 65Mn
- ◇硬度: HRC44-48 ◇Hardness: HRC44-48
- 利用沟槽差异, 达到周围止水, 仅中心出水功能
- 适用于夹持有出水孔的刀具
- 可承受水压7Mpa
- 非标准孔可订制 ISO JIS DIN
- 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 7Mpa
- Non-standard holes can be customized. ISO JIS DIN

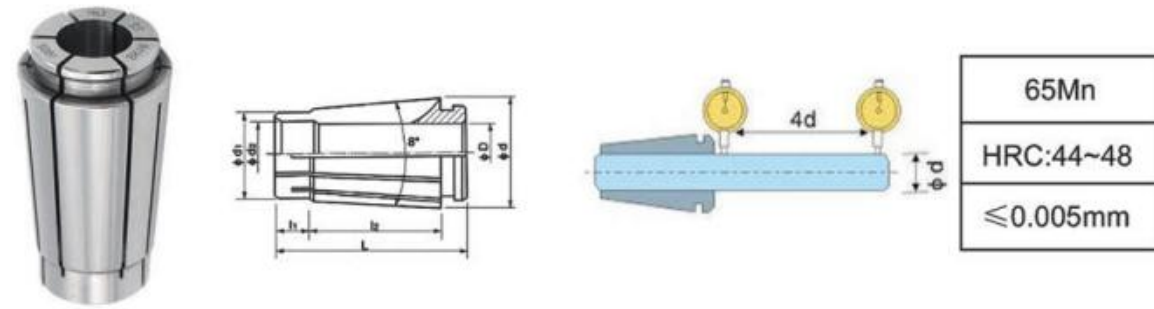


型号Model	d	夹持范围 Range	D	D1	L	L1
ER11C	3-7	0.1	11	11.5	18	3.8
ER16C	3-6	0.1	16	17	27.5	6.26
	6-10	0.5				
ER20C	3-6	0.1	20	21	31.5	6.36
	6-13	0.5				
ER25C	3-6	0.1	25	26	34	6.66
	6-16	0.5				
ER32C	3-8	0.1	32	33	40	7.16
	8-20	0.5				
ER40C	4-10	0.1	40	41	46	7.66
	10-26	0.5				
ER50C	12-34	0.5	50	52	60	12.6

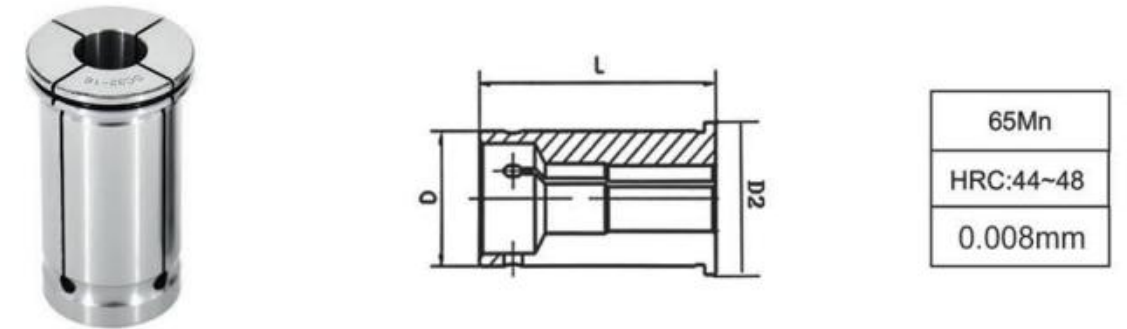


- 材料: 65Mn ○Material: 65Mn
- 硬度: HRC44-48 ○Hardness: HRC44-48

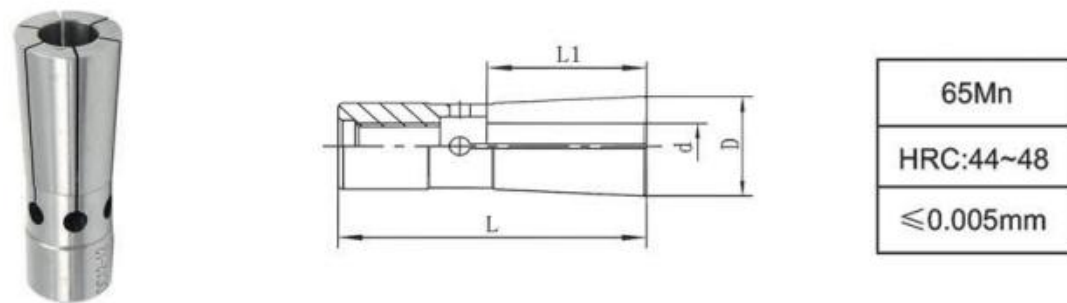
型号Model	D	d3	d4	L	l1	l3	l4	Capacity	KGS
ER16G	16.74	16	13.8	27.5	20.8	4.0	6.26	M3-M10	0.03
ER20G	20.74	20	17.4	31.5	23.9	4.8	6.36	M3-M17	0.04
ER25G	25.74	25	22	34	25.9	5.0	6.66	M3-M22	0.06
ER32G	32.74	32	29.2	40	31.8	5.5	7.16	M3-M27	0.10
ER40G	40.74	40	36.2	46	35.5	7	7.66	M3-M27	0.25
ER50G	51.7	50	46	60	46	8.5	12.6	M6-M36	0.4



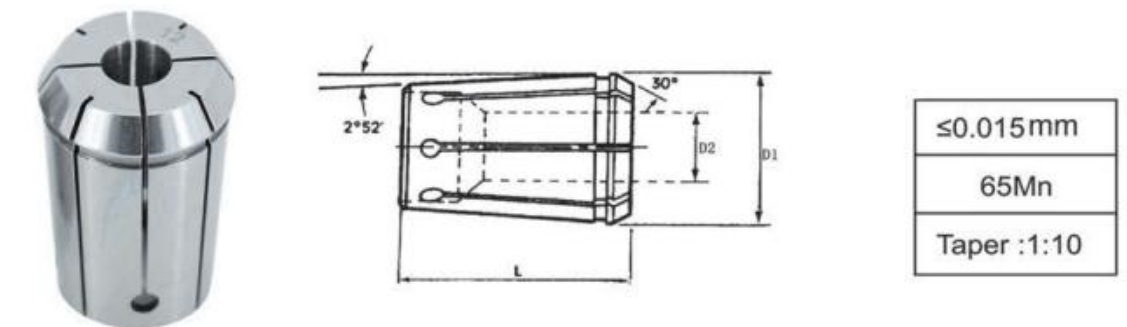
Model	Inside Diameter	d	d1	L	L1	L2
SK10	2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10mm	15.5	12	30.5	5.1	21.3
SK16	3,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13,13.5,14,14.5,15,15.5,16mm	24.5	18.8	45	7.5	32.4
SK20	7.5,8,9.5,10,11.5,12,15.5,16,16.5,17,17.5,18,18.5,19,19.5,20mm	29.1	22.6	54	8	40.7
SK25	7.5,8,9.5,10,11.5,12,15.5,16,16.5,17,17.5,18,18.5,19,19.5,20,20.5,21,21.5,22,22.5,23,23.5,24,24.5,25mm	35.7	28.9	57	8.4	43.1



Model	Inside Diameter	D	D2	L
C20	3,4,5,6,8,10,12,16mm	20	25	52
C25	3,4,5,6,8,10,12,16,18,20mm	25	31	60
C32	3,4,5,6,8,10,12,16,18,22,24,20,25mm	32	37	73
C42	3,4,5,6,8,10,12,16,18,20,22,24,25,28,30,32mm	42	48	80



Model	d	L	L1	D	
SDC6	3E	3	36	14	9.6
	3.175E	3.175	36	14	9.6
	4E	4	36	14	9.6
	5E	5	36	16	9.6
	6E	6	36	16	9.6
SDC8	3E	3	45	15	15
	4E	4	45	16	15
	6E	6	45	24	15
	8E	8	45	26	15
SDC12	4E	4	60	15	22
	6E	6	60	25	22
	8E	8	60	30	22
	10E	10	60	33	22
12E	12	60	33	22	



Model	D1	L	D2	
EOC25	35.5	52	Metric	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
			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"
EOC32	44	60	Metric	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
			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"; 1-1/8"; 1-1/4"



Model of Spanners	Type of Nuts
ER11M	ER11M
ER16M	ER16M
ER20M	ER20M

ER-M型扳手 ERM Spanners



Model of Spanners	Type of Nuts
ER11A	ER11A
ER16A	ER16A
ER20A	ER20A

ER-A型扳手 ERA Spanners



Model of Spanners	Type of Nuts
BT30	BT30
BT40	BT40
BT50	BT50

拉钉扳手 Pull Stud Spanners



Model of Spanners	Type of Nuts
ER11MS	ER11MS
ER16MS	ER16MS
ER20MS	ER20MS

ERMS扳手 ERMS Spanners



Model of Spanners	Type of Nuts
WTG-42	ER25
WTG-52	ER32 APU13
WTG-63	ER40 APU16
WTG-85	ER50 C32

ER-勾头扳手 ER Spanners



Model of Spanners	Type of Nuts
ER25	ER25UM
ER32	ER32UM
ER40	ER40UM

ER-UM型扳手 ERUM Spanners



Model of Spanners	Type of Drill Chucks
APU13-A	APU13
APU13-B	APU13

APU型扳手 APU Spanners



Model of Spanners	Type of Tapping Collets
GT12	GT12
GT24	GT24
GT42	GT42

扭力调节扳手 Torque Adjustment Wrench



Model of Spanners	Type of Nuts
ER25	ER25UM
ER32	ER32UM
ER40	ER40UM

ER-UM型扳手 ERUM Spanners



Model of Spanners	Type of Nuts
ER25	ER25UM
ER32	ER32UM
ER40	ER40UM

ER-O型扳手 ERO Spanners



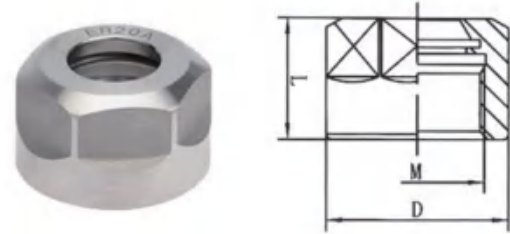
Model of Spanners	Type of Drill Chucks
APU13	APU13
APU16	APU16

APU扳手 APU Spanners



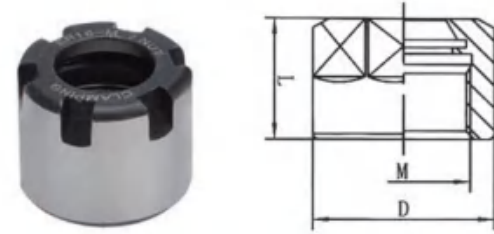
Model of Spanners	Type of Nuts
GSK10	GSK10
GSK13	GSK13
GSK16	GSK16
GSK20	GSK20
GSK16	GSK16
GSK20	GSK20
GSK25	GSK25
GSK32	GSK32
GSK32	GSK32

滚珠轴承扳手 Roller Bearing Wrench



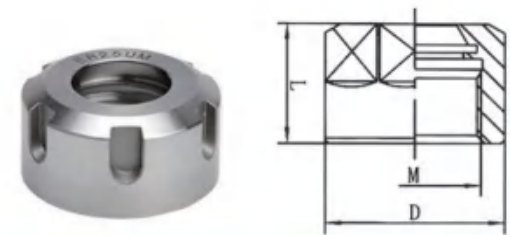
MODEL	L	D	M
ER11A	11.3	19	M14 × 0.75P
ER16A	17.5	28	M22 × 1.5P
ER20A	19	34	M22 × 1.5P

ER-A型 螺帽 ER-A Nuts



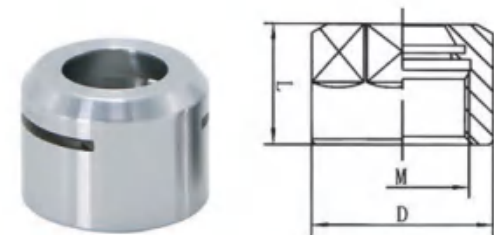
MODEL	L	D	M
ER11M	12	16	M13 × 0.75P
ER16M	18	22	M19 × 1.0P
ER20M	19	28	M24 × 1.0P
ER25M	20	35	M30 × 1.0P

ER-M型 螺帽 ER-M Nuts



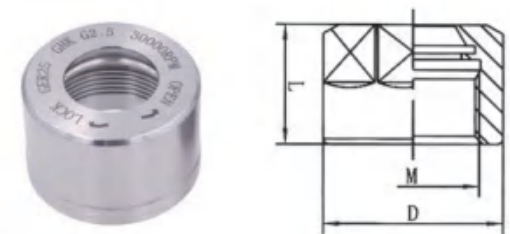
MODEL	L	D	M
ER25UM	20	42	M32 × 1.5P
ER32UM	22.5	50	M40 × 1.5P
ER40UM	25.5	63	M50 × 1.5P

ER-UM型 螺帽 ER-UM Nuts



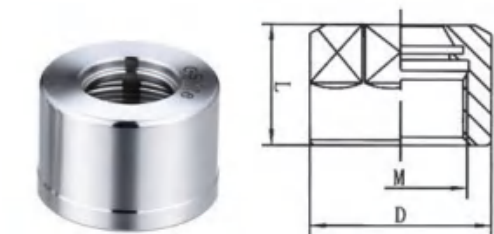
MODEL	L	D	M
ER11MS	11.3	16	M13 × 0.75P
ER16MS	17	22	M19 × 1.0P
ER20MS	19	28	M24 × 1.0P
ER25MS	23	35	M30 × 1.0P

ER-MS型 螺帽 ER-MS Nuts



MODEL	L	D	M
GER16	23	30	M19 × 1.0P
GER20	25	35	M24 × 1.0P
GER25	26	40	M30 × 1.0P
GER32	30	50	M40 × 1.5P

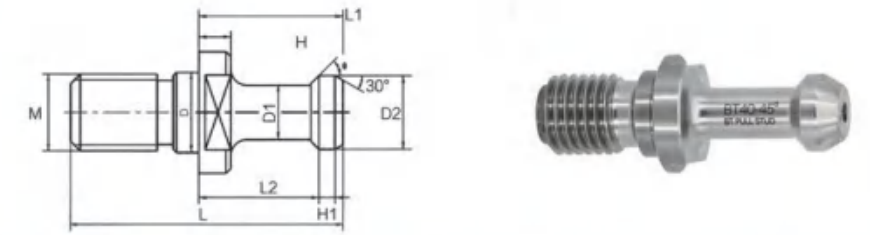
ER-GER型 螺帽 ER-GER Nuts



MODEL	L	D	M
GSK06	21	19	M15.5 × 1.0P
GSK10	24	27	M21.5 × 1.0P
GSK13	27	35	M28 × 1.5P
GSK16	31	40	M32 × 1.5P
GSK20	35	48	M40 × 1.5P
GSK25	37	55	M45 × 1.5P

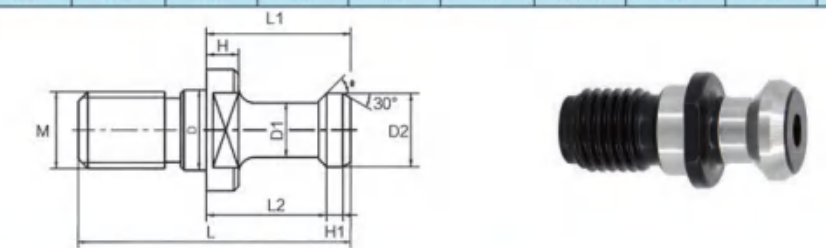
ER-GSK型 螺帽 ER-GSK Nuts

BT系列拉钉
MAS 403 - 1982



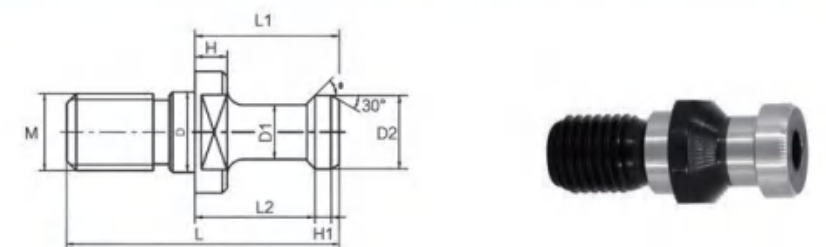
Model	L	L1	L2	D	D1	D2	H	H1	M	θ
BT30(θ)	43	23	18	12.5	7	11	5	2.5	M12	45° 60° 90°
BT40(θ)	60	35	28	17	100	15	6	3	M16	45° 60° 90°
BT50(θ)	85	45	35	25	17	23	10	5	M24	45° 60° 90°

MAZAK系列拉钉



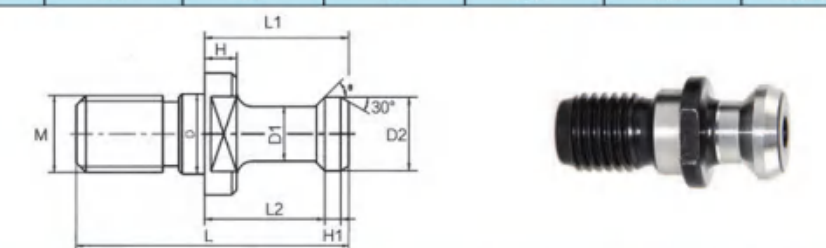
Model	L	L1	L2	D	D1	D2	H	H1	M
MAZAK-BT40	44.10	19.10	14.02	17	12.45	18.8	3.05	1.52	M12
MAZAK-CAT40	41.25	16.25	11.17	17	12.45	18.8	3.05	1.52	M16
MAZAK-BT50	65.20	25.20	17.7	25	20.83	28.96	5.05	2.54	M24

JT/SK-系列拉钉
DIN69872-1988

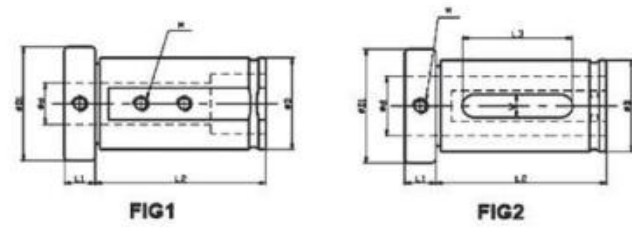


Model	L	L1	L2	D	D1	D2	M
JT30	44	24	19	13	9	13	M12
JT40	54	26	20	17	14	19	M16
JT50	74	34	25	25	21	28	M24

CAT系列拉钉
ANSI/ASME B5.50-1985

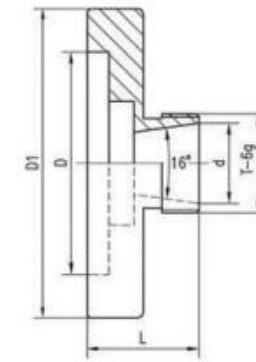


Model	L	L1	L2	D1	D2	H	H1	M
CAT30	27.94	11.68	8.13	9.78	13.21	2.54	1.01	12" -13
CAT40	38.10	16.26	11.18	12.45	18.80	3.05	1.52	5/8" -11
CAT50	58.42	25.4	17.78	20.83	28.96	5.08	2.54	1" -8

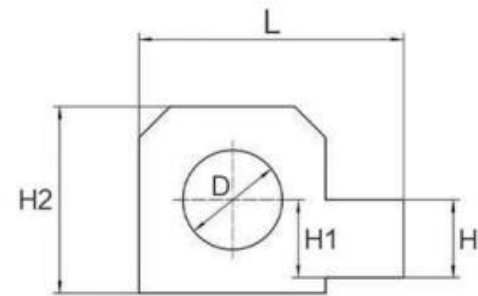


用途: 用于数控加工中心(转塔)刀架夹持刀具。
Function: Suitable to hold cylindrical shank tools on turret at CNC lathe.

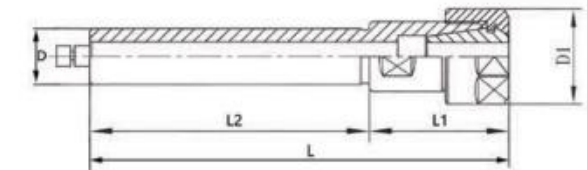
Model	D	D1	L1	L2	L3	W	M	Fig
D20	4 6 8 10	28	12	50	42	8	M8	1
	12 16 MT1 MT2	28	12	50				2
D25	4 6 8 10 12	33	14	50	42	10		1
	16 20 MT1 MT2 MT3	33	14	50				2
D32	4 6 8 10 12 16	39	14	70	58	10		1
	20 25 MT1 MT2 MT3 MT4	39	14	70				2
D40	6 8 10 12 16 20	46.5	15	80	65	12		1
	25 32 MT1 MT2 MT3 MT4	46.5	15	80				2
D50	6 8 10 12 16 20	58	15	-	-	-		-
	25 32 40 MT1 MT2 MT3 MT4							-



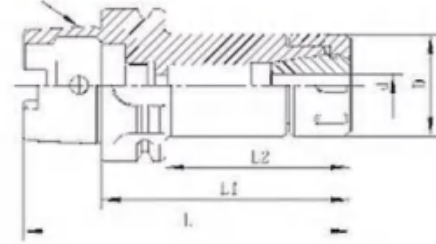
Model	D	D1	d	T	L	所配夹头 Collet
ER16-D140	22	45	16	M22C×1.5	25	ER16
ER25-D210	72	100	25	M32C×1.5	36	ER25
ER25-D250	52	102	25	M32C×1.5	36	ER25
ER25-102	52	102	25	M32C×1.5	40	ER25
ER25-BZ300	100	132	25	M32C×1.5	34	ER25
ER32-55	55	80	32	M40×1.5	42	ER32
ER32-72	72	100				
ER32-95	95	125				
ER32-100	100	132				
ER32-130	130	160				
ER32-132	132	163				



Model	H	D	H1	H2	L
SBHA16-25	16	25	16	45	60
SBHA20-32	20	32	20	55	85
SBHA20-40	20	40	20	60	90
SBHA25-32	25	32	25	60	85
SBHA25-40	25	40	25	65	90
SBHA25-50	25	50	25	75	100
SBHA32-40	32	40	32	70	100
SBHA32-50	32	50	32	75	100

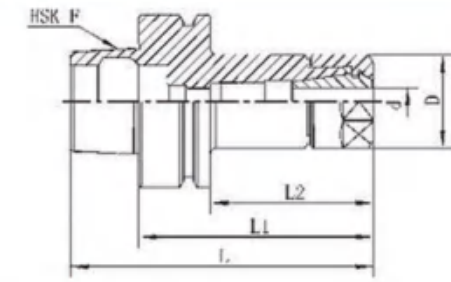


Model No.	L	L1	L2	D	D1	KG
SSTB16-16-ER16	112	32	80	16	28	0.26
SSTB20-20-ER20	118	36	82	20	34	0.36
SSTB22-22-ER20	118	36	82	22	34	0.4
SSTB22-22-ER25	120	40	80	22	42	0.5
SSTB25-25-ER25	121	41	80	25	42	0.54
SSTB25-25-ER32	147	49	98	25	50	0.8
SSTB30-30-ER32	150	50	100	30	50	1.02



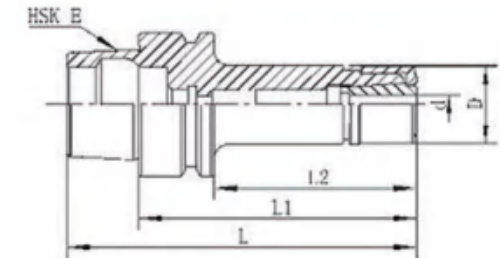
- 装入筒夹和更换刀具，必须把螺帽和主体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 装置时筒夹必须先置入螺帽，再装入刀具，接着锁紧本体
- 刀具置入筒夹内孔，必需超出筒夹有效夹持长度，避免不当锁紧，造成损坏
- A collet and replacement of cutting tools, screw nut and body must be clean, and add grease, Otherwise it will cause damage to the thread
- The device must be placed when the collet nut, and then into the tool, then the lock body
- The placement tool collet hole, clamping collet must exceed effective length, to avoid improper locking dama

Model	L	L1	L2	D	d (夹持范围)	
HSK63A	ER16-75	107	75	49	28	1~10
	ER16-100	132	100	74	28	1~10
	ER16-130	162	130	104	28	1~10
	ER16-160	192	160	134	28	1~10
	ER20-75	107	75	49	34	1~13
	ER20-100	132	100	74	34	1~13
	ER20-130	162	130	104	34	1~13
	ER20-160	192	160	134	34	1~13
	ER25-75	107	75	49	42	3~16
	ER25-100	132	100	74	42	3~16
	ER25-130	162	130	104	42	3~16
	ER25-160	192	160	134	42	3~16
	ER32-75	107	75	49	50	3~20
	ER32-100	132	100	74	50	3~20
	ER32-130	162	130	104	50	3~20
	ER32-160	192	160	134	50	3~20
HSK100A	ER40-120	152	120	94	63	3~26
	ER40-160	192	160	134	63	3~26
	ER16-100	150	100	71	28	1~10
	ER16-160	210	160	131	28	1~10
	ER20-100	150	100	71	34	1~13
	ER20-160	210	160	131	34	1~13
	ER25-100	150	100	71	42	3~16
	ER25-160	210	160	131	42	3~16
ER32-100	150	100	71	50	3~20	
ER32-160	210	160	131	50	3~20	
ER40-100	150	100	71	63	3~26	
ER40-160	210	160	131	63	3~26	



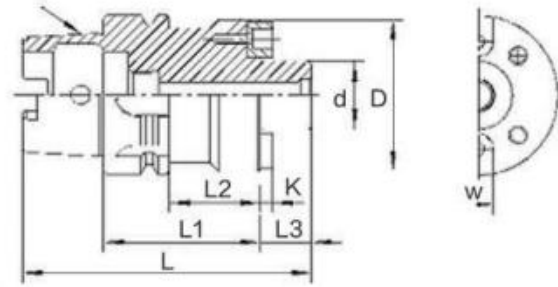
- 装入筒夹和更换刀具，必须把螺帽和主体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 装置时筒夹必须先置入螺帽，再装入刀具，接着锁紧本体
- 刀具置入筒夹内孔，必需超出筒夹有效夹持长度，避免不当锁紧，造成损坏
- A collet and replacement of cutting tools, screw nut and body must be clean, and add grease, Otherwise it will cause damage to the thread
- The device must be placed when the collet nut, and then into the tool, then the lock body
- The placement tool collet hole, clamping collet must exceed effective length, to avoid improper locking dama

Model	Clamping Range Ød	ØD	L	L1
HSK63F-ER16-70	1.0-10.0	28	70	44
HSK63F-ER16-100	1.0-10.0	28	100	74
HSK63F-ER20-100	1.0-13.0	34	100	74
HSK63F-ER25-100	1.0-16.0	42	100	74
HSK63F-ER32-73	3.0-20.0	50	73	47
HSK63F-ER40-75	4.0-26.0	63	75	47



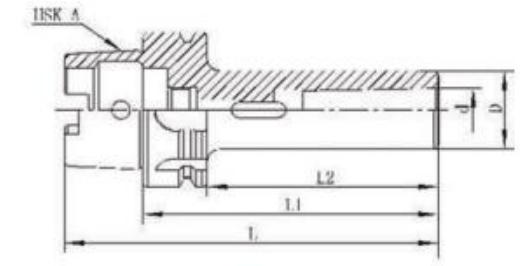
- 装入筒夹和更换刀具，必须把螺帽和主体螺纹清理干净，并添加润滑脂
- 全圆无偏心螺帽设计，噪音低、风阻小，适合高速
- Into the collet and replacement of cutting tools, must clean up the thread of nut and ontology, and add grease, otherwise it will cause damage to the screw thread
- Full circle - no eccentric nut design, low noise, small wind resistance, suitable for high speed

Model	L	L1	L2	D	d (夹持范围)	
HSK32E	GSK06-50	66	50	30	19.5	2~6
	GSK10-50	66	50	30	27.5	3~10
HSK40E	GSK06-65	85	65	35	19.5	2~6
	GSK10-65	85	65	35	27.5	3~10
	GSK10-100	120	100	80	27.5	3~10
HSK50E	GSK06-70	95	70	44	19.5	2~6
	GSK10-70	95	70	44	27.5	3~10
	GSK16-70	95	70	44	40.5	3~16



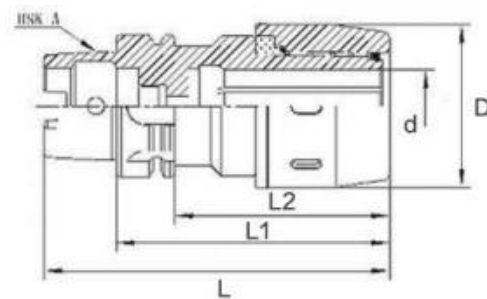
- 平面铣刀配合部位 (d) 轴系公差h6
- The face milling cutter with parts (d) shaft tolerance h6

Model	L	L1	L2	L3	d	D	K	W	
HSK63A	FMB16-50	99	50	24	17	16	32	3.8	8
	FMB16-100	149	100	74	17	16	32	3.8	8
	FMB22-50	100	50	24	18	22	48	4.8	10
	FMB22-100	150	100	74	18	22	48	4.8	10
	FMB27-60	112	60	44	20	27	60	5.8	12
	FMB27-100	152	100	74	20	27	60	5.8	12
	FMB32-60	114	60	44	22	32	63	6.8	14
	FMB32-100	154	100	74	22	32	63	6.8	14
	FMB40-60	117	60	44	25	40	75	8.3	16



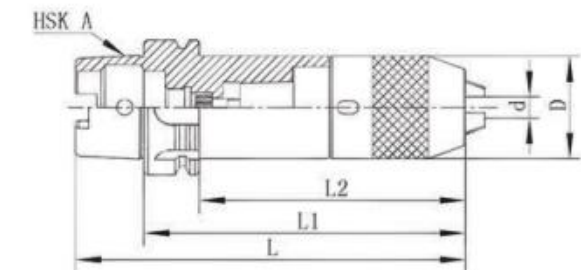
- 用于带莫氏锥度的钻头刀具、装卸刀具时间短、容易操作
- For Morse taper drill tool, tool handling time is short, easy to operate

Model	L	L1	L2	D	d	
HSK63A	MTA1-100	132	100	74	25	12.065
	MTA2-120	152	120	94	32	17.78
	MTA3-140	172	140	114	40	23.825
	MTA4-160	192	160	134	50	31.267
HSK100A	MTA1-110	160	110	81	25	12.065
	MTA2-120	170	120	91	32	17.78
	MTA3-150	200	150	121	40	23.825
	MTA4-170	220	170	141	50	31.267



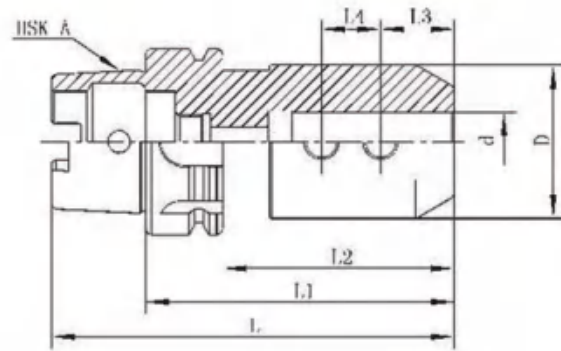
- 刀柄夹持孔6槽设计、防止滑动、增大夹持力
- 螺帽外表均匀一致、降低风阻、适合高速
- Handle clamping hole 6 to prevent sliding groove design increases the blessing
- The appearance of nut uniformity, reduce wind resistance, suitable for high speed

Model	L	L1	L2	D	d (加持范围)	
HSK63A	C32-120	152	120	94	73	6-32
	C32-150	182	150	124	73	6-32
HSK100A	C32-120	170	120	91	73	6-32
	C32-165	215	165	136	73	6-32



- 刀柄和夹头结合为一体、即使作重切屑加工、夹头也不会脱落
- 操作容易、快速方便、安全性高、不易松脱
- The handle and the chuck is combined, even for heavy cutting processing, chuck will not fall off
- Fast, easy operation, high safety

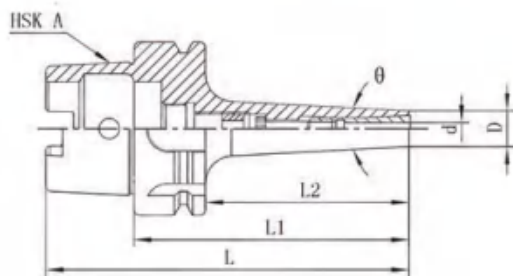
Model	L	L1	D	d (夹持范围)	
HSK63A	APU08-120	152	120	38	1~8
	APU13-155	187	155	50	1~13
	APU16-160	192	160	58	3~16
HSK100A	APU13-160	210	160	50	1~13
	APU16-165	215	165	58	3~16



- 夹持孔径公差H5
- Φ20以内一只锁固螺钉, Φ25以上两只锁固螺钉
- The clamping hole tolerance H5
- With less than 20 mm a locking screw, with a diameter of 25 mm above two locking screw

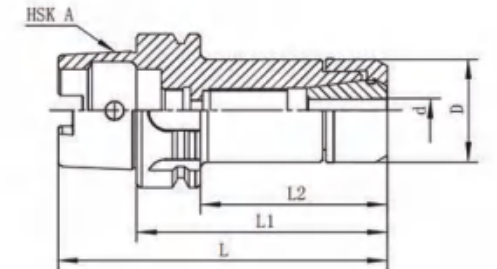
Model	L	L1	L2	L3	L4	D	d	
HSK63A	SLN06-65	97	65	39	18	25	6	
	SLN08-65	97	65	39	18	28	8	
	SLN10-65	97	65	39	20	35	10	
	SLN12-80	112	80	54	22.5	16	42	12
	SLN16-80	112	80	54	24	18	48	16
	SLN20-80	112	80	54	25	20	52	20
	SLN25-110	142	110	84	24	25	57	25
SLN32-110	142	110	84	24	28	63	32	

mm



- 无螺帽的后拉式筒夹设计, 刚性强稳定性高。
- 建议使用扭力扳手, 不要超过推荐值的30%, 过高的扭力, 可能导致刀柄的变形。
- Collet nut design no pull, strong stability and high rigidity
- The recommended torque wrench, do not exceed the recommended value of 30%, high torque, the deformation may lead

Model	L	L1	L2	θ	D	夹持范围 Clamping range	推荐扭力 Recommended torque
HSK63A	SDC6-95	127	95	6°	14	3~6	5Nm
	SDC6-120	152	120	6°	14	3~6	5Nm
	SDC6-150	182	150	6°	14	3~6	5Nm
	SDC8-100	132	100	6°	22	3~8	7Nm
	SDC8-120	152	120	6°	22	3~8	7Nm
	SDC8-150	182	150	6°	22	3~8	7Nm
HSK100A	SDC12-120	152	120	—	34	3~12	12Nm
	SDC6-110	160	110	6°	14	3~6	5Nm
	SDC6-150	200	150	6°	14	3~6	5Nm
	SDC8-120	170	120	6°	22	3~8	7Nm
	SDC8-150	200	150	6°	22	3~8	7Nm
	SDC12-120	170	120	—	34	3~12	12Nm



- 装入筒夹和更换刀具, 必须把螺帽和本身螺纹清理干净, 并添加润滑脂, 否则会造成螺纹损坏
- 全圆无偏心螺帽设计, 噪音低、风阻小, 适合高速
- Into the collet and replacement of cutting tools, must clean up the thread of nut and ontology, and add grease, otherwise it will cause damage to the screw thread
- Full circle - no eccentric nut design, low noise, small wind resistance, suitable for high speed

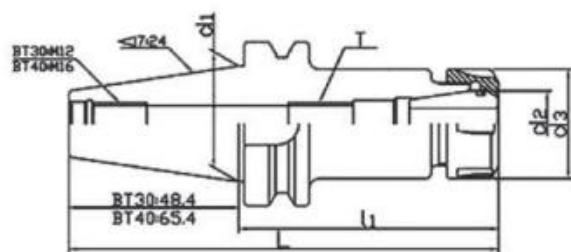
订货编号	L	L1	L2	D	d (夹持范围)	
HSK63A	GER16-75	102	75	49	27.5	1~10
	GER16-100	132	100	74	27.5	1~10
	GER16-130	162	130	104	27.5	1~10
	GER16-160	192	160	134	27.5	1~10
	GER20-75	102	75	49	30.5	1~13
	GER20-100	132	100	74	30.5	1~13
	GER20-130	162	130	104	30.5	1~13
	GER20-160	192	160	134	30.5	1~13
	GER25-75	102	75	49	35.5	3~16
	GER25-100	132	100	74	35.5	3~16
	GER25-130	162	130	104	35.5	3~16
	GER25-160	192	160	134	35.5	3~16
	GER32-75	102	75	49	48.5	3~20
	GER32-100	132	100	74	48.5	3~20
	GER32-130	162	130	104	48.5	3~20
	GER32-160	192	160	134	48.5	3~20

- 装入筒夹和更换刀具, 必须把螺帽和本身螺纹清理干净, 并添加润滑脂, 否则会造成螺纹损坏
- 全圆无偏心螺帽设计, 噪音低、风阻小, 适合高速
- Into the collet and replacement of cutting tools, must clean up the thread of nut and ontology, and add grease, otherwise it will cause damage to the screw thread
- Full circle - no eccentric nut design, low noise, small wind resistance, suitable for high speed

订货编号	L	L1	L2	D	d (夹持范围)	
HSK32E	GER16-50	66	50	30	27.5	1~10
	GER20-50	66	50	30	30.5	1~13
HSK40E	GER16-65	85	65	45	27.5	1~10
	GER20-65	85	65	45	30.5	1~13
HSK50E	GER25-70	90	70	50	35.5	3~16
	GER16-70	95	70	44	27.5	1~10
	GER20-70	95	70	44	30.5	1~13
	GER25-70	95	70	44	35.5	3~16



A B C D E



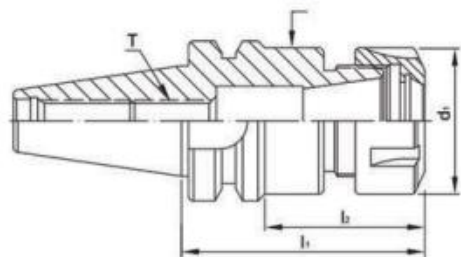
MAS403	20CrMnTi	≤0.005mm	≥12000rpm
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Model	L1	d3	d1
BT30-ER11A-70	70	19	31.75
BT30-ER16A-70	70	28	31.75
BT30-ER20A-70	70	34	31.75
BT30-ER25UM-70	70	42	31.75
BT30-ER32UM-100	100	50	31.75
BT40-ER11A-100	100	19	44.45
BT40-ER16A-100	100	28	44.45
BT40-ER20A-100	100	34	44.45
BT40-ER25UM-100	100	42	44.45
BT40-ER32UM-70	70	50	44.45
BT40-ER32UM-100	100	50	44.45
BT40-ER32UM-150	150	50	44.45
BT40-ER40UM-80	80	63	44.45
BT40-ER40UM-100	100	63	44.45
BT50-ER16A-100	100	28	69.85
BT50-ER16A-150	150	28	69.85
BT50-ER20A-150	150	34	69.85
BT50-ER25UM-150	150	42	69.85
BT50-ER32UM-100	100	50	69.85
BT50-ER32UM-150	150	50	69.85
BT50-ER40UM-100	100	63	69.85
BT50-ER40UM-150	150	63	69.85

Above different types of A.B.C.D & E are from different material with different precision and rotation for your choice. 上面A.B.C.D & E款材质不同，精度与转速也不同，供选择。

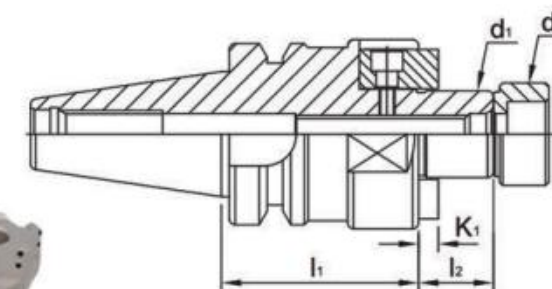


Model	Qty. & Sizes	Bar Thread
BT30-ER16-70L	8PCS(3-10mm)	M12-1.75P
BT30-ER32-70L	6PCS(6-20mm)	M12-1.75P
	11PCS(4-20mm)	
BT40-ER32-70L	18PCS(3-20mm)	M16-2.0P
	6PCS(6-20mm)	
BT40-ER40-80L	11PCS(4-20mm)	M16-2.0P
	18PCS(3-20mm)	
BT40-ER16-100L	7PCS(6-25mm)	M16-2.0P
	15PCS(4-26mm)	
BT40-ER20-100L	23PCS(4-26mm)	M16-2.0P
	8PCS(3-10mm)	
BT40-ER32-100L	11PCS(3-13mm)	M16-2.0P
	6PCS(6-20mm)	
BT40-ER40-100L	11PCS(4-20mm)	M16-2.0P
	18PCS(3-20mm)	
BT50-ER40-100L	7PCS(6-25mm)	M24-3.0P
	15PCS(4-26mm)	
BT50-ER32-150	23PCS(4-26mm)	M24-3.0P
	6PCS(6-20mm)	
BT50-ER40-150L	11PCS(4-20mm)	M24-3.0P
	18PCS(3-20mm)	
BT50-ER40-150L	7PCS(6-25mm)	M24-3.0P
	15PCS(4-26mm)	
BT50-ER40-150L	23PCS(4-26mm)	M24-3.0P
	7PCS(6-25mm)	

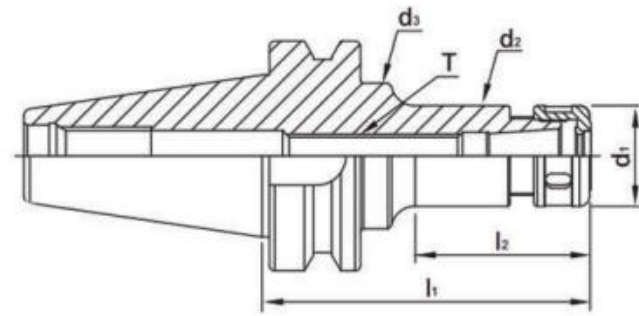


Preset dynamic balance G2.5-25000RPM
 Material: 20CrMnTi Precision ≤ 0.005mm
 Unit:mm

Model	l1	l2	d1	d2	d3	T	
BBT30-ER16-50	50	27	28	16	28	M10*1.5p	
BBT30-ER16-60	60	35					
BBT30-ER16-70	70	40					
BBT30-ER16-100	100	70					
BBT30-ER16-120	120	93					
BBT30-ER20-50	50	28	34	20	34	M12*1.75P	
BBT30-ER20-70	70	45					
BBT30-ER20-100	100	75					
BBT30-ER20-135	135	110					
BBT30-ER25-70	70	46	42	25	42	M16*2.0P	
BBT30-ER25-100	100	111					
BBT30-ER32-70	70	48					
BBT30-ER32-100	100	78	50	32	50		
BBT30-ER40-80	80	58					63
BBT40-ER16-70	70	40	28	16	28	M10*1.5P	
BBT40-ER16-100	100	63					
BBT40-ER16-125	125	88					
BBT40-ER16-150	150	103					
BBT40-ER16-180	180	143					
BBT40-ER20-70	70	40	34	20	34	M12*1.75P	
BBT40-ER20-100	100	63					
BBT40-ER20-135	135	98					
BBT40-ER20-150	150	113					
BBT40-ER25-70	70	40					42
BBT40-ER25-100	100	70					
BBT40-ER25-125	125	95					
BBT40-ER25-150	150	115					
BBT40-ER32-70	70	40	50	32	50	-	
BBT40-ER32-100	100	70					
BBT40-ER32-150	150	118					
BBT40-ER40-80	80	53	63	40	63		M20*2.0P
BBT40-ER40-100	100	73					
BBT40-ER40-120	120	93					
BBT40-ER40-150	150	123					
BBT40-ER50-85	85	58				78	
BBT40-E50-100	100	73					



Model	l1	l2	D	d1	d2	k1	k2
BBT30-FMB22-45	45	19	48	22	26	4.8	10
BBT30-FMB22-60	60						
BBT30-FMB27-45	45	20	60	27	31.5	5.8	12
BBT30-FMB27-60	60						
BBT30-FMB32-45	45	22	78	32	41	6.8	14
BBT40-FMB22-45	45						
BBT40-FMB22-60	60	19	48	22	26	4.8	10
BBT40-FMB22-100	100						
BBT40-FMB22-150	150						
BBT40-FMB22-200	200						
BBT40-FMB27-45	45	20	60	27	31.5	5.8	12
BBT40-FMB27-60	60						
BBT40-FMB27-90	90						
BBT40-FMB27-105	105						
BBT40-FMB32-45	45	22	78	32	41	6.8	14
BBT40-FMB32-60	60						
BBT40-FMB40-60	60	25	80	40	48	8.3	16
BBT50-FMB22-60	60						
BBT50-FMB22-100	100	19	48	22	26	4.8	10
BBT50-FMB22-150	150						
BBT50-FMB22-200	200						
BBT50-FMB22-250	250						
BBT50-FMB22-300	300						
BBT50-FMB22-350	350						
BBT50-FMB22-400	400	20	60	27	31.5	5.8	12
BBT50-FMB27-60	60						
BBT50-FMB27-100	100						
BBT50-FMB27-150	150						
BBT50-FMB27-200	200						
BBT50-FMB27-250	250	22	78	32	41	6.8	14
BBT50-FMB32-60	60						
BBT50-FMB32-100	100						
BBT50-FMB40-60	60	25	89	40	48	8.3	16
BBT50-FMB40-100	100						
BBT50-FMB40-105	105						



预设动平衡G2.5 25000RPM

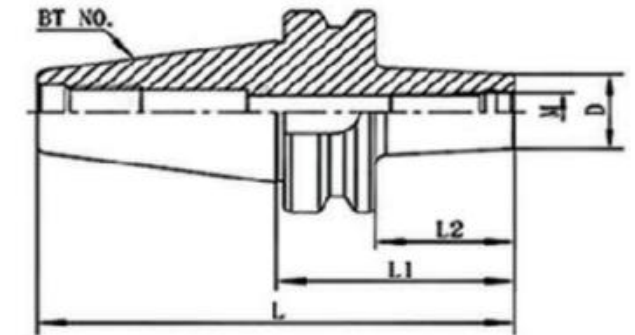
在高速加工时，增加刀柄的稳定性。降低刀柄在高速切削时造成的精度不佳的现象接触直径加大，有助于延伸倍数增加。

刀具稳定性提升，可增加刀具使用寿命，确保在换刀后重复定位精度

In high-speed machining, increase the stability of the tool holder. Reduce the poor accuracy of the tool holder during high-speed cutting. The increase in contact diameter helps to increase the extension. Improved tool stability can increase tool life and ensure repeated positioning accuracy after tool changea

材质：20CrMnTi	硬度：52-60HRC	精度：0.005
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Model	l1	l2	d	d1	d3	T
BBT30-SK10-45	45	14.5	φ3-φ10	30		M12*1.75P
BBT30-SK10-60	60	25				
BBT30-SK10-90	90	55				
BBT30-SK16-60	60	27.7	φ3-φ16	40		M18*1.75P
BBT30-SK16-90	90	57.7				
BBT30-SK20-60	60	37	φ3-φ20	48.5		M12*1.75P
BBT30-SK20-90	90	67				
BBT40-SK10-60	60	22	φ3-φ10	30	40	M12*1.75P
BBT40-SK10-90	90	37.721				
BBT40-SK10-120	120	68.499				
BBT40-SK16-60	60	23.2	φ3-φ16	40		M18*1.5P
BBT40-SK16-90	90	48.7				
BBT40-SK16-120	120	78.876				
BBT40-SK20-60	60	32	φ3-φ20	48.5		M22*1.5P
BBT40-SK20-90	90	60				
BBT40-SK20-120	120	90				

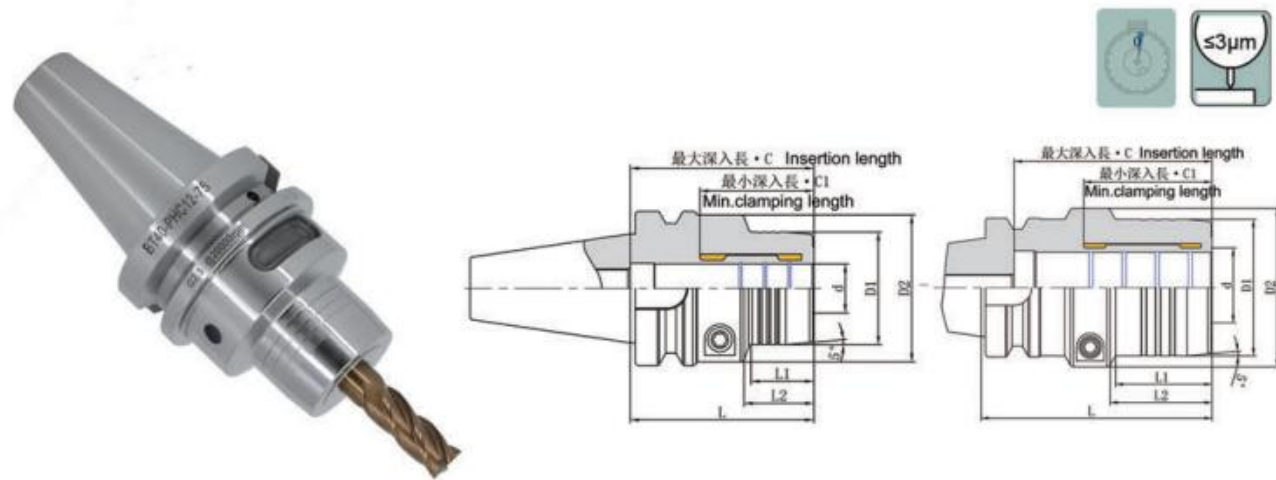


材质：40Cr	硬度：58-60HRC	本体精度：≤0.005mm
动平衡：BT30 G2.5 30000RPM BT40 G2.5 25000RPM		

- 模块化组合，刀头与刀柄螺纹连接沉头组合
- 刀柄直接连接刀头，无需筒夹降低装夹精度公差
- 可换式刀头，重复装夹精度高，更适合开粗和精铣

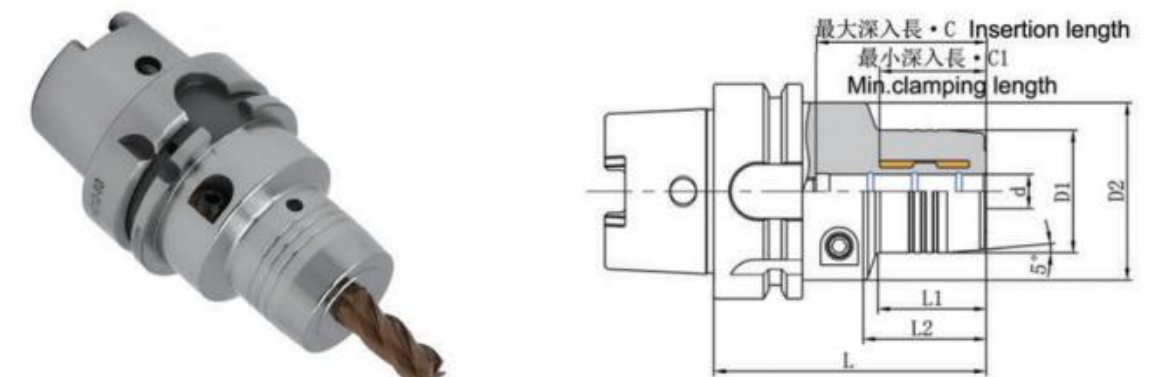
Unit:mm

Model	L	L1	L2	D	M	
BT30	M6-45	93.4	60	38	13	M6*1.0P
	M8-45	93.4	60	38	15	M8*1.25P
	M10-45	93.4	60	38	19	M10*1.5P
	M12-60	108.4	75	53	24	M12*1.75P
	M16-45	93.4	60	38	29	M16*2.0P
BT40	M6-60	125.4	60	33	13	M6*1.0P
	M6-100	165.4	100	73	13	M6*1.0P
	M6-150	215.4	150	123	13	M6*1.0P
	M8-60	125.4	60	33	15	M8*1.25P
	M8-100	165.4	100	73	15	M8*1.25P
	M8-150	215.4	150	123	15	M8*1.25P
	M10-60	125.4	60	33	19	M10*1.5P
	M10-100	165.4	100	73	19	M10*1.5P
	M10-150	215.4	150	123	19	M10*1.5P
	M12-60	125.4	60	33	24	M12*1.75P
	M12-100	165.4	100	73	24	M12*1.75P
	M12-150	215.4	150	123	24	M12*1.75P
	M16-60	125.4	60	33	29	M16*2.0P
	M16-100	165.4	100	73	29	M16*2.0P
	M16-150	215.4	150	123	29	M16*2.0P



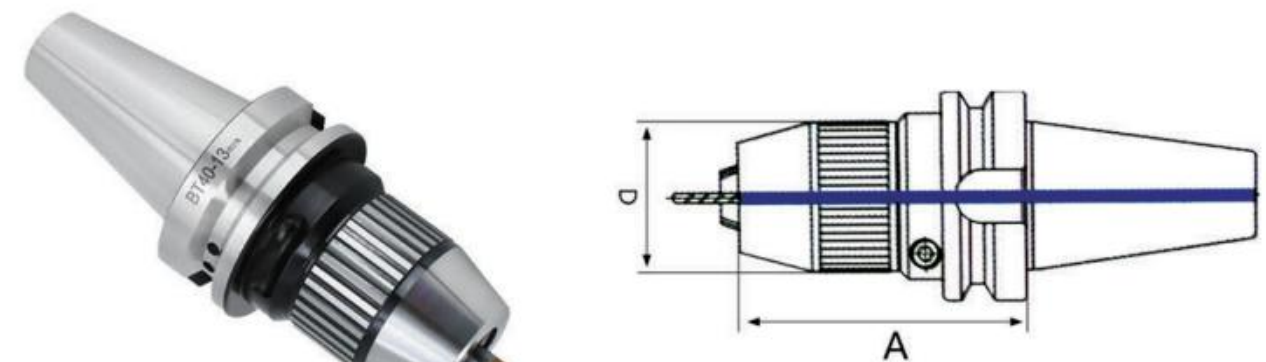
Model	Fig.	φd	φD1	φD2	L	L1	L2	Insection Length C1	Insection Length C
BT40-PHC06-75	1	6	28	46	75	30	34.5	29	46
BT40-PHC06-90	1	6	28	46	90	29	44	29	46
BT40-PHC08-75	1	8	30	48	75	30	34.5	30	46
BT40-PHC08-90	1	8	30	48	90	29	44	30	46
BT40-PHC10-75	1	10	36	52	75	26	30	38	57
BT40-PHC10-90	1	10	36	52	90	40	44	38	57
BT40-PHC12-75	1	12	38	54	75	26	30	38	57
BT40-PHC12-90	1	12	38	54	90	40	44	38	57
BT40-PHC14-75	1	14	40	56	75	28	32	42	57
BT40-PHC16-75	1	16	42	58	75	26	30	46	75
BT40-PHC16-90	1	16	42	58	90	40	44	46	75
BT40-PHC20-75	1	20	46	60	75	26	30	46	75
BT40-PHC20-90	1	20	46	60	90	40	44	46	75
BT40-PHC25-105	1	25	52	62	105	55	58	46	80
BT40-PHC32-105	2	32	62	72	105	44	47	58	90
BT50-PHC10-105	1	10	36	52	105	26	29	36	57
BT50-PHC12-105	1	12	38	54	105	26	29	38	57
BT50-PHC16-105	1	16	42	58	105	26	29	46	75
BT50-PHC20-105	1	20	46	60	105	26	29	46	75
BT50-PHC25-120	1	25	52	62	120	56	58	50	80
BT50-PHC32-120	1	32	62	72	120	43	47	60	90

● 未涉及型号，可按订单生产。
Models are not involved and can be produced on order.



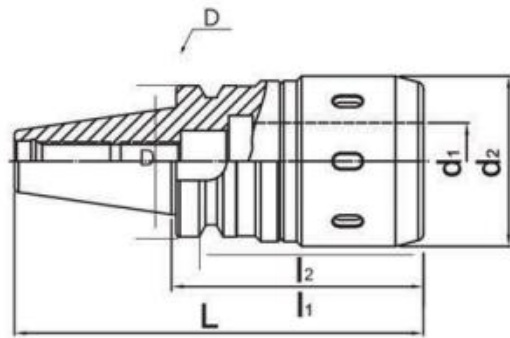
规格型号	Fig.	φD1	φD2	L	L1	L2	Insection Length C1	Insection Length C
HSK63A-PHC06-80	6	32	48	80	32	35	29	46
HSK63A-PHC08-80	8	34	50	80	32	35	30	46
HSK63A-PHC10-80	10	36	52.5	80	32	36	31	50
HSK63A-PHC12-80	12	38	52.5	80	32	36	32	50
HSK63A-PHC16-90	16	42	52.5	90	41	44	40	60
HSK63A-PHC20-90	20	46	52.5	90	41	44	40	60

液压一体式钻夹头 Hydraulic Integrated Drill Chuck

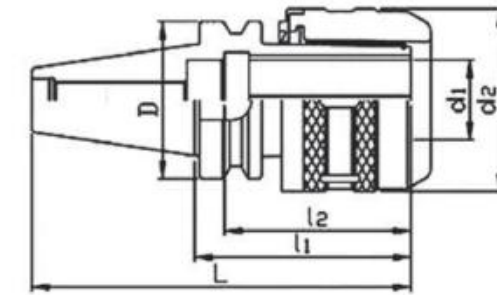


● 此产品含有内冷式
This product contains internal cooling.

Model	Shank	Capacity mm	A(mm)	D(mm)
MAS-202017	BT30	1-13	82	45
MAS-202018	BT40	1-13	89	45
MAS-202019	BT40	1-16	95	50
MAS-202020	BT50	1-16	116	50



65Mn
HRC:44~48
≅0.01mm

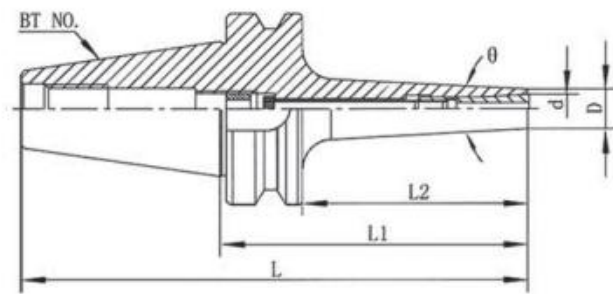


65Mn
HRC:44~48
≅0.01mm

Model	L	L1	L2	D	d1	d2
BT30-C20-90	138.4	90	70	46	20	55
BT30-C25-100	128.4	100			25	58
BT30-C32-105	148.4	105			32	68
BT40-C20-90	155.4	90	70	63	20	55
BT40-C25-100	160.4	100			25	58
BT40-C25-130	195.4	130			32	68
BT40-C32-105	170.4	105	75	100	20	55
BT40-C25-135	200.4	135			25	58
BT50-C20-110	165.4	110			32	68
BT50-C20-165	215.4	165	70	100	20	55
BT50-C25-110	170.4	110			25	58
BT50-C25-165	200.4	165			32	68
BT50-C32-110	206.4	110	75	100	20	55
BT50-C32-135	236.8	135			25	58
BT50-C32-165	266.8	165			32	68
BT50-C32-200	265.4	100	90	100	20	55
BT50-C32-250	315.4	100			25	58
BT50-C32-300	365.4	100			32	68
BT50-C42-110	211.8	110	90	100	20	55
BT50-C42-135	236.8	135			25	58
BT50-C42-165	266.8	165			32	68

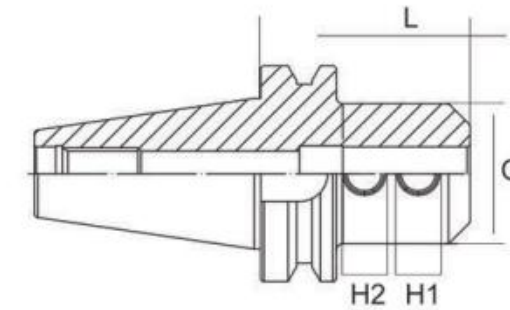
Size of shank & Collets	Back Bar Thread	Wt.	
MT4	C32-75L	M16x2.0P	2.5
MT5	C32-75L	M24x3.0P	3.5
	C42-110L		5.0
R8	C20-85L	7/16" -20	2.5
NT30	C20-65L	M12x1.75P	3.0
NT40	C20--70L	M16x2.0P	3.5
	C32-95L		4.0
NT50	C32-100L	M24x3.0P	4.5
	C42-110L		6.0
BT30	C20-90L	M12x1.75P	2.5
	C25-100L		3.0
BT40	C20-90L/120L	M16x2.0p	3.0/4.0
	C25-100L/135L		4.5/5.0
	C32-105L/135L		3.0/3.5
BT50	C32-110L/135L	M24x3.0p	5.2/7.0
	C42-110L/135L		6.5/7.5





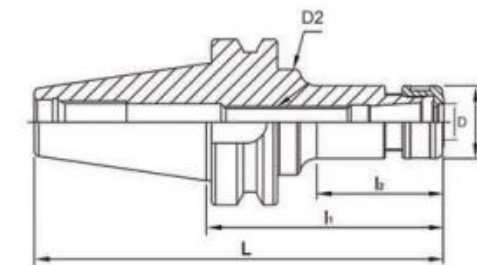
- 无螺帽的后拉式筒夹设计, 刚性强稳定性高
- 建议使用扭力扳手, 不要超过推荐值的30%, 过高的扭力, 可能导致刀柄的变形
- Collet nut design - no pull, strong stability and high rigidity
- The recommended torque wrench, do not exceed the recommended value of 30%, high torque, the deformation may lead

Model		L	L1	L2	θ	D	d
BT30	SDC06-60	108.4	60	38	6°	14	3-6
	SDC06-90	138.4	90	68	6°	14	3-6
	SDC08-60	108.4	60	38	6°	22	3-8
	SDC08-90	138.4	90	68	6°	22	3-8
	SDC12-80	128.4	80	58	—	34	3-12
BT40	SDC06-90	165.4	90	73	6°	14	3-6
	SDC06-150	215.4	150	123	6°	14	3-6
	SDC08-90	165.4	90	73	6°	22	3-8
	SDC08-150	215.4	150	123	6°	22	3-8
	SDC12-90	165.4	90	73	—	34	3-12
	SDC12-150	215.4	150	123	—	34	3-12
BT50	SDC06-100	201.8	100	62	6°	14	3-6
	SDC06-150	251.8	150	112	6°	14	3-6
	SDC08-100	201.8	100	62	6°	22	3-8
	SDC08-150	251.8	150	112	6°	22	3-8
	SDC12-100	201.8	100	62	—	34	3-12
	SDC12-150	251.8	150	112	—	34	3-12



MAS403
20CrMnTi
≧ 12000rpm

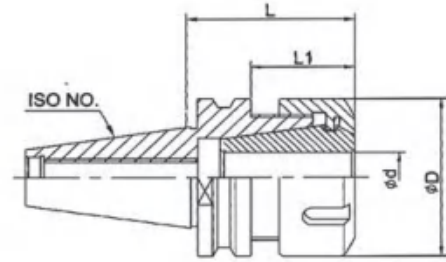
Model	Fig	L	C	H1	H2
BT30-SLN20-70	1	70	52	25	—
BT40-SLN20-70	1	70	52	25	—
BT40-SLN25-90	2	90	65	24	25
BT40-SLN32-100	2	100	72	24	28
BT50-SLN25-100	2	100	65	24	25
BT50-SLN32-105	2	105	72	24	28
BT50-SLN40-115	2	110	90	30	32



MAS403
20CrMnTiH
≤ 0.005mm
≧ 30000rpm



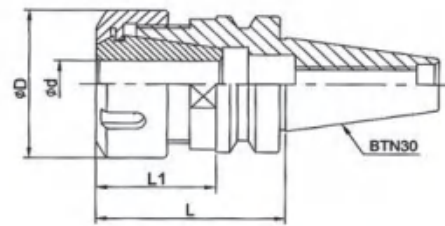
Model	Clamping	L	L1	D1	Collets
BT30-SK10-60	3-10	60	33	29	SK10
BT30-SK10-90		90	63		
BT30-SK16-60	3-16	60	33	40.5	SK16
BT30-SK16-90		90	63		
BT40-SK10-60	3-10	60	33	29	SK10
BT40-SK10-90		90	63		
BT40-SK16-60	3-16	60	33	40.5	SK16
BT40-SK16-90		90	63		



20CrMnTi
 ≤0.005mm
 ≥30000rpm

Model	Capacity	D	L	L1
ISO20-ER16MS-35	1-10	22	35	26
ISO25-ER20MS-35	1-13	28	35	26.2
ISO30-ER32UM-50	3-20	50	50	30.9

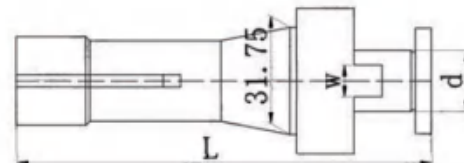
NBT30无键槽刀柄 NBT30 Tool Holder Without Keyway



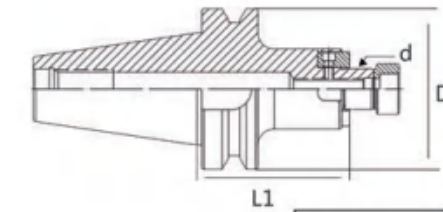
20CrMnTi
 ≤0.005mm
 ≥30000rpm

Model	Capacity	D	L	L1
NBT30-ER16-70	1-10	28	60	38
NBT30-ER20-70	1-13	34		38
NBT30-ER25-70	1-16	42		38
NBT30-ER32-70	3-20	50		38

R8-FMB铣刀柄 R8-FMB Milling Tool Holder



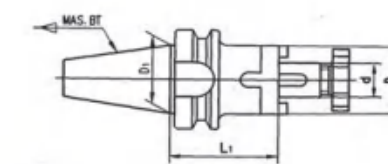
Model	d	W	L	Thread	Hole	Face Mill specifications
R8-FMB22	22	10	155	M12 7/16-20UNF	22	50/63
R8-FMB27	27	12	160		27	80
R8-FMB32	32	14	160		32	100
R8-FMB40	40	16	170		40	125/160



MAS403 20CrMnTi ≥12000rpm

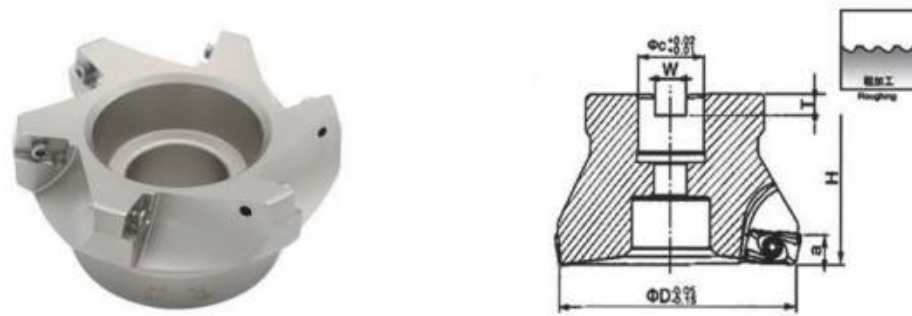
Model	L1	D	d
BT30-FMB22-45	45	50	22
BT30-FMB27-45	45	60	27
BT30-FMB32-60	60	78	32
BT40-FMB22-60	60	48	22
BT40-FMB22-100	100	48	22
BT40-FMB27-60	60	60	27
BT40-FMB32-60	60	78	32
BT40-FMB40-60	60	89	40
BT50-FMB22-100	100	48/58	22
BT50-FMB27-100	100	60	27
BT50-FMB32-100	100	78	32
BT50-FMB40-100	100	98	40
BT50-FMB60-75	75	140	60

BT-CEM 混合插入式铣刀杆 BT-CEM Combine Shell End Mill Arbors



MAS403 20CrMnTi ≥12000rpm

Model	L1	D	D1	d
BT30-CEM16-50	50	32	31.75	16
BT30-CEM22-50	50	40		22
BT30-CEM27-55	55	48		27
BT40-CEM16-55	55	32	44.45	16
BT40-CEM22-55	55	40		22
BT40-CEM27-55	55	48		27
BT40-CEM32-60	60	58	69.85	32
BT40-CEM40-60	60	70		40
BT50-CEM16-70	70	32		16
BT50-CEM22-70	70	40	22	
BT50-CEM27-70	70	48	27	
BT50-CEM32-70	70	58	32	
BT50-CEM40-70	70	70	40	



Cat.NO	Size(mm)						Circular Cushin	Applicable inserts	Clamp screw	Wrench
	D	C	H	W	T	a				
RAP400R-50-22-4T	50	16	45	8.5	5	8	-	APMT 1604	M4 x 10	T15
RAP400R-63-22-4T	63	22	50	10.4	6.3	8	-			
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	PDER	M4 x 10	T15
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	-			



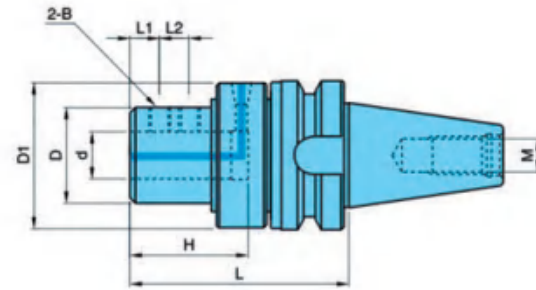
Cat.NO	Size(mm)						Circular Cushin	Applicable inserts	Clamp screw	Wrench
	D	C	H	W	T	a				
TAP400R-50-22-4T	50	20	50	10.4	6.3	14	-	APMT 1604	M4 x 10	T15
TAP400R-63-22-4T	63	22	50	10.4	6.3	14	-			
TAP400R-80-27-6T	80	27	50	12.4	7	14	-			
TAP400R-100-32-6T	100	32	50	14.4	8	14	FMB-32-SHIM	PDER	M4 x 10	T15
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-200-60-12T	200	60	63	25.7	14	14				
TAP400R-250-60-12T	250	60	63	25.7	14	14				



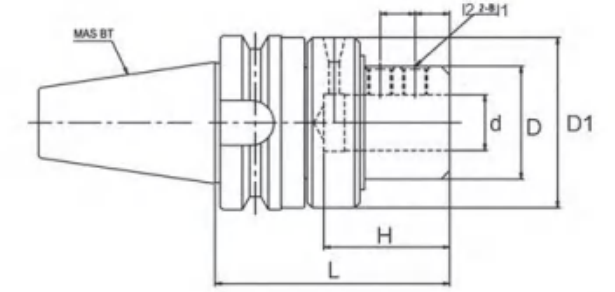
Cat.NO	Size(mm)						Circular Cushin	Applicable inserts	Clamp piecescrew	Clamp	Wrench
	D	C	H	W	T	a					
EMR-5R-50-22-4T	50	22	50	10.4	6.3	5	-	RPMW 1003 MO PRMW 10T3 MOE	A-5R	M4 x 10	T15
EMR-5R-63-22-4T	63	22	50	10.4	6.3	5	-				
EMR-5R-80-27-6T	80	27	50	12.4	7	5	FMB-32-SHIM				
EMR-5R-100-32-6T	100	32	50	14.4	8	5		RPMW 1204 MO	A-6R	M4 x 10	T15
EMR-6R-50-22-4T	50	22	50	10.4	6.3	6	-				
EMR-6R-63-22-4T	63	22	50	10.4	6.3	6	-				
EMR-6R-80-27-6T	80	27	50	12.4	7	6	-	RPMW 1204 MO	A-6R	M4 x 10	T15
EMR-6R-100-32-6T	100	32	50	14.4	8	6	FMB-32-SHIM				
EMR-6R-125-40-6T	125	40	63	16.4	9	6	FMB-40-SHIM				



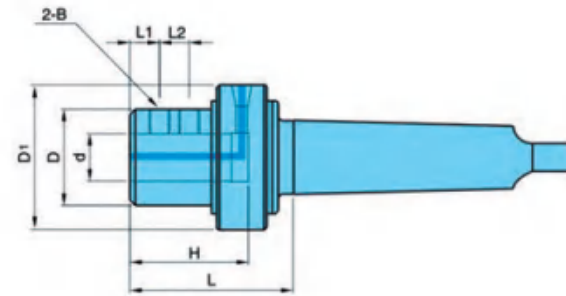
Cat.NO	Size(mm)					Circular Cushin	Applicable inserts	Clamp screw	Wrench
	D	C	H	W	T				
KM12-50-22-4T	50	22	50	10.4	6.3	-	SEKT1204	A501105D	T20F
KM12-63-22-4T	63	22	50	10.4	6.3	-			
KM12-80-27-5T	80	27	50	12.4	7	-			
KM12-100-32-5T	100	32	50	14.4	8	FMB-32-SHIM	M5 x 11	T20	
KM12-125-40-6T	125	40	63	16.4	8	FMB-40-SHIM			
KM12-160-40-9T	160	40	63	16.4	9	FMB-40-SHIM			



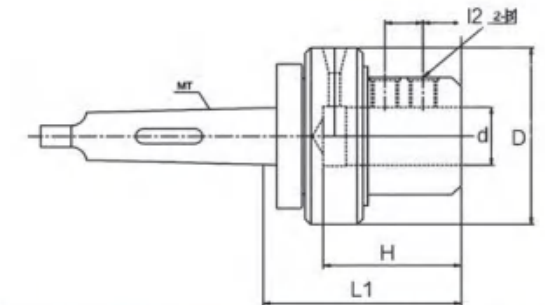
Model	L1	L2	L3	H	I1	I2	D	D1	d	Weight
BT40-OML20-140	140	96.7	57	78	-	20	φ83	φ49.5	20	3.74
BT40-OML25-155	155	111.7		93	20				25	3.81
BT40-OML32-155		112	59	93	20		32	4.10		
BT50-OML20-140	140	97	57	78	-		φ83	φ49.5	20	7.17
BT50-OML25-155	155	112		93	20				25	7.39
BT50-OML32-155		112.7	59	93	20		32	8.10		
BT50-OML40-160	160	117.7		95	95		40	7.90		



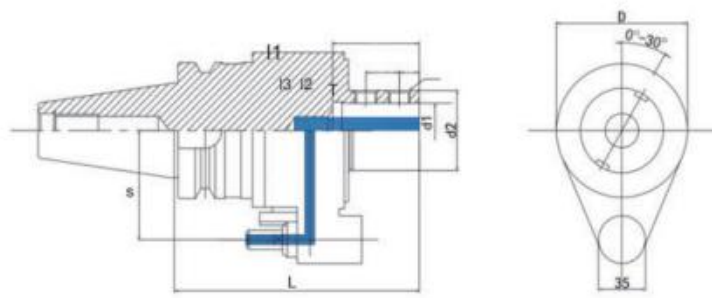
Model	d	L	D	D1	H	I1	I2	B
BT40-OMS-20105	20	105	50	78	50	20	/	M12
BT40-OMS-25120	25	120	50	78	60	20	20	M12
BT40-OMS-32125	32	125	65	88	70	20	20	M14
BT50-OMS-20120	20	120	50	78	50	20	/	M12
BT50-OMS-25135	25	135	50	78	60	20	20	M12
BT50-OMS-32135	32	135	65	98	70	20	20	M14
BT50-OMS-40145	40	145	65	98	80	20	25	M16 × 1.5
BT50-OMS-50170	50	170	90	123	90	35	35	M20



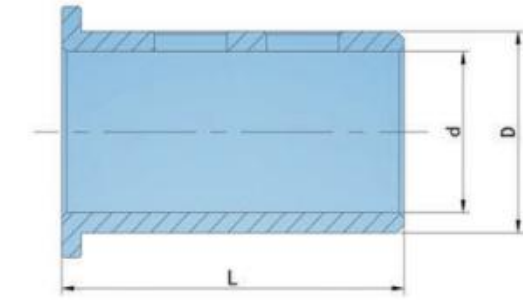
Model	L1	I1	I2	H	D	D1	d	重量
MT4-OML20-115	115	-	20	78	φ83	φ49.5	20	3.56
MT4-OML25-130	130	20		93			25	5.62
MT4-OML32-135	135			93	32	4.38		
MT5-OML20-115	115	-		78	φ83	φ49.5	20	4.4
MT5-OML25-130	130	20		93			25	4.50
MT5-OML32-135	135			93	32	5.01		
MT5-OML40-140	140	-		95	φ98	φ59.5	40	5.11
MT6-OML20-120	120	-		78	φ83	φ49.5	20	7.13
MT6-OML25-130	130	20	93	25			7.22	
MT6-OML32-135	135		93	32	7.85			
MT6-OML40-140	140	-	95	φ98	φ54.5	40	7.98	



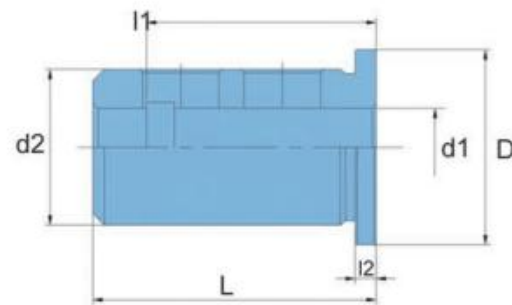
Model	d	D	I1	I2	H	L1	B
MT4-OMS-20080	20	83	20	/	60	80	M12
MT4-OMS-25095	25	83	20	20	75	95	M12
MT4-OMS-32100	32	88	20	20	78	100	M14
MT5-OMS-20080	20	83	20	/	60	80	M12
MT5-OMS-25095	25	83	20	20	75	95	M12
MT5-OMS-32100	32	88	20	20	78	100	M14
MT5-OMS-40110	40	88	20	25	82	110	M16 × 1.5
MT6-OMS-20085	20	83	20	/	60	85	M12
MT6-OMS-25100	25	83	20	20	75	100	M12
MT6-OMS-32105	32	88	20	20	78	105	M14
MT6-OMS-40120	40	88	20	25	82	120	M16 × 1.5



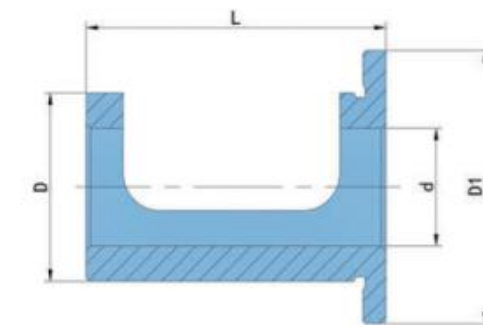
Model	L	I1	I2	I3	D	d1	d2	S	T	Weight
BT40-OSL16-150	150	48	25	-	82	16	49.5	65	M12-1.75P	3.10
BT40-OSL20-150		50				20				3.50
BT40-OSL25-165	165	56	15	20		25				3.50
BT40-OSL32-165		60				32				7.80
BT50-OSL16-165	165	48	25	-	98	16	59	80	M14-2.0P	7.00
BT50-OSL20-165		50				20			M12-1.75P	7.50
BT50-OSL25-165		56	15	20		M16-2.0P			7.50	
BT50-OSL32-165		60				32			9.05	
BT50-OSL40-165		62	25	M14-2.0P		8.50				



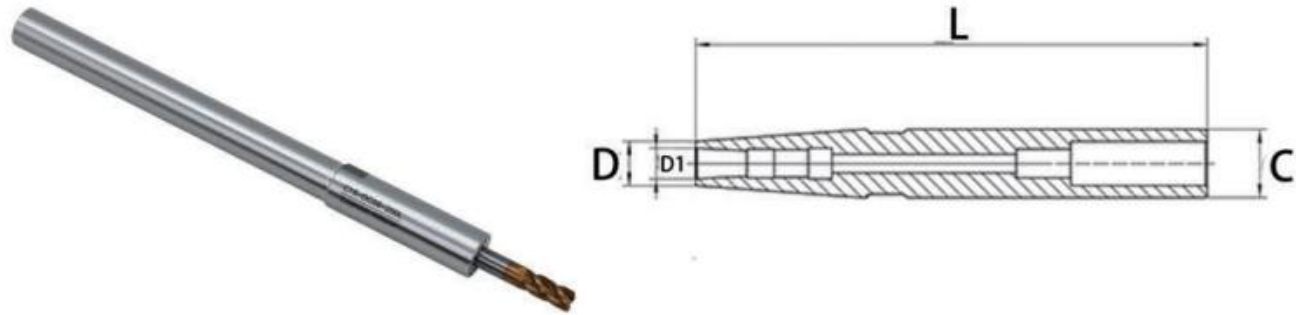
Model	L	D	d	Weight
OMS25-20	58	φ25	φ20	0.21
OMS32-20	60	φ32		0.28
OMS32-25	71		φ25	0.23
OMS40-20	66	φ40	φ20	0.50
OMS40-25	71		φ25	0.45
OMS40-32			φ32	0.24



Model	L	I1	I2	D	d1	d2	Weight
OSL-20-16	54	48	5.5	30	16	20	0.07
OSL-25-16	60			35		25	0.19
OSL-25-20		56		20	0.15		
OSL-32-16	64	48		16	32	0.35	
OSL-32-20		56	20	0.32			
OSL-32-25	74	48	50	25	40	0.22	
OSL-40-16				16		0.57	
OSL-40-20		20		0.54			
OSL-40-25		25		0.45			
OSL-40-32		60	32			0.30	

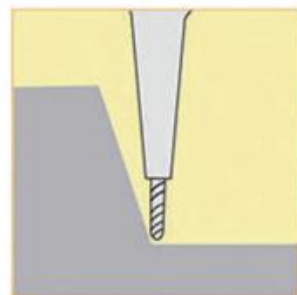


Model	L	d	D1	D	Weight
20-25	48	20	41	25	0.19
25-32	60	25	49	32	0.21
32-40	65	32	58	40	0.23
40-50	76	40	68	50	0.24

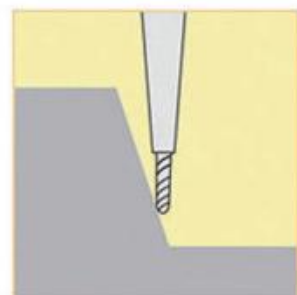


Unit: mm

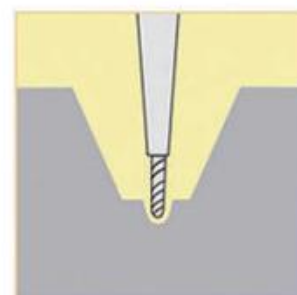
Model	Clamping	C	D	D1	L	Collet
C12-CDC06-120	2-6	12	13	10	120	SDC06
C12-CDC06-150					150	SDC06
C16-CDC06-150		16		14	150	SDC06
C16-CDC06-200					200	SDC06
C20-CDC06-150		20		17	150	SDC06
C20-CDC06-200					200	SDC06
C20-CDC08-150	3-8		16		150	SDC08
C20-CDC08-200					200	SDC08
C20-CDC10-200	3-10	19	200	SDC10		
C25-CDC08-150	3-8	25	16	22	150	SDC08
C25-CDC08-200					200	SDC08
C25-CDC12-200	3-12	18	18	22	200	SDC12
C25-CDC12-250					250	SDC12



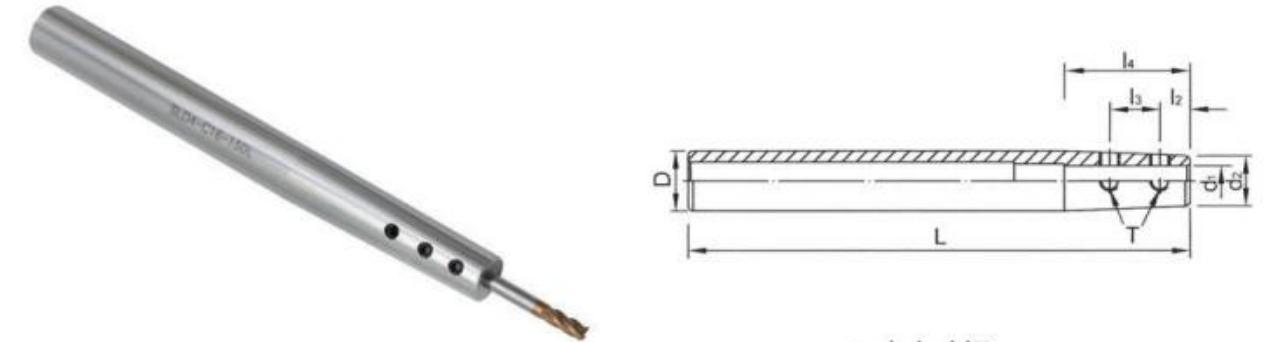
壁角加工
Corner processing



立壁加工
Vertical wall processing



铣槽加工
Processing

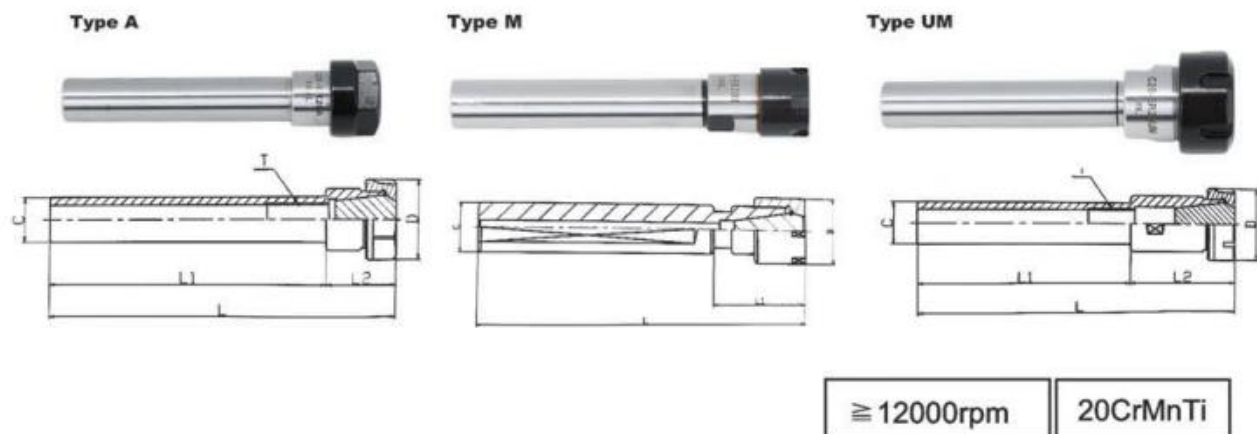


● d1 is H5.

- 每支延长杆附赠4颗螺丝1支扳手
- Each extension rod comes with 4 screws and 1 wrench

Unit: mm

Model	L	l ₂	l ₃	l ₄	D	d ₁	d ₂	T	WEIGHT (KGS)					
C10-SLD3-150	150	6	10	25	10	3	9	M3 x 0.5P	0.10					
C10-SLD4-150						4			0.10					
C10-SLD6-150						6	-		0.10					
C12-SLD4-150	100				6	10	25	12	4	9	M4 x 0.7P	0.12		
C12-SLD6-100									6			0.10		
C12-SLD6-150	150							16	6	10		6	0.12	
C16-SLD4-150												4	0.15	
C16-SLD4-200	200							16	6	13		10	4	0.18
C16-SLD6-150	150												6	0.15
C16-SLD6-200	200							16	6	15	10	6	0.18	
C16-SLD8-150	150	8	0.15											
C16-SLD8-200	200	16	6	15				10	8	0.18				
C20-SLD6-150	150								20	6	13	10	6	0.18
C20-SLD8-150		200	8	15	10	17	8	0.18						
C20-SLD8-200	200						20	10	17	10	10	0.18		
C20-SLD10-150		150	20	12	19	10					17	12	0.20	
C20-SLD10-200	200						20	12	19	10		19	12	0.18
C20-SLD12-150		150	20	12	19	10					19		12	0.20
C20-SLD12-200	200						32	6	13	15		17	6	0.21
C32-SLD6-150		150	8	15	17	19					19		8	0.21
C32-SLD8-150	10						0.22							
C32-SLD10-150	12		15	17	19	19	19	10	0.22					
C32-SLD12-150								12	0.22					



Model	L	L1	C	D
C10-ER8A/M-100	117	100	10	12
C10-ER11A/M-100	121.6/116.6	100	10	19/16
C12-ER11A/M-100	121.6/116.6	100	12	19/16
C12-ER16A/M-100	140/137	100	12	28/22
C16-ER11A/M-100	121.6/116.6	100	16	19/16
C16-ER16A/M-100	140/137	100	16	28/22
C16-ER16A/M-150	190/187	150	16	28/22
C20-ER16A/M-100	140/137	100	20	28/22
C20-ER16A/M-150	190/187	150	20	28/22
C20-ER20A/M-100	140.5/140	100	20	34/28
C20-ER25UM-100	151	100	20	42
C20-ER32UM-100	51.5	100	20	50
C25-ER20UM-100	140.5/140	100	25	34/28
C25-ER25UM-100	51	100	25	42
C25-ER32UM-100	51.5	100	25	50
C32-ER32UM-100	51.5	100	32	50
C32-ER32UM-150	51.5	150	32	50
C40-ER32UM-100	51.5	100	40	50
C40-ER40UM-100	65	100	40	63

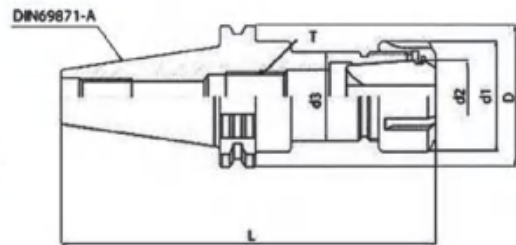


Any other special sizes as ordered. 其它规格可按订单供货



- 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：42CrMo
- 硬度：HRC52
- 内孔同心度：0.005mm
- 夹持柄位有消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 (folde drills, end mills, small boring tool, etc.) can be shock-absorbing efficiency.
- Material: 42CrMo
- Hardness: HRC52
- Hole c=Concentricity: 0.005mm
- Clapping handle bit-side leveling screw for locking the side of a knife block.

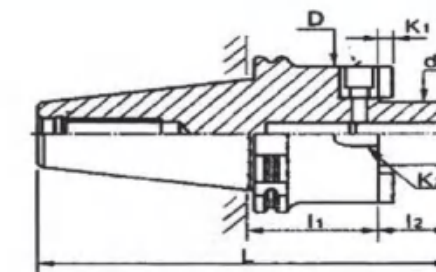
Model	L	L1	C	D
SL20-ER11-80	76.6	16.6	20	16
SL20-ER16-80	86.6	26.6	20	22
SL20-ER20-80	97	32	20	28
SL25-ER16-80	97	32	25	22
SL25-ER20-80	97	32	25	28
SL25-ER25-80	97	32	25	42
SL25-ER25-100	108	38	25	50
SL32-ER16-80	97	32	32	22
SL32-ER20-80	102	32	32	28
SL32-ER25-80	102	32	32	42
SL32-ER32-80	108	38	32	50
SL32-ER40-80	120	50	32	63
SL40-ER32-80	108	38	40	50
SL40-ER40-80	128	53	40	63
SL45-ER32-120	178	120	45	50
SL45-ER40-120	180	120	45	63
SL1-1/4" -ER25-60	97	60	1-1/4" I	42
SL1-1/4" -ER32-60	103	60	1-1/4" I	50
SL1-1/4" -ER40-60	120	60	1-1/4" I	63
SL1-1/2" -ER32-80	118	80	1-1/2" I	50
SL1-1/2" -ER40-75	135	75	1-1/2" II	63



DIN69871-A
20CrMnTi
≤0.005mm
≥12000rpm



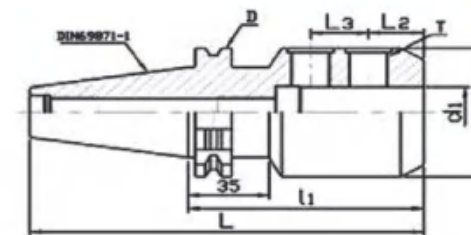
Model	L	L1	D	d1	d2	Thread	KGS
SK30-ER11-100	148.4	80	50	19	11	M6*1P	0.6
SK30-ER16-100	148.4	100		28	16	M10*1.5P	0.7
SK30-ER20-100	148.4	100		34	20	M12*1.75P	0.75
SK40-ER11-80	148.4	80	63.55	19	11	M6*1P	1.05
SK40-ER16-70	138.4	70		28	16	M10*1.5P	1.3
SK40-ER16-100	168.4	100		28	16	M10*1.5PP	1.4
SK40-ER20-100	168.4	100		34	20	M12*1.75P	1.5
SK40-ER25-100	168.4	100		42	25	M16*2P	1.85
SK40-ER25-150	218.4	150		42	25	M16*2P	2.25
SK40-ER32-70	138.4	70		50	32	M16*2P	1.6
SK40-ER32-100	168.4	100		50	32	M16*2P	2
SK40-ER40-70	138.4	70		63	40	M16*2P	1.5
SK40-ER40-100	168.4	100		50	32	M16*2P	2
SK50-ER16-100	201.4	100	97.5	28	16	M10*1.5P	3.2
SK50-ER16-160	261.75	160		28	16	M10*1.5P	4.5
SK50-ER20-100	201.75	100		34	20	M12*1.75P	3.4
SK50-ER20-160	261.75	160		34	20	M12*1.75P	3.8
SK50-ER25-70	171.75	70		42	25	M16*2P	3.4
SK50-ER25-100	201.75	100		42	25	M16*2P	4.15
SK50-ER25-150	251.75	150		42	25	M16*2P	4.5
SK50-ER32-120	221.75	120		50	32	M16*2	4.6
SK50-ER32-160	261.75	160		50	32	M16*2P	4.75
SK50-ER40-80	181.75	80		63	40	M16*2P	3.65
SK50-ER40-120	221.75	120		63	40	M16*2P	4.8
SK50-ER40-160	261.75	160		63	40	M16*2P	5.2
SK50-ER50-120	221.75	120		78	50	M20*2.5P	5.45
SK50-ER50-160	261.75	160		78	50	M20*2.5P	5.55



DIN69871-A 20CrMnTiH

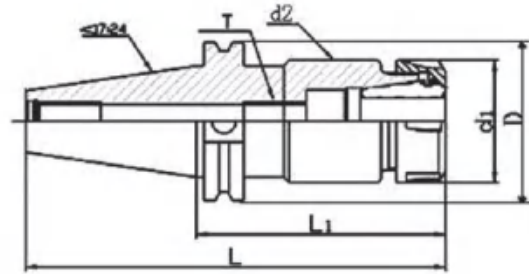
Model	L	l2	l3	d2	d3	k1	k2	KGS
SK30-FMB22-35	100.8	18	14	26	47	4.8	10	1.00
SK30-FMB27-35	102.8	20	16	31.5	58	5.8	12	1.05
SK40-FMB22-60	121.4	18	14	26	47	4.8	10	1.20
SK40-FMB27-60	148.4	20	16	31.5	58	5.8	12	1.8
SK40-FMB32-60	150.4	22	16	41	66	6.8	14	2.3
SK40-FMB40-60	153.4	25	20.5	48	80	8.3	16	2.8
SK50-FMB22-100	154.75	18	14	26	47	4.8	10	3.4
SK50-FMB27-100	156.75	20	16	31.5	58	5.8	12	3.5
SK50-FMB32-100	158.75	22	16	41	66	6.8	14	3.7
SK50-FMB40-100	189.75	25	20.5	48	80	8.3	16	4.7

SK 侧固式立铣刀杆 SK Side Lock End Mill Arbors



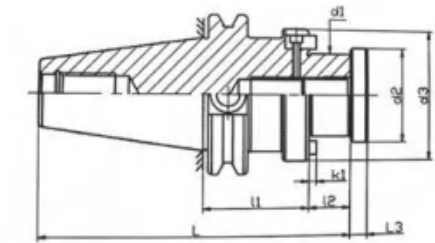
DIN69871-A 20CrMnTi

Model	L	l2	l3	L2	d2	T	KGS
SK30-SLN12-50	97.8	50	42	22.5	42	M12 × 1.75P	0.9
SK30-SLN16-63	97.8	63	48	24	48	M14 × 2.0P	1.10
SK40-SLN16-63	131.4	63	48	24	48	M14 × 2.0P	1.4
SK40-SLN20-63	131.4	63	52	25	52	M16 × 2.0P	1.3
SK40-SLN25-100	168.4	100	65	24	65	M18 × 2.0P	2.4
SK40-SLN32-100	168.4	100	72	24	72	M20 × 2.0P	2.7
SK50-SLN20-100	164.75	63	52	25	52	M16 × 2.0P	3.5
SK50-SLN25-100	181.75	80	65	24	65	M18 × 2.0P	4.2
SK50-SLN32-100	201.75	100	72	24	72	M20 × 2.0P	5.0
SK50-SLN40-100	201.75	100	90	30	90	M20 × 2.0P	5.6



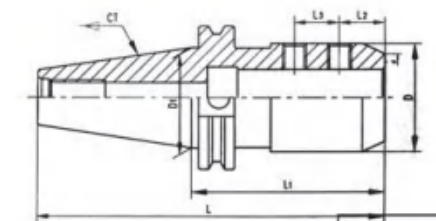
ANSI B5.50	20CrMnTi	≤0.005mm	≥12000rpm
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Model	L	L1	D	d1	d2	Thread	KGS
CAT40-ER16-2.76"	5.447"	2.76"	2.5"	1.102"	1.75"	M10*1.5P	1.05
CAT40-ER16-4"	6.687"	4"		1.102"		M10*1.5P	1.35
CAT40-ER16-6"	8.687"	6"		1.102"		M10*1.5P	1.65
CAT40-ER20-2.76"	5.447"	2.76"		1.339"		M12*1.75P	1.25
CAT40-ER20-4"	6.687"	4"		1.339"		M12*1.7P	1.65
CAT40-ER25-2.76"	5.447"	2.76"		1.654"		M16*2P	1.35
CAT40-ER25-4"	6.687"	4"		1.654"		M16*2P	1.70
CAT40-ER25-6"	8.687"	6"		1.65"		M16*2P	2.25
CAT40-ER32-2.76"	5.447"	2.76"		1.969"		M16*2P	1.25
CAT40-ER32-4"	6.687"	4"		1.969"		M16*2P	1.75
CAT40-ER32-5"	8.687"	6"		1.969"		M16*2P	2.15
CAT40-ER40-3.15"	5.837"	3.15"		2.480"		M20*2.5P	1.80
CAT40-ER40-4"	6.687"	4"		2.480"		M20*2.5P	2.05
CAT40-ER40-6"	8.687"	6"		2.480"		M20*2.5P	3.30
CAT40-ER50-4"	6.687"	4"	3.070"	M24*3.0P	2.65		
CAT50-ER16-4"	8"	4"	3.875"	1.102"	2.75"	M10*1.5P	4.10
CAT50-ER16-6"	10"	6"		1.102"		M10*1.5P	4.28
CAT50-ER20-4"	8"	4"		1.339"		M12*1.75P	4.20
CAT50-ER20-6"	10"	6"		1.339"		M12*1.75P	4.45
CAT50-ER25-4"	8"	4"		1.654"		M16*2P	4.15
CAT50-ER25-6"	10"	6"		1.654"		M16*2P	4.50
CAT50-ER32-4"	8"	4"		1.969"		M16*2P	4.70
CAT50-ER32-6"	10"	6"		1.969"		M16*2P	4.60
CAT50-ER40-4"	8"	4"		2.480"		M20*2.5P	4.25
CAT50-ER40-6"	10"	6"		2.480"		M20*2.5P	4.80
CAT50-ER50-4"	8"	4"		3.070"		M24*3P	4.85



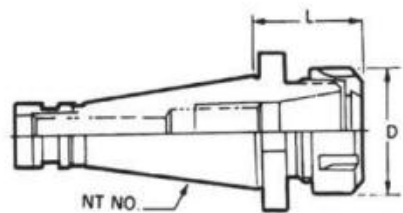
ANSI B5.50	20CrMnTi	≤0.005mm	≥12000rpm
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Model	L	L2	d1	d3
CAT40-FMB1" -1.75"	1.75"	17.5	1"	60
CAT40-FMB1.25" -2"	2"	17.5	1.25"	70
CAT40-FMB1.5" -2"	2"	23.8	1.5"	85
CAT50-FMB1.25" -4"	4"	17.5	1.25"	70
CAT50-FMB1.25" -6"	6"	17.5	1.25"	70
CAT50-FMB1.5" -4"	4"	23.8	1.5"	85
CAT50-FMB1.5" -6"	6"	23.8	1.5"	85
CAT50-FMB2" -2"	2"	24	2"	95
CAT50-FMB2" -4"	4"	24	2"	95
CAT50-FMB2" -6"	6"	24	2"	95

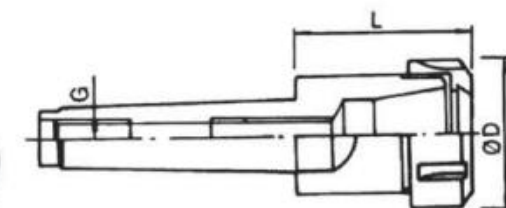


ANSI B5.50

Model	L1	D	d	l2	l3
CAT40-SL0.4" -2"	2"	1.4"	0.4"	0.8"	-"
CAT40-SL0.475" -2"	2"	1.675"	0.475"	9"	-"
CAT40-SL0.65" -2.5"	2.5"	1.925"	0.65"	1"	-"
CAT40-SL0.8" -2.5"	2.5"	2.075"	0.8"	1"	-"
CAT40-SL1" -4"	4"	2.625"	1"	1"	1"
CAT40-SL1.25" -4"	4"	2.85"	1.25"	1"	1.125"
CAT50-SL0.475" -2.5"	2.5"	1.675"	0.475"	9"	-"
CAT50-SL0.65" -2.5"	2.5"	1.925"	0.65"	1"	-"
CAT50-SL0.8" -2.5"	2.5"	2.075"	0.8"	1"	-"
CAT50-SL1" -3.2"	3.2"	2.625"	1"	1"	1"
CAT50-SL1.25" -4"	4"	2.85"	1.25"	1"	1.125"
CAT50-SL1.6" -4.8"	4.8"	3.6"	1.6"	1.2"	1.275"
CAT50-SL2" -5.2"	5.2"	4"	2"	1.4"	1.4"



DIN2080
20CrMnTi



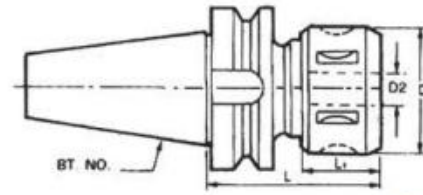
DIN228
0.01mm



Model	Qty. & Clamping	Back Bar Thread	Wt.	
NT30-ER25	7PCS(2-16mm)	M12x1.75P	2.4	
	15PCS(4-16mm)		2.8	
NT30-ER32	6PCS(6-20mm)		2.8	
	11PCS(4-20mm)		3.2	
	18PCS(3-20mm)		4.2	
NT30-ER40	7PCS(6-25mm)		4.6	
	15PCS(4-26mm)		6.0	
	23PCS(4-26mm)		7.3	
NT40-ER25	7PCS(3-16mm)		M16x2.0P	3.0
	15PCS(3-16mm)			3.3
NT40-ER32	6PCS(6-20mm)	3.4		
	11PCS(4-20mm)	3.8		
	18PCS(3-20mm)	4.8		
NT40-ER40	7PCS(6-25mm)	5.2		
	15PCS(4-26mm)	6.9		
	23PCS(4-26mm)	8.2		
NT50-ER32	6PCS(6-20mm)	M24x3.0P		5.3
	11PCS(4-20mm)			5.5
	18PCS(3-20mm)			6.5
NT50-ER40	7PCS(6-25mm)			7.0
	15PCS(4-26mm)		8.5	
	23PCS(4-26mm)		9.8	

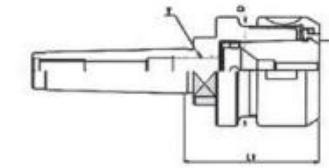


Model	Qty. & Clamping	Back Bar Thread	Wt.
MT2-ER16	8PCS(3-10mm)	M10x1.5P	1.0
MT2-ER20	11PCS(3-13mm)		1.2
MT2-ER25	7PCS(6-16mm)		1.3
	15PCS(2-16mm)	2.4	
MT3-ER16	8PCS(3-10mm)	M12x1.75P	1.1
MT3-ER20	11PCS(3-13mm)		1.3
MT3-ER25	7PCS(4-16mm)		2.1
	15PCS(2-16mm)		2.5
	6PCS(6-20mm)		2.7
MT3-ER32	11PCS(4-20mm)		3.0
	18PCS(3-20mm)		4.1
	7PCS(6-25mm)		4.5
MT3-ER40	15PCS(4-26mm)		6.0
	23PCS(4-26mm)		7.2
	6PCS(6-20mm)		2.9
MT4-ER32	11PCS(4-20mm)		M16x2.0P
	18PCS(3-20mm)	4.3	
	7PCS(6-25mm)	4.6	
MT4-ER40	15PCS(4-26mm)	6.1	
	23PCS(4-26mm)	7.3	
	7PCS(6-25mm)	6.4	
MT5-ER40	15PCS(4-26mm)	M24x3.0P	6.9
	23PCS(4-26mm)		8.2

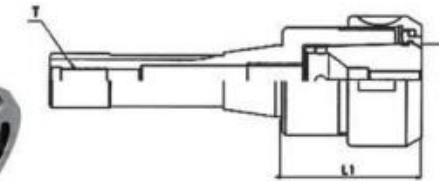


MAS403 20CrMnTi ≥12000rpm

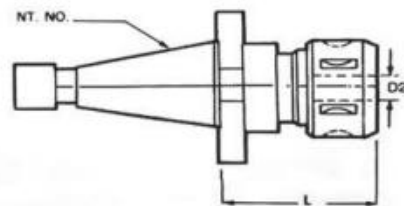
Model	D2	L	D	L1	Collets	Back Bar Thread
BT40-OZ25-80	3-25	80	60	30	OZ25	M16x2.0P
BT40-OZ25-120	3-25	120	60	30	OZ25	
BT40-OZ32-80	6-32	80	72	33	OZ32	
BT40-OZ32-150	6-32	150	72	33	OZ32	
BT50-OZ25-90	3-25	90	60	30	OZ25	M24x3.0P
BT50-OZ25-130	3-25	130	60	30	OZ25	
BT50-OZ32-105	6-32	105	72	33	OZ32	
BT50-OZ32-150	6-32	150	72	33	OZ32	



Model	D2	L1	Collets	Back Bar Thread
MT3-OZ25-60	3-25	60	OZ25	M10x1.0P
MT4-OZ25-60	3-25	60	OZ25	M16x2.0P
MT5-OZ25-75	3-25	75	OZ25	M24x3.0P
MT5-OZ32-75	6-32	75	OZ32	



Model	D2	L1	Collets	Back Bar Thread
R8-OZ25-60	3-25	60	OZ25	7/16-20UNF



MAS403 20CrMnTi ≥12000rpm

Model	D2	L	Collets	Back Bar Thread
NT30-OZ25-70	3-25	70	OZ25	M12x1.75P
NT30-OZ32-100	6-32	100	OZ32	
NT40-OZ25-70	3-25	70	OZ25	M16x2.0P
NT40-OZ32-70	6-32	70	OZ32	
NT50-OZ25-80	3-25	80	OZ25	M24x3.0P
NT50-OZ32-80	6-32	80	OZ32	

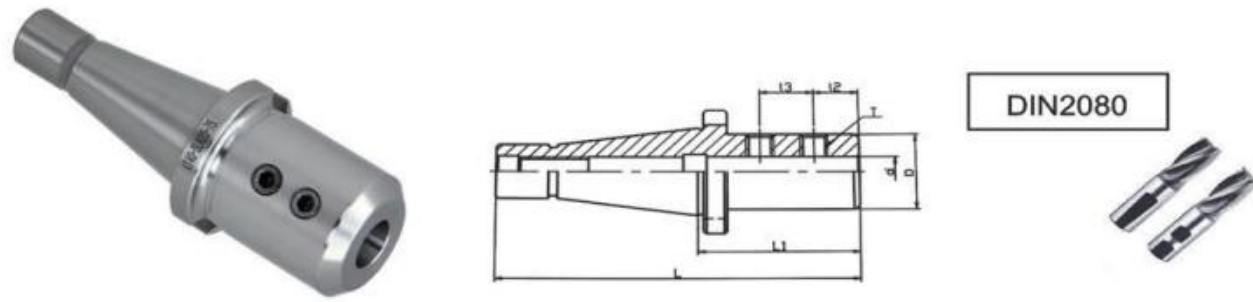


OZ Collets = EOCA

OZ25 (EOCA25)	7PCS	Metric	6; 8; 10; 12; 16; 20; 25mm
		Inch	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"
OZ25 (EOCA25)	15PCS	Metric	3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 14; 16; 18; 20; 25mm
		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"
OZ32 (EOCA32)	8PCS	Metric	3; 8; 10; 12; 16; 20; 25; 32mm
		Inch	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1-1/4"
OZ32 (EOCA32)	15PCS	Metric	6; 7; 8; 9; 10; 11; 12; 13; 16; 18; 20; 25; 30; 32mm
		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", 1-1/8", 1-1/4"

NT 侧固式铣刀杆 NT Side Lock End Mill Arbors

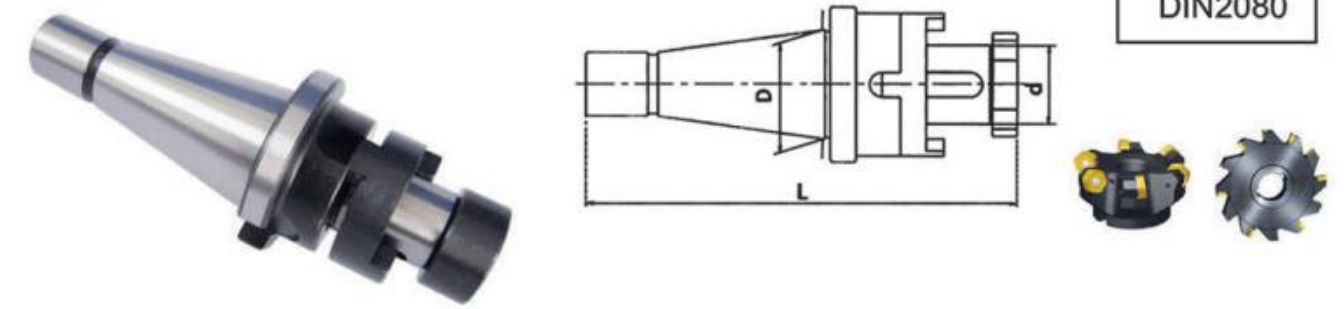
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Model	L1	D	d	l2	l3
NT30-SL20-63	63	52	20	25	-
NT30-SL25-80	82	65	25	24	25
NT40-SL20-63	63	52	20	25	-
NT40-SL25-80	80	65	25	24	25
NT40-SL32-80	80	72	32	24	28
NT50-SL25-80	80	65	25	24	25
NT50-SL32-80	80	72	32	24	28
NT50-SL40-100	100	90	40	30	32
NT50-SL42-100	100	90	42	30	32

NT 混合插入式铣刀杆 NT Combine Shell End Mill Arbors

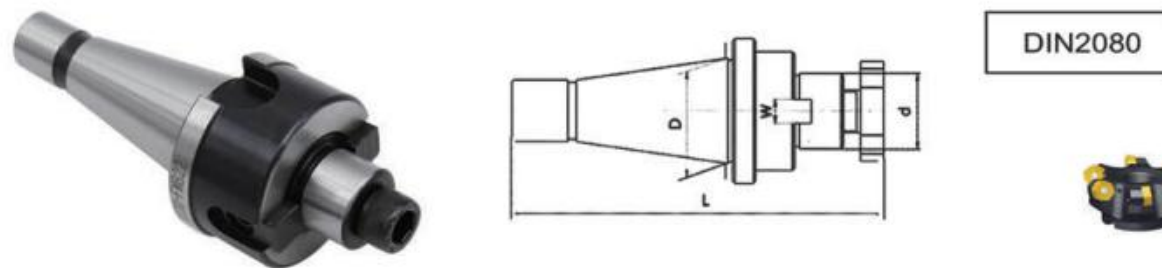
OLICNC®



Model	Shank	d	L	Wt.
NT30-13	ISO30	13	120	0.608
NT30-16	ISO30	16	131	0.746
NT30-22	ISO30	22	132	1.038
NT30-27	ISO30	27	135	1.474
NT30-32	ISO30	32	151	2.101
NT40-16	ISO40	16	168	1.3
NT40-22	ISO40	22	171	2.042
NT40-27	ISO40	27	174	2.69
NT40-32	ISO40	32	178	2.679

NT 套式铣刀杆 NT Shell End Mill Arbors

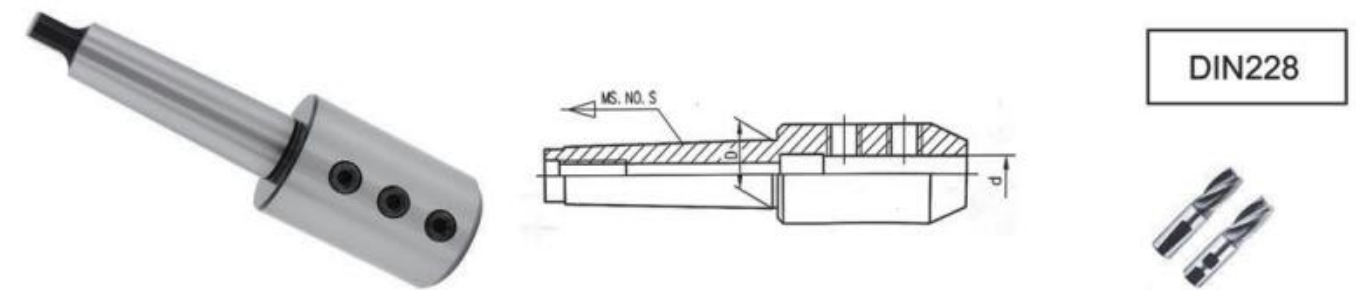
OLICNC®



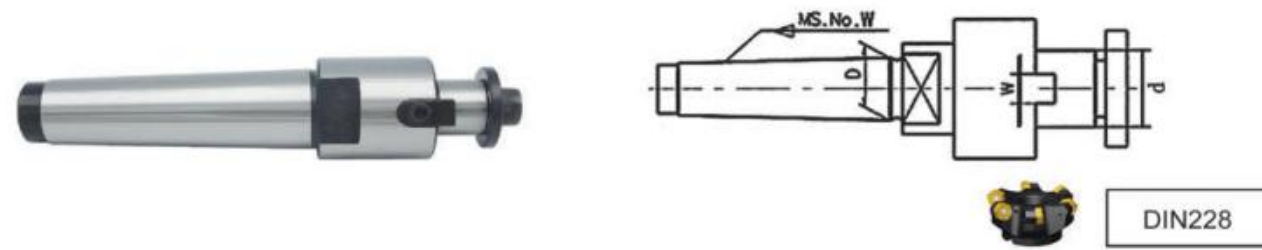
Model	D	d	W	L
NT30-FMB22	31.75	22	10	129
NT30-FMB27		27	12	134
NT40-FMB22	44.45	22	10	156
NT40-FMB27		27	12	159
NT40-FMB32		32	14	178
NT50-FMB22	69.85	22	10	208
NT50-FMB27		27	12	211
NT50-FMB32		32	14	215
NT50-FMB40		40	16	219

MT 侧固式铣刀杆 MT Side Lock End Mill Arbors

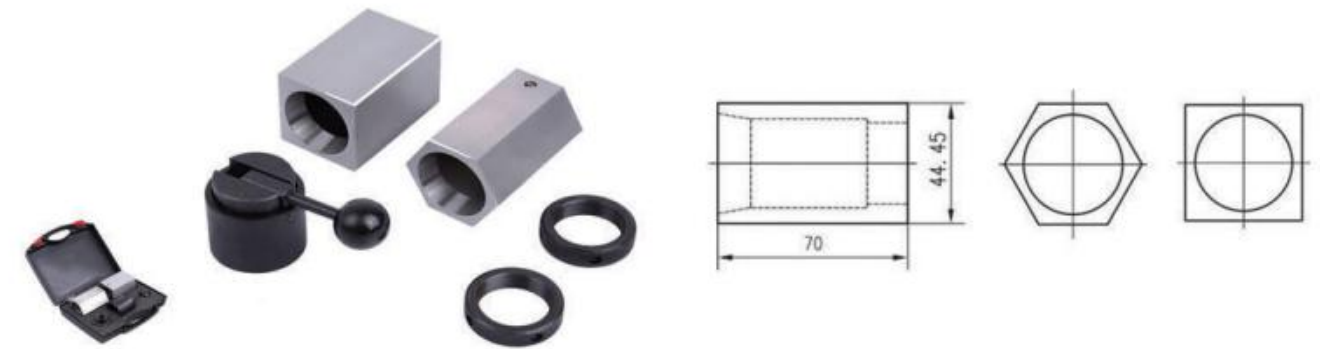
OLICNC®



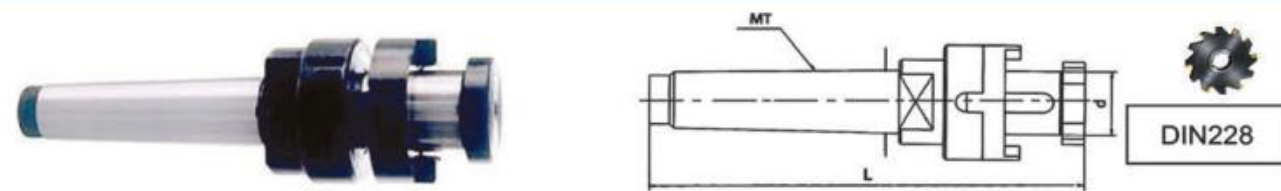
Model	D	夹头规格		
		单头, 双头	单夹头(Inch)	双夹头(Inch)
MT2-20	17.780	4-20	3/16" -3/4"	3/8" -3/4"
MT3-25	23.825	4-25	3/16" -1"	3/8" -1"
MT4-40	31.267	4-40	3/16" -1-1/2"	3/8" -1-1/2"
MT5-63	44.399	4-63	3/16" -1-1/2"	3/8" -1-1/2"



Model	D	d	W
MT3-22	23.825	22	10
MT3-27		27	12
MT3-32		32	14
MT3-40		40	16
MT4-22	31.267	22	10
MT4-27		27	12
MT4-32		32	14
MT4-40		40	16
MT4-50		50	18



主要技术参数 Main Technical Parameter	外形尺寸 Outer size(in)
夹头四方套 Square for 5C collets	1-3/4×1-3/4×2-3/4
夹头六方套 Hex for 5C collets	1-3/4×1-3/4×1-3/4×2-3/4
快速夹紧手柄 Quick acting lever collet closer	1-11/16×4
重量 Wt(kg)	1.41kg



Model	MS.NO	d	L	Wt.
MT3-27	MT3	27	160	0.725
MT3-32	MT3	32	169	0.975
MT4-22	MT4	22	184	0.969
MT4-27	MT4	27	187	1.083
MT4-32	MT4	32	199	1.395
MT4-40	MT4	40	203	1.746
MT5-22	MT5	22	226	2.137
MT5-27	MT5	27	229	2.294
MT5-32	MT5	32	233	2.496
MT5-40	MT5	40	237	2.862
MT5-50	MT5	50	242	2.536



Model	Taper Standard	FIG
BT30	MAS403-BT	1
BT40	MAS403-BT	1
BT50	MAS403-BT	1
HSK63A	DIN69893	2
HSK100A	DIN69893	2

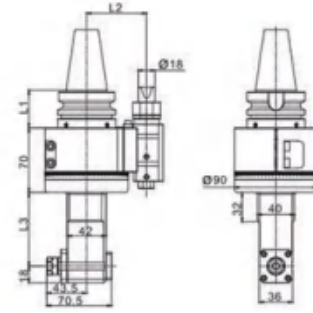
数控角度头 CNC Angle Head

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数控角度头 CNC Angle Head

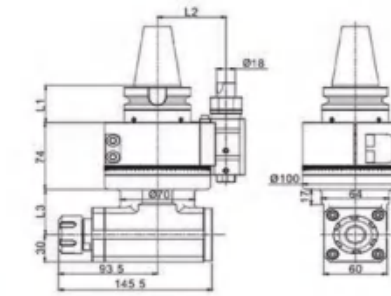
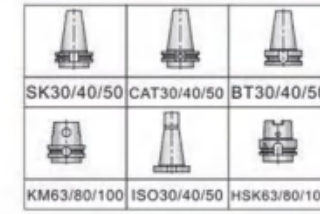
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可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	Output	L1	L2	L3	power	Maximum speed	Maximum torque	Reduction ratio
AG90-ER11-80	ER11	41/48	65/80	80	1KW	4500RPM	6NM	1 : 1
AG90-ER11-140	ER11	41/48	65/80	140	1KW	4500RPM	6NM	1 : 1
AG90-ER11-200	ER11	41/48	65/80	200	1KW	4500RPM	6NM	1 : 1

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	Output	L1	L2	L3	power	Maximum speed	Maximum torque	Reduction ratio
AG90-ER25-50	ER25	41/48	65/80	50	3KW	4000RPM	32NM	1 : 1
AG90-ER25-110	ER25	41/48	65/80	110	3KW	4000RPM	32NM	1 : 1
AG90-ER25-170	ER25	41/48	65/80	170	3KW	4000RPM	32NM	1 : 1

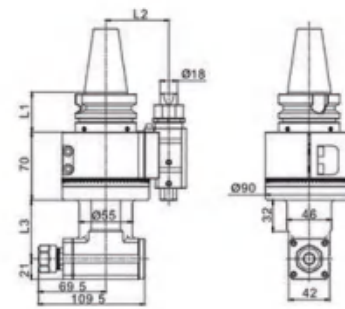
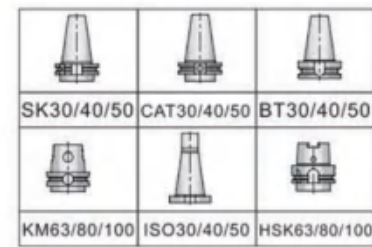
数控角度头 CNC Angle Head

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数控角度头 CNC Angle Head

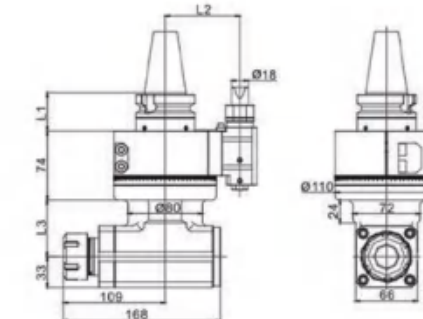
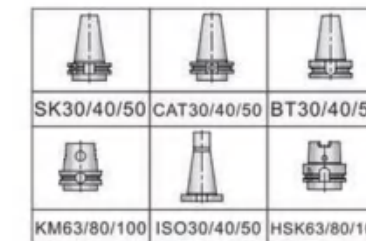
OLICNC®

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	Output	L1	L2	L3	power	Maximum speed	Maximum torque	Reduction ratio
AG90-ER16-60	ER16	41/48	65/80	60	1.5KW	4500RPM	12NM	1 : 1
AG90-ER16-120	ER16	41/48	65/80	120	1.5KW	4500RPM	12NM	1 : 1
AG90-ER16-180	ER16	41/48	65/80	180	1.5KW	4500RPM	12NM	1 : 1

可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	Output	L1	L2	L3	power	Maximum speed	Maximum torque	Reduction ratio
AG90-ER32-60	ER32	41/48	80/110	60	4KW	3500RPM	40NM	1 : 1
AG90-ER32-130	ER32	41/48	80/110	130	4KW	3500RPM	40NM	1 : 1
AG90-ER32-200	ER32	41/48	80/110	200	4KW	3500RPM	40NM	1 : 1

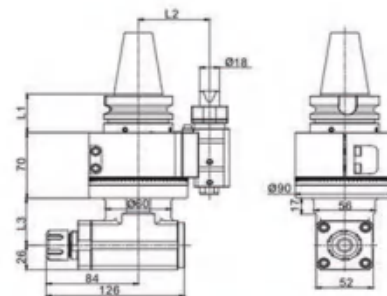
数控角度头 CNC Angle Head

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数控角度头 CNC Angle Head

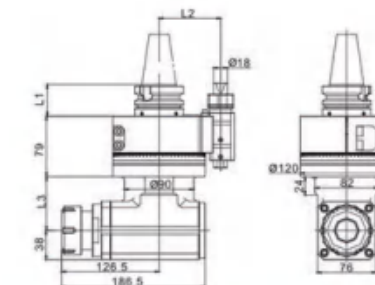
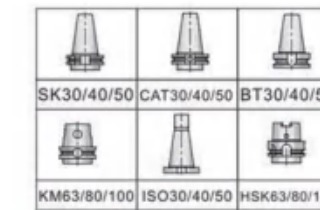
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可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	Output	L1	L2	L3	power	Maximum speed	Maximum torque	Reduction ratio
AG90-ER20-50	ER20	41/48	65/80	50	2KW	4000RPM	16NM	1 : 1
AG90-ER20-110	ER20	41/48	65/80	110	2KW	4000RPM	16NM	1 : 1
AG90-ER20-170	ER20	41/48	65/80	170	2KW	4000RPM	16NM	1 : 1

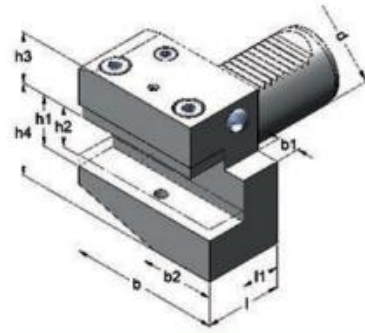
可选驱动刀柄型号: BT、NT、CAT、DAT、HSK



Model	Output	L1	L2	L3	power	Maximum speed	Maximum torque	Reduction ratio
AG90-ER40-70	ER32	41/48	80/110	70	6KW	3000RPM	75NM	1 : 1
AG90-ER40-150	ER32	41/48	80/110	150	6KW	3000RPM	75NM	1 : 1
AG90-ER40-230	ER32	41/48	80/110	230	6KW	3000RPM	75NM	1 : 1

径向外径右手型固定刀座 (B1型式)
Radial outer diameter right-hand fixed tool holder (B1 type)

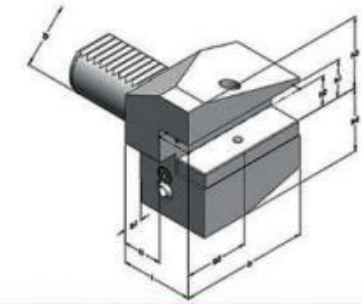
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Model	d	b	b1	b2	h1	h2	h3	h4	l	l1	Ref.No
THA-B1-3020	30	70	10	35	20	16	28	38	40	22	B1-30*20*40
THA-B1-4025	40	85	12.5	42.5	25	20	32.5	48	44	22	B1-40*25*44
THA-B1-5032	50	100	16	50	32	25	35	60	55	30	B1-50*32*55

径向外径左手型固定刀座 (B4型式)
Radial outer diameter left-hand fixed tool holder (B4 type)

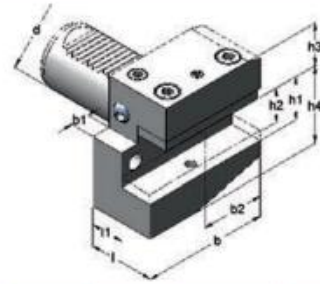
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Model	d	b	b1	b2	h1	h2	h3	h4	l	l1	Ref.No
THA-B4-3020	30	70	10	35	20	16	38	28	40	22	B4-30*20*40
THA-B4-4025	40	85	12.5	42.5	25	20	48	32.5	44	22	B4-40*25*44
THA-B4-5032	50	100	16	50	32	25	60	38	55	30	B4-50*32*55

径向外径左手型固定刀座 (B2型式)
Radial outer diameter left-hand fixed tool holder (B2 type)

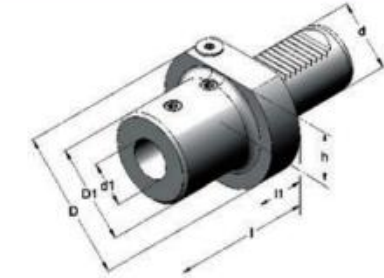
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Model	d	b	b1	b2	h1	h2	h3	h4	l	l1	Ref.No
THA-B2-3020	30	70	10	35	20	16	28	38	40	22	B2-30*20*40
THA-B2-4025	40	85	12.5	42.5	25	20	32.5	48	44	22	B2-40*25*44
THA-B2-5032	50	100	16	50	32	25	35	60	55	30	B2-50*32*55

内径U Drill 固定刀座 (E1型式)
Internal diameter U Drill fixed tool holder (E1 type)

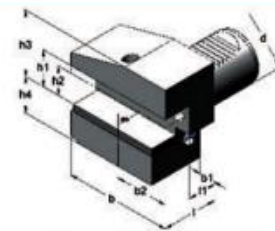
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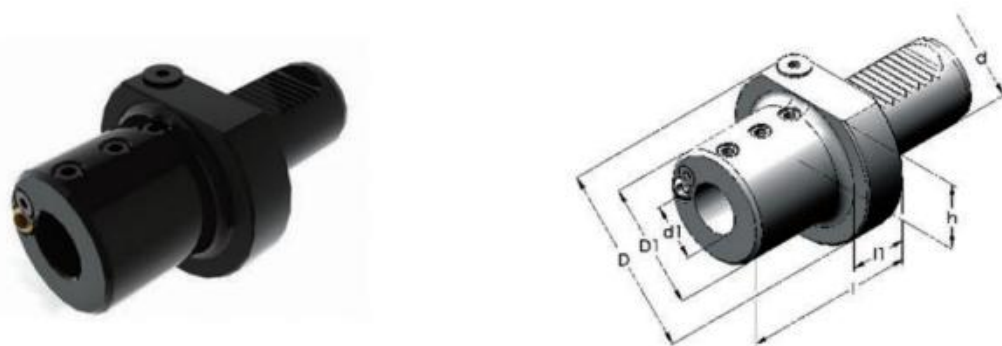
Model	d	d1	D	D1	l	h	l1	Ref.No.
THB-E1-3016	30	16	68	34	66	28	22	E1-30*16
THB-E1-3020	30	20	68	40	66	28	22	E1-30*20
THB-E1-3025	30	25	68	45	71	28	22	E1-30*25
THB-E1-3032	30	32	68	52	75	28	22	E1-30*32
THB-E1-4016	40	16	83	34	66	32.5	22	E1-40*16
THB-E1-4020	40	20	83	40	66	32.5	22	E1-40*20
THB-E1-4025	40	25	83	45	71	32.5	22	E1-40*25
THB-E1-4032	40	32	83	52	75	32.5	22	E1-40*32
THB-E1-4040	40	40	83	60	85	32.5	22	E1-40*40
THB-E1-5020	50	20	98	40	66	35	30	E1-50*20
THB-E1-5025	50	25	98	45	71	35	30	E1-50*25
THB-E1-5032	50	32	98	52	75	35	30	E1-50*32
THB-E1-5040	50	40	98	60	85	35	30	E1-50*40
THB-E1-5050	50	50	98	70	95	35	30	E1-50*50

径向外径右手型固定刀座 (B3型式)
Radial outer diameter right-hand fixed tool holder (B3 type)

OLICNC®

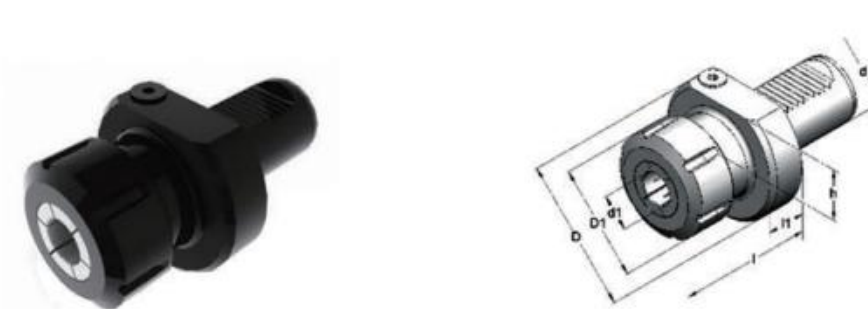


Model	d	b	b1	b2	h1	h2	h3	h4	l	l1	Ref.No
THA-B3-3020	30	70	10	35	20	16	38	40	40	22	B3-30*20*40
THA-B3-4025	40	85	12.5	42.5	25	20	48	44	44	22	B3-40*25*44
THA-B3-5032	50	100	16	50	32	25	60	55	55	30	B3-50*32*55



Model	d	d1	D	D1	h	l	l1	Ref.No.
THB-E2-3008	30	8	68	55	28	60	22	E2-30*08
THB-E2-3010	30	10	68	55	28	60	22	E2-30*10
THB-E2-3012	30	12	68	55	28	60	22	E2-30*12
THB-E2-3016	30	16	68	55	28	60	22	E2-30*16
THB-E2-3020	30	20	68	55	28	60	22	E2-30*20
THB-E2-3025	30	25	68	55	28	60	22	E2-30*25
THB-E2-3032	30	32	68	-	28	75	-	E2-30*32
THB-E2-4008	40	8	83	55	32.5	75	22	E2-40*08
THB-E2-4010	40	10	83	55	32.5	75	22	E2-40*10
THB-E2-4012	40	12	83	55	32.5	75	22	E2-40*12
THB-E2-4016	40	16	83	55	32.5	75	22	E2-40*16
THB-E2-4020	40	20	83	55	32.5	75	22	E2-40*20
THB-E2-4025	40	25	83	55	32.5	75	22	E2-40*25
THB-E2-4032	40	32	83	-	32.5	75	-	E2-40*32
THB-E2-4040	40	40	83	-	32.5	75	-	E2-40*40
THB-E2-5020	50	20	98	68	35	90	30	E2-50*20
THB-E2-5025	50	25	98	68	35	90	30	E2-50*25
THB-E2-5032	50	32	98	68	35	90	30	E2-50*32
THB-E2-5040	50	40	98	-	35	90	-	E2-50*40
THB-E2-5050	50	50	98	-	35	100	-	E2-50*50

• 其它型号可按订单生产 Other models can be produced to order



Model	d	d1	D	D1	h	l	l1	ER	Ref.No.
THB-E4-3032	30	2-20	68	50	28	75	22	32	E4-30*32
THB-E4-3040	30	3-26	68	63	28	75	22	40	E4-30*40
THB-E4-4032	40	2-20	83	50	32.5	75	22	32	E4-40*32
THB-E4-4040	40	3-26	83	63	32.5	75	22	40	E4-40*40
THB-E4-5040	50	3-26	98	63	35	90	30	40	E4-50*40
THB-E4-5050	50	10-34	98	78	35	90	30	50	E4-50*50

主轴拉力计 Spindle Rally Tester



机械油压式设计
Mechanical hydraulic design

压力设计: 1Kg/m²=10Kg=100N
Pressure design: 1Kg/m²=10Kg=100N

主轴拉力计是一款用于测量拉杆拉力大小的仪器，拉杆拉力对于评估机器质量是非常重要的，检测主轴拉力是否消耗，对于设备主轴稳定的一种简单方便的液压检测仪器。

The spindle tension meter is an instrument used to measure the tension of the tie rod. The tension of the railing is very important to evaluate the quality of the machine. It is a simple and convenient hydraulic testing instrument for the stability of the equipment spindle to detect whether the tension of the spindle is

Model	测量范围 Measuring range	参考拉力范围 Reference tension	包装重量 weight
BT30	0-50kg/cm ²	200-500	4.3
BT40	0-150kg/cm ²	500-1000	4.5
BT50	0-350kg/cm ²	1500-2200	6.8



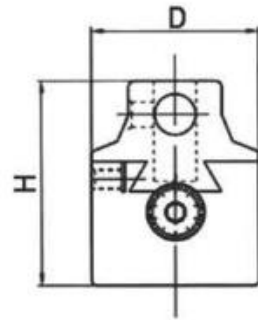
F1-25mm(4")



F1-18mm(3")



F1-12mm(2")



Model	D	H	Max Offset	Boring Bar Dia.	Min Graduation	Dia. of Boring
F1-2"	2"	2-7/16"	5/8"	1/2"	0.01mm	3/8" -5"
F1-3"	3"	3-5/32"	1"	3/4"	0.01mm	1/2" -9"
F1-4"	4"	3-1/2"	1-5/8"	1"	0.01mm	8/5" -25"
F1-12mm	50	63	16mm	12mm	0.01mm	10-125mm
F1-18mm	75	80	25mm	18mm	0.01mm	12-225mm
F1-25mm	100	88	41mm	25mm	0.01mm	15-320mm

F1型镗刀 F1 Rough Boring Cutters



9PCS for 12mm



12PCS for 18mm

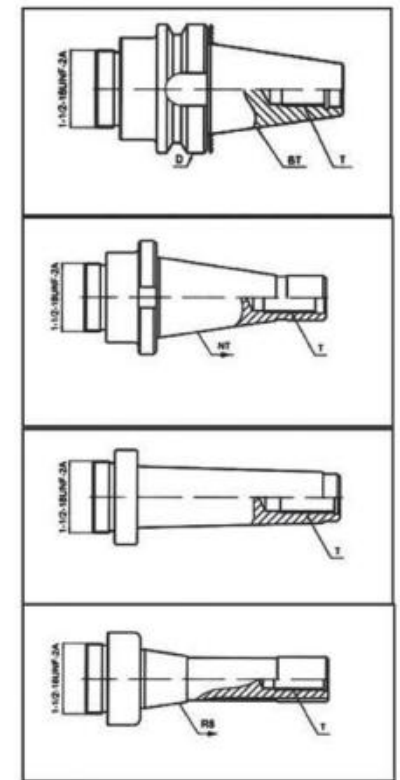


6PCS for 25mm

Dia. of Boring Holes	Metric		Inch		Qty. of Boring Cutters	Bar Thread
	Dia. of Boring Heads	Boring Capacity	Dia. of Boring Heads	Dia. of Boring Heads		
F1-12mm	50mm	10-125mm	F1-2"	1/2"	9PCS	7/8-20 1-1/2-18
F1-18mm	75mm	12-225mm	F1-3"	3/4"	12PCS	1-1/2-18
F1-25mm	100mm	15-320mm	F1-4"	1"	6PCS	1-1/2-18

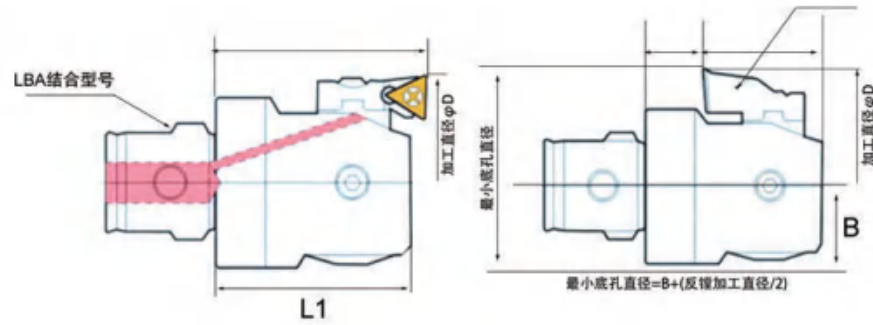


Model	T	L	Wt.
BT40	M16-2.0P	102	1.24
BT50	M24-3.0P	134	3.97
NT30	1/2-UNC	102	0.6
NT30	M12-1.75P	102	0.6
NT40	5/8-UNC	135	1.2
NT40	M16-2.0P	135	1.2
NT50	1" -8UNC	168	3.14
NT50	M24-3.0P	168	3.14
MT2	3/8-16UNC	93	0.4
MT2	M10-1.5P	108	0.4
MT3	3/8-16UNC	110	0.44
MT3	1/2-13UNC	110	0.44
MT3	1/2-12UNC	110	0.44
MT3	M12-1.75P	128	0.44
MT4	5/8-11UNC	133	0.95
MT4	M16-2.0P	154	0.95
MT5	1" -8UNC	160	1.7
MT5	M24-3.0P	185	1.7
R8	7/16-20UNF	132.5	0.6



*Please state the detailed size when ordering; e.g.: F1- R8-18mm



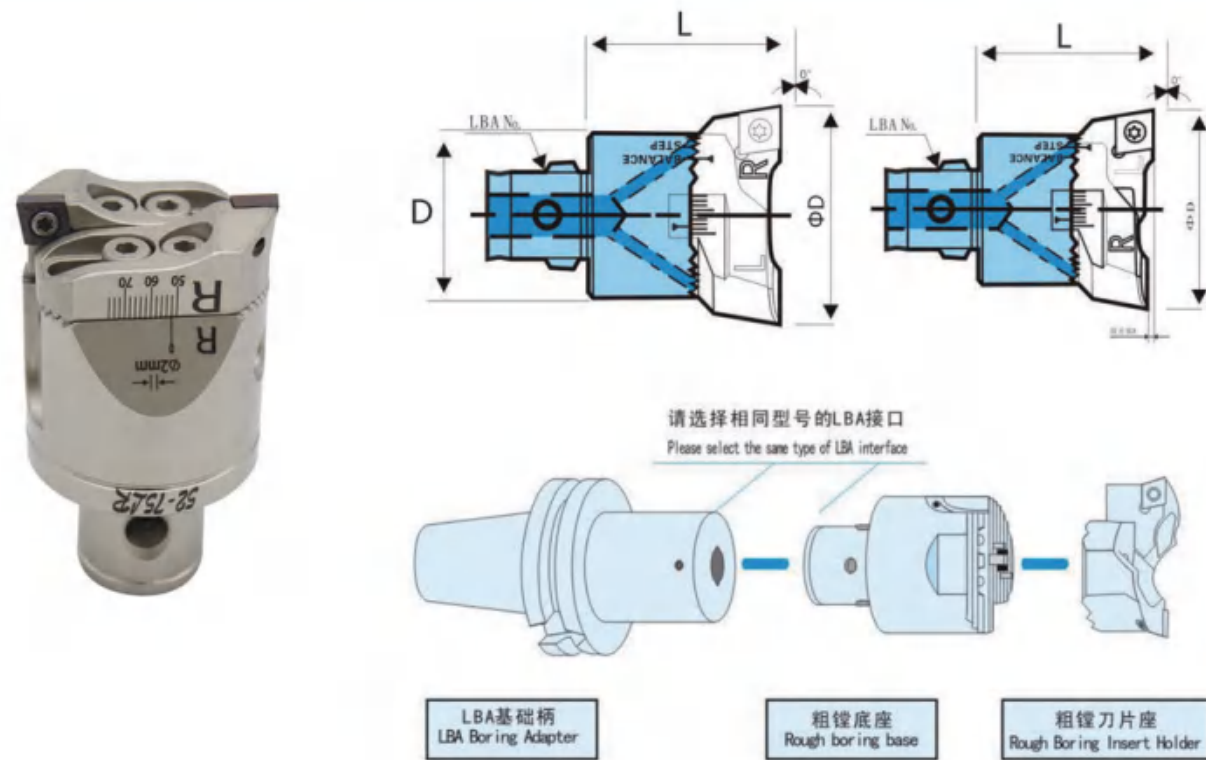


Specification	可选配刀片座延长镗孔范围 Optional insert holder to extend boring range	正镗 Boring			反镗 Back boring				刀柄接口 Interface	刀片型号/螺丝/扳手 Insert/Screw/Wrench	KG			
		镗孔范围 Boring range	L	L1	镗孔范围 Boring range	L2	L3	B						
CBA 16 (16-20)	本体1号刀片座ENH1-1 No.1 insert holder ENH1-1	16-20mm	60	57	/	/	/	/	C16-150L	TPG*08020*L M2.0/T6	0.2			
CBA 20 (20-36)	No.1 insert holder ENH1-1	20-26mm	35	32	30-31mm	1.5	1.9	10	LBA1		TPG*11020*L M2.5/T8	0.7		
	No.2 insert holder ENH1-2	25-31mm												
	No.3 insert holder ENH1-3	30-36mm												
CBA 25 (25-47)	No.1 insert holder ENH2-1	25-33mm	40	37	/	11.5	2.1	12.5	LBA2			TPG*11020*L M2.5/T8	0.12	
	No.2 insert holder ENH2-2	32-40mm			36-40mm									
	No.3 insert holder ENH2-3	39-47mm			39-47mm									
CBA 32 (32-60)	No.1 insert holder ENH3-1	32-42mm	40	37	/	10	25	16	LBA3				TPG*11020*L M2.5/T8	0.21
	No.2 insert holder ENH3-2	41-51mm			46-51mm									
	No.3 insert holder ENH3-3	50-60mm			50-60mm									
CBA 40 (40-79)	No.1 insert holder ENH4-1	40-55mm	50	47	/	14	29	20	LBA4	TPG*11020*L M2.5/T8				0.4
	No.2 insert holder ENH4-2	51-66mm			53-63mm									
	No.3 insert holder ENH4-3	64-79mm			64-79mm									
CBA 52 (52-112)	No.1 insert holder ENH5-1	52-75mm	60	56	62-70mm	19	34	25.5	LBA5		TPG*11020*L M2.5/T8			1.1
	No.2 insert holder ENH5-2	70-93mm			65-82mm									
	No.3 insert holder ENH5-3	89-112mm			78-95mm									
CBA 68 (68-150)	No.1 insert holder ENH6-1	68-100mm	70	66	80-100mm	22	45.2	32.5	LBA6			TPG*11020*L M2.5/T8		1.74
	No.2 insert holder ENH6-2	94-125mm			94-126mm									
	No.3 insert holder ENH6-3	118-150mm			118-150mm									
CBA 100 (100-203)	No.1 insert holder ENH6-1	100-153mm	70	66	112-153mm	22	45.2	45.5	LBA6				TPG*11020*L M2.5/T8	2.46
	No.2 insert holder ENH6-2	126-179mm			126-179mm									
	No.3 insert holder ENH6-3	150-203mm			150-203mm									
CBA 150 (150-210)	No.1 insert holder ENH6-1	150-210mm	70	66	150-200mm	38	45.2	45.5	LBA6/LST	TPG*11020*L M2.5/T8				2.96
	No.2 insert holder ENH6-2	176-236mm			176-226mm									
	No.3 insert holder ENH6-3	200-260mm			200-250mm									



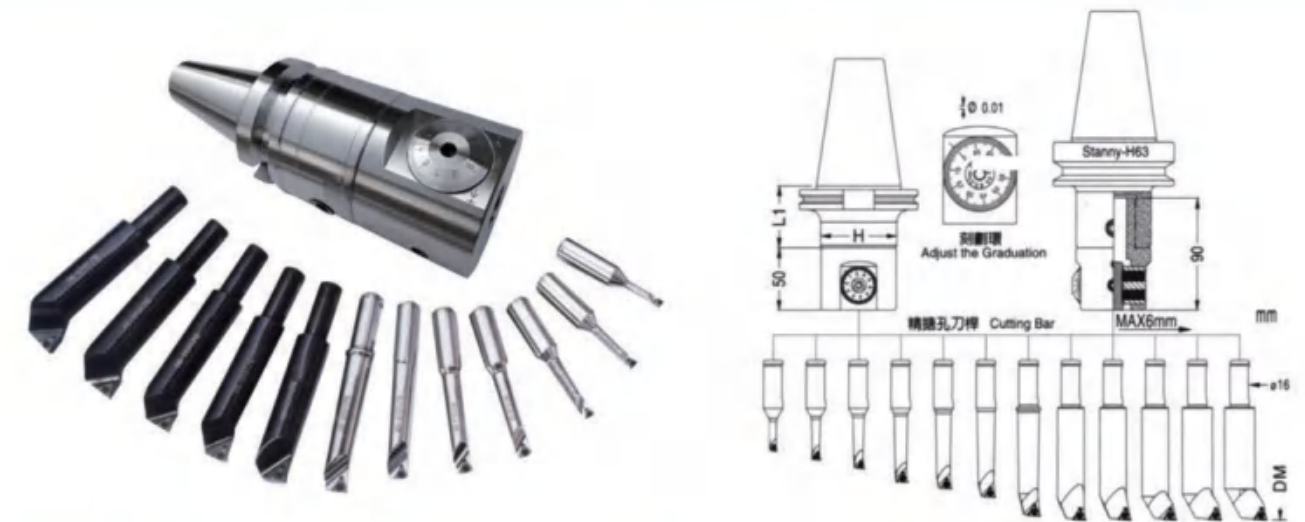
镗头型号 Specification	形状图 Figure	对应镗头 Boring head	镗孔范围 Boring range
刀片座ENH1-1 Insert holder Enh1-1		CBA20	20-26mm
刀片座ENH1-2 Insert holder Enh1-2			25-31mm
刀片座ENH1-3 Insert holder Enh1-3			30-36mm
刀片座ENH2-1 Insert holder Enh2-1		CBA25	25-33mm
刀片座ENH2-2 Insert holder Enh2-2			32-40mm
刀片座ENH2-3 Insert holder Enh2-3			39-47mm
刀片座ENH3-1 Insert holder Enh3-1		CBA32	32-42mm
刀片座ENH3-2 Insert holder Enh3-2			41-51mm
刀片座ENH3-3 Insert holder Enh3-3			50-60mm

镗头型号 Specification	形状图 Figure	对应镗头 Boring head	镗孔范围 Boring range
刀片座ENH4-1 Insert holder Enh4-1		CBA40	40-55mm
刀片座ENH4-2 Insert holder Enh4-2			51-66mm
刀片座ENH4-3 Insert holder Enh4-3			64-79mm
刀片座ENH5-1 Insert holder Enh5-1		CBA52	52-75mm
刀片座ENH5-2 Insert holder Enh5-2			70-93mm
刀片座ENH5-3 Insert holder Enh5-3			89-112mm
刀片座ENH6-1 Insert holder Enh6-1		CBA68	68-100mm
刀片座ENH6-2 Insert holder Enh6-2			94-125mm
刀片座ENH6-3 Insert holder Enh6-3			118-150mm



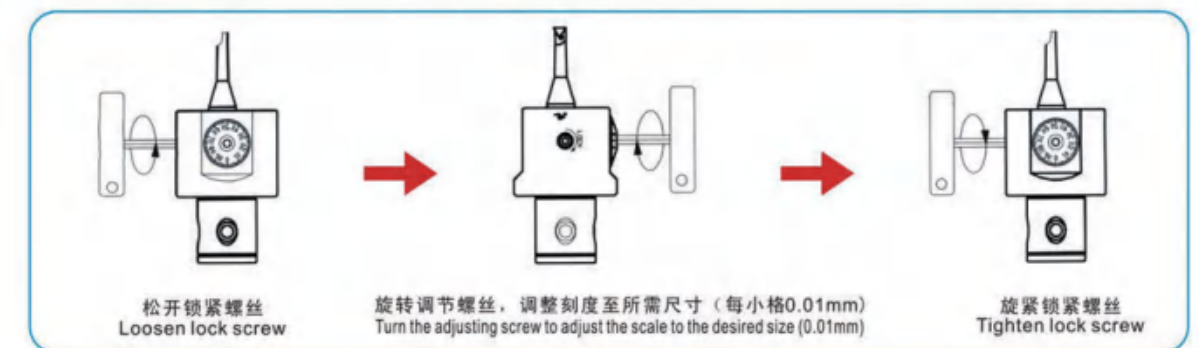
型号 Model	结合型号 Boring Adapter	镗孔范围 Boring range	L	φD1	刀片 Insert	重量 Weight
RBA19-25RL-C	LBA1	19-25	30	18	CCMT060204	0.15
RBA25-35RL-C	LBA2	25-35	35	24	CCMT060204	0.3
RBA32-45RL-C	LBA3	32-45	40	31	CCMT060204	0.5
RBA40-55RL-C	LBA4	40-55	50	39	CCMT09T304	1
RBA52-75RL-C	LBA5	52-75	60	50	CCMT09T304	2.5
RBA68-110RL-C	LBA6	68-110	70	66	CCMT120408	3.1
RBA110-160RL-C	BST Series	110-160	95	100	CCMT120408	4.2
RBA160-204RL-C		160-204		130	CCMT120408	5.3

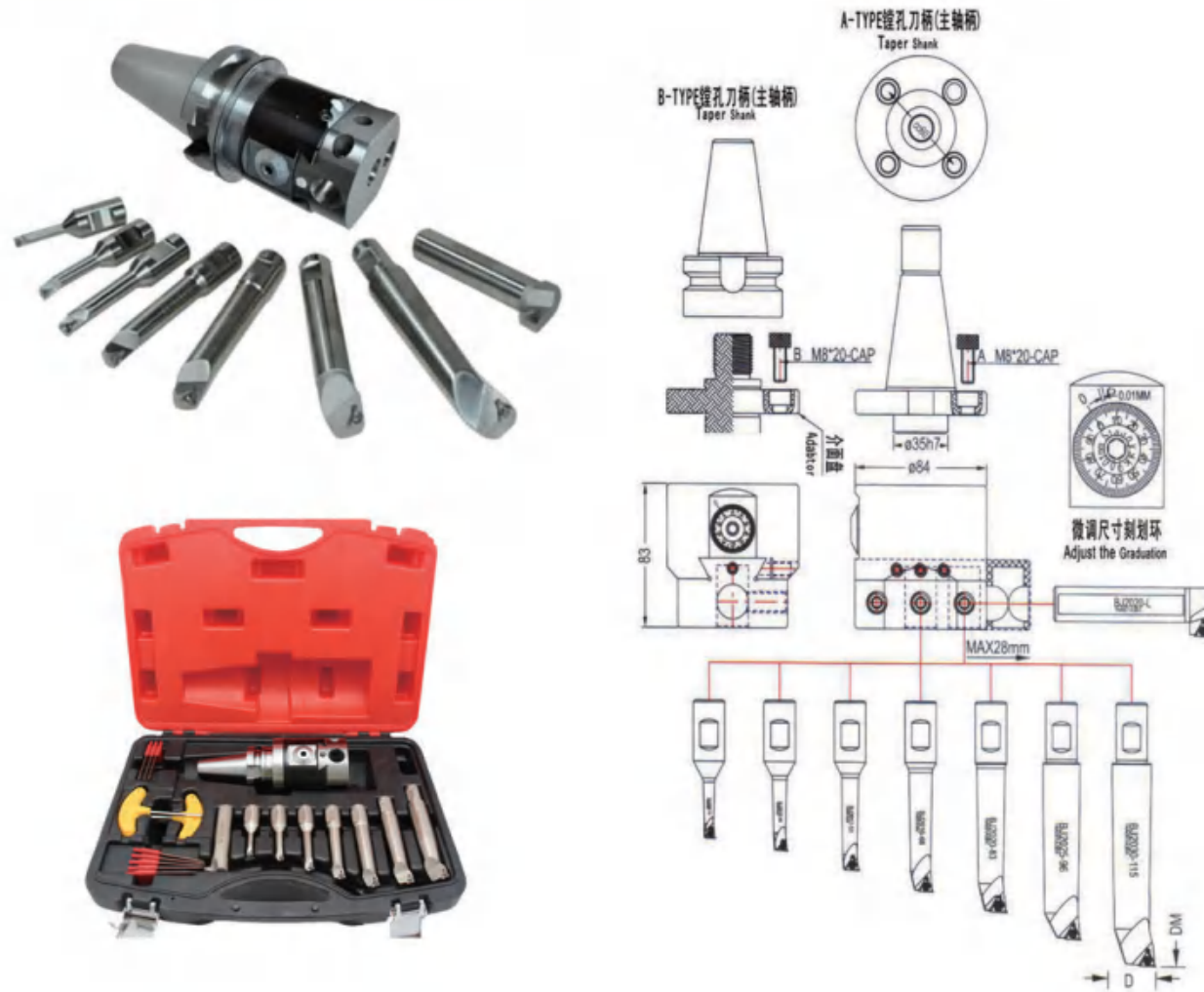
- 使用单刃镗孔, 双刃镗孔及高低阶镗孔。镗孔范围: LBA分体式φ19-φ110, BST分体式φ110-φ204。
- 新型刀刃滑座设计, 刀被补强。加工时滑座承受的两个作用力互相抵消, 产生最大刚性和切削力。适用各形态的镗孔作业。
- 可依照不同加工需求, 轻易调整镗刀, 作少量多样的加工。加工深度可配合延长杆至所需长度。
- 精准的侧边刻度, 协助使用者轻易调整到所需的孔径范围。
- 适用在各型切削中心机或镗床配合使用, 并可配合各种厂牌规格相同的刀片。节省刀具研磨时间并大幅度增加镗孔效率。
- 高低断差设计, 平刃和高刃均可采用。
- 直径φ100以上大孔径镗刀, 使用直接组件结构简单钢性强。
- The head is suitable for single bit boring, twin-bit boring and step boring. Boring range: φ19-110mm for LBA
- Serrated design of insert holder can produce the highest rigidity and cutting force and is suitable for various kinds of boring
- Boring head can be easily adjusted to different boring needs for machining on demand. Boring depth can be extended by extension bar.
- Clear side division provides a convenient adjustment without using a tool pre-setter.
- Most Suitable for boring on various machine centers or boring mill, Universal design accepts inserts of any brands which will reduce tool grinding time and greatly improve boring and step boring.
- Patented step boring design, suitable for both level boring efficiency.
- Boring tools of more than φ100mm adopt the modular design and are characterized by simplicity and high rigidity.



型号Cat.No	镗孔范围Boring range	调整精度 Adjustment precision	调整行程 Stroke	重量 Weight
SBJ16	φ6-φ51	φ0.01mm/格 φ0.01mm/scale division	6.0mm	1.2

镗孔刀杆 Boring	范围 Range	深度 Depth	镗刀片 Insert	螺丝 Screw	扳手 Wrench	重量 Weight
BJ1606-24	6-9	24	WBGTO601..L	SB-1STR-M2	T6	0.08
BJ1608-32	8-11	32	TBG0601..L	SB-1STR-M2	T6	0.08
BJ1610-40	10-13	40				0.10
BJ1612-53	12-15	53	TPGH0902..L	SB2TR-M2.5	T8	0.10
BJ1614-60	14-17	60				0.12
BJ1616-68	16-21	68				0.20
BJ1620-83	20-26	83	TPGH1103..L	SB-3TR-M3	T8	0.30
BJ1625-90	25-31	90				0.32
BJ1630-90	30-36	90				0.32
BJ1635-90	35-41	90				0.38
BJ1640-90	40-46	90				0.38
BJ1645-90	45-51	90				0.45
BJ1616-150 (加长)	16-21	90				0.45
BJ1620-150 (加长)	20-26	150				0.45
BJ1625-150 (加长)	25-31	150				0.45
BJ1630-150 (加长)	30-36	150				0.45

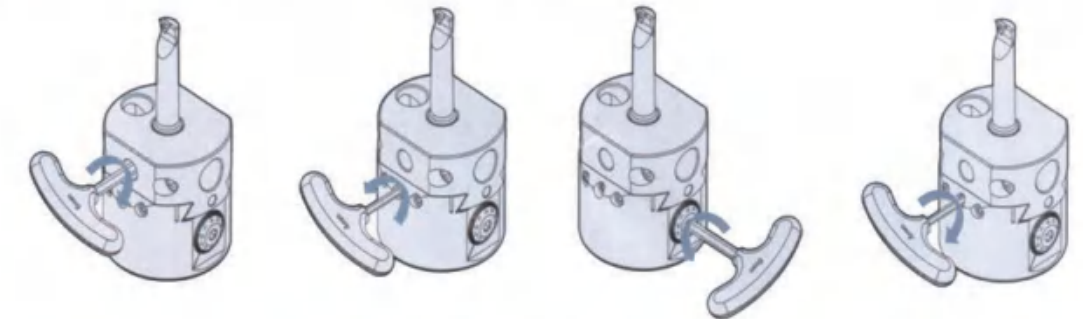




使用步骤/Operating Instructions

- 步骤一：选择加工范围内刀杆（图），置于镗头安装孔内（A图 B图 C图），使刀杆端面平面对准固定螺丝紧固方向，并确认刀尖处于镗头微调下方向；
 步骤二：松开微调锁紧螺钉（图）逆时针旋转；
 步骤三：调整微调旋钮（图）逆时针使加工尺寸增大，反之减少。调整尺寸时，请按同方向微调，以确保微调精度。精度为每小格0.01mm。
 步骤四：微调至所需尺寸后，以适当扭力锁紧微调锁紧螺钉（图）顺时针旋转。
- Step1: Hold right boring bar (See figure 6) in right hole (See pic A,B,C). Make sure weldon part of bar is to the position of lock screw and cutting edge of boring bar is to the position of adjusting panel.
 Step2: Loosen adjusting screw anti-clockwise .
 Step3: Enlarge the boring diameter by adjusting on the adjusting panel (See figure 2) anti-clockwise, while adjusting clockwise is to reduce the boring range.
 Step4: Adjust till the boring diameter required and lock the adjusting screw properly.

操作示意图 Instruction



步骤一Step1

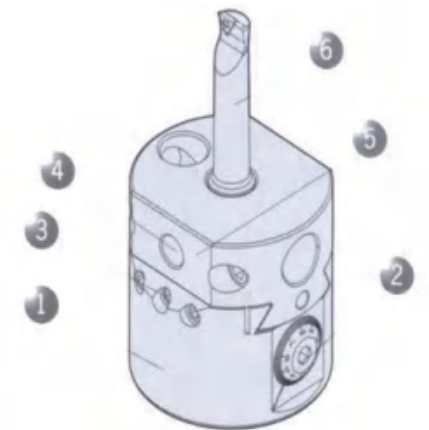
步骤二Step2

步骤三Step3

步骤四Step4

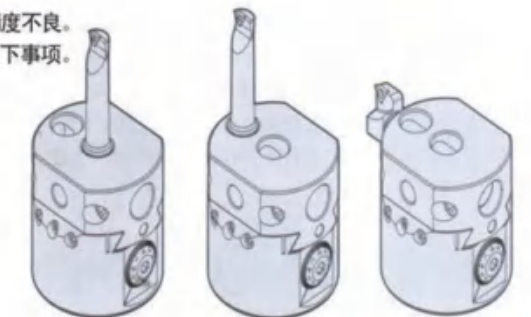
产品结构/Manuals

- 1 镗头本体 Tool body
- 2 微调旋钮 Adjusting Panel
- 3 微调锁紧螺钉 Adjusting screw
- 4 镗刀杆锁紧螺钉 Locking screw
- 5 移动滑块 Part
- 6 镗刀杆 Boring bar



使用者注意事项/Notices Of The User

1. 请在加工范围内（Φ8-Φ280mm）使用。
 2. 调整微调旋钮前必须松开微调锁紧螺钉，否则会导致微调机构损坏。
 3. 请使用专用扳手固定微调锁紧螺钉，扭力要适当，过紧会导致芯轴移位。过松会造成精度不良。
 4. 本产品为精密机构，当阻力过大微调刻度盘无法旋转时，请立刻停止调整，并确认以下事项。
 A. 微调锁紧螺钉是否松开；
 B. 是否超出调整范围；
 C. 当过度旋转调整刻度盘会微调导致精密机构损坏。
1. Please use this tool within work range (Φ6-Φ50mm).
 2. Please loosen the adjusting screw before adjusting.
 3. Please fasten the adjusting knob by means of special wrench properly.
 4. Please stop the adjustment when it is faced with a strong resistance, Or it is not able to go on. And make sure.
 A. If the locking screws is unlocked;
 B. If the adjustment is within the suggested work range;
 C. Over adjustment will bring damage to the tool irreversibly.



A

B

C

八只套装 Eightsuit NBJ20-8pcs	镗刀型号Boring bar type		
	NBJ2010-40	NBJ2016-68	NBJ20-20L
NBJ2008-32	NBJ2020-83	NBJ2030-115	

型号 Model	镗孔范围(mm) Boring range	组合系统-主轴柄规格 Spinde models	内附零件 Items	重量 (kg) Weight
BT40-NBH2084-8pcs	8-280	MAS403-BT40-NBH2084	1.NBH-主轴刀柄 一把 One boring adapter	9.5
BT50-NBH2084-8pcs	8-280	MAS403-BT50-NBH2084		12
NT30-NBH2084-8pcs	8-280	DIN2080 ISO30-NBH2084	2.NBH2084精密 镗刀头一支 One micro boring head NBH2084	8
NT40-NBH2084-8pcs	8-280	DIN2080 ISO40-NBH2084		9.5
NT50-NBH2084-8pcs	8-280	DIN2080 ISO50-NBH2084	3.NBJ20精密镗刀柄 八只 Eight micro boring bars NBJ20	10.8
R8-NBH2084-8pcs	8-280	R8-7/16-20UNF-NBH2084		10.0
SK40-NBH2084-8pcs	8-280	DIN69871A ISO40-NBH2084	4.扳手六只 Six wrenches	9.5
SK50-NBH2084-8pcs	8-280	DIN69871A ISO50-NBH2084		12.0
MT4-NBH2084-8pcs	8-280	DIN228AMT4-NBH2084	8.5	
MT5-NBH2084-8pcs	8-280	DIN228AMT5-NBH2084	9.0	

使用步骤/Operating Instructions

准备工作: 须先确认刀片按照是否匹配, 刀片座紧固螺丝是否锁紧

步骤一: 松开微调锁紧螺钉(逆时针旋转)图

步骤二: 旋转微调刻度盘(图)顺时针旋转使加工直径增大, 逆时针旋转加工直径缩小(刻度盘每一格为直径0.01mm)

步骤三: 调整尺寸加工时, 请按同方向选转结束, 以确保微调精度

步骤四: 以适当力度扭紧微调锁紧螺钉(顺时针旋转)图完成调整

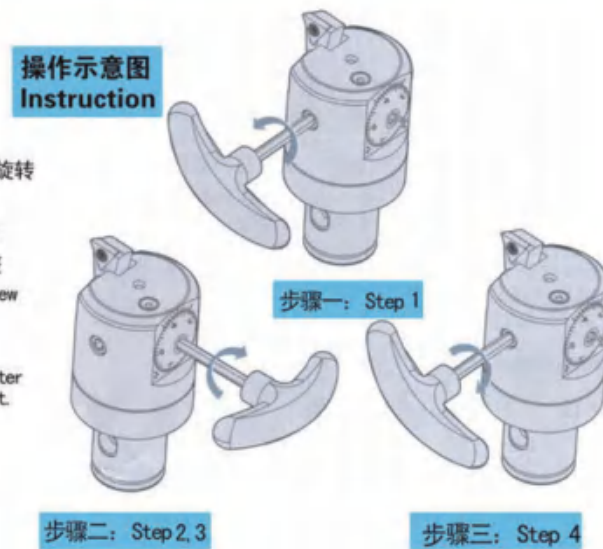
Checking before adjustment: Make sure right inserts mounted and screw for insert holder fastened properly.

Step 1: Unlock the clamping screw (See figure 1) anti-clockwise.

Step 2: Move the insert holder (See figure 2, 3) to the required working diameter according to the reference line marked on the tool and insert holder.

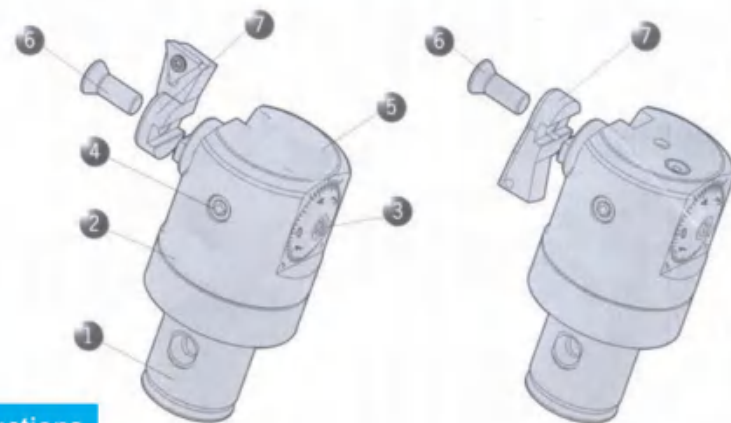
Step 3: Fasten the clamping screws (See figure 4) clockwise.

Step 4: Loosen the locking screw (See figure 1) anti-clockwise.

操作示意图
Instruction

产品结构/Manuals

- 镗头柄部
Connection part
- 镗头本体
Tool body
- 微调刻度盘
Adjusting scales
- 微调锁紧螺钉
Locking screw
- 注油孔
Oil-feed hole
- 刀片座锁紧螺钉
Clamping screw
- 刀片座
Insert holder



使用者注意事项/Operating Instructions

1. 请在调整范围内加工使用。
2. 调整微调刻度盘前, 必须松开微调锁紧螺钉, 否则会对内部精调机构造成损坏。
3. 本品是由调整微调刻度盘带动精密螺杆旋转, 来实现刀片座移动。
在阻力过大或无法旋转时, 请立即停止调整, 并确认以下事项:
A. 微调锁紧螺钉是否松开;
B. 是否超出调整范围。
4. 使用反镗功能时, 主轴必须反转。
5. 用户须注入润滑油(图), 润滑油的注入量以从刻度盘周围渗出为止, 润滑脂的作用不但起到润滑的作用, 还可以清除渗入冷却液和杂质, 为了防止长时间不使用而使润滑油硬化, 请定期转动刻度盘。
6. 请客户不要自行拆开镗头。
1. Use this tool within the suggested boring range.
2. Please loosen the adjusting screw before adjusting.
3. Please stop the adjustment when it is faced with a strong resistance. And make sure:
A. If the locking screws is unlocked;
B. If the adjustment is within the suggested work range;
4. The machine spindle shall run anti-clockwise when the function of back boring is adopted.
5. Lubrication grease shall be injected through the oil-feed hole properly (till some lubrication grease can be found on the face of adjusting panel).
6. Disassembling of the tool without suggestion is not suggested.

使用步骤/Operating Instructions

步骤一: 选择加工范围内刀杆, 至于镗头按照孔内, 使刀杆削平面对准固定螺丝紧固方向, 并确认刀尖处于镗头微调正方向, 扭紧刀杆锁紧螺钉(图)

步骤二: 松开微调锁紧螺钉(图)逆时针旋转。

步骤三: 调整微调旋钮(图)顺时针使加工尺寸增大, 反之减少。调整尺寸时, 请按同方向微调, 以确保微调精度。精度为每一格0.01mm

步骤四: 微调至所需尺寸后, 以适当扭力锁紧微调锁紧螺钉(图)顺时针旋转。

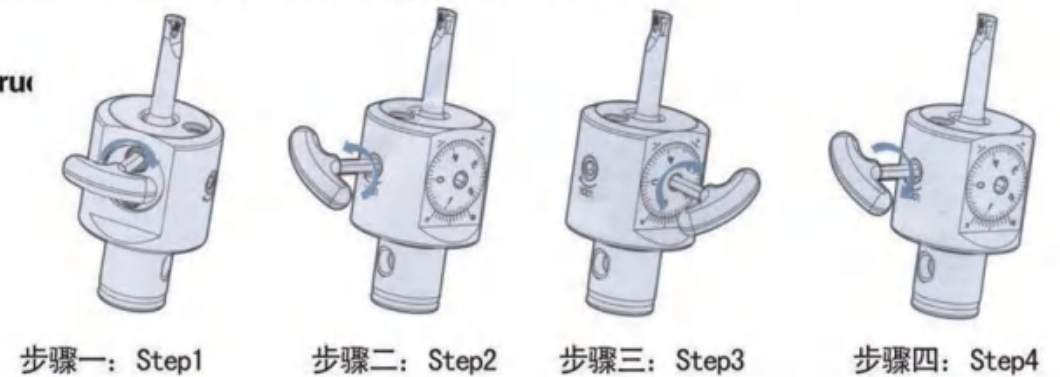
Step1: Hold right boring bar in right hole. Make sure weldon part of boring bar is to the position of lock screw and cutting edge of boring bar is to the position of adjusting panel. Fasten the locking screw properly.

Step2: Loosen adjusting screw (see figure 4) anti-clockwise.

Step3: Enlarge the boring diameter by adjusting on the adjusting panel (See figure 2) anti-clockwise, while adjusting clockwise is to reduce the boring range.

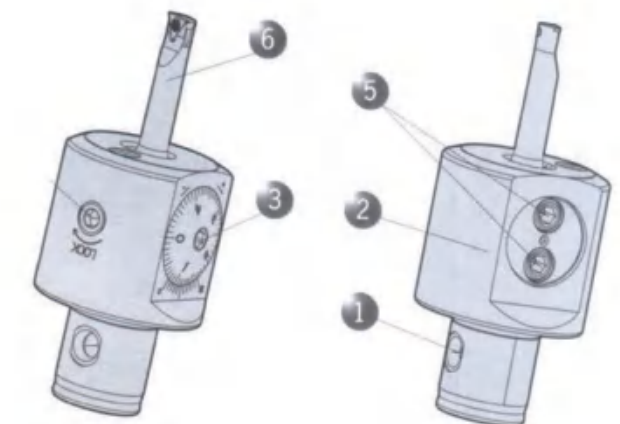
Step4: Adjust till the boring diameter required and lock the adjusting screw properly.

操作示意图/Instru



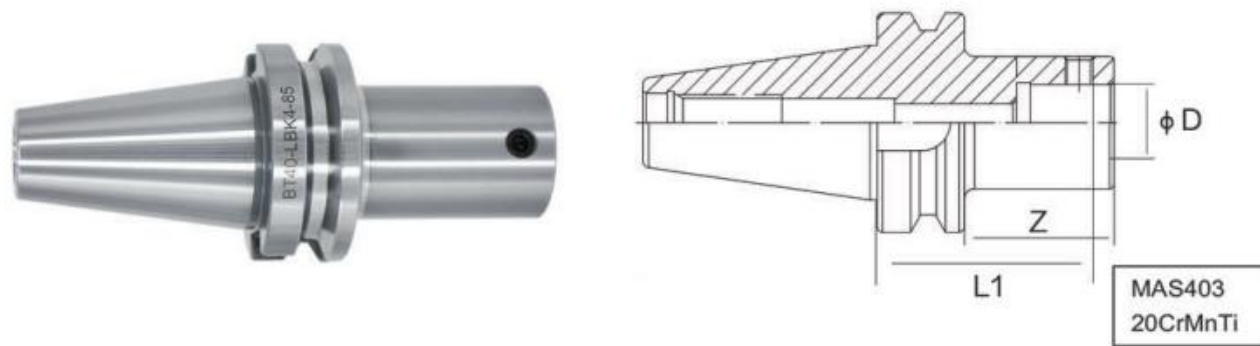
产品结构/Manuals

- 镗头柄部
Connection part
- 镗头本体
Tool body
- 微调旋钮
Adjusting knob
- 微调锁紧螺钉
Locking screw
- 镗刀杆锁紧螺钉
Mounting screw
- 镗刀杆
Boring bar



使用者注意事项/Notices Of the User

1. 请在加工范围内 ($\phi 6-\phi 50\text{mm}$) 使用。
2. 调整微调旋钮前必须松开微调锁紧螺钉, 否则会导致微调机构损坏。
3. 请使用专用扳手固定微调锁紧螺钉, 扭力要适当, 过紧会导致芯轴移位。过松会造成精度不良。
4. 本产品为精密机构, 当阻力过大微调刻度盘无法旋转时, 请立刻停止调整, 并确认以下事项:
A. 微调锁紧螺钉是否松开;
B. 是否超出调整范围;
C. 当过度旋转调整刻度盘会微调导致精密机构损坏。
1. Please use this tool within work range ($\phi 6-\phi 50\text{mm}$)
2. Please loosen the adjusting screw before adjusting.
3. Please fasten the adjusting knob by means of special wrench properly
4. Please stop the adjustment when it is faced with a strong resistance or is unable to continue adjustment, check immediately the offlowing points:
A. If the locking screws is unlocked;
B. If the adjustment is within the suggested work range;
C. Over adjustment will bring damage to the tool irreversibly.



Combination		Height Z	Range ØD	Fig.	L	L1	Ø D1	Wt.
LBA Shanks	CBA Head							
BT30-LBK1-70	CBA20	75	20-26-36	2	105	70	19	0.6
BT30-LBK2-80	CBA25	90	25-33-47			80	24	0.8
BT30-LBK3-80	CBA32		32-42-60		32		1.0	
BT30-LBK4-70	CBA40		40-55-79		70	39	1.3	
BT30-LBK5-60	CBA52	52-75-112	60		50	1.8		
BT30-LBK6-60	CBA68	68-102-150		130	64	3.0		
BT40-LBK1-75	CBA20	75	20-26-36	2	110	75	19	1.1
BT40-LBK1-105		105			140	105	1.3	
BT40-LBK2-85	CBA25	90	25-33-47		125	85	24	1.3
BT40-LBK2-115		120			155	115	24	1.6
BT40-LBK3-95	CBA32	100	32-42-60		135	95	31	1.5
BT40-LBK3-125		130		165	125	1.8		
BT40-LBK4-155		160		195	155	2.0		
BT40-LBK4-85	CBA40	100	40-55-79	135	85	39	1.8	
BT40-LBK4-130		145		180	130	2.4		
BT40-LBK5-175		190		225	175	2.7		
BT40-LBK5-75	CBA52	100	52-75-112	135	75	50	2.3	
BT40-LBK5-125		150		185	125	3.3		
BT40-LBK6-175	CBA68	200	68-102-150	235	175	64	4.0	
BT40-LBK6-65		100		135	65	3.3		
BT40-LBK6-115		150		185	115	4.7		
BT40-LBK6-165	CBA100	200	100-152-203	235	165	64	5.9	
BT40-LBK6-65		100		135	65	4.2		
BT40-LBK6-115		150		185	115	5.6		
BT40-LBK6-165	CBA150	200	150-202	235	165	64	6.8	
BT40-LBK6-65		100		135	65	5.5		
BT40-LBK6-115		150		185	115	6.9		
BT40-LBK6-165	200	235	165	8.1				

Combination		Height Z	Range ØD	Fig.	L	L1	Ø D1	Wt.
LBA Shanks	CBA Head							
BT50-LBK1-115	CBA20	75	20-26-36	1	150	115	31/19	
BT50-LBK1-145		105			180	145		
BT50-LBK2-110	CBA25	105	25-33-47		150	110	24	
BT50-LBK2-140		135			180	140		
BT50-LBK3-125	CBA32	120	32-42-60		165	125	31	
BT50-LBK3-155		150		195	155			
BT50-LBK4-115	CBA40	120	40-55-79	165	115	39		
BT50-LBK4-145		150		195	145			
BT50-LBK4-175		180		225	175			
BT50-LBK4-205		210		225	205			
BT50-LBK5-105	CBA52	120	52-75-112	165	105	50		
BT50-LBK5-180		195		240	180			
BT50-LBK5-240		25		300	240			
BT50-LBK5-300		255		360	300			
BT50-LBK6-95	CBA68	120	68-102-150	165	95	64/50		
BT50-LBK6-170		195		240	170			
BT50-LBK6-230		255		300	230			
BT50-LBK6-290		315		360	290			
BT50-LBK6-350		375		420	350		64	
BT50-LBK6-350		375		420	350		90/64	

