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夹持具 E
ACCESSORIES



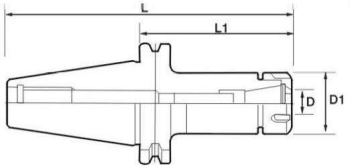
BT-ER 弹性刀柄
BT-ER Collet chuck



型号说明Model explanation

BT40 ER 20 70

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度



- 设计简单方便，精度高。
- Designs simply convenient,the precision is high.

型号 Cat.No		尺寸Size D	D1	L1	L	筒夹 suitable collet	扳手 suitable spanner	重量 Weight（KG）
BT30	-ER11-70	11	19	70	118.4	ER11	ER11A-BS	0.45
	-ER11-100	11	19	100	148.4	ER11	ER11A-BS	0.55
	-ER16-70	16	28	70	118.4	ER16	ER16A-BS	0.55
	-ER16-100	16	28	100	148.4	ER16	ER16A-BS	0.80
	-ER20-70	20	34	70	118.4	ER20	ER20A-BS	0.75
	-ER20-100	20	34	100	148.4	ER20	ER20A-BS	0.85
	-ER25-70	25	42	70	118.4	ER25	ER25UM-BS	0.70
	-ER25-100	25	42	100	148.4	ER25	ER25UM-BS	1.45
	-ER32-70	32	50	70	118.4	ER32	ER32UM-BS	0.95
	-ER32-100	32	50	100	148.4	ER32	ER32UM-BS	1.05
	-ER40-80	40	63	80	128.4	ER40	ER40UM-BS	1.20
BT40	-ER11-70	11	19	70	135.4	ER11	ER11A-BS	0.95
	-ER11-100	11	19	100	165.4	ER11	ER11A-BS	1.00
	-ER16-70	16	28	70	135.4	ER16	ER16A-BS	1.20
	-ER16-100	16	28	100	165.4	ER16	ER16A-BS	1.30
	-ER16-150	16	28	150	215.4	ER16	ER16A-BS	1.40
	-ER20-70	20	34	70	135.4	ER20	ER20A-BS	1.40
	-ER20-100	20	34	100	165.4	ER20	ER20A-BS	1.50
	-ER20-150	20	34	150	215.4	ER20	ER20A-BS	1.80
	-ER25-70	25	42	70	135.4	ER25	ER25UM-BS	1.30
	-ER25-100	25	42	100	200.4	ER25	ER25UM-BS	1.65
	-ER25-150	25	42	150	21.5	ER25	ER25UM-BS	2.25
	-ER32-70	32	50	70	135.4	ER32	ER32UM-BS	1.30
	-ER32-100	32	50	100	165.4	ER32	ER32UM-BS	1.70
	-ER32-150	32	50	150	215.4	ER32	ER32UM-BS	2.50
	-ER40-80	40	63	80	145.4	ER40	ER40UM-BS	1.50
	-ER40-100	40	63	100	165.4	ER40	ER40UM-BS	2.05
	-ER40-150	40	63	150	215.4	ER40	ER40UM-BS	3.10
	-ER50-85	50	78	85	145.4	ER50	ER50UM-BS	1.70
	-ER50-100	50	78	100	165.4	ER50	ER50UM-BS	2.10

⚠ 请不要使用杆部有缺口或有平面的刃具禁止空锁（未插入刃具锁紧）

⚠ Please do not use the bar there are gaps in the Deportment of the cutting tool or a flat.Ban air lock （not insert a cutting tool by tight）.

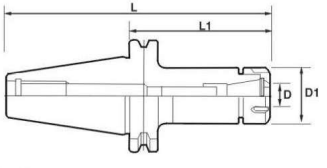
BT-ER 弹性刀柄
BT-ER Collet chuck



型号说明Model explanation

BT50 ER 20 100

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度



- 设计简单方便，精度高。
- Designs simply convenient,the precision is high.

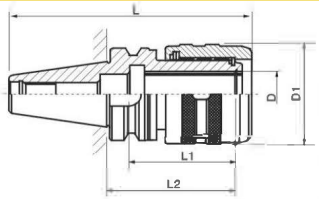
型号 Cat.No		尺寸Size D	D1	L1	L	筒夹 suitable collet	扳手 suitable spanner	重量 Weight（KG）
BT50	-ER16-100	16	28	100	201.8	ER16	ER16A-BS	4.30
	-ER16-150	16	28	150	251.8	ER16	ER16A-BS	4.40
	-ER20-100	20	34	100	201.8	ER20	ER20A-BS	4.30
	-ER20-150	20	34	150	251.8	ER20	ER20A-BS	4.70
	-ER20-200	20	34	200	301.8	ER20	ER20A-BS	4.90
	-ER25-90	25	42	90	201.8	ER25	ER25UM-BS	4.40
	-ER25-150	25	42	150	251.8	ER25	ER25UM-BS	4.70
	-ER25-200	25	42	200	301.8	ER25	ER25UM-BS	5.50
	-ER32-100	32	50	100	201.8	ER32	ER32UM-BS	4.80
	-ER32-150	32	50	150	251.8	ER32	ER32UM-BS	5.30
	-ER32-200	32	50	200	301.8	ER32	ER32UM-BS	5.50
	-ER40-100	40	63	100	201.8	ER40	ER40UM-BS	4.40
	-ER40-150	40	63	150	251.8	ER40	ER40UM-BS	5.20
	-ER40-200	40	63	200	301.8	ER40	ER40UM-BS	6.20
	-ER50-90	50	78	90	291.8	ER50	ER50UM-BS	4.60
	-ER50-120	50	78	120	221.8	ER50	ER50UM-BS	5.50
	-ER50-165	50	78	165	266.8	ER50	ER50UM-BS	6.10

1.筒夹样式有弹性、止水、刚性攻牙、伸缩攻牙、极小内孔等共选择。
2.弹性筒夹偏摆精度有标准级（0.015MM以内），A级（0.01以内）。
3.整支通孔，利于出水及抗震。
4.装夹时筒夹必须先置入螺帽，再装入刀具，最后锁入刀具。
5.刀具置入筒夹，必须超出筒夹内控有效夹持长度，避免不当锁紧，造成损失。
6.使用正确扳手装置，不可任意改变以免造成损坏。

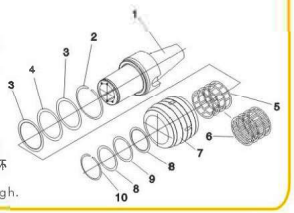
1.Collet style aflexibe,sealing,rigid topping,stretching tapping,a very small hole,etc.were selected.
2.Collet Runout accuracy of standard-class（0.015MM or less）. A level（0.01 or less）.
3.Whole bronch hole,which will help the water and shock.
4.Collet fixture must be placed when the nut,and then loaded knives, finally locked into the shank.
5.Knives into Collet Collet bore must go beyond the effective clamping length,avoid losses.
6.To use the correct wrench device, can not be arbitrarily changed so as to avoid domage.

BT-C 强力型刀柄
BT-C Miling chuck





1、本体
2、同心扣环
3、垫片
4、平面油封
5、轴承钢
6、滚钉
7、螺帽
8、垫片
9、平面油封
10、同心扣环



型号说明Model explanation

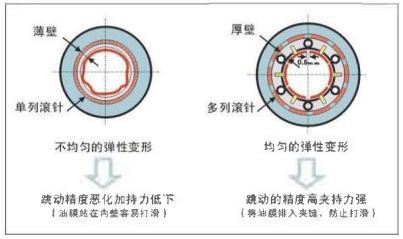
BT40 C 32 105

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度

- 设计简单方便，精度高。
- Designs simply convenient,the precision is high.

型号 Cat.No	尺寸Size						筒夹 suitable collet	扳手 suitable spanner	重量 Weight (KG)
	D	L2	L1		L	D1			
BT30 -C20-80	20	80	45	70	128.4	53	C20-BS	C20	1.80
-C25-80	25	80	48	73	128.4	60	C25-BS	C25	1.95
BT40 -C20-105	20	105	45	70	170.4	53	C20-BS	C20	2.60
-C25-105	25	105	48	73	170.4	60	C25-BS	C25	2.65
-C32-105	32	105	50	76	170.4	70	C32-BS	C32	2.80
-C32-135	32	135	50	76	200.4	70	C32-BS	C32	3.00
-C32-165	32	165	50	76	230.4	70	C32-BS	C32	3.50
BT50 -C20-105	20	105	45	70	206.8	53	C20-BS	C20	4.50
-C25-105	25	105	48	73	206.8	60	C25-BS	C25	4.60
-C32-105	32	105	60	95	206.8	70	C32-BS	C32	5.15
-C32-135	32	135	60	95	236.8	70	C32-BS	C32	5.90
-C32-165	32	165	60	95	266.8	70	C32-BS	C32	6.60
-C42-115	42	115	60	98	216.8	92	C42-BS	C42	6.10
-C42-135	42	135	60	98	236.8	92	C42-BS	C42	6.60
-C42-165	42	165	60	98	266.8	92	C42-BS	C42	7.40

支持高精度的加厚设计及独特的夹缝结构
Support for high-precision thick design and a unique structure of the slit



夹头的加厚设计，可以增加刚性，以承受立铣刀的重切削。而采用独特的夹缝结构，可以使夹持部分均匀变形，以获得强大的夹持力及稳定的跳动精度。

Chuck' s thicker design can increase the rigidity to withstand the heavy cutting end mills.The use of a unique slit Structure,and can make gripping part of the uniform deformationIn orderto obtain a powerful clamping force and stability of the beating of accuracy.

1.刀柄内孔分割6槽以防止滑动，并加大夹持力。
2.采用两线装置为使当滑动至针锥面时滚动摩擦及脱落减至最小。
3.刀具置入筒夹需超出筒夹有效夹持长度，以避免因非完全夹持，导致筒夹损坏、变形或脱刀情形发生。

1.Shank hole split six slots in orderto prevent sliding,and increase the clamping force.
2.Two-wire device to make when sliding to rolling friction when the needle cone and minimize shedding.
3.The tool onto Collet Collet need to exceed the effective clamping length,in order to avoid non-totallygripping,resulting in Collet damaged,deformed ordie-cutter things from happening.

- 夹持部加厚设计，提高刚性，防止震动。
- 夹持力强，跳动精度高。

- Department of thicker clamping design,improve the rigidity and prevent vibration.
- Clamping strong,beatinghigh precision.

BT-C强力型刀柄套装
BT-C Milling chuck set



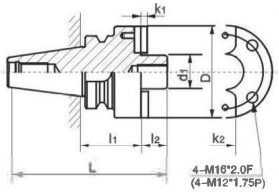
型号 Cat.No	COLLET	内附筒夹规格 Specifications included Collet
BT30-C20-80-7PCS	C20	3,4,6,8,10,12,16
BT40-C20-105-7PCS	C20	3,4,6,8,10,12,16
BT40-C32-105-7PCS	C32	6,8,10,12,16,20,25
BT40-C32-105-7PCS	C32	1/4,5/16,3/8,1/2,3/4,5/8,1"
BT50-C20-105-7PCS	C20	3,4,6,8,10,12,16
BT50-C32-105-7PCS	C32	6,8,10,12,16,20,25
BT50-C32-105-7PCS	C32	3/4,3/8,5/8,5/16，1/4,1/2,1"
BT50-C42-115-8PCS	C42	6,8,10,12,16,20,25,32
BT50-C42-115-8PCS	C42	1/4,5/16,3/8,1/2,3/4,5/8,1"，1-1/4

- 以上套装含刀柄1支、筒夹7个或8个、木盒1个、扳手1支、拉钉1支。
- Set containing more than one knife handle,Collet7 or8,a wooden box,a wrench,pull a nail.

BT-FMA平面铣刀柄（英制）
BT-FMA Face mill holder



材质为特殊合金钢 硬度为55±1HRC



型号说明Model explanation

BT40 FMA 25.4 60

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度

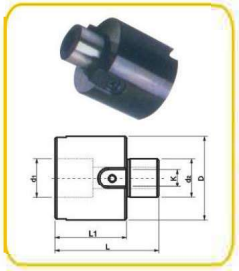
- 专用面铣刀盘用刀柄
- The special-purpose face milling cutter plate uses the hilt.

型号 Cat.No	尺寸 Size							重量 Weight (KG)
	D1	D	L1	L2	L	K1	K2	
BT30 -FMA25.4-45	25.4	50	45	20	113.4	4.52	9.52	1.00
-FMA25.4-60	25.4	50	60	20	128.4	4.52	9.52	1.30
-FMA31.75-45	31.75	60	45	22	115.4	6.7	12.7	1.35
BT40 -FMA25.4-45	25.4	50	45	20	130.4	4.52	9.52	1.80
-FMA25.4-90	25.4	50	90	20	175.4	4.52	9.52	2.60
-FMA31.75-45	31.75	60	45	22	132.4	6.7	12.7	2.00
-FMA31.75-90	31.75	60	90	22	177.4	6.7	12.7	2.90
-FMA38.1-60	38.1	75	60	25	150.4	8.87	15.87	2.80
-FMA50.8-90	50.8	98	90	26	181.4	9.75	19.05	4.60
BT50 -FMA25.4-45	25.4	50	45	20	166.8	4.52	9.52	4.40
-FMA25.4-90	25.4	50	90	20	211.8	4.52	9.52	5.10
-FMA25.4-150	25.4	50	150	20	271.8	4.52	9.52	6.10
-FMA31.75-45	31.75	80	45	22	168.8	6.7	12.7	4.50
-FMA31.75-90	31.75	80	90	22	213.8	6.7	12.7	5.70
-FMA31.75-150	31.75	80	150	22	273.8	6.7	12.7	6.00
-FMA38.1-60	38.1	60	60	25	186.8	8.87	15.87	4.90
-FMA38.1-150	38.1	98	150	25	276.8	8.87	15.87	5.70
-FMA50.8-90	50.8	95	90	26	217.8	9.75	19.05	6.95
-FMA50.8-150	50.8	95	150	26	277.8	9.75	19.05	7.90
-FMA47.62-75	47.62	128.75	75	32	208.8	12.5	25.4	7.90

- 整支通孔，利于出水及抗震。
- 附带紧固螺丝。
- 试用中心内冷时，请另外订购带有孔的紧固螺丝。

- The entire branch hole, which will help the water and shock.
- With fastening screws.
- Use cold center, please also ordered with fastening screw holes.

FMA-FMB 面铣刀转换接头
FMA-FMB face mill transiton joint

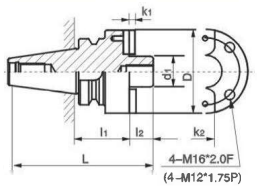


型号 Cat.No	尺寸 Size					
	d2	d1	D	L1	L	K
FMA25.4-FMB22	22	25.4	47	42	62	10
FMA25.4-FMB27	27	25.4	60	42	62	124
FMA31.75-FMB32	32	31.75	76	42	66	14
FMA25.4×42	25.4	25.4	47	42	62	9.52
FMB22-FMA25.4	25.4	22	47	42	60	9.52
FMB27-FMA25.4	25.4	27	60	42	62	9.52
FMB32-FMA31.75	31.75	32	76	42	66	12.7
FMB22×42	22	22	47	42	60	10
FMB27×42	27	27	60	42	62	12

BT-FMB 平面铣刀柄（公制）
BT-FMB Face mill holder



材质为特殊合金钢 硬度为55±1HRC



型号说明Model explanation

BT40 FMB 22 60

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度

- 专用面铣刀盘用刀柄
- The special-purpose face milling cutter plate uses the hilt.

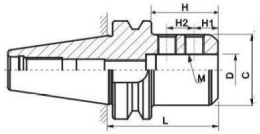
型号 Cat.No	尺寸 Size							重量 Weight (KG)
	d1	D	L1	L2	L	K1	K2	
BT30 -FMB22-45	22	48	45	18	111.4	4.8	10	0.85
-FMB27-45	27	60	45	20	113.4	5.8	12	1.20
-FMB32-45	32	78	45	22	115.4	6.8	14	1.35
BT40 -FMB22-45	22	48	45	18	128.4	4.8	10	1.45
-FMB22-60	22	48	60	18	143.4	4.8	10	1.70
-FMB22-100	22	48	100	18	183.4	4.8	10	2.10
-FMB22-120	22	48	120	18	205.4	4.8	10	2.30
-FMB22-150	22	48	150	18	233.4	4.8	10	3.10
-FMB22-200	22	48	200	18	283.4	4.8	10	3.80
-FMB22-250	22	48	250	18	283.4	4.8	10	4.50
-FMB22-300	22	48	300	18	333.4	4.8	10	5.10
-FMB27-45	27	68	45	20	128.4	5.8	12	1.60
-FMB32-45	32	78	45	22	128.4	6.8	14	1.70
-FMB40-45	40	80	45	25	128.4	8.3	16	2.10
BT50 -FMB22-45	22	48	45	18	164.8	4.8	10	4.50
-FMB22-100	22	48	100	18	201.8	4.8	10	5.20
-FMB22-150	22	48	150	18	269.8	4.8	10	6.80
-FMB22-200	22	48	200	18	319.8	4.8	10	7.00
-FMB22-250	22	48	250	18	369.8	4.8	10	8.00
-FMB27-75	27	60	75	20	176.8	5.8	12	5.20
-FMB27-150	27	60	150	20	269.8	5.8	12	7.50
-FMB27-200	27	60	200	20	319.8	5.8	12	9.50
-FMB32-75	32	78	75	22	176.8	6.8	14	5.50
-FMB32-150	32	78	150	22	269.8	6.8	14	7.00
-FMB40-75	40	89	75	25	176.8	8.3	16	5.90
-FMB40-150	40	89	150	25	269.8	8.3	16	7.80
-FMB60-60	60	140	60	26	161.8	12.5	25.4	8.50

- 整支通孔，利于出水及抗震。
- 附带紧固螺丝。
- 试用中心内冷时，请另外订购带有孔的紧固螺丝。

- The entire branch hole, which will help the water and shock.
- With fastening screws.
- Use cold center, please also ordered with fastening screw holes.

BT-SLA 侧固式铣刀柄
BT-SLA Side lock end mill holder





型号说明Model explanation

BT40 SLA 10 60

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度

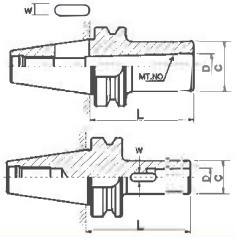
- 不分孔径皆为二底锁紧螺丝
- 用于支持具有侧固平面的刀具。
- Regardless of apertre jie Wei 2 locking screws.
- For gripping the tool with a side of solid plane.

型号 Cat.No		尺寸 Size								重量 Weight (KG)
		φD	L	φC	H MIN	H MAX	H1	H2	M	
BT30	-SLA6-60	6	60	25	20	35	18	--	M6	0.55
	-SLA8-60	8	60	28	20	35	18	--	M8	0.6
	-SLA10-60	10	60	35	35	50	14	13	M10	0.7
	-SLA12-60	12	60	40	35	50	14	13	M10	0.75
	-SLA16-90	16	90	40	55	70	25	20	M10	1.05
	-SLA20-90	20	90	50	55	70	25	20	M12	1.1
	-SLA25-90	25	90	50	55	70	25	20	M12	1.7
	-SLA32-105	32	105	60	65	80	25	25	M16	1.85
BT40	-SLA6-75	6	75	25	20	35	18	--	M6	1.2
	-SLA8-75	8	75	28	20	35	18	--	M8	1.25
	-SLA10-75	10	75	35	35	50	14	13	M10	1.3
	-SLA12-75	12	75	40	35	50	14	13	M10	1.35
	-SLA16-90	16	90	40	55	70	25	20	M10	1.6
	-SLA20-90	20	90	50	55	70	25	20	M12	1.65
	-SLA25-90	25	90	50	55	70	25	20	M12	2.5
	-SLA32-105	32	105	60	65	80	25	25	M16	2.8
	-SLA40-105	40	105	70	65	80	25	25	M20	2.95
	-SLA42-105	42	105	70	65	80	25	25	M20	3.15
BT50	-SLA6-105	6	105	25	20	35	--	--	M6	3.9
	-SLA8-105	8	105	28	20	35	--	--	M8	3.9
	-SLA10-105	10	105	35	35	50	13	13	M10	4.0
	-SLA12-105	12	105	40	35	50	13	13	M10	4.0
	-SLA16-105	16	105	50	55	70	20	20	M10	4.5
	-SLA20-105	20	105	50	55	70	20	20	M12	4.7
	-SLA20-150	20	150	50	55	70	20	20	M12	5.5
	-SLA20-200	20	200	50	55	70	20	20	M12	6.0
	-SLA25-105	25	105	50	55	70	20	20	M12	5.2
	-SLA25-150	25	150	50	55	70	20	20	M12	6.0
	-SLA25-200	25	22	50	55	70	20	20	M12	7.5
	-SLA32-105	32	105	60	65	80	25	25	M16	6.0
	-SLA32-150	32	150	60	65	80	25	25	M16	6.5
	-SLA32-200	32	200	60	65	80	25	25	M16	7.3
	-SLA40-105	40	105	70	65	80	25	25	M20	6.6
	-SLA42-105	42	105	70	65	80	25	25	M20	7.2
	-SLA42-150	42	150	70	65	80	25	25	M20	7.8
	-SLA42-250	42	250	70	65	80	25	25	M20	7.8
	-SLA50.8-120	51	120	90	65	80	35	35	M20	7.4

- 刀具装着时，刃物的槽口平面部时与刀柄的侧固螺钉对齐，强力锁紧。
  侧固式柄部形状有不同，使用的侧固式刀柄也有区别，必须确认侧固式螺钉的位置。
- When the cutting tool is installing, when edge's notch evev face alines with the hilt side solid bolt, force locking.
  The side solid-like handle department shape has the difference, the use side solid-like hilt also has the difference, must confirm the side solid-like bolt's position.

BT-MTA 莫式锥度刀柄
BT-MTA Mose taper sleeve (sleeve (typeA)





型号说明Model explanation

BT40 MTA 1 45

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度

型号 Cat.No		尺寸 Size					重量 Weight (KG)
		MT.NO	D	L	W	C	
BT30	MTA1-45	MTA1	12.065	45	20	5.6	0.55
	MTA2-45	MTA2	17.780	45	30	6.6	0.6
	MTA3-45	MTA3	23.825	45	40	8.4	0.7
BT40	MTA1-45	MTA1	12.065	45	25	5.6	1.05
	MTA1-120	MTA1	12.065	120	25	5.6	1.4
	MTA2-45	MTA2	17.780	45	32	6.6	1.1
	MTA2-120	MTA2	17.780	120	32	6.6	1.85
	MTA3-75	MTA3	23.825	75	40	8.4	1.25
	MTA3-135	MTA3	23.825	135	40	8.4	1.9
	MTA4-90	MTA4	31.065	90	50	12.4	1.45
	MTA4-165	MTA4	31.065	165	50	12.4	2.5
BT50	MTA1-45	MTA1	12.065	45	25	5.6	3.8
	MTA1-120	MTA1	12.065	120	25	5.6	4.3
	MTA1-180	MTA1	12.065	180	25	5.6	5.0
	MTA2-45	MTA2	17.780	45	25	6.6	4.0
	MTA2-135	MTA2	17.780	135	25	6.6	4.7
	MTA2-180	MTA2	17.780	180	25	6.6	5.0
	MTA3-75	MTA3	23.835	75	40	8.4	3.8
	MTA3-150	MTA3	23.835	150	40	8.4	5.0
	MTA3-180	MTA3	23.835	180	40	8.4	5.5
	MTA4-90	MTA4	31.267	90	50	12.4	4.5
	MTA4-180	MTA4	31.267	180	50	12.4	5.5
	MTA5-105	MTA5	44.399	105			4.3

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

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

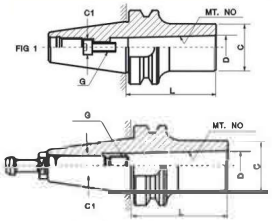
BT-MTB 莫式锥度刀柄
BT-MTB Mose taper sleeve （sleeve （typeB）



型号说明Model explanation

BT40 MTB 1 45

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度



- 采用长拉钉形式
  Pull nails with long-form
- 报价时不含长拉钉，需单独订购
  Quote a long time without pulling nails,need to be ordered separately.

型号 Cat.No		样式 Manner	尺寸 Size					重量 Weight (KG)
			D	L	C	C1	G	
BT30	MTB1-45	1	12.065	45	25	10	M6×1	0.55
	MTB2-45	2	12.065	45	32	10	M10×1.5	0.55
BT40	MTB1-45	1	12.065	45	25	10	M6×1	1.05
	MTB2-45	2	17.780	45	32	13.5	M10×1.5	1.85
	MTB3-75	2	23.825	75	42	18	M12×1.75	1.3
	MTB4-75	2	31.267	75	50	20.5	M16×2	1.4
BT50	MTB1-45	1	12.065	45	25	10	M6×1	3.8
	MTB2-45	2	17.780	45	32	16	M10×1.5	3.9
	MTB3-60	2	23.825	60	42	18	M12×1.75	4.0
	MTB4-75	2	31.267	75	50	20.5	M16×2	4.2
	MTB5-120	1	44.399	120	70	22.5	M20×2.5	4.3

- 刀具装卸时，请锁紧刀柄上装刀用的锁紧螺钉。
- 拆卸刀具时，先放松拉紧螺钉2-3圈，然后在刀柄的头部分用锤子敲击，放松接触面后，再扭松螺钉，取出刀具。
- When the cutting tool is installing,please lock the gib screw which the hilt upper garment knife uses.
- When disassem bles the cutting tool,relaxes the tautness bolt first2-3,then in the hilt head part with the clock sub-rap,after relaxing the contact face, then turns the loose bolt,takes out the cutting tool.

	型号 Cat.No	配套刀柄 Supporting Shank	G
MTB长拉钉	BT30-45° -MTB2	BT30-MTB2	M10×1.5
	BT40-45° -MTB2	BT40-MTB2	M10×1.5
	BT40-45° -MTB3	BT40-MTB3	M12×1.75
	BT40-45° -MTB4	BT40-MTB4	M16×2
	BT50-45° MTB2	BT50-MTB2	M10×1.5
	BT50-45° -MTB3	BT50-MTB3	M12×1.75
	BT50-45° -MTB4	BT50-MTB4	M16×2

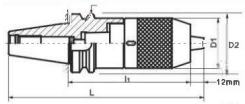
BT-APU-体式钻夹头
BT-APU Ddrill chuck

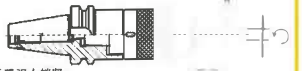


型号说明Model explanation

BT40 APU 13 100

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度





- 请把刀具柄部插到夹头后，锥柄部分插入夹头。
- 锁紧刀具时请将刀具的柄径部分全部插入。
- 特别是小径的情况下，请确认跳动精度。
- 刀具夹紧时，刀具先插夹头，用手扭紧，最后用专用扳手强力锁紧。
- Please inserts the cutting tool handle department after the cartridge,do cause the handle part insertion cartridge.Locks when the cutting tool please completely insert cutting tool`s handle diameter part.
- When the cutting tool clamps,the cutting tool inserts the cartridge first,turns tight with the hand,finally uses the special spanner force to lock.

型号 Cat.No		尺寸 Size				把握直径 Chucking Dia	重量 Weight (KG)
		D1	D2	L1	L		
BT30	-APU8-80	36.5	46	80	137.4	0.3~8	0.80
	-APU13-110	48	46	110	158.4	1~13	1.85
	-APU16-110	55.5	46	110	158.4	3~16	2.18
BT40	-APU8-85	36.5	0.63	85	150.4	0.3~8	1.46
	-APU13-105	48	0.63	105	170.4	1~13	2.00
	-APU13-130	48	0.63	130	195.4	1~13	2.33
	-APU16-105	55.5	0.63	105	170.4	3~16	2.33
	-APU16-130	55.5	0.63	130	195.4	3~16	2.60
BT50	-APU8-90	36.5	100	90	191.8	0.3~8	4.20
	-APU13-110	48	100	110	211.8	1~13	4.70
	-APU13-180	48	100	180	281.8	1~13	5.80
	-APU16-115	55.5	100	115	216.8	3~16	5.10
	-APU16-130	55.5	100	130	236.8	3~16	4.80
	-APU16-190	55.5	100	190	296.8	3~16	6.10

- 订购刀柄附带钻夹头专用扳手一支。
- The order hilt drills cartridge special spanner one in passing.

C-APU 直柄式钻夹头
C-APU Integrated keyless drill chuck



型号 Cat.No	L
C20-APU8	120
-APU13	140
-APU16	150
C25-APU13	161
-APU16	165
C32-APU13	165
-APU16	165

MT-APU莫式柄一体式钻夹头
MT-APU Mo 's drill chuck



型号 Cat.No	L
MT2-APU8	164
MT3-APU13	179
-APU16	184
MT4-APU13	202
-APU16	207

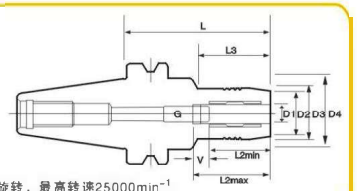
BT-HM 液压刀柄
BT-HM Hydraulic expansion chuck



型号说明Model explanation

BT40 HM 10 90

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度



- 动平衡好、精度高，适合高速旋转，最高转速25000min^{-1}
- 适合精度加工使用。
- The transient equilibrium is good, the precision is high, suits the high speed revolving highest rotational speed 25000min^{-1}
- Suits the precision sizing use.

型号 Cat.No	尺寸 Size									筒夹 suitable Collet	G
	D1	D2	D3	D4	L	L2max	L2min	V	L3		
BT30-HM6-70	6	26	29	44	70	37.5	27.5	10	23	--	M5
-HM8-70	8	27	30	44	70	37.5	27.5	10	23	--	M6
-HM10-75	10	29	32	44	75	42.5	32.5	10	42	--	M8×1
-HM12-75,85	12	31	34	44	75,85	47.5	37.5	10	31.5	HM12	M10×1
-HM14-85	14	33	36	44	85	47.5	37.5	10	44	--	M10×1
-HM16-90	16	36	40	44	90	52.5	42.5	10	46	--	M10×1
-HM18-90	18	38	42	44	90	52.5	42.5	10	46	--	M10×1
-HM20-90	20	40	44	44	90	52.5	42.5	10	46	HM20	M10×1
BT40-HM6-65,90,140	6	26	29	49.5	65,90,140	37.5	27.5	10	23,38,38	--	M5
-HM8-65,90,140	8	27	30	49.5	65,90,140	37.5	27.5	10	23,40,40	--	M6
-HM10-65,90,140	10	29	32	49.5	65,90,140	42.5	32.5	10	23,42,42	--	M8×1
-HM12-65,90,140	12	31	34	49.5	65,90,140	47.5	37.5	10	23,44,44	--	M8×1
-HM14-65,95,135	14	33	36	49.5	65,95,135	47.5	37.5	10	23,44,44	HM12	M10×1
-HM16-65,90,140	16	36	40	49.5	65,90,140	52.5	42.5	10	23,46,46	--	M10×1
-HM18-65,95,135	18	38	42	49.5	65,95,135	52.5	42.5	10	23,46,46	--	M10×1
-HM20-65,90,140	20	40	44	49.5	65,90,140	52.5	42.5	10	23,31.5,48	HM20	M10×1
-HM25-100,135	25	55	60	49.5	100,135	61.0	51	10	73	--	M16×1
-HM32-105,135	32	58	63	49.5	105,135	61.0	65	10	78	HM32	M16×1
BT50-HM6-90,120,140	6	26	29	49.5	90,120,140	37.5	27.5	10	30,38,38	--	M5
-HM8-90,120,140	8	27	30	49.5	90,120,140	37.5	27.5	10	30,40,40	--	M6
-HM10-90,120,140	10	29	32	49.5	90,120,140	42.5	32.5	10	40,42,42	--	M8×1
-HM12-90,120,140	12	31	34	49.5	90,120,140	47.5	37.5	10	30,44,44	HM12	M8×1
-HM14-90,120,140	14	33	36	63	90,120,140	47.5	37.5	10	30,44,44	--	M10×1
-HM16-90,120,140	16	36	40	63	90,120,140	52.5	42.5	10	30,46,46	--	M10×1
-HM18-90,120,140	18	38	42	63	90,120,140	52.5	42.5	10	30,46,46	--	M10×1
-HM20-90,120,140	20	40	44	-	90,120,140	52.5	42.5	10	30,48,48	HM20	M10×1
-HM25-105,150	25	55	60	-	105,150	61.0	51	10	67	--	M16×1
-HM32-115,150	32	58	63	-	115,150	65.0	55	10	77,112	HM32	M16×1

- 订购刀柄配送扳手一支。
- 不附带筒夹，请使用液压专用筒夹。
- 不附带拉钉。
- 夹具切削工具时，φ6-φ32切削工具柄部要使用能插入工具公差h6以内的切削工具。
- Order hilt allocation spanner.
- Does not supplement the collet, the collet invites the hydraulic pressure knife special-purpose collet.
- Does not supplement the puller bolt to select.
- When jig cutting tool, φ6-φ32 the cutting tool handle department must use can insert in tool common

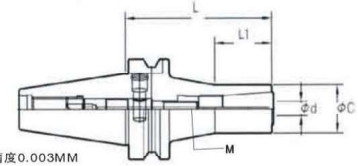
BT-MX 后拉式刀柄
BT-MX Collet chuck



型号说明Model explanation

BT40 MX 12 90

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度

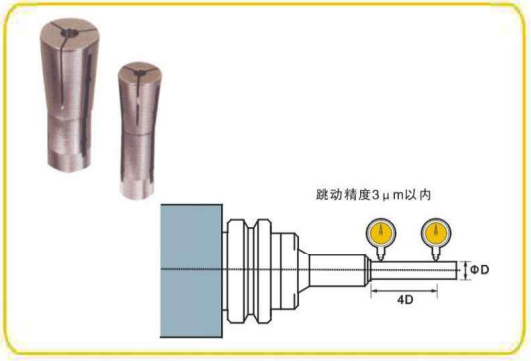


- 预设动平衡G2.5,30000min^{-1}
- 侧面锁紧，方便更实用，振动精度0.003MM
- Preinstall transient equilibri G2.5,30000min-1
- The side locking, facilitates is more practical, vibration precision0.003MM

型号 Cat.No	尺寸 Size					重量 Weight (KG)
	D	L	C	L1	M	
BT30-MX8-90	3.0-10.0	90	22	36	M8	0.6
-MX12-105	3.0-12.0	105	30	35	M12	0.7
BT40-MX8-85	3.0-10.0	85	22	36	M8	1.2
-MX8-105	3.0-10.0	105	22	40	M8	1.5
-MX8-120	3.0-10.0	120	22	43	M8	1.9
-MX12-90	3.0-12.0	90	30	35	M12	1.2
-MX12-105	3.0-12.0	105	30	40	M12	1.6
-MX12-120	3.0-12.0	120	30	43	M12	1.9
BT50-MX8-105	3.0-10.0	105	22	40	M8	4.1
-MX8-135	3.0-10.0	135	22	43	M8	4.4
-MX8-165	3.0-10.0	165	22	35	M8	4.8
-MX12-105	3.0-12.0	105	30	40	M12	4.5
-MX12-135	3.0-12.0	135	30	40	M12	4.8
-MX12-165	3.0-12.0	165	30	40	M12	5.1

- 全系列可选购中心通油型。
- 迷你小径刀柄扳手，不带套筒，带筒请另订购。
- The entire series may select and purchase the center to pass the oil type.
- The miniature trail hilt belt spanner, does not bring the sleeve, the sleeve pleas to order separately buys.

MS 筒夹
MS collet



型号 Cat.No		标准 STANDARD	精密 PCLASS
MX8-3	MX12-4	0.005	0.003
-4	-5		
-5	-6		
-6	-8		
-8	-10		
-10	-12		

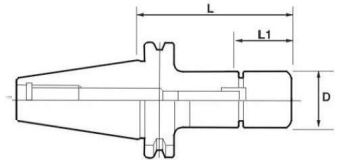
ISO-GER 高速ER刀柄
ISO-GER High speed er collet chuck



型号说明Model explanation

ISO25 GER 20 45

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度



- 预设动平衡，最高可达40000min^{-1}
- Preinstall transient equilibri,high40000min^{-1}

型号 Cat.No		尺寸 Size D	L1	L	螺母 Nut	筒夹 Suitable Collet	扳手 Suitable spanner	把握直径 Chuching Dia
ISO20	ISO20-GER16-45	30	25	45	GER16	ER16	GER16	1~10
ISO25	ISO25-GER20-45	35	27	45	GER20	ER20	GER20	1~13
ISO30	ISO30-GER16-60	30	25	60	GER16	ER16	GER16	1~10
	-GER25-60	40	30	60	GER25	ER25	GET25	1~16

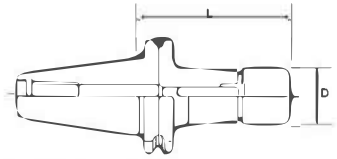
ISO-GSK 弹性刀柄
ISO-GSK Flexible Shank



型号说明Model explanation

ISO25 GSK 10 35

刀柄形状 夹头略号 最大把握直径 从基准面开始的长度



- 预设动平衡，最高可达40000min^{-1}
- Preinstall transient equilibri,high40000min^{-1}

型号 Cat.No		尺寸 Size D	L1	最高旋转数 MAX.min-1	螺母 Nut	筒夹 Suitable Collet	扳手 Suitable spanner	把握直径 Chuching Dia
ISO20	ISO20-GSK6-30	19.5	30	40000	GSK6	STK6	GSK6	0.7~6.0
	-GSK10-45	27.5	45	40000	GSK10	STK10	GSK10	1.75~10.0
ISO25	ISO25-GSK10-45	27.5	45	40000	GSK10	STK10	GSK10	1.75~10.0
ISO30	ISO30-GSK10-60	27.5	60	40000	GSK10	STK10	GSK10	1.75~10.0
	-GSK16-60	40	60	30000	GSK16	STK16	GSK16	2.75~16.0

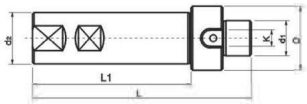
无键槽锁刀座
Locks the tool apron withourt the key slot



型号 Cat.No
BT30
ISO20
ISO25
ISO30

C-FMA 直柄面铣刀杆（英制）
C-FMA Face mill extension（English）

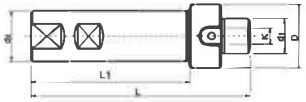




型号 Cat.No		尺寸 Size					
		d1	d2	D	L1	L	K
20	C20-FMA25.4-60	25.4	20	47	60	100	9.25
32	C32-FMA25.4-60	25.4	32	47	60	100	9.25
	-FMA25.4-100	25.4	32	47	100	140	9.25
	-FMA25.4-150	25.4	32	47	150	190	9.25
	-FMA25.4-200	25.4	32	47	200	240	9.25
42	C42-FMA25.4-60	25.4	42	47	60	100	9.25
	-FMA25.4-100	25.4	42	47	100	140	9.25
	-FMA25.4-150	25.4	42	47	150	190	9.25
	-FMA25.4-200	25.4	42	47	200	240	9.25

C-FMB 直柄面铣刀杆（公制）
C-FMB Face mill extension（Metric）



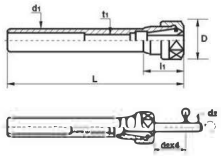


型号 Cat.No		尺寸 Size					
		d1	d2	D	L1	L	K
20	C20-FMB22-60	22	20	47	60	98	10
32	C32-FMB22-60	22	32	47	60	98	10
	-FMB22-100	22	32	47	100	138	10
	-FMB22-150	22	32	47	150	188	10
	-FMB22-200	22	32	47	200	238	10
42	C42-FMB22-60	22	42	47	60	98	10
	-FMB22-100	22	42	47	100	138	10
	-FMB22-150	22	42	47	150	188	10
	-FMB22-200	22	42	47	200	238	10
	-FMB27-60	27	42	60	60	100	12
	-FMB27-100	27	42	60	100	140	12
	-FMB27-150	27	42	60	150	190	12
	-FMB27-200	27	42	60	200	240	12

ER延长杆（A型・铣刀用）
ER Extension（A type・for miller）



端口跳动5μm以内

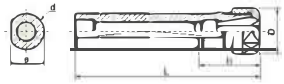


型号 Cat.No	尺寸 Size				把握直径 Chuching Dia
	L	L1	D	d1	
C10-ER11-100A	121.6	21.6	19	10	1.0~7.0
C12-ER11-100A	121.6	21.6	19	12	1.0~7.0
C16-ER11-100A	121.6	21.6	19	16	1.0~7.0
C16-ER11-150A	171.6	21.6	19	16	1.0~7.0
C16-ER16-100A	135.1	35.1	20	16	1.0~10
C16-ER16-150A	185.1	35.1	20	16	1.0~10
C20-ER16-100A	135.1	35.1	20	20	1.0~10
C20-ER16-150A	185.1	35.1	20	20	1.0~10
C20-ER16-200A	235.1	35.1	20	20	1.0~10
C20-ER20-100A	135.1	40.5	25	20	1.0~13
C20-ER20-150A	185.1	40.5	25	20	1.0~13
C20-ER20-200A	235.1	40.5	25	20	1.0~13

ER延长杆（A型・车床用）
ER Extension（A type・for lathe）



端口跳动5μm以内

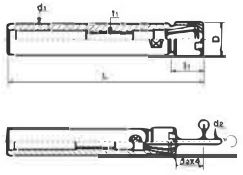


型号 Cat.No	尺寸 Size				
	L	L1	a	D	d
SL20-ER16-70A	100	30	19	28	20
SL20-ER20-70A	100	30	19	34	20
SL25-ER20-70A	100	30	24	34	25
SL20-ER11-70A	100	30	19	19	20
SL25-ER11-70A	100	30	29	19	25
SL20-ER16-70M	100	30	19	22	20
SL20-ER20-70M	100	30	19	28	20
SL25-ER20-70M	100	30	24	28	25

ER延长杆（M/UM型）
ER Extension（M/UM type）



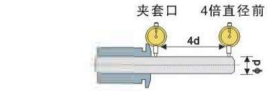
端口跳动5μm以内



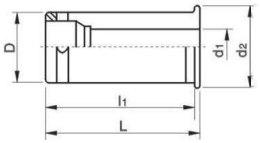
型号 Cat.No	尺寸 Size				把握直径 Chuching Dia
	L	L1	D	d1	
C10-ER8-100M	115.5	15.5	12	10	0.5~5.0
C10-ER8-150M	165.5	15.5	12	10	0.5~5.0
C12-ER11-100M	130.5	30.5	16	12	1.0~7.0
C12-ER11-150M	180.5	30.5	16	12	1.0~7.0
C16-ER16-100M	139.5	39.5	22	16	1.0~10.0
C16-ER16-150M	189.5	39.5	22	16	1.0~10.0
C16-ER16-200M	239.5	39.5	22	16	1.0~10.0
C20-ER16-100M	139.5	39.5	22	20	1.0~10.0
C20-ER16-150M	189.5	39.5	22	20	1.0~10.0
C20-ER16-200M	239.5	39.5	22	20	1.0~10.0
C20-ER20-100M	144.5	44.5	28	20	1.0~10.0
C20-ER20-150M	194.5	44.5	28	20	1.0~10.0
C20-ER20-200M	244.5	44.5	28	20	1.0~10.0
C25-ER25-100UM	152	52	42	25	2.0~16.0
C25-ER25-150UM	202	52	42	25	2.0~16.0
C32-ER25-100UM	155	52	42	32	2.0~16.0
C32-ER25-150UM	202	52	42	32	2.0~16.0
C32-ER32-100UM	155	55	50	32	3.0~20.0
C32-ER32-150UM	205	55	50	32	3.0~20.0
C32-ER32-200UM	255	55	50	32	3.0~20.0

强力筒夹
Power milling





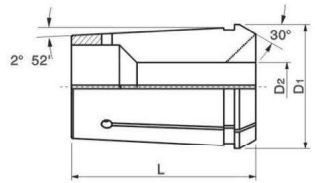
夹套等级	跳动精度（MAX.mm）	
	夹套口	4倍直径前
AA级	0.005	0.01



规格 Taper	型号 Cat.No	尺寸 Size			
		D	d2	L	L1
C20	3,4,5,6,8,10,12,16	20	25	52.5	49
C25	6,8,10,12,16,20	25	30	59	56
C32	6,8,10,12,16,20,25,15,19,24	32	37.5	65	67.4
C32	1/4,5/16,3/8,1/2,3/4,5/8,1"	32	37.5	65	67.4
C42	6,8,10,12,16,20,25,32，15,19,24	42	47	80	76
C42	1/4,5/16,3/8,1/2,5/8,3/4,1"	42	47	80	76

OZ弹性筒夹
OZ Spring collets

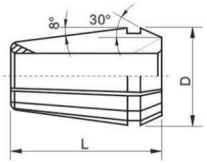




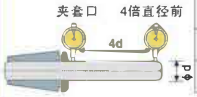
规格 Taper	型号 Cat.No
OZ-25	6,8,10,12,16,20,25MM 3,4,5,7,9,11,13,18MM
OZ-25	1/8"，3/16",1/4",5/16",3/8",7/16",1/2",9/16" 5/8",11/16",3/4",13/16",7/8",15/16",1"

ER 弹性筒夹
ER Spring collets





规格 Tper	D	L	RANGE
ER8	8.5	13.5	0.5
ER11	11.5	18	0.5
ER16	17	27.5	1.0
ER20	21	31.5	1.0
ER25	26	34	1.0
ER32	33	40	1.0
ER40	41	46	1.0

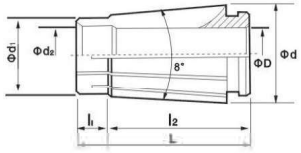


夹套等级	跳动精度（MAX.mm）	
	夹套口	4倍直径前
A级	0.005	0.01
普通级	0.01	0.015

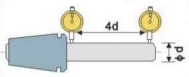
ER8		ER16		ER25		ER32		ER40	
型号 Cat.No	夹持 Clamping	型号 Cat.No	夹持 Clamping	型号 Cat.No	夹持 Clamping	型号 Cat.No	夹持 Clamping	型号 Cat.No	夹持 Clamping
0.5	0.5	1.0	0.5~1.0	2.0	1.0~2.0	3.0	2.0~3.0	6.0	5.0~6.0
1.0	0.5~1.0	2.0	1.0~2.0	3.0	2.0~3.0	4.0	3.0~4.0	7.0	6.0~7.0
1.5	1.0~1.5	3.0	2.0~3.0	4.0	3.0~4.0	5.0	4.0~5.0	8.0	7.0~8.0
2.0	1.5~2.0	4.0	3.0~4.0	5.0	4.0~5.0	6.0	5.0~6.0	9.0	8.0~9.0
2.5	2.0~2.5	5.0	4.0~5.0	6.0	5.0~6.0	7.0	6.0~7.0	10.0	9.0~10.0
3.0	2.5~3.0	6.0	5.0~6.0	7.0	6.0~7.0	8.0	7.0~8.0	11.0	10.0~11.0
3.5	3.0~3.5	7.0	6.0~7.0	8.0	7.0~8.0	9.0	8.0~9.0	12.0	11.0~12.0
4.0	3.5~4.0	8.0	7.0~8.0	9.0	8.0~9.0	10.0	9.0~10.0	13.0	12.0~13.0
4.5	4.0~4.5	9.0	8.0~9.0	10.0	9.0~10.0	11.0	10.0~11.0	14.0	13.0~14.0
5.0	4.5~5.0	10.0	9.0~10.0	11.0	10.0~11.0	12.0	11.0~12.0	15.0	14.0~15.0
ER11		ER20		12.0	11.0~12.0	13.0	12.0~13.0	16.0	15.0~16.0
				13.0	12.0~13.0	14.0	13.0~14.0	17.0	16.0~17.0
型号 Cat.No	夹持 Clamping	型号 Cat.No	夹持 Clamping	14.0	13.0~14.0	15.0	14.0~15.0	18.0	17.0~18.0
				15.0	14.0~15.0	16.0	15.0~16.0	19.0	18.0~19.0
1.0	0.5~1.0	1.0	0.5~1.0	16.0	15.0~16.0	17.0	16.0~17.0	20.0	19.0~20.0
1.5	1.0~1.5	2.0	1.0~2.0			18.0	17.0~18.0	21.0	20.0~21.0
2.0	1.5~2.0	3.0	2.0~3.0			19.0	18.0~19.0	22.0	21.0~22.0
2.5	2.0~2.5	4.0	3.0~4.0			20.0	19.0~20.0	23.0	22.0~23.0
3.0	2.5~3.0	5.0	4.0~5.0					24.0	23.0~24.0
3.5	3.0~3.5	6.0	5.0~6.0					25.0	24.0~25.0
4.0	3.5~4.0	7.0	6.0~7.0					26.0	25.0~26.0
4.5	4.0~4.5	8.0	7.0~8.0						
5.0	4.5~5.0	9.0	8.0~9.0						
5.5	5.0~5.5	10.0	9.0~10.0						
6.0	5.5~6.0	11.0	10.0~11.0						
6.5	6.0~6.5	12.0	11.0~12.0						
7.0	6.5~7.0	13.0	12.0~13.0						

SD 筒夹
SD Collet





规格 Tper	ϕD	L	ϕC	L1	H
SD6	7.5	25	10	17.6	3.8
SD10	12	30.5	15	21.3	5
SD16	18.8	45	24	32	8
SD25	28.9	57	35	43	8.5

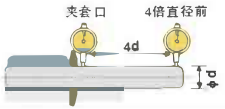


夹套等级	跳动精度（MAX.mm）	
	夹套口	4倍直径前
A级	0.001	0.005
普通级	0.005	0.01

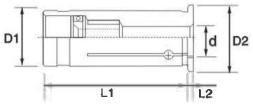
型号 Cat.No	夹持 Clamping	型号 Cat.No	夹持 Clamping	型号 Cat.No	夹持 Clamping	型号 Cat.No	夹持 Clamping
SD6-0.8	0.7~0.8	SD10-2.0	1.75~2.0	SDd16-3.0	2.75~3.0	SD25-16.5	16.0~16.5
SD6-1.0	0.9~1.0	SD10-2.25	2.0~2.25	SD16-3.5	3.0~3.5	SD25-17.0	16.5~17.0
SD6-1.25	1.1~1.25	SD10-2.5	2.25~2.5	SD16-4.0	3.5~4.0	SD25-17.5	17.0~17.5
SD6-1.5	1.25~1.5	SD10-2.75	2.5~2.75	SD16-4.5	4.0~4.5	SD25-18.0	17.5~18.0
SD6-1.75	1.5~1.75	SD10-3.0	2.8~3.0	SD16-5.0	4.5~5.0	SD25-18.5	18.0~18.5
SD6-2.0	1.75~2.0	SD10-4.0	3.0~3.5	SD16-5.5	5.0~5.5	SD25-19.0	18.5~19.0
SD6-2.25	2.0~2.25	SD10-4.5	3.5~4.0	SD16-6.0	5.5~6.0	SD25-19.5	19.0~19.5
SD6-2.5	2.25~2.5	SD10-5.0	4.5~5.0	SD16-6.5	6.0~6.5	SD25-20.0	19.5~20.0
SD6-2.75	2.5~2.75	SD10-5.5	5.0~5.5	SD16-7.0	6.5~7.0	SD25-20.5	20.0~20.5
SD6-3.0	2.8~3.0	SD10-6.0	5.5~6.0	SD16-7.5	7.0~7.5	SD25-21.0	20.5~21.0
SD6-3.5	3.0~3.5	SD10-6.5	6.0~6.5	SD16-8.0	7.5~8.0	SD25-21.5	21.0~21.5
SD6-4.0	3.5~4.0	SD10-7.0	6.5~7.0	SD16-8.5	8.0~8.5	SD25-22.0	21.5~22.0
SD6-4.5	4.0~4.5	SD10-7.5	7.0~7.5	SD16-9.0	8.5~9.0	SD25-22.5	22.0~22.5
SD6-5.0	4.5~5.0	SD10-8.0	7.5~8.0	SD16-9.5	9.0~9.5	SD25-23.0	22.5~23.0
SD6-5.5	5.0~5.5	SD10-8.5	8.0~8.5	SD16-10.0	9.5~10.0	SD25-23.5	23.0~23.5
SD6-6.0	5.5~6.0	SD10-9.0	8.5~9.0	SD16-10.5	10.0~10.5	SD25-24.0	23.5~24.0
		SD10-9.5	9.0~9.5	SD16-11.0	10.5~11.0	SD25-24.5	24.0~24.5
			9.5~100	SD16-11.5	11.0~11.5	SD25-25.0	24.5~25.0
				SD16-12	11.5~12.0	SD25-25.4	25.0~25.4
				SD16-12.5	12.0~12.5		
				SD16-13	12.5~13.0		
				SD16-13.5	13.0~13.5		
				SD16-14.0	13.5~14.0		
				SD16-14.5	14.0~14.5		
				SD16-15.0	14.5~15.0		
				SD16-15.5	15.0~15.5		
				SD16-16.0	15.5~16.0		

液压筒夹
Hydraulic collet





夹套等级	跳动精度（MAX.mm）	
	夹套口	4倍直径前
AA级	0.005	0.01

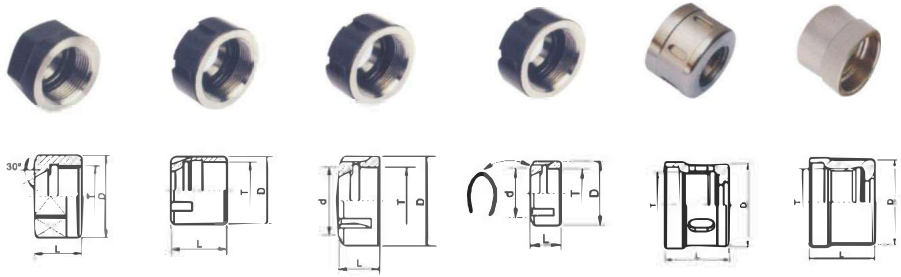


型号 Cat.No		尺寸 Size				
		D1	D2	L1	L2	d
HM12	HM12-3	12	16	44.5	2	3
	-4	12	16	44.5	2	4
	-5	12	16	44.5	2	5
	-6	12	16	44.5	2	6
	-7	12	16	44.5	2	7
	-8	12	16	44.5	2	8
HM20	HM20-3	20	24	50.5	2	3
	-4	20	24	50.5	2	4
	-5	20	24	50.5	2	5
	-6	20	24	50.5	2	6
	-7	20	24	50.5	2	7
	-8	20	24	50.5	2	8
	-9	20	24	50.5	2	9
	-10	20	24	50.5	2	10
	-11	20	24	50.5	2	11
	-12	20	24	50.5	2	12
	-13	20	24	50.5	2	13
	-14	20	24	50.5	2	14
	-15	20	24	50.5	2	15
	-16	20	24	50.5	2	16
	-17	20	24	50.5	2	17
HM32	HM32-6	32	36	60.5	3	6
	-8	32	36	60.5	3	8
	-10	32	36	60.5	3	10
	-12	32	36	60.5	3	12
	-14	32	36	60.5	3	14
	-16	32	36	60.5	3	16
	-18	32	36	60.5	3	18
	-20	32	36	60.5	3	20
	-25	32	36	60.5	3	25

●采用直身设计
适用于液压刀柄

● Uses the straight body design
Is suitable for the hydraulic pressure hilt

螺帽
Clamping nut



A型 A Type　M型 M Type　UM/RD型 UM/RD Type　KM/RD型 KM/RD Type　HER型 HER Type　SD型 SD Type

样式 Manner	型号 Cat.No	尺寸 Size			
		D	d	L	T
A	ER11A-LM	19	17	11.3	M14×0.45P
	ER16A-LM	28	25	17.5	M22×1.5P
	ER20A-LM	34	30	19	M25×1.5P
M	ER8M-LM	12	-	10.8	M10×0.75P
	ER11M-LM	16	-	12	M13×0.75P
	ER16M-LM	22	-	18	M19×1.0P
	ER20M-LM	28	-	19	M24×1.0P
	ER25M-LM	35	-	20	M30×1.0P
UM/RD	ER25UM-LM	42	29	20	M32×1.5P
	ER32UM-LM	50	38.5	22.5	M40×1.5P
	ER40UM-LM	63	48.3	22.5	M50×1.5P
	ER50UM-LM	78	59	35.5	M64×2.0P
KM/RD	ER25KM-LM	42	29	22.5	M32×1.5P
	ER32KM-LM	50	38.5	26	M40×1.5P
	ER40KM-LM	63	48.3	29	M50×1.5P
	ER50KM-LM	78	59	40	M64×2.0P
HER	HER16-LM	32	26	18	M22×1.5P
	HER20-LM	36	30	20	M25×1.5P
	HER25-LM	42	36	22.5	M32×1.5P
	HER32-LM	50	44	25	M40×1.5P
SD	SD6-LM	20	-	21	M15×1.0P
	SD10-LM	27	-	24	M22×1.0P
	SD16-LM	40	-	31	M32×1.5P
	SD25-LM	55	-	37	M45×2.0P

ER 型扳手
ER Spanner



CODE NO	D	L	N
ER11A-BS	ER11	32.0	95
ER16A-BS	ER16	44.0	144
ER20A-BS	ER20	52.5	144



CODE NO	MODEL	A	B
ER25UM-BS	ER25	65	210
ER32UM-BS	ER32	75	250
ER40UM-BS	ER40	90	290
ER50UM-BS	ER50	110	350



CODE NO	MODEL	A	B
ER8M-BS	ER8	12.0	90
ER11M-BS	ER11	16.8	90
ER16M-BS	ER16	22.5	110
ER20M-BS	ER20	29.0	120
ER25M-BS	ER25	36.0	130



型号 Cat.No	SD6-BS	SD10-BS	SD16-BS	SD25-BS
专用螺帽	SD6-LM	SD10-LM	SD16-LM	SD25-LM

C 型扳手
C Spanner

型号 Cat.No	使用范围 Use scope	L	B	C	I
C20-BS	50-55	260	46	50-55	52
C32-BS	80-90	272	64	80-90	67
C42-BS	92-98	285	65	92-98	90



OZ 型扳手
OZ Spanner

型号 Cat.No	D1	规格 Taper
OZ25-BS	60	OZ25
OZ32-BS	76	OZ32



ES 警示鸣音光电寻边器
ES Electronic edge finder with led and beep



型号 Cat.No	柄径 Handle diameter	长度 Length	侧头 Gauge head
ES-20	20Φ	160	10Φ
ES-32	32Φ	160	10Φ

OP 光电式寻边器
OP Electronic edge finder with led and beep



型号 Cat.No	柄径 Handle diameter	长度 Length	侧头 Gauge head
OP-20	20Φ	160	10Φ
OP-32	32Φ	155	10Φ

ME 偏心式寻边器
ME Rotary edge finder



型号 Cat.No	柄径 Handle diameter	长度 Length	侧头 Gauge head	测径 Diameter
ME-610	10	65	±0.005	6Φ
ME-420	10	90	±0.002	4Φ 10Φ
ME-1020	10	90	±0.002	10Φ
ME-1020×3/8	3/8	90	±0.002	10Φ
ME-420×3/8	3/8	90	±0.002	40Φ 10Φ

HME 超硬膜偏心式寻边器（无磁）
HME Rotary edge finder



型号 Cat.No	柄径 Handle diameter	长度 Length	侧头 Gauge head
HME-420	4Φ10Φ	90	±0.002
HME-1020	10Φ	90	±0.002

ZDI-50 量表式Z轴设定器（有磁性）
Z-Axis zero presetter(magnetic)



型号 Cat.No	型式 Pattern	总高度 Gross altitude
ZDI-50A	量表式（内藏）	50
ZDI-100A	量表式（内藏）	100

ZOP-50 光电式Z轴设定器
ZOP-50 electro-optical type Z axis hypothesis



型号 Cat.No	型式 Pattern	总高度 Gross altitude
ZOP-50	光电式	50

测试棒
Test bar



型号 Cat.No
BT30-TA250
BT40-TA300
BT50-TA400

锁刀座
Toll locking fuxture



型号 Cat.No
BT30-S30
BT40-S40
BT50-S50
HSK63A-S63
HSK80A-S80

清洁棒
Spindle taper wiper



型号 Cat.No	重量 (KGS)
BT30-W30	0.05
BT40-W40	0.06
BT50-W50	0.13

万能夹具组
Omnipotent accessories group



型号 Cat.No
CA-12-58P
CA-16-58P
PA-1/2-58P
PA-5/8-58P

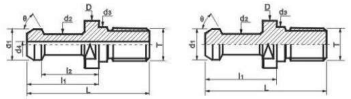
刀具管理车
Toll trolley



型号 Cat.No	每排数 Each row of number
BT30-TC-30	4×7=28
TC-35	4×7=28
BT40-TC-40	4×7=28
TC-45	4×6=24
BT50-TC-50	4×5=20

拉钉 Puller bolt



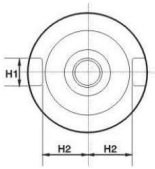


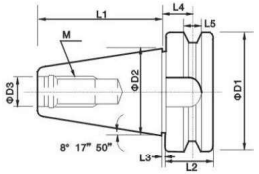
型号 Cat.No	D	d	D1	D2	L	E	G	Q	形式 Form	备注 Note
PS-1	15	23	17	10	60	35	M16	45	BT40-1标准型	MAS P40T-1
PS-2	15	23	17	10	60	35	M16	60	BT40-2标准型	MAS P40T-2
PS-3	19	31	21	14	70	40	M20	45	BT45-1标准型	MAS P45T-1
PS-4	19	31	21	14	70	40	M20	60	BT45-2标准型	MAS P45T-2
PS-5	23	38	25	17	85	45	M24	45	BT50-1标准型	MAS P50T-1
PS-6	23	38	25	17	85	45	M24	60	BT50-2标准型	MAS P50T-2
PS-16	11	16.5	12.5	7	43	23	M12	45	BT30-1标准型	MAS P30T-1
PS-17	11	16.5	12.5	7	43	23	M12	60	BT30-2标准型	MAS P30T-2
PS-18	13	20	28	8.5	48	28	M24	45	BT35-1标准型	MAS P35T-1
PS-19	13	20	28	8.5	48	28	M24	60	BT35-2标准型	MAS P35T-2
PS-5F	23	38	28	17	85	45	M24	45	BT50-1	PS-5端面研磨
PS-6F	23	38	28	17	85	45	M24	60	BT50-2	PS-6端面研磨
PS-50	23	38	28	17	110	70	M24	45	BT50	
PS-53	23	38	26.187	17	85.2	45.2	1-8UNC	45	CAT50U	
PS-63	23	38	26	17	85.2	45	1-8UNC	60	CAT50U	
PS-70	19	23	17	14	60	35	M16	45	BT40	
PS-72	15	23	16.281	10	57.15	32.15	5/8-11UNC	45	CAT40U	
PS-0	23	38	25	17	85	45	M24	90	BT50-90型	
PS-08-1	15	23	17	10	60	35	M16	90	BT40-90型	
PS-P	24	36	25	18	71	31	M24	90	BT50三井精机	
PS-P5-1	15	23	17	10	50	25	M16	90	BT40三井精机	
PS-P10	11	16	12.5	7	40	20	M12	90	BT30三井精机	
PS-U2	13.7	20	13	8.9	53	28	M24	60	BT35松浦机械	
PS-G4	23	38	25	17	85	45	M24	90	BT50马扎克	
PS-G5	15	23	17	10	54.6	29.6	M16	90	BT40马扎克	
PS-G45	28.956	37	25	20.828	65.2	25.2	M24	45	BT50马扎克端面研磨	PS-G41无孔
PS-G58	18.796	22	17	12.446	44.1	19.106	M16	45	BT40马扎克端面研磨	PS-G51无孔
PS-G60	18.796	21.8	16.281	12.446	41.256	16.256	5/8-11UNC	45	CAT40U 大隈	
PS-019	23	38	-	17	85	45.2	1-8UNC	90	CAT50U	
PS-047	23	38	25	17	85	45	M24	90	IT50森精机	
PS-P13	24	36	-	18	71	31	1-8UNC	90	CAT50U三井精机	
PS-H30	15	23	16.281	10	57.2	32.2	5/8-11UNC	45	CAT40U日立精机	
PS-B1	22	38	25	16	112	72	M24	60	BT50大隈	
PS-809	28	23	17	21	74	34	M24	75	BT50端面研磨	JIS-B6339-89
PS-805	19	23	17	14	54	29	M16	75	BT40端面研磨	JIS-B6339-89
PS-801	12	16.5	12.5	8	43	23.4	M12	75	BT30端面研磨	JIS-B6339-89
PS-J	14	20	13		45	23	M12	90	BT35北村机械	
PS-M10	14	16	12.5	10	40	22	M12	45	CAT30S牧野精机	
PS-R3	10	18	13	7	43	25	M12	45	BT35碌碌产业	
PS-C	21	39	25	15	105.1	63.1	M24	45	BT50日立精工	
PS-301	15	23	17	11	60	35	M16	60	BT40津上	
PS-Q3	16	16.5	12.5	2.5	31.8	11.8	M12	45	BT30	
PS-BR*1	7	10	6.5	4	28	17	M6	45	BT15兄弟工业	
PS-81	12	16.5	12.5	8	44	24	M12	R4	BT30CKD用	DIN69872-B-1988
PS-581	28	36	25	21	74	34	M24	75	IT50	DIN69872-A-1988
PS-302	19	23	17	14	54	26	M16	75	IT40	DIN69872-A-1988
PS-122	13	17	13	9	44	24	M12	75	IT30	
PS-S27	18.95	22.5	17	12.925	44.25	19.25	M16	45	BT15新日本工机	

- 中心通油型机床在使用无中心孔拉钉是，请使用端面研磨拉钉。
- 拉钉一般弄及PS-BR拉钉推荐使用BT15细杆刀柄。
- 需要附ID的拉钉时，请在型号后加ID表示例：PS-6-IDB。
- PS-814废除统一用PS-805。PS-P5废除统一用PS-P5-1。
- PS-08废除统一用PS-08-1。

- The center passes the oil-type engine bed when uses the non-center bore puller bolt, please do use the end surface to grind the puller bolt.
- When needs to attach ID the puller bolt,please at model add-on ID table demonstration:PS-6-IDB
- Puller bolt body makes and the PS-BR puller bolt recommendation uses BT15 thin pole bilt.
- PS-814 abolishes the unification to use PS-805.PS-P5 abolishes the unification to use PS-P5-1
- PS-08 abolishes the unification to use PS-08-1,

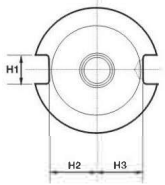
BT锥柄规格尺寸 BT bit holder specification size

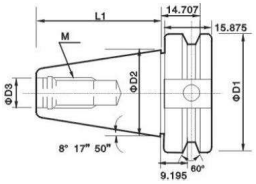




BT.NO	ΦD1	ΦD2	ΦD3	L1	L2	L3	L4	L5	H1	H2	M
BT30	46	31.75	12.5	48.4	20	3	13.6	8	16.1	16.3	M12
BT40	63	44.45	17	65.4	25		16.6	10		22.6	M16
BT50	100	69.85	25	101.8	35	2	23.2	15	25.7	35.4	M24

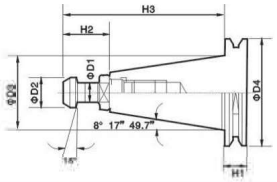
CAT锥柄规格尺寸 CAT bit holder specification size





CAT.NO	ΦD1	ΦD2	ΦD3	L1	H1	H2	H3	M
CAT40	63.5	44.45	16.28	68.25	16.28	22.6	25.02	5/8" -11UNC
CAT50	98.43	69.85	26.38	101.6	305.31	35.31	37.72	1" ' -8UNC

ISO锥柄规格尺寸 ISO bit holder specification size



ISO.NO	D1	D2	D3	D4	H1	H2	H3
ISO20	6	9	22.225	33	8	12	45.3
ISO25	7	10	25.4	37	8	16	55.7
ISO30	9	13	31.75	50	15.9	24	71.8