

SUNSTONE

Reliability Make Buying Simple

PRECISION TOOLING SYSTEMS

精密机床工具系统

CNC TOOL HOLDERS

COLLETS · ACCESSORIES



PRODUCT CATALOG

产品样册

PRECISION · RELIABILITY · CONSISTENCY

CNC TOOLING SOLUTIONS

ABOUT SUNSTONE

CORPORATE PROFILE · COMPANY OVERVIEW

SUNSTONE TOOLING SYSTEM

PRECISION · RELIABILITY · CONSISTENCY

We believe precision manufacturing requires not only high-performance machine tools, but also stable and reliable tooling systems. What customers truly need is more than a product—it is a simpler, smoother and more dependable purchasing experience, from product selection and communication to delivery.

Guided by this belief, SUNSTONE remains dedicated to precision machine tool clamping systems, with precision, reliability and consistency as our core standards. We maintain rigorous control over every stage of manufacturing and quality management, while continuously improving our product portfolio and supply capabilities to reliably meet customers' machining requirements.

We respond promptly to ensure every requirement is handled efficiently. We communicate clearly to make product selection and purchasing easier. We provide attentive service so that customers can move forward with confidence at every stage of our cooperation.

SUNSTONE provides professional, integrated precision machine tool clamping solutions. What we deliver is more than products—it is consistent quality, dependable partnership and long-term certainty.

MAKE BUYING SIMPLE

关于 SUNSTONE

精度 · 可靠性 · 一致性

我们相信，精密制造不仅需要高性能的机床，更需要稳定、可靠的夹持系统。客户真正需要的，不只是一个产品，而是从选型、沟通到交付都更加省心、顺畅和确定的采购体验。

基于这一理念，SUNSTONE始终专注于精密机床夹持系统，坚持以高精度、高可靠性和高一致性为核心标准。我们严格把控产品制造与质量管理的每一个环节，持续优化产品体系与供应能力，确保产品能够稳定匹配客户的加工需求。

我们坚持及时响应，让需求得到快速处理；坚持清晰沟通，让选型与采购更加高效；坚持周到服务，让客户在合作的每一个环节都更加安心。

SUNSTONE提供专业、系统的精密机床夹持解决方案。我们交付的不仅是产品，更是稳定的品质、可靠的合作和长期的确定性。

让您的采购更简单

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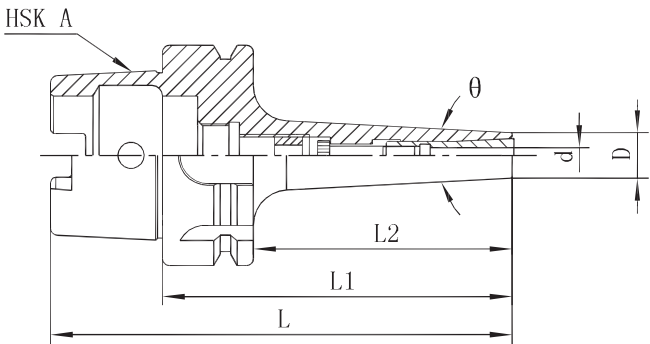
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SDC 夹头刀柄
COLLET CHUCK



- 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。
- The nutless rear-pull collet design provides high rigidity and excellent stability.
- Use a torque wrench and do not exceed the recommended torque by more than 30%; excessive torque may deform the tool holder.

订货编号		L	L1	L2	θ	D	d (夹持范围)	推荐扭力
HSK63A	SDC6-95	127	95	69	6°	14	3 ~ 6	5Nm
	SDC6-120	152	120	94	6°	14	3 ~ 6	5Nm
	SDC6-150	182	150	124	6°	14	3 ~ 6	5Nm
	SDC8-100	132	100	74	6°	22	3 ~ 8	7Nm
	SDC8-120	152	120	94	6°	22	3 ~ 8	7Nm
	SDC8-150	182	150	124	6°	22	3 ~ 8	7Nm
	SDC12-120	152	120	94	—	34	3 ~ 12	12Nm
HSK100A	SDC6-110	160	110	81	6°	14	3 ~ 6	5Nm
	SDC6-150	200	150	121	6°	14	3 ~ 6	5Nm
	SDC8-120	170	120	91	6°	22	3 ~ 8	7Nm
	SDC8-150	200	150	121	6°	22	3 ~ 8	7Nm
	SDC12-120	170	120	91	—	34	3 ~ 12	12Nm

HSK
DIN 69893

ISO

BT
MAS 403 BT

SK
DIN 69871

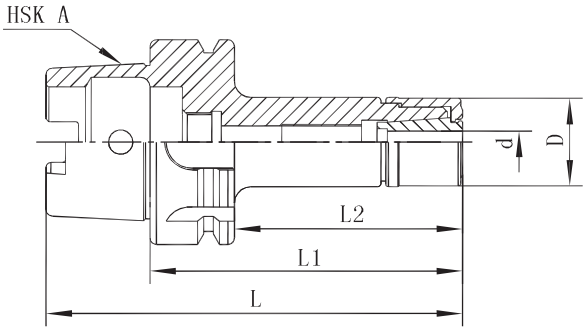
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

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GSK 夹头刀柄
COLLET CHUCK

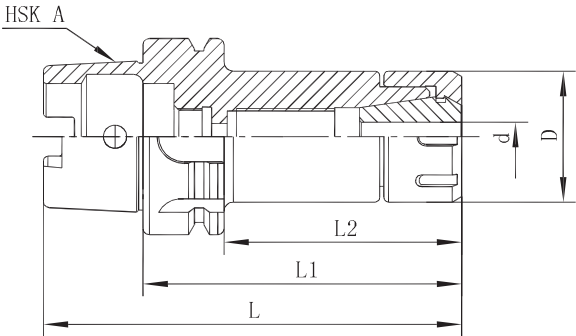


- 筒夹采用单边4° 设计，重复装夹精度更高
- 全圆螺帽设计，噪音低、风阻小，适合高速
- The collet features a 4° single-side taper for improved repeat clamping accuracy.
- The fully round nut minimizes noise and air resistance, making it suitable for high-speed machining.

mm

订货编号		L	L1	L2	D	d (夹持范围)
HSK63A	GSK06-70	102	70	44	19.5	2 ~ 6
	GSK06-100	132	100	74	19.5	2 ~ 6
	GSK06-130	162	130	104	19.5	2 ~ 6
	GSK10-70	102	70	44	27.5	3 ~ 10
	GSK10-100	132	100	74	27.5	3 ~ 10
	GSK10-130	162	130	104	27.5	3 ~ 10
	GSK10-160	192	160	134	27.5	3 ~ 10
	GSK13-70	102	70	44	36	3 ~ 13
	GSK13-100	132	100	74	36	3 ~ 13
	GSK13-130	162	130	104	36	3 ~ 13
	GSK13-160	192	160	134	36	3 ~ 13
	GSK16-70	102	70	44	40.5	3 ~ 16
	GSK16-100	132	100	74	40.5	3 ~ 16
	GSK16-130	162	130	104	40.5	3 ~ 16
	GSK16-160	192	160	134	40.5	3 ~ 16
	GSK20-70	102	70	44	48.5	3 ~ 20
	GSK20-100	132	100	74	48.5	3 ~ 20
	GSK20-130	162	130	104	48.5	3 ~ 20
	GSK20-160	192	160	134	48.5	3 ~ 20
	GSK25-100	132	100	74	55.5	6 ~ 25
	GSK25-130	162	130	104	55.5	6 ~ 25
HSK100A	GSK10-100	150	100	71	27.5	3 ~ 10
	GSK10-160	210	160	131	27.5	3 ~ 10
	GSK13-100	150	100	71	36	3 ~ 13
	GSK13-160	210	160	131	36	3 ~ 13
	GSK16-100	150	100	71	40.5	3 ~ 16
	GSK16-160	210	160	131	40.5	3 ~ 16
	GSK20-100	150	100	71	48.5	3 ~ 20
	GSK20-160	210	160	131	48.5	3 ~ 20
	GSK25-100	150	100	71	55.5	6 ~ 25
	GSK25-160	210	160	131	55.5	6 ~ 25

ER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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，接着锁固本体
- 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
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- When assembling, snap the collet into the nut first, then insert the cutting tool and tighten the nut onto the holder body.
- Insert the cutting tool past the full effective clamping length of the collet to prevent damage caused by improper tightening.

		mm				
订货编号		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

HSK
DIN 69893

ISO

BT
MAS 403 BT

SK
DIN 69871

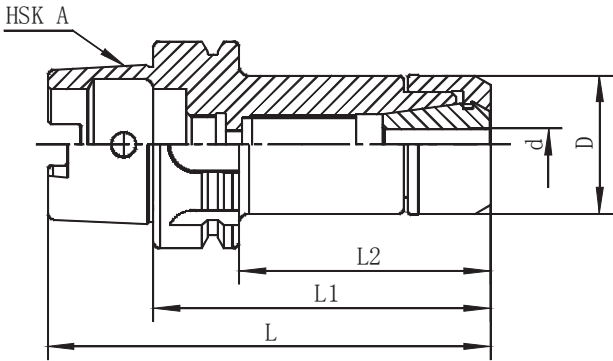
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

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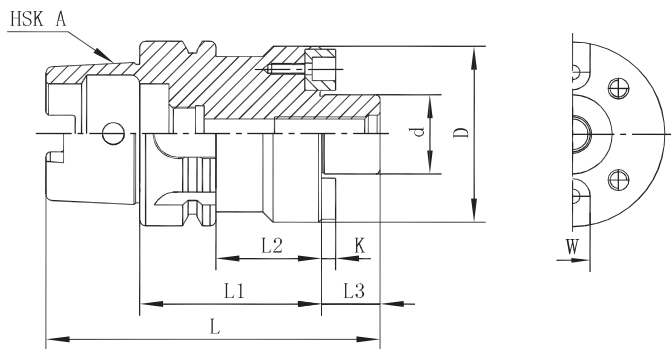
GER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- The concentric, fully round nut design reduces noise and air resistance, making it suitable for high-speed machining.

		mm				
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
HSK100A	GER16-100	150	100	71	27.5	1 ~ 10
	GER16-160	210	160	131	27.5	1 ~ 10
	GER20-100	150	100	71	30.5	1 ~ 13
	GER20-160	210	160	131	30.5	1 ~ 13
	GER25-100	150	100	71	35.5	3 ~ 16
	GER25-160	210	160	131	35.5	3 ~ 16
	GER32-100	150	100	71	48.5	3 ~ 20
	GER32-160	210	160	131	48.5	3 ~ 20

FMA 面铣刀柄
FACE MILL ARBOR



- 平面铣刀配合部位 (d) 轴系公差h6
- The shaft tolerance for the face-mill mounting diameter (d) is h6.

									mm
订货编号		L	L1	L2	L3	d	D	K	W
HSK63A	FMA25.4-50	102	50	24	20	25.4	50	4.52	9.52
	FMA25.4-100	152	100	74	20	25.4	50	4.52	9.52
	FMA31.75-60	114	60	34	22	31.75	60	6.7	12.7
	FMA31.75-100	154	100	74	22	31.75	60	6.7	12.7
	FMA38.1-60	117	60	34	25	38.1	75	8.87	15.87
HSK100A	FMA25.4-60	130	60	31	20	25.4	50	4.52	9.52
	FMA25.4-100	170	100	71	20	25.4	50	4.52	9.52
	FMA31.75-60	132	60	31	22	31.75	60	5.8	12.7
	FMA31.75-100	172	100	71	22	31.75	60	5.8	12.7
	FMA38.1-60	135	60	31	25	38.1	80	8.3	15.87

HSK
DIN 69893

延长杆

刀柄配件
HANDLE PARTS

FMB 面铣刀柄
FACE MILL ARBOR

HSK
DIN 69893

ISO

BT
MAS 403 BT

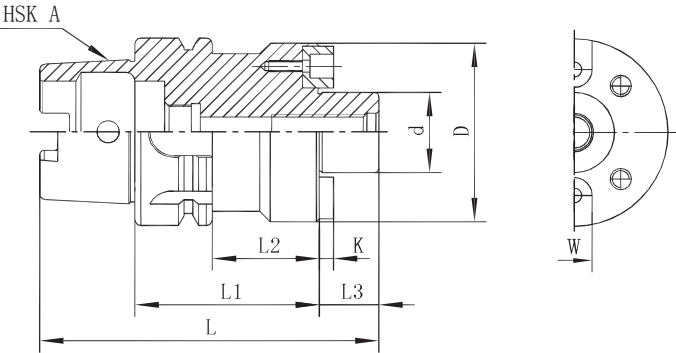
SK
DIN 69871

CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

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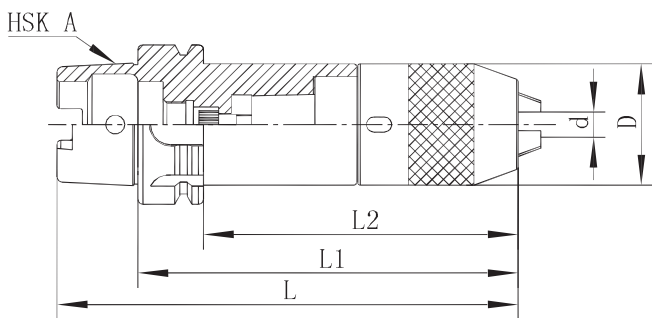


- 平面铣刀配合部位 (d) 轴系公差h6
- The shaft tolerance for the face-mill mounting diameter (d) is h6.

订货编号		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
HSK100A	FMB40-60	117	60	44	25	40	75	8.3	16
	FMB22-60	128	60	31	18	22	48	4.8	10
	FMB22-100	168	100	71	18	22	48	4.8	10
	FMB27-60	130	60	31	20	27	60	5.8	12
	FMB27-100	170	100	71	20	27	60	5.8	12
	FMB32-60	132	60	31	22	32	63	6.8	14
	FMB32-100	172	100	71	22	32	63	6.8	14
	FMB40-60	135	60	31	25	40	85	8.3	16

mm

APU 一体式钻夹头刀柄 KEYLESS DRILL CHUCK



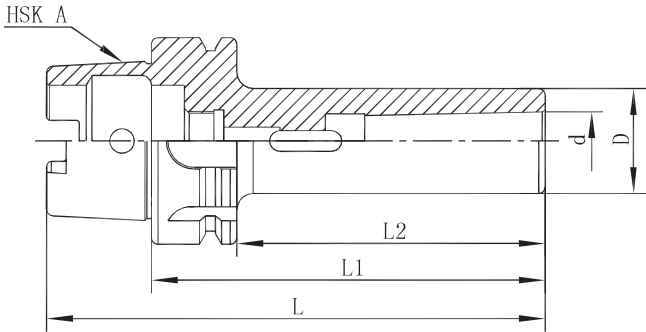
- 刀柄和夹头结合为一体，即使作重切削加工，夹头也不会脱落
- 操作容易、快速方便、安全性高、不易松脱
- The tool holder and chuck are integrated, preventing the chuck from detaching even during heavy-duty machining.
- Easy and quick to operate, with high safety and secure clamping.

					mm
订货编号		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

HSK
DIN 69893

刀柄配件
HANDLE PARTS

MTA 莫氏锥度刀柄
MORSE TAPER HOLDER



- 用于带莫氏锥度的钻头等刀具、装卸刀具时间短、容易操作
- Designed for drills and other tools with Morse taper shanks; quick tool changes and easy operation.

订货编号		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

mm

HSK

DIN 69893

ISO

BT

MAS 403 BT

SK

DIN 69871

CAT

ANSI/ASME

延长杆

EXTENSION BAR

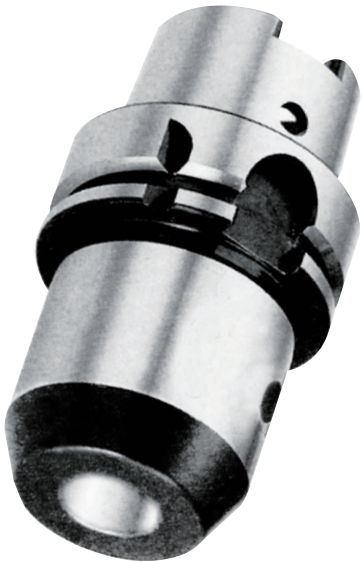
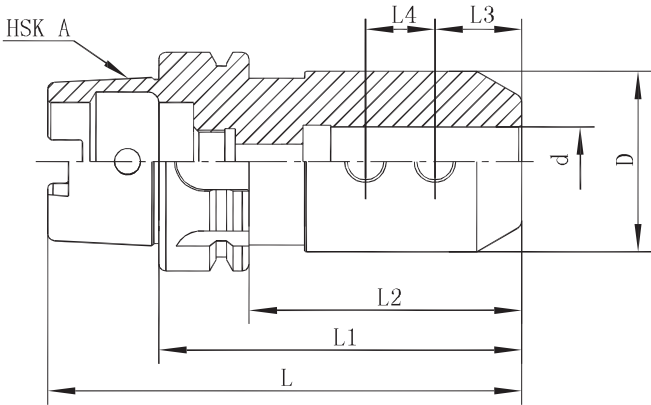
刀柄配件

HANDLE PARTS

参考资料

RESOURCES

SLN 侧固式刀柄
SIDE LOCK HOLDER



- 夹持孔径公差H5
- $\Phi 20$ 以内一只锁固螺钉， $\Phi 25$ 以上两只锁固螺钉
- Clamping bore tolerance: H5.
- One locking screw for diameters up to 20 mm; two locking screws for diameters of 25 mm and above.

订货编号		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	—	42	12
	SLN16-80	112	80	54	24	—	48	16
	SLN20-80	112	80	54	25	—	52	20
	SLN25-110	142	110	84	24	25	57	25
	SLN32-110	142	110	84	24	28	63	32
HSK100A	SLN06-80	130	80	51	18	—	25	6
	SLN08-80	130	80	51	18	—	28	8
	SLN10-80	130	80	51	20	—	35	10
	SLN12-80	130	80	51	22.5	—	42	12
	SLN16-100	150	100	71	24	—	48	16
	SLN20-100	150	100	71	25	—	52	20
	SLN25-120	170	120	91	24	25	57	25
	SLN32-120	170	120	91	24	28	63	32
	SLN40-120	170	120	91	30	32	72	40

HSK
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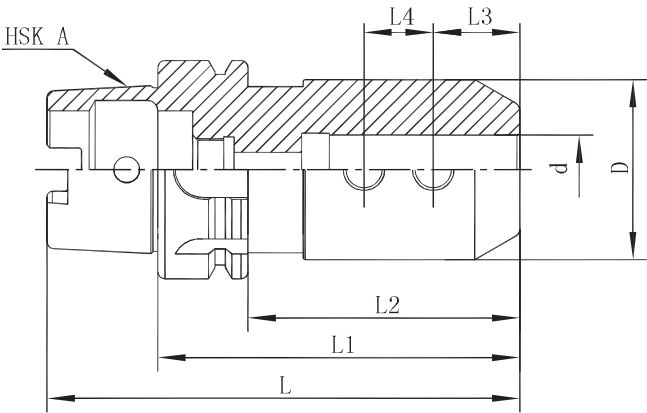
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

SLN 侧固式刀柄（JIS型）
SIDE LOCK HOLDER（JIS）

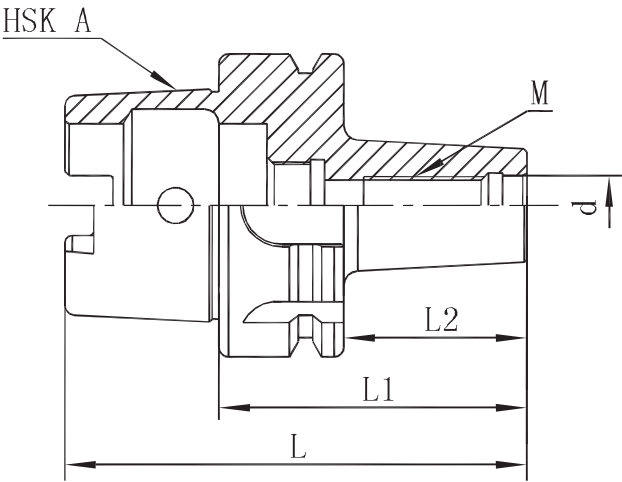


- 夹持孔径公差H5
- 不分孔径皆为两只锁固螺钉
- Clamping bore tolerance: H5.
- Two locking screws are used for all bore diameters.

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订货编号		L	L1	L2	L3	L4	D	d
HSK63A	SLN06-65	97	65	39	12	10	25	6
	SLN08-65	97	65	39	14	12	28	8
	SLN10-65	97	65	39	15	14	35	10
	SLN12-80	112	80	54	20	16	42	12
	SLN16-80	112	80	54	22	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
HSK100A	SLN06-80	130	80	51	12	10	25	6
	SLN08-80	130	80	51	14	12	28	8
	SLN10-80	130	80	51	15	14	35	10
	SLN12-80	130	80	51	20	16	42	12
	SLN16-100	150	100	71	22	18	48	16
	SLN20-100	150	100	71	25	20	52	20
	SLN25-120	170	120	91	24	25	57	25
	SLN32-120	170	120	91	24	28	63	32
	SLN40-120	170	120	91	30	32	72	40

LTM 螺纹锁固刀柄
SCREWED END MILL HOLDER



- 刀头的多种选择增大刀柄的使用范围，通孔利于减震、出水
- A wide selection of cutter heads expands the holder's application range; the through-hole supports vibration damping and coolant delivery.

订货编号		L	L1	L2	D	M
HSK63A	LTM6-60	92	60	34	13	M6 × 1.0P
	LTM8-60	92	60	34	15	M8 × 1.25P
	LTM10-60	92	60	34	19	M10 × 1.5P
	LTM12-70	102	70	44	24	M12 × 1.75P
	LTM16-80	112	80	54	29	M16 × 2.0P
HSK100A	LTM6-60	110	60	31	13	M6 × 1.0P
	LTM8-60	110	60	31	15	M8 × 1.25P
	LTM10-60	110	60	31	19	M10 × 1.5P
	LTM12-70	120	70	41	24	M12 × 1.75P
	LTM16-80	130	80	51	29	M16 × 2.0P

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延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

HSK 精镗头刀柄
 FINE BORING HEAD HOLDER

HSK
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ISO

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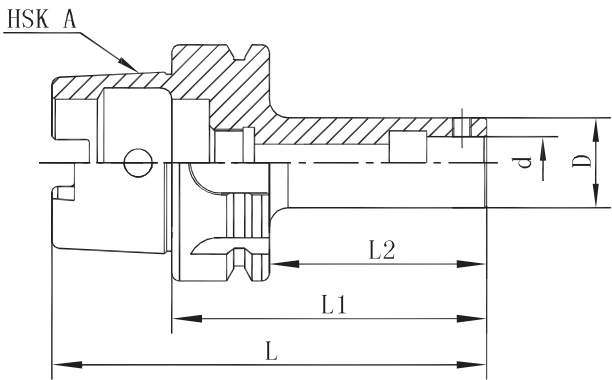
SK
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CAT
 ANSI/ASME

延长杆
 EXTENSION BAR

刀柄配件
 HANDLE PARTS

参考资料
 RESOURCES

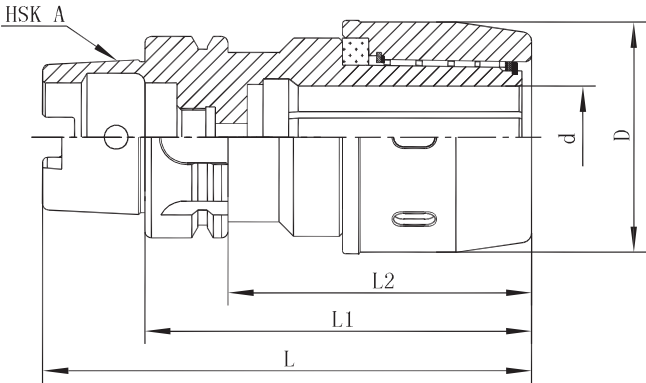


- 夹持孔径公差H6
- 固定螺钉30° 设计，锁紧时可将镗头向主轴方向拉引，使镗头的端面与刀杆完全贴合
- 只需使用六角扳手锁紧，操作简单、精确牢固
- Clamping bore tolerance: H6.
- The 30° locking-screw design pulls the boring head toward the spindle as it is tightened, ensuring full face contact between the boring head and the holder.
- Tightens with a hex wrench for simple operation, precise positioning, and secure clamping.

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订货编号		L	L1	L2	D	d
HSK63A	HCK1-80	112	80	54	19	11
	HCK2-90	122	90	64	23.5	14
	HCK3-100	132	100	74	31	18
	HCK4-90	122	90	64	39	22
	HCK5-80	112	80	54	50	28
HSK100A	HCK1-125	175	125	96	19	11
	HCK2-125	175	125	96	23.5	14
	HCK3-125	175	125	96	31	18
	HCK4-115	165	115	86	39	22
	HCK5-115	165	115	86	50	28
	HCK6-110	160	110	81	63	36

HLC 强力型刀柄
POWER MILLING CHUCK



- 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
- The six-groove clamping bore design prevents slippage and increases clamping force.
- The nut's uniform outer profile reduces air resistance, making it suitable for high-speed machining.

		mm				
订货编号		L	L1	L2	D	d (夹持范围)
HSK63A	HLC32-120	152	120	94	73	6 ~ 32
	HLC32-150	182	150	124	73	6 ~ 32
HSK100A	HLC32-120	170	120	91	73	6 ~ 32
	HLC32-165	215	165	136	73	6 ~ 32

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延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

毛坯型刀柄
BLANK HOLDER

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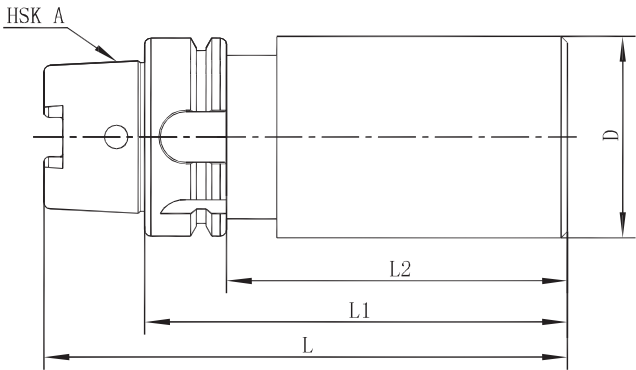
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ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

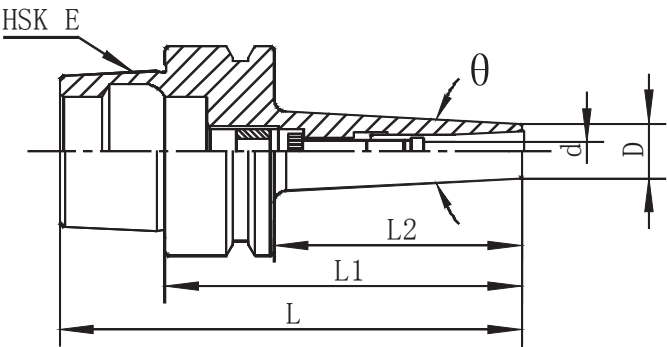
参考资料
RESOURCES



- 用于特殊制造
- 锥柄法兰槽硬化并精磨，圆柱部分未硬化
- Designed for custom applications.
- The taper-shank flange groove is hardened and precision-ground, while the cylindrical section remains unhardened.

mm				
订货编号	L	L1	L2	D
HSK63A	282	250	224	64
HSK100A	300	250	221	83

SDC 夹头刀柄
COLLET CHUCK



- 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
- The nutless rear-pull collet design provides high rigidity and excellent stability.
- Use a torque wrench and do not exceed the recommended torque by more than 30%; excessive torque may deform the tool holder.

订货编号		L	L1	L2	θ	D	d (夹持范围)
HSK40E	SDC6-70	90	70	50	6°	14	3 ~ 6
	SDC8-80	100	80	60	6°	22	3 ~ 8
HSK50E	SDC6-75	100	75	49	6°	14	3 ~ 6
	SDC8-80	105	80	54	6°	22	3 ~ 8

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ISO

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SK
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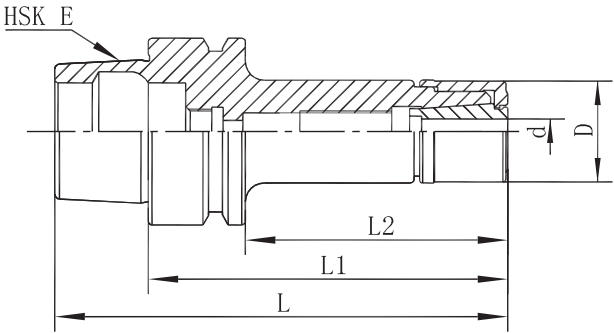
CAT
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延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

GSK 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- The concentric, fully round nut design reduces noise and air resistance, making it suitable for high-speed machining.

订货编号		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

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延长杆

EXTENSION BAR

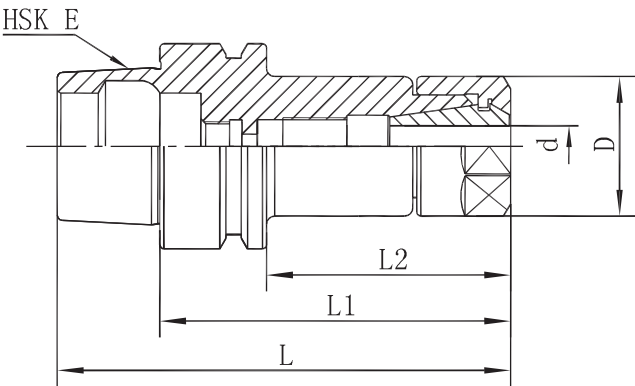
刀柄配件

HANDLE PARTS

参考资料

RESOURCES

ER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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，接着锁固本体
- 刀具置入筒夹内孔，必需超出筒夹有效夹持长度，避免不当锁固，造成损坏
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- When assembling, snap the collet into the nut first, then insert the cutting tool and tighten the nut onto the holder body.
- Insert the cutting tool past the full effective clamping length of the collet to prevent damage caused by improper tightening.

订货编号		L	L1	L2	D	d (夹持范围)
HSK40E	ER16-65	85	65	45	28	1 ~ 10
	ER20-65	85	65	45	34	1 ~ 13
	ER25-70	90	70	50	42	3 ~ 16
	ER32-70	90	70	50	50	3 ~ 20
HSK50E	ER16-70	95	70	44	28	1 ~ 10
	ER20-70	95	70	44	34	1 ~ 13
	ER25-70	95	70	44	42	3 ~ 16
	ER32-80	105	80	54	50	3 ~ 20

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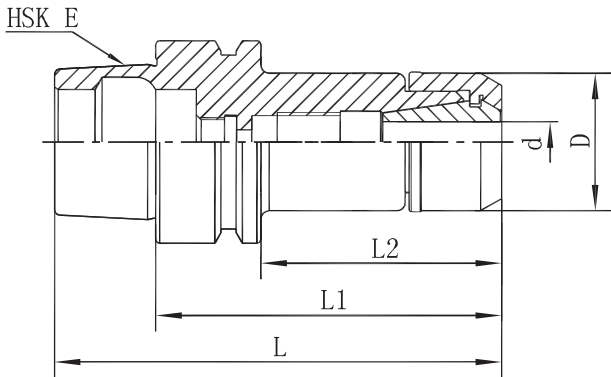
CAT
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延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

GER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- The concentric, fully round nut design reduces noise and air resistance, making it suitable for high-speed machining.

		mm				
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
	GER25-70	90	70	50	35.5	3 ~ 16
HSK50E	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

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DIN 69893

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SK
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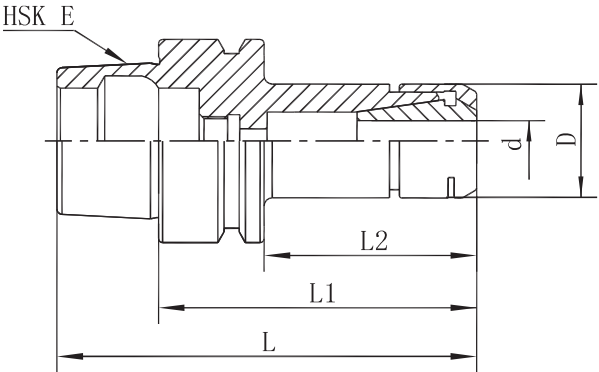
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

ER 高速小径夹头刀柄
HIGH SPEED COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.

订货编号		L	L1	L2	D	d (夹持范围)
HSK32E	ER16-50MS	66	50	30	22	1 ~ 10
	ER20-50MS	66	50	30	28	1 ~ 13
HSK40E	ER16-65MS	85	65	45	22	1 ~ 10
	ER20-65MS	85	65	45	28	1 ~ 13
HSK50E	ER16-70MS	95	70	44	22	1 ~ 10
	ER20-70MS	95	70	44	28	1 ~ 13

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EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

FMB 面铣刀柄
FACE MILL ARBOR

HSK
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ISO

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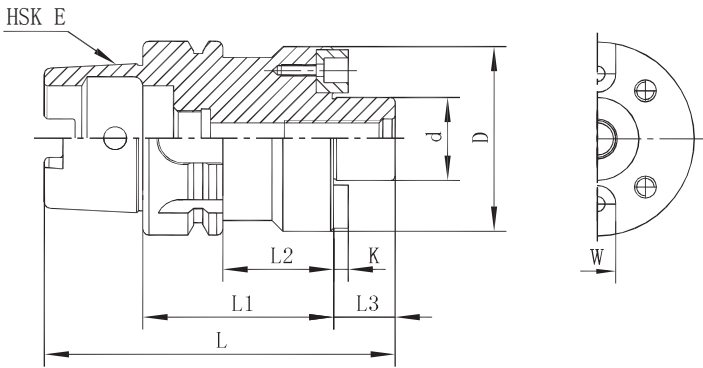
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ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

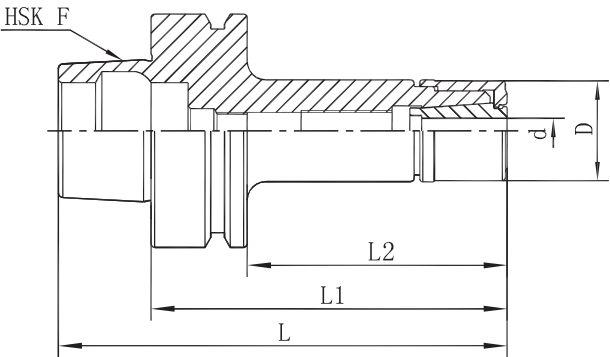


- 平面铣刀配合部位 (d) 轴系公差h6
- The shaft tolerance for the face-mill mounting diameter (d) is h6.

订货编号		L	L1	L2	L3	d	D	K	W
HSK40E	FMB16-60	97	60	40	17	16	32	3.8	8
	FMB22-60	98	60	40	18	22	48	4.8	10
HSK50E	FMB16-60	102	60	34	17	16	32	3.8	8
	FMB22-60	103	100	34	18	22	48	4.8	10
	FMB27-60	105	60	34	20	27	60	5.8	12

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GSK 夹头刀柄
COLLET CHUCK



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EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

- 筒夹采用单边4° 设计，重复装夹精度更高
- 全圆螺帽设计，噪音低、风阻小，适合高速
- The collet features a 4° single-side taper for improved repeat clamping accuracy.
- The fully round nut minimizes noise and air resistance, making it suitable for high-speed machining.

订货编号		L	L1	L2	D	d (夹持范围)
HSK63F	GSK10-70	95	70	44	27.5	3 ~ 10
	GSK10-100	125	100	74	27.5	3 ~ 10
	GSK13-70	95	70	44	36	3 ~ 13
	GSK13-100	125	100	74	36	3 ~ 13
	GSK16-70	95	70	44	40.5	3 ~ 16
	GSK16-100	125	100	74	40.5	3 ~ 16
	GSK20-80	105	80	54	48.5	3 ~ 20
	GSK20-100	125	100	74	48.5	3 ~ 20

ER 夹头刀柄
COLLET CHUCK

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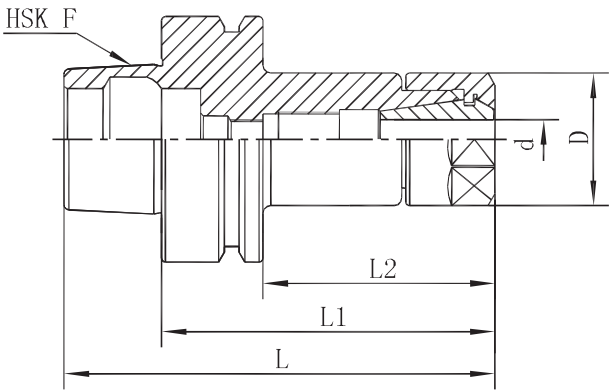
SK
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延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

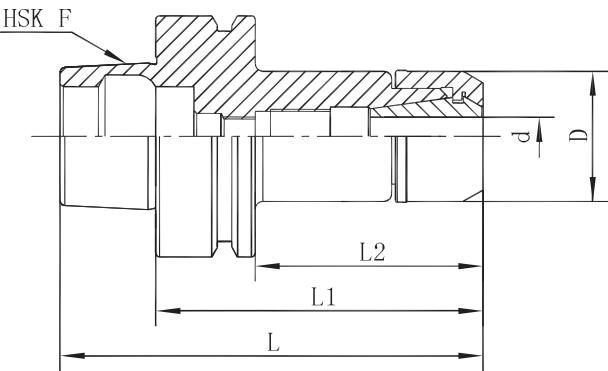


- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 装置时筒夹必须先置入螺帽，再装入刀具，接着锁紧本体
- 刀具置入筒夹内孔，必需超出筒夹有效夹持长度，避免不当锁紧，造成损坏
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- When assembling, snap the collet into the nut first, then insert the cutting tool and tighten the nut onto the holder body.
- Insert the cutting tool past the full effective clamping length of the collet to prevent damage caused by improper tightening.

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订货编号		L	L1	L2	D	d (夹持范围)
HSK63F	ER16-75	100	75	49	28	1 ~ 10
	ER16-100	125	100	74	28	1 ~ 10
	ER20-75	100	75	49	34	1 ~ 13
	ER20-100	125	100	74	34	1 ~ 13
	ER25-75	100	75	49	42	3 ~ 16
	ER25-100	125	100	74	42	3 ~ 16
	ER32-80	105	80	54	50	3 ~ 20
	ER32-100	125	100	74	50	3 ~ 20
	ER40-80	105	80	54	63	3 ~ 26
	ER40-100	125	100	74	63	3 ~ 26

GER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- The concentric, fully round nut design reduces noise and air resistance, making it suitable for high-speed machining.

订货编号		L	L1	L2	D	d (夹持范围)
HSK63F	GER16-75	100	75	49	27.5	1 ~ 10
	GER16-100	125	100	74	27.5	1 ~ 10
	GER20-75	100	75	49	30.5	1 ~ 13
	GER20-100	125	100	74	30.5	1 ~ 13
	GER25-75	100	75	49	35.5	3 ~ 16
	GER25-100	125	100	74	35.5	3 ~ 16
	GER32-80	105	80	54	48.5	3 ~ 20
	GER32-100	125	100	74	48.5	3 ~ 20

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SK
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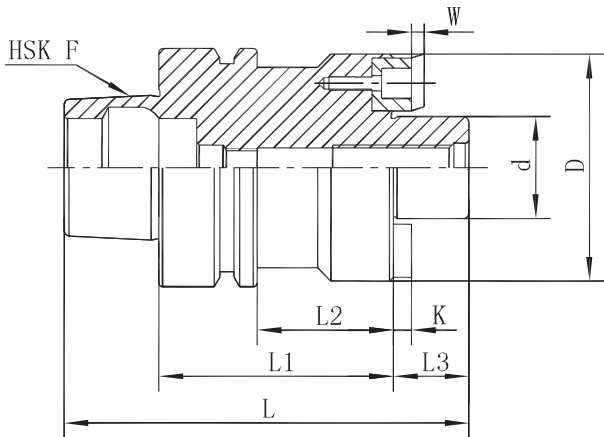
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

FMB 面铣刀柄
FACE MILL ARBOR



- 平面铣刀配合部位 (d) 轴系公差h6
- The shaft tolerance for the face-mill mounting diameter (d) is h6.

订货编号		L	L1	L2	L3	d	D	K	W
HSK63F	FMB16-50	92	50	24	17	16	32	3.8	8
	FMB16-100	142	100	74	17	16	32	3.8	8
	FMB22-50	93	50	24	18	22	48	4.8	10
	FMB22-100	143	100	74	18	22	48	4.8	10
	FMB27-60	95	60	44	20	27	60	5.8	12
	FMB27-100	145	100	74	20	27	60	5.8	12

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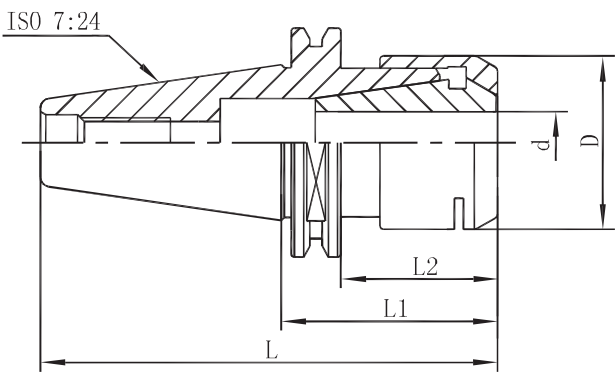
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

ER 高速小径夹头刀柄
HIGH SPEED COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.

订货编号		L	L1	L2	D	d (夹持范围)
ISO20	ER16-35MS	68.3	35	26.2	22	1 ~ 10
ISO25	ER16-35MS	74.7	35	26.2	22	1 ~ 10
	ER20-35MS	74.7	35	26.2	28	1 ~ 13
ISO30	ER16-60MS	107.8	60	40.9	22	1 ~ 10
	ER20-60MS	107.8	60	40.9	28	1 ~ 13
	ER25-42MS	89.8	42	22.9	35	3 ~ 16

DIN69893

HSK

ISO

MAS 403 BT

BT

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SK

ANSI/ASME

CAT

EXTENSION BAR

延长杆

HANDLE PARTS

刀柄配件

RESOURCES

参考资料

GER 夹头刀柄
COLLET CHUCK

HSK
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BT
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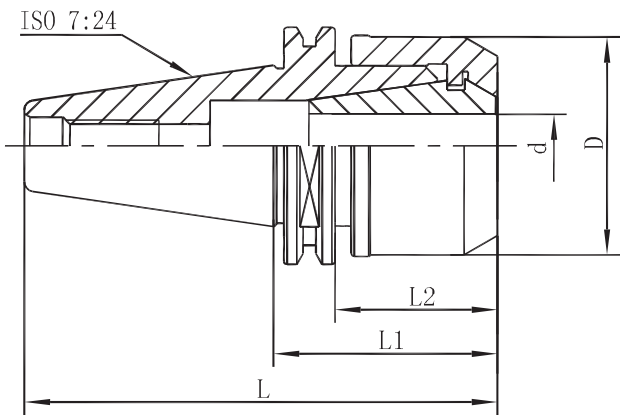
SK
DIN 69871

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ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
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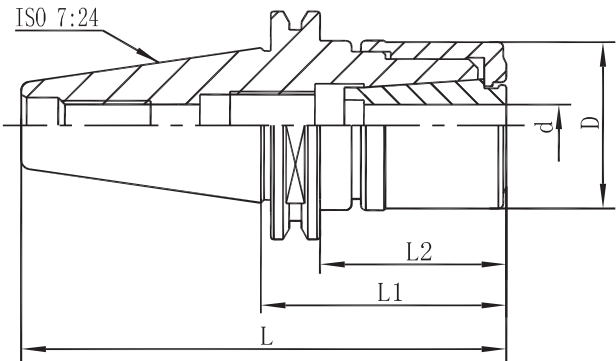


- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 全圆无偏心螺帽设计，噪音低、风阻小，适合高速
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- The concentric, fully round nut design reduces noise and air resistance, making it suitable for high-speed machining.

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订货编号		L	L1	L2	D	d (夹持范围)
ISO20	GER16-35	68.3	35	26.2	22	1 ~ 10
	GER20-35	74.7	35	26.2	28	1 ~ 13
ISO30	GER16-60	107.8	60	40.9	22	1 ~ 10
	GER20-60	107.8	60	40.9	28	1 ~ 13
	GER32-42	89.8	42	22.9	48	3 ~ 20
	GER32-60	107.8	60	40.9	48	3 ~ 20

GSK 夹头刀柄
COLLET CHUCK



- 筒夹采用单边4° 设计，重复装夹精度更高
- 全圆螺帽设计，噪音低、风阻小，适合高速
- The collet features a 4° single-side taper for improved repeat clamping accuracy.
- The fully round nut minimizes noise and air resistance, making it suitable for high-speed machining.

订货编号		L	L1	L2	D	d (夹持范围)
ISO20	GSK10-40	73.3	40	31.2	27.5	3 ~ 10
ISO25	GSK10-40	79.7	40	31.2	27.5	3 ~ 10
ISO30	GSK10-60	107.8	60	40.9	27.5	3 ~ 10
	GSK16-60	107.8	60	40.9	40.5	3 ~ 16

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ISO

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SK
DIN 69871

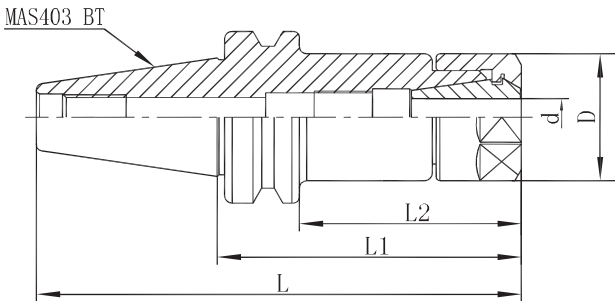
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

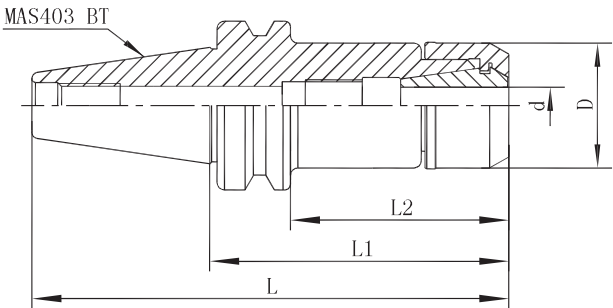
ER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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，接着锁固本体
- 刀具置入筒夹内孔，必需超出筒夹有效夹持长度，避免不当锁固，造成损坏
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- When assembling, snap the collet into the nut first, then insert the cutting tool and tighten the nut onto the holder body.
- Insert the cutting tool past the full effective clamping length of the collet to prevent damage caused by improper tightening.

订货编号		L	L1	L2	D	d (夹持范围)
NBT30	ER16-60	108.4	60	38	28	1 ~ 10
	ER20-60	108.4	60	38	34	1 ~ 13
	ER25-60	108.4	60	38	42	3 ~ 16
	ER32-60	108.4	60	38	50	3 ~ 20
	ER16-70	118.4	70	48	28	1 ~ 10
	ER20-70	118.4	70	48	34	1 ~ 13
	ER25-70	118.4	70	48	42	3 ~ 16
	ER32-70	118.4	70	48	50	3 ~ 20

GER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- The concentric, fully round nut design reduces noise and air resistance, making it suitable for high-speed machining.

订货编号		L	L1	L2	D	d (夹持范围)
NBT30	GER16-70	118.4	70	48	27.5	1 ~ 10
	GER20-70	118.4	70	48	30.5	1 ~ 13
	GER25-70	118.4	70	48	35.5	3 ~ 16
	GER32-70	118.4	70	48	48.5	3 ~ 20

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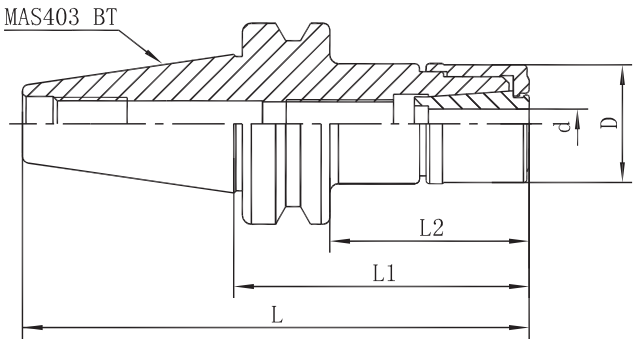
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延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

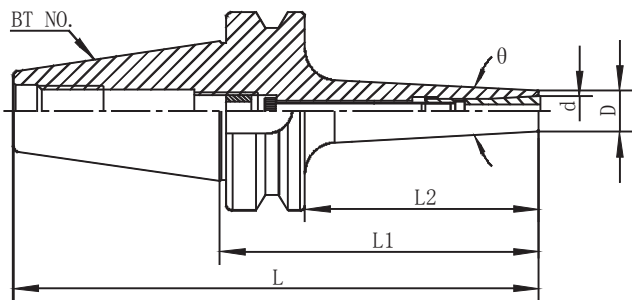


- 筒夹采用单边4° 设计，重复装夹精度更高
- 全圆螺帽设计，噪音低、风阻小，适合高速
- The collet features a 4° single-side taper for improved repeat clamping accuracy.
- The fully round nut minimizes noise and air resistance, making it suitable for high-speed machining.

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订货编号		L	L1	L2	D	d (夹持范围)
NBT30	GSK10-60	108.4	60	38	27.5	3 ~ 10
	GSK16-60	108.4	60	38	40.5	3 ~ 16

SDC 夹头刀柄
COLLET CHUCK



- 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
- The nutless rear-pull collet design provides high rigidity and excellent stability.
- Use a torque wrench and do not exceed the recommended torque by more than 30%; excessive torque may deform the tool holder.



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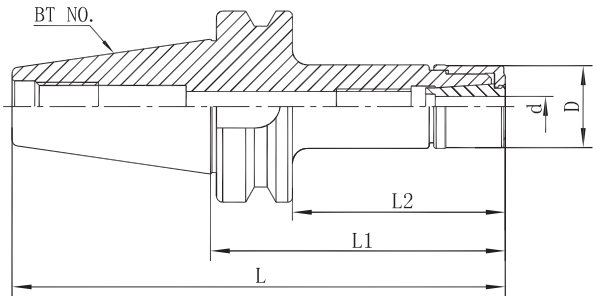
延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

订货编号		L	L1	L2	θ	D	d (夹持范围)
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	SDC06-100	165.4	100	73	6°	14	3~6
	SDC06-150	215.4	150	123	6°	14	3~6
	SDC08-100	165.4	100	73	6°	22	3~8
	SDC08-150	215.4	150	123	6°	22	3~8
	SDC12-100	165.4	100	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

GSK 夹头刀柄
COLLET CHUCK

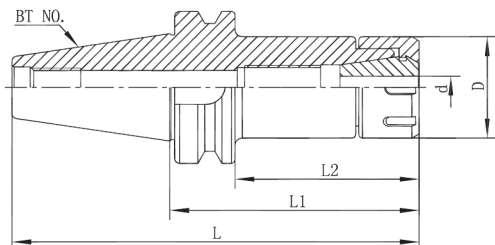


- 筒夹采用单边4° 设计，重复装夹精度更高
- 全圆螺帽设计，噪音低、风阻小，适合高速
- The collet features a 4° single-side taper for improved repeat clamping accuracy.
- The fully round nut minimizes noise and air resistance, making it suitable for high-speed machining.

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订货编号		L	L1	L2	D	d (夹持范围)
BT30	GSK06-60	108.4	60	38	19.5	2 ~ 6
	GSK06-90	138.4	90	68	19.5	2 ~ 6
	GSK10-60	108.4	60	38	27.5	3 ~ 10
	GSK10-90	138.4	90	68	27.5	3 ~ 10
	GSK13-60	108.4	60	38	35.5	3 ~ 13
	GSK13-90	138.4	90	68	35.5	3 ~ 13
	GSK16-60	108.4	60	38	40.5	3 ~ 16
	GSK16-90	138.4	90	68	40.5	3 ~ 16
BT40	GSK10-60	125.4	60	33	27.5	3 ~ 10
	GSK10-100	165.4	100	73	27.5	3 ~ 10
	GSK13-60	125.4	60	33	35.5	3 ~ 13
	GSK13-100	165.4	100	73	35.5	3 ~ 13
	GSK16-60	125.4	60	33	40.5	3 ~ 16
	GSK16-100	165.4	100	73	40.5	3 ~ 16
	GSK20-70	135.4	70	43	48.5	3 ~ 20
	GSK20-100	165.4	100	73	48.5	3 ~ 20
BT50	GSK10-100	201.8	100	62	27.5	3 ~ 10
	GSK10-150	251.8	150	112	27.5	3 ~ 10
	GSK13-100	201.8	100	62	35.5	3 ~ 13
	GSK13-150	251.8	150	112	35.5	3 ~ 13
	GSK16-100	201.8	100	62	40.5	3 ~ 16
	GSK16-150	251.8	150	112	40.5	3 ~ 16
	GSK20-100	201.8	100	62	48.5	3 ~ 20
	GSK20-150	251.8	150	112	48.5	3 ~ 20
	GSK25-100	201.8	100	62	55.5	3 ~ 25
	GSK25-150	251.8	150	112	55.5	3 ~ 25

ER 夹头刀柄 COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，并添加润滑脂，否则会造成螺纹损坏
- 装夹时筒夹必须先置入螺帽，再装入刀具，接着锁紧本体
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- When assembling, snap the collet into the nut first, then insert the cutting tool and tighten the nut onto the holder body.

订货编号		L	L1	L2	D	d (夹持范围)
BT30	ER11-70	118.4	70	48	19	1 ~ 7
	ER11-100	148.4	100	78	19	1 ~ 7
	ER16-70	118.4	70	48	28	1 ~ 10
	ER16-100	148.4	100	78	28	1 ~ 10
	ER20-70	118.4	70	48	34	1 ~ 13
	ER20-100	148.4	100	78	34	1 ~ 13
	ER25-70	118.4	70	48	42	3 ~ 16
	ER25-100	148.4	100	78	42	3 ~ 16
	ER32-70	118.4	70	48	50	3 ~ 20
BT40	ER32-100	148.4	100	78	50	3 ~ 20
	ER16-70	135.4	70	43	28	1 ~ 10
	ER16-100	165.4	100	73	28	1 ~ 10
	ER16-150	215.4	150	123	28	1 ~ 10
	ER20-70	135.4	70	43	34	1 ~ 13
	ER20-100	165.4	100	73	34	1 ~ 13
	ER20-150	215.4	150	123	34	1 ~ 13
	ER25-70	135.4	70	43	42	3 ~ 16
	ER25-100	165.4	100	73	42	3 ~ 16
	ER25-150	215.4	150	123	42	3 ~ 16
	ER32-70	135.4	70	43	50	3 ~ 20
	ER32-100	165.4	100	73	50	3 ~ 20
BT50	ER32-150	215.4	150	123	50	3 ~ 20
	ER40-80	145.4	80	53	63	3 ~ 26
	ER40-100	165.4	100	73	63	3 ~ 26
	ER16-100	201.8	100	62	28	1 ~ 10
	ER16-150	251.8	150	112	28	1 ~ 10
	ER20-100	201.8	100	62	34	1 ~ 13
	ER20-150	251.8	150	112	34	1 ~ 13
	ER25-100	201.8	100	62	42	3 ~ 16
	ER25-150	251.8	150	112	42	3 ~ 16
	ER32-100	201.8	100	62	50	3 ~ 20
	ER32-150	251.8	150	112	50	3 ~ 20
	ER40-100	201.8	100	62	63	3 ~ 26
	ER40-150	251.8	150	112	63	3 ~ 26

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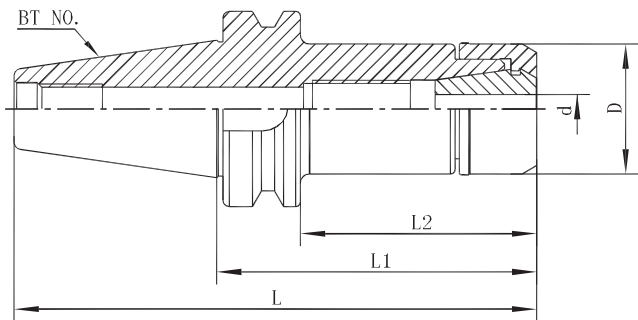
CAT
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延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
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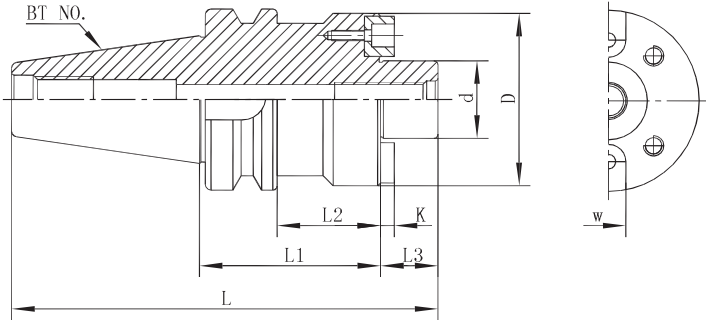
GER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- The concentric, fully round nut design reduces noise and air resistance, making it suitable for high-speed machining.

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订货编号		L	L1	L2	D	d (夹持范围)
BT30	GER16-70	118.4	70	48	27.5	1 ~ 10
	GER16-100	148.4	100	78	27.5	1 ~ 10
	GER20-70	118.4	70	48	30.5	1 ~ 13
	GER20-100	148.4	100	78	30.5	1 ~ 13
	GER25-70	118.4	70	48	35.5	3 ~ 16
	GER25-100	148.4	100	78	35.5	3 ~ 16
BT40	GER16-70	135.4	70	43	27.5	1 ~ 10
	GER16-100	165.4	100	73	27.5	1 ~ 10
	GER20-70	135.4	70	43	30.5	1 ~ 13
	GER20-100	165.4	100	73	30.5	1 ~ 13
	GER25-70	135.4	70	43	35.5	3 ~ 16
	GER25-100	165.4	100	73	35.5	3 ~ 16
	GER32-70	135.4	70	43	48.5	3 ~ 20
	GER32-100	165.4	100	73	48.5	3 ~ 20

FMA 面铣刀柄
FACE MILL ARBOR



- 平面铣刀配合部位（d）轴系公差h6
- The shaft tolerance for the face-mill mounting diameter (d) is h6.

订货编号		L	L1	L2	L3	d	D	K	W
BT30	FMA25.4-60	128.4	60	38	20	25.4	50	4.52	9.52
BT40	FMA25.4-60	145.4	60	33	20	25.4	50	4.52	9.52
	FMA31.75-60	147.4	60	33	22	31.75	60	6.7	12.7
	FMA38.1-60	150.4	60	33	25	38.1	73	8.87	15.87
BT50	FMA25.4-60	181.8	60	22	20	25.4	50	4.52	9.52
	FMA25.4-100	241.8	100	62	20	25.4	50	4.52	9.52
	FMA25.4-150	291.8	150	112	20	25.4	50	4.52	9.52
	FMA31.75-60	183.8	60	22	22	31.75	60	6.7	12.7
	FMA31.75-100	243.8	100	62	22	31.75	60	6.7	12.7
	FMA31.75-150	293.8	150	112	22	31.75	60	6.7	12.7
	FMA38.1-60	186.8	60	22	25	38.1	80	8.87	15.87
	FMA38.1-100	246.8	100	62	25	38.1	80	8.87	15.87
	FMA50.8-75	212.8	75	37	36	50.8	98	9.75	19.05
	FMA47.625-75	201.8	75	37	25	47.625	128.75	12.5	25.4

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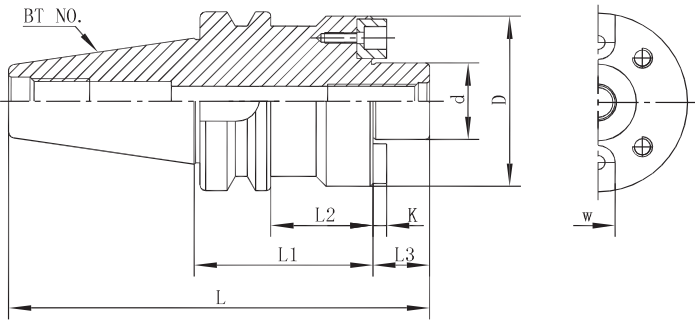
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
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FMB 面铣刀柄
FACE MILL ARBOR

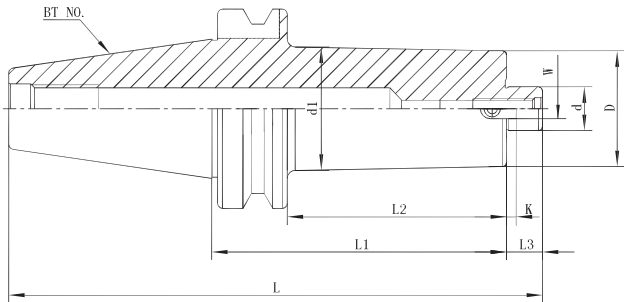


- 平面铣刀配合部位 (d) 轴系公差h6
- The shaft tolerance for the face-mill mounting diameter (d) is h6.

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订货编号		L	L1	L2	L3	d	D	K	W
BT30	FMB22-45	111.4	45	23	18	22	48	4.8	10
	FMB22-60	126.4	60	38	18	22	48	4.8	10
	FMB27-45	113.4	45	23	20	27	60	5.8	12
	FMB27-60	128.4	60	38	20	27	60	5.8	12
BT40	FMB22-45	128.4	45	18	18	22	48	4.8	10
	FMB22-60	143.4	60	33	18	22	48	4.8	10
	FMB22-100	183.4	100	73	18	22	48	4.8	10
	FMB27-60	145.4	60	33	20	27	60	5.8	12
	FMB32-60	147.4	60	33	22	32	63	6.8	14
	FMB40-60	150.4	60	33	25	40	73	8.3	16
BT50	FMB22-100	219.8	100	62	18	22	48	4.8	10
	FMB22-150	269.8	150	112	18	22	48	4.8	10
	FMB27-60	181.8	60	22	20	27	60	5.8	12
	FMB27-100	221.8	100	62	20	27	60	5.8	12
	FMB32-60	183.8	60	22	22	32	78	6.8	14
	FMB32-100	223.8	100	62	22	32	78	6.8	14
	FMB40-60	186.8	60	22	25	40	85	8.3	16
	FMB40-100	226.8	100	62	25	40	85	8.3	16
	FMB40F-75	202.8	75	37	26	40	98	8.3	16
	FMB60-75	201.8	75	37	25	60	128.75	12.5	25.4

FMB 加长面铣刀柄
FACE MILL ARBOR



- 平面铣刀配合部位（d）轴系公差h6
- The shaft tolerance for the face-mill mounting diameter (d) is h6.

订货编号		L	L1	L2	L3	d	d1	D	K	W
BT50	FMB22-100	219.8	100	62	18	22	61.5	58	4.8	10
	FMB22-150	269.8	150	112	18	22	61.5	58	4.8	10
	FMB22-200	319.8	200	162	18	22	61.5	58	4.8	10
	FMB22-250	369.8	250	212	18	22	61.5	58	4.8	10
	FMB22-300	419.8	300	262	18	22	61.5	58	4.8	10
	FMB22-350	469.8	350	312	18	22	61.5	58	4.8	10
	FMB22-400	519.8	400	362	18	22	61.5	58	4.8	10
	FMB22-450	569.8	450	412	18	22	61.5	58	4.8	10
	FMB22-500	619.8	500	462	18	22	61.5	58	4.8	10
	FMB22-550	669.8	550	512	18	22	61.5	58	4.8	10
	FMB22-600	719.8	600	562	18	22	61.5	58	4.8	10

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EXTENSION BAR

延长杆

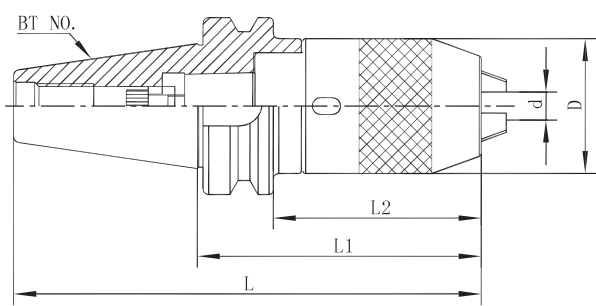
HANDLE PARTS

刀柄配件

RESOURCES

参考资料

APU 一体式钻夹头刀柄
KEYLESS DRILL CHUCK



- 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、夹持牢固
- The tool holder and chuck are integrated, preventing the chuck from detaching even during heavy-duty machining.
- Easy and quick to operate, with high safety and secure clamping.

		mm			
订货编号		L	L1	D	d (夹持范围)
BT30	APU08-80	128.4	80	38	1 ~ 8
	APU13-100	148.4	100	50	1 ~ 13
BT40	APU08-80	145.4	80	38	1 ~ 8
	APU13-110	175.4	110	50	1 ~ 13
	APU16-110	175.4	110	58	3 ~ 16
BT50	APU13-120	221.8	120	50	1 ~ 13
	APU13-180	281.8	180	50	1 ~ 13
	APU16-120	221.8	120	58	3 ~ 16
	APU16-180	281.8	180	58	3 ~ 16

HSK
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ISO

BT
MAS 403 BT

SK
DIN 69871

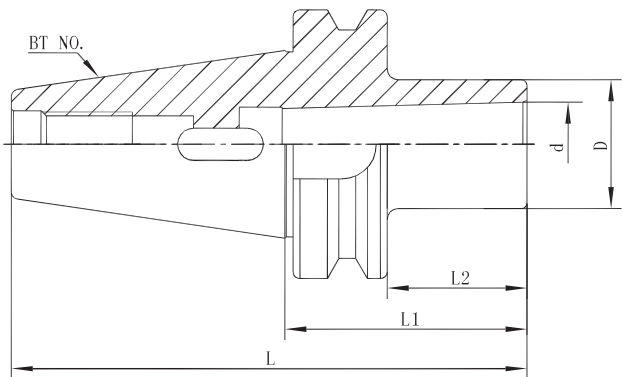
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

MTA 莫氏锥度刀柄
MORSE TAPER HOLDER



- 用于带莫氏锥度的钻头等刀具、装卸刀具时间短、容易操作
- Designed for drills and other tools with Morse taper shanks; quick tool changes and easy operation.

订货编号		L	L1	L2	D	d
BT30	MTA1-45	93.4	45	23	25	12.065
	MTA2-60	108.4	60	38	32	17.78
	MTA3-75	118.4	75	53	40	23.825
BT40	MTA1-45	110.4	45	18	25	12.065
	MTA1-120	185.4	120	93	25	12.065
	MTA2-60	125.4	60	33	32	17.78
	MTA2-120	185.4	120	93	32	17.78
	MTA3-75	140.4	75	48	40	23.825
	MTA3-135	200.4	135	108	40	23.825
	MTA4-95	160.4	95	68	50	31.267
	MTA4-165	230.4	165	138	50	31.267
BT50	MTA1-45	146.8	45	7	25	12.065
	MTA1-120	221.8	120	82	25	12.065
	MTA2-60	161.8	60	22	32	17.78
	MTA2-135	236.8	135	97	32	17.78
	MTA3-75	176.8	75	37	40	23.825
	MTA3-150	251.7	150	112	40	23.825
	MTA4-90	191.8	90	52	50	31.267
	MTA4-180	281.8	180	142	50	31.267
	MTA5-105	206.8	105	67	63	44.399

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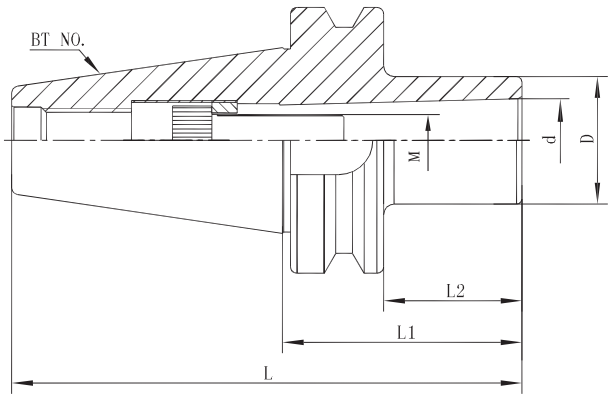
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

MTB 莫氏锥度刀柄
MORSE TAPER HOLDER



- 用于夹持莫氏锥度尾端有内螺纹的切削刀具或加长杆
- Designed to hold Morse-taper cutting tools or extension bars with a female thread at the shank end.

订货编号		L	L1	L2	M	D	d
BT40	MTB1-45	110.4	45	18	M6 × 1.0P	25	12.065
	MTB2-60	125.4	60	33	M10 × 1.5P	32	17.780
	MTB3-75	140.4	75	48	M12 × 1.75P	40	23.825
	MTB4-95	160.4	95	68	M16 × 2.0P	50	31.267
BT50	MTB1-45	146.8	45	7	M6 × 1.0P	25	12.065
	MTB2-60	161.8	60	22	M10 × 1.5P	32	17.780
	MTB2-135	236.8	135	97	M10 × 1.5P	32	17.780
	MTB3-75	176.8	75	37	M12 × 1.75P	40	23.825
	MTB3-150	251.7	150	112	M12 × 1.75P	40	23.825
	MTB4-90	191.8	90	52	M16 × 2.0P	50	31.267
	MTB4-180	281.8	180	142	M16 × 2.0P	50	31.267
	MTB5-105	206.8	105	67	M20 × 2.5P	70	44.399

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DIN 69871

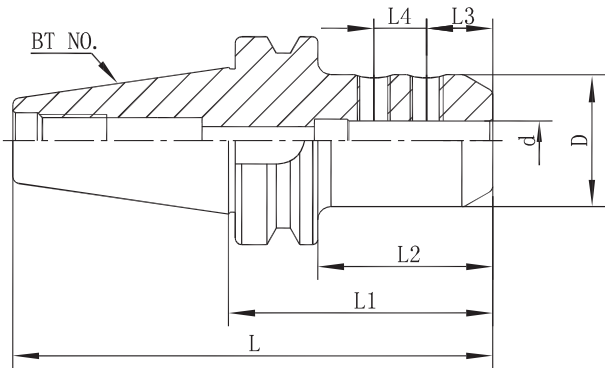
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

SLN 侧固式刀柄
SIDE LOCK HOLDER



- 夹持孔径公差H5
- $\Phi 20$ 以内一只锁紧螺钉， $\Phi 25$ 以上两只锁固螺钉
- Clamping bore tolerance: H5.
- One locking screw for diameters up to 20 mm; two locking screws for diameters of 25 mm and above.

订货编号		L	L1	L2	L3	L4	D	d
BT40	SLN06-50	115.4	50	23	18	—	25	6
	SLN08-50	115.4	50	23	18	—	28	8
	SLN10-63	128.4	63	36	20	—	35	10
	SLN12-63	128.4	63	36	22.5	—	42	12
	SLN16-63	128.4	63	36	24	—	48	16
	SLN20-63	128.4	63	36	25	—	52	20
	SLN25-100	165.4	100	73	24	25	57	25
	SLN32-100	165.4	100	73	24	28	63	32
BT50	SLN06-63	164.8	63	25	18	—	25	6
	SLN08-63	164.8	63	25	18	—	28	8
	SLN10-80	181.8	80	42	20	—	35	10
	SLN12-80	181.8	80	42	22.5	—	42	12
	SLN16-80	181.8	80	42	24	—	48	16
	SLN20-80	181.8	80	42	25	—	52	20
	SLN25-100	201.8	100	62	24	25	57	25
	SLN32-105	206.8	105	67	24	28	63	32
	SLN40-115	216.8	115	77	30	32	72	40
	SLN42-120	221.8	120	82	30	32	75	42

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ANSI/ASME

CAT

EXTENSION BAR

延长杆

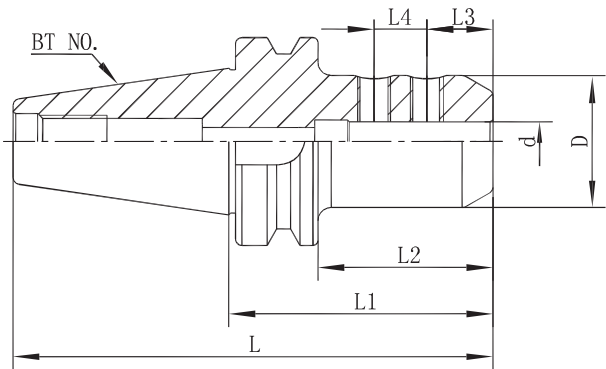
HANDLE PARTS

刀柄配件

RESOURCES

参考资料

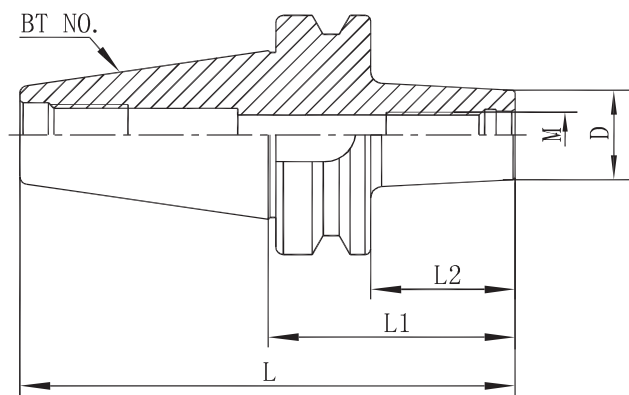
SLN 侧固式刀柄（JIS型）
SIDE LOCK HOLDER (JIS)



- 夹持孔径公差H5
- 不分孔径皆为两只锁紧螺钉
- Clamping bore tolerance: H5.
- Two locking screws are used for all bore diameters.

mm

订货编号		L	L1	L2	L3	L4	D	d
BT40	SLN06-75	140.4	75	48	12	10	25	6
	SLN08-75	140.4	75	48	14	12	28	8
	SLN10-75	140.4	75	48	15	14	35	10
	SLN12-75	140.4	75	48	20	16	42	12
	SLN16-75	140.4	75	48	22	18	48	16
	SLN20-90	155.4	90	63	25	20	52	20
	SLN25-100	165.4	100	73	24	25	57	25
	SLN32-100	165.4	100	73	24	28	63	32
	SLN40-105	170.4	105	78	30	32	74	40
BT50	SLN06-75	176.8	75	37	12	10	25	6
	SLN08-75	176.8	75	37	14	12	28	8
	SLN10-105	206.8	105	67	15	14	35	10
	SLN12-105	206.8	105	67	20	16	42	12
	SLN16-105	206.8	105	67	22	18	48	16
	SLN20-105	206.8	105	67	25	20	52	20
	SLN25-105	206.8	105	67	24	25	57	25
	SLN32-105	206.8	105	67	24	28	63	32
	SLN40-115	216.8	115	77	30	32	72	40
	SLN42-120	221.8	120	82	30	32	75	42
	SLN50-120	221.8	120	82	35	35	82	50
	SLN50.8-120	221.8	120	82	33.9	35.78	82	50.8



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EXTENSION BAR

刀柄配件
HANDLE PARTS

- | and coolant delivery. | | | | | | mm |
|-----------------------|-----------|-------|-----|----|----|-------------|
| 订货编号 | | L | L1 | L2 | D | M |
| BT30 | LTM6-45 | 93.4 | 60 | 38 | 13 | M6 × 1.0P |
| | LTM8-45 | 93.4 | 60 | 38 | 15 | M8 × 1.25P |
| | LTM10-45 | 93.4 | 60 | 38 | 19 | M10 × 1.5P |
| | LTM12-45 | 93.4 | 60 | 38 | 24 | M12 × 1.75P |
| | LTM16-45 | 93.4 | 60 | 38 | 29 | M16 × 2.0P |
| BT40 | LTM6-60 | 125.4 | 60 | 33 | 13 | M6 × 1.0P |
| | LTM6-100 | 165.4 | 100 | 73 | 13 | M6 × 1.0P |
| | LTM8-60 | 125.4 | 60 | 33 | 15 | M8 × 1.25P |
| | LTM8-100 | 165.4 | 100 | 73 | 15 | M8 × 1.25P |
| | LTM10-60 | 125.4 | 60 | 33 | 19 | M10 × 1.5P |
| | LTM10-100 | 165.4 | 100 | 73 | 19 | M10 × 1.5P |
| | LTM12-60 | 125.4 | 60 | 33 | 24 | M12 × 1.75P |
| | LTM12-100 | 165.4 | 100 | 73 | 24 | M12 × 1.75P |
| | LTM16-60 | 125.4 | 60 | 33 | 29 | M16 × 2.0P |
| | LTM16-100 | 165.4 | 100 | 73 | 29 | M16 × 2.0P |
| BT50 | LTM8-100 | 201.8 | 100 | 62 | 15 | M8 × 1.25P |
| | LTM10-100 | 201.8 | 100 | 62 | 19 | M10 × 1.5P |
| | LTM12-100 | 201.8 | 100 | 62 | 24 | M12 × 1.75P |
| | LTM16-100 | 201.8 | 100 | 62 | 29 | M16 × 2.0P |

HCK 精镗头刀柄
FINE BORING HEAD HOLDER

HSK
DIN 69893

ISO

BT
MAS 403 BT

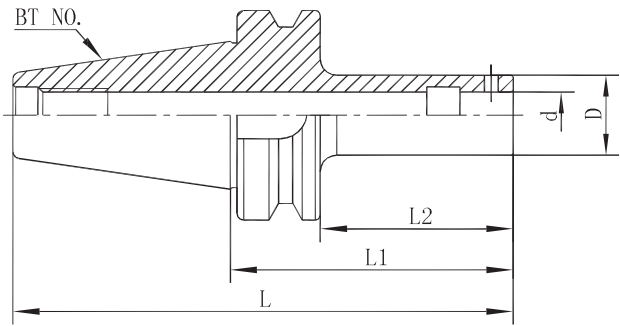
SK
DIN 69871

CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

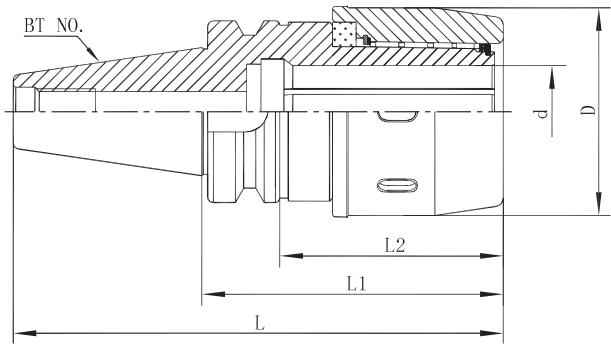
参考资料
RESOURCES



- 夹持孔径公差H6
- 固定螺丝30° 设计锁紧时，可将镗头向主轴方向拉引，使镗头的端面与刀杆完全贴合
- 只需使用六角扳手锁紧，操作简单、精确稳固
- Clamping bore tolerance: H6.
- The 30° locking-screw design pulls the boring head toward the spindle as it is tightened, ensuring full face contact between the boring head and the holder.
- Tightens with a hex wrench for simple operation, precise positioning, and secure clamping.

订货编号		L	L1	L2	D	d
BT40	HCK1-100	165.4	100	73	19	11
	HCK2-75	140.4	75	48	23.5	14
	HCK3-80	145.4	80	53	31	18
	HCK4-100	165.4	100	73	39	22
	HCK5-80	145.4	80	53	50	28
	HCK6-55	120.4	55	28	63	36
BT50	HCK1-125	226.8	125	87	19	11
	HCK2-135	236.8	135	97	23.5	14
	HCK3-140	241.8	140	102	31	18
	HCK4-160	261.8	160	122	39	22
	HCK5-165	266.8	165	127	50	28
	HCK6-155	256.8	155	117	63	36

HLC 强力型刀柄
POWER MILLING CHUCK



- 刀柄夹持孔6槽设计防止滑动增大加持力
- 滚针轴承设计，加持力大，用于重切屑
- The six-groove clamping bore design prevents slippage and increases clamping force.
- The needle-roller bearing design provides high clamping force for heavy-duty machining.

mm

订货编号		L	L1	L2	D	d (夹持范围)
BT40	MLC32-105	170.4	105	78	73	6 ~ 32
	MLC32-135	200.4	135	108	73	6 ~ 32
BT50	MLC32-110	211.8	110	72	73	6 ~ 32
	MLC32-150	251.8	150	112	73	6 ~ 32

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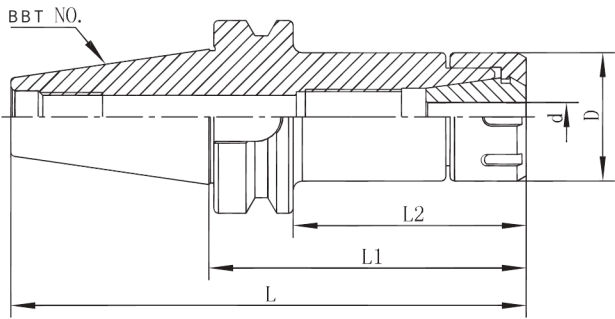
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

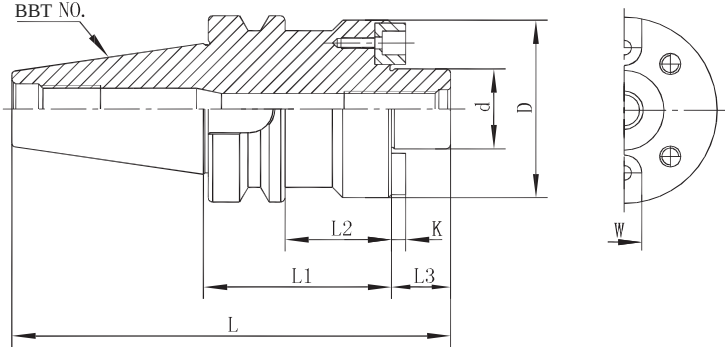
双面拘束 ER 夹头刀柄
COLLET CHUCK



- 双面拘束增加刚性减少震动，大幅提高加工能力和精度，延长刀具寿命
- The dual-contact design increases rigidity and reduces vibration, significantly improving machining capability and accuracy while extending tool life.

		mm				
订货编号		L	L1	L2	D	d (夹持范围)
BBT 30	ER11-70	118.4	70	48	19	1 ~ 7
	ER11-100	148.4	100	78	19	1 ~ 7
	ER16-70	118.4	70	48	28	1 ~ 10
	ER16-100	148.4	100	78	28	1 ~ 10
	ER20-70	118.4	70	48	34	1 ~ 13
	ER20-100	148.4	100	78	34	1 ~ 13
	ER25-70	118.4	70	48	42	3 ~ 16
	ER25-100	148.4	100	78	42	3 ~ 16
	ER32-70	118.4	70	48	50	3 ~ 20
	ER32-100	148.4	100	78	50	3 ~ 20
BBT 40	ER16-70	135.4	70	43	28	1 ~ 10
	ER16-100	165.4	100	73	28	1 ~ 10
	ER16-150	215.4	150	123	28	1 ~ 10
	ER20-70	135.4	70	43	34	1 ~ 13
	ER20-100	165.4	100	73	34	1 ~ 13
	ER20-150	215.4	150	123	34	1 ~ 13
	ER25-70	135.4	70	43	42	3 ~ 16
	ER25-100	165.4	100	73	42	3 ~ 16
	ER25-150	215.4	150	123	42	3 ~ 16
	ER32-70	135.4	70	43	50	3 ~ 20
	ER32-100	165.4	100	73	50	3 ~ 20
	ER32-150	215.4	150	123	50	3 ~ 20
	ER40-80	145.4	80	53	63	3 ~ 26
	ER40-100	165.4	100	73	63	3 ~ 26
BBT 50	ER16-100	201.8	100	62	28	1 ~ 10
	ER16-150	251.8	150	112	28	1 ~ 10
	ER20-100	201.8	100	62	34	1 ~ 13
	ER20-150	251.8	150	112	34	1 ~ 13
	ER25-100	201.8	100	62	42	3 ~ 16
	ER25-150	251.8	150	112	42	3 ~ 16
	ER32-100	201.8	100	62	50	3 ~ 20
	ER32-150	251.8	150	112	50	3 ~ 20
	ER40-100	201.8	100	62	63	3 ~ 26
	ER40-150	251.8	150	112	63	3 ~ 26

双面拘束 FMB 面铣刀柄
FACE MILL ARBOR



- 双面拘束增加刚性减少震动，大幅提高加工能力和精度，延长刀具寿命
- The dual-contact design increases rigidity and reduces vibration, significantly improving machining capability and accuracy while extending tool life.

订货编号		L	L1	L2	L3	d	D	K	W
BBT30	FMB22-45	111.4	45	23	18	22	48	4.8	10
	FMB22-60	126.4	60	38	18	22	48	4.8	10
	FMB27-45	113.4	45	23	20	27	60	5.8	12
	FMB27-60	128.4	60	38	20	27	60	5.8	12
BBT40	FMB22-45	128.4	45	18	18	22	48	4.8	10
	FMB22-60	143.4	60	33	18	22	48	4.8	10
	FMB22-100	183.4	100	73	18	22	48	4.8	10
	FMB27-60	145.4	60	33	20	27	60	5.8	12
	FMB32-60	147.4	60	33	22	32	63	6.8	14
	FMB40-60	150.4	60	33	25	40	73	8.3	16
BBT50	FMB22-100	219.8	100	62	18	22	48	4.8	10
	FMB22-150	269.8	150	112	18	22	48	4.8	10
	FMB27-60	181.8	60	22	20	27	60	5.8	12
	FMB27-100	221.8	100	62	20	27	60	5.8	12
	FMB32-60	183.8	60	22	22	32	78	6.8	14
	FMB32-100	223.8	100	62	22	32	78	6.8	14
	FMB40-60	186.8	60	22	25	40	85	8.3	16
	FMB40-100	226.8	100	62	25	40	85	8.3	16
	FMB40F-75	202.8	75	37	26	40	98	8.3	16
	FMB60-75	201.8	75	37	25	60	128.75	12.5	25.4

HSK
DIN 69893

ISO

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SK
DIN 69871

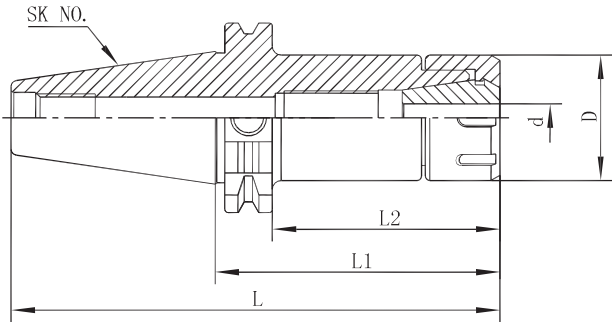
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

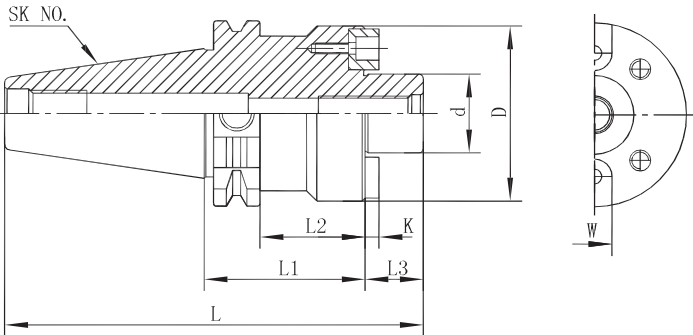
ER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- When assembling, snap the collet into the nut first, then insert the cutting tool and tighten the nut onto the holder body.

		mm				
订货编号		L	L1	L2	D	d (夹持范围)
SK40	ER16-70	138.4	70	50.9	28	1 ~ 10
	ER16-100	168.4	100	80.9	28	1 ~ 10
	ER16-160	228.4	160	140.9	28	1 ~ 10
	ER20-70	138.4	70	50.9	34	1 ~ 13
	ER20-100	168.4	100	80.9	34	1 ~ 13
	ER20-160	228.4	160	140.9	34	1 ~ 13
	ER25-70	138.4	70	50.9	42	3 ~ 16
	ER25-100	168.4	100	80.9	42	3 ~ 16
	ER25-160	228.4	160	140.9	42	3 ~ 16
	ER32-70	138.4	70	50.9	50	3 ~ 20
	ER32-100	168.4	100	80.9	50	3 ~ 20
	ER32-160	228.4	160	140.9	50	3 ~ 20
	ER40-80	148.4	80	60.9	63	3 ~ 26
	ER40-100	168.4	100	80.9	63	3 ~ 26
SK50	ER16-100	201.75	100	80.9	28	1 ~ 10
	ER16-135	236.75	135	115.9	28	1 ~ 10
	ER20-100	201.75	100	80.9	34	1 ~ 13
	ER20-135	236.75	135	115.9	34	1 ~ 13
	ER25-100	201.75	100	80.9	42	3 ~ 16
	ER25-135	236.75	135	115.9	42	3 ~ 16
	ER32-100	201.75	100	80.9	50	3 ~ 20
	ER32-135	236.75	135	115.9	50	3 ~ 20
	ER32-160	261.75	160	140.9	50	3 ~ 20
	ER40-80	181.75	80	60.9	63	3 ~ 26
	ER40-120	221.75	120	100.9	63	3 ~ 26

FMB 面铣刀柄
FACE MILL ARBOR



- 平面铣刀配合部位（d）轴系公差h6
- The shaft tolerance for the face-mill mounting diameter (d) is h6.

订货编号		L	L1	L2	L3	d	D	K	W
SK40	FMB22-40	126.4	40	20.9	18	22	48	4.8	10
	FMB22-100	186.4	100	80.9	18	22	48	4.8	10
	FMB27-60	148.4	60	40.9	20	27	60	5.8	12
	FMB32-60	150.4	60	40.9	22	32	63	6.8	14
	FMB40-60	153.4	60	40.9	25	40	73	8.3	16
SK50	FMB22-40	141.75	40	20.9	18	22	48	4.8	10
	FMB22-100	201.75	100	80.9	18	22	48	4.8	10
	FMB27-40	143.75	40	20.9	20	27	60	5.8	12
	FMB32-40	145.75	40	20.9	22	32	78	6.8	14
	FMB40-50	176.75	50	30.9	25	40	85	8.3	16

mm

DIN 69893

HSK

ISO

MAS-403 BT

BT

DIN 69871

SK

ANSI/ASME

CAT

EXTENSION BAR

延长杆

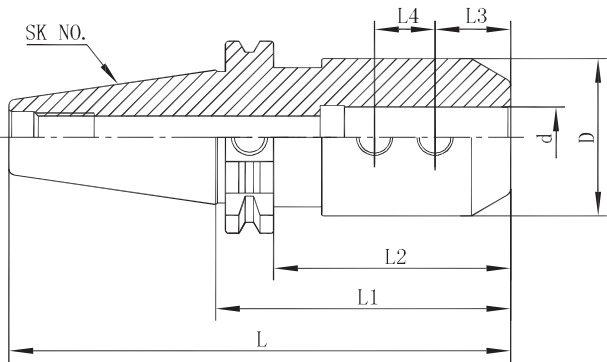
HANDLE PARTS

刀柄配件

RESOURCES

参考资料

SLN 侧固式刀柄
SIDE LOCK HOLDER

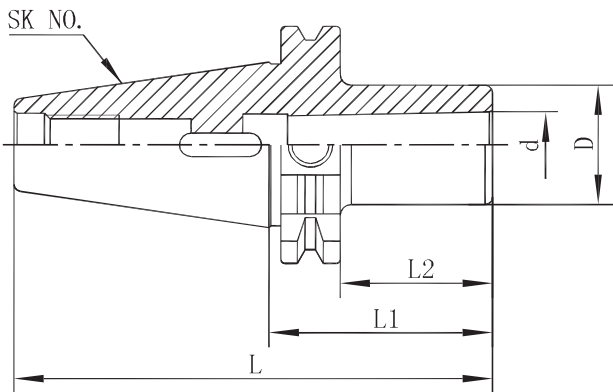


- 夹持孔径公差H5
- $\Phi 20$ 以内一只锁紧螺钉， $\Phi 25$ 以上两只锁紧螺钉
- Clamping bore tolerance: H5.
- One locking screw for diameters up to 20 mm; two locking screws for diameters of 25 mm and above.

mm

订货编号		L	L1	L2	L3	L4	D	d
SK40	SLN06-50	118.4	50	30.9	18	—	25	6
	SLN08-50	118.4	50	30.9	18	—	28	8
	SLN10-50	118.4	50	30.9	20	—	35	10
	SLN12-50	118.4	50	30.9	22.5	—	42	12
	SLN16-63	131.4	63	43.9	24	—	48	16
	SLN20-63	131.4	63	43.9	25	—	52	20
	SLN25-100	168.4	100	80.9	24	25	65	25
	SLN32-100	168.4	100	80.9	24	28	72	32
SK50	SLN06-63	164.75	63	43.9	18	—	25	6
	SLN08-63	164.75	63	43.9	18	—	28	8
	SLN10-63	164.75	63	43.9	20	—	35	10
	SLN12-63	164.75	63	43.9	22.5	—	42	12
	SLN16-63	164.75	63	43.9	24	—	48	16
	SLN20-63	164.75	63	43.9	25	—	52	20
	SLN25-100	201.75	100	80.9	24	25	65	25
	SLN32-100	201.75	100	80.9	24	28	72	32
	SLN40-120	221.75	120	100.9	30	32	90	40
	SLN42-120	221.75	120	100.9	30	32	90	42

MTA 莫氏锥度刀柄
MORSE TAPER HOLDER



- 用于带莫氏锥度的钻头刀具、装卸刀具时间短、容易操作
- Designed for drills and other tools with Morse taper shanks; quick tool changes and easy operation.

订货编号		L	L1	L2	D	d
SK40	MTA1-45	113.4	45	25.9	25	12.065
	MTA2-60	128.4	60	40.9	32	17.780
	MTA3-75	143.4	75	55.9	40	23.825
	MTA4-95	163.4	95	75.9	50	31.267
SK50	MTA1-45	146.75	45	25.9	25	12.065
	MTA2-60	161.75	60	40.9	32	17.780
	MTA3-75	176.75	75	55.9	40	23.825
	MTA4-90	191.75	90	70.9	50	31.267
	MTA5-105	206.75	105	85.9	63	44.399

DIN 69893

HSK

ISO

MAS 403 BT

BT

DIN 69871

SK

ANSI/ASME

CAT

EXTENSION BAR

延长杆

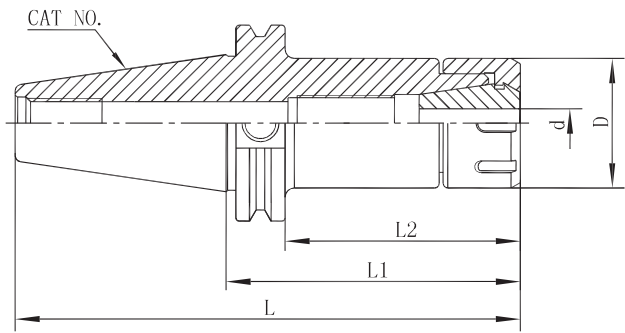
HANDLE PARTS

刀柄配件

参考材料

RESOURCES

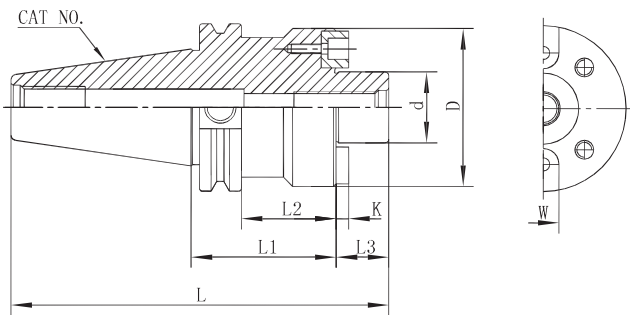
ER 夹头刀柄
COLLET CHUCK



- 装入筒夹和更换刀具，必须把螺帽和本体螺纹清理干净，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，接着锁固本体
- Before installing a collet or changing a cutting tool, clean the threads on both the nut and the holder body and apply grease; otherwise, the threads may be damaged.
- When assembling, snap the collet into the nut first, then insert the cutting tool and tighten the nut onto the holder body.

订货编号		L	L1	L2	D	d (夹持范围)
CAT40	ER16-2.76"	5.447"	2.76"	2.01"	1.102"	1/32 ~ 3/8
	ER16-4.0"	6.687"	4.0"	3.25"	1.102"	1/32 ~ 3/8
	ER20-2.76"	5.447"	2.76"	2.01"	1.338"	1/16 ~ 1/2
	ER20-4.0"	6.687"	4.0"	3.25"	1.338"	1/16 ~ 1/2
	ER25-2.76"	5.447"	2.76"	2.01"	1.653"	1/16 ~ 5/8
	ER25-4.0"	6.687"	4.0"	3.25"	1.653"	1/16 ~ 5/8
	ER32-2.76"	5.447"	2.76"	2.01"	1.968"	3/32 ~ 25/32
	ER32-4.0"	6.687"	4.0"	3.25"	1.968"	3/32 ~ 25/32
	ER40-4.0"	6.687"	4.0"	3.25"	2.48"	3/32 ~ 1
CAT50	ER16-4.0"	8.0"	4.0"	3.25"	1.102"	1/32 ~ 3/8
	ER20-4.0"	8.0"	4.0"	3.25"	1.338"	1/16 ~ 1/2
	ER25-4.0"	8.0"	4.0"	3.25"	1.653"	1/16 ~ 5/8
	ER32-4.0"	8.0"	4.0"	3.25"	1.968"	3/32 ~ 25/32
	ER40-4.0"	8.0"	4.0"	3.25"	2.48"	3/32 ~ 1

FMA 面铣刀柄
FACE MILL ARBOR



- 平面铣刀配合部位（d）轴系公差h6
- The shaft tolerance for the face-mill mounting diameter (d) is h6.

订货编号		L	L1	L2	L3	d	D	K	W
CAT40	FMA1" -1.75"	4.437"	1.75"	3.867"	0.787"	1"	2.362"	0.178"	0.374"
	FMA1-1/4" -2.0"	4.687"	2.0"	4.117"	0.866"	1.25"	2.756"	0.264"	0.5"
	FMA1-1/2" -2.0"	4.687"	2.0"	4.117"	1"	1.5"	3.346"	0.349"	0.626"
CAT50	FMA1" -1.75"	5.75"	1.75"	5"	0.787"	1"	2.362"	0.178"	0.374"
	FMA1" -4.0"	8"	4.0"	7.25"	0.787"	1"	2.362"	0.178"	0.374"
	FMA1" -6.0"	10"	6.0"	9.25"	0.787"	1"	2.362"	0.178"	0.374"
	FMA1-1/4" -1.75"	5.75"	1.75"	5"	0.866"	1.25"	2.756"	0.264"	0.5"
	FMA1-1/4" -4.0"	8"	4.0"	7.25"	0.866"	1.25"	2.756"	0.264"	0.5"
	FMA1-1/4" -6.0"	10"	6.0"	9.25"	0.866"	1.25"	2.756"	0.264"	0.5"
	FMA1-1/2" -2.0"	6"	2.0"	5.25"	1"	1.5"	3.346"	0.349"	0.626"
	FMA1-1/2" -4.0"	8"	4.0"	7.25"	1"	1.5"	3.346"	0.349"	0.626"
	FMA2" -3.0"	7"	3.0"	6.25"	1"	2"	3.74"	0.384"	0.75"
	FMA1-7/8" -3.0"	7"	3.0"	6.25"	1"	1.875"	5.26"	0.49"	1"

DIN 69893

HSK

ISO

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SK

ANSI/ASME

CAT

EXTENSION BAR

延长杆

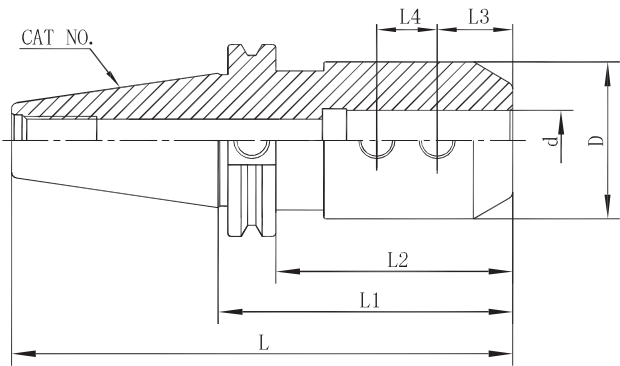
HANDLE PARTS

刀柄配件

RESOURCES

参考资料

SLN 侧固式刀柄
SIDE LOCK HOLDER

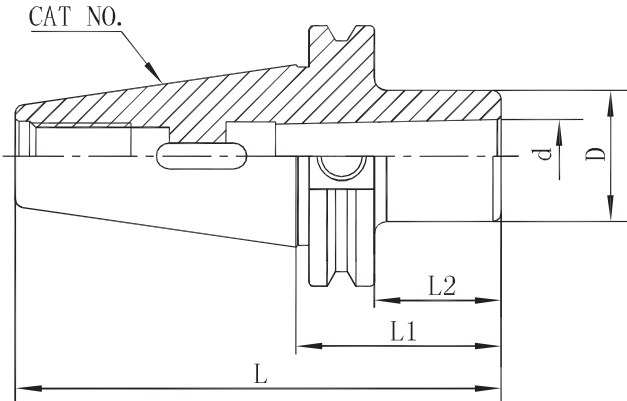


- 夹持孔径公差H5
- 3/4" 以内一只锁紧螺钉，7/8" 以上两只锁紧螺钉
- Clamping bore tolerance: H5.
- One locking screw for diameters up to 3/4 in.; two locking screws for diameters of 7/8 in. and above.

in

订货编号		L	L1	L2	L3	L4	D	d
CAT40	SLN1/4" -3.0"	5.687"	3.0"	2.25"	0.63"	—	0.78"	1/4"
	SLN5/16" -3.0"	5.687"	3.0"	2.25"	0.63"	—	0.88"	5/16"
	SLN3/8" -3.0"	5.687"	3.0"	2.25"	0.781"	—	1"	3/8"
	SLN1/2" -3.0"	5.687"	3.0"	2.25"	0.875"	—	1.25"	1/2"
	SLN5/8" -3.0"	5.687"	3.0"	2.25"	0.937"	—	1.5"	5/8"
	SLN3/4" -3.5"	6.187"	3.5"	2.75"	1"	—	1.75"	3/4"
	SLN7/8" -3.5"	6.187"	3.5"	2.75"	1.063"	0.875"	1.88"	7/8"
	SLN1" -4.0"	6.687"	4.0"	3.25"	1.125"	1"	2"	1"
	SLN1-1/4" -4.6"	7.287"	4.6"	3.85"	1.125"	1"	2.5"	1-1/4"
CAT50	SLN1/4" -4.0"	8.0"	4.0"	3.25"	0.63"	—	0.78"	1/4"
	SLN5/16" -4.0"	8.0"	4.0"	3.25"	0.63"	—	0.88"	5/16"
	SLN3/8" -4.0"	8.0"	4.0"	3.25"	0.781"	—	1"	3/8"
	SLN1/2" -4.0"	8.0"	4.0"	3.25"	0.875"	—	1.25"	1/2"
	SLN5/8" -4.0"	8.0"	4.0"	3.25"	0.937"	—	1.5"	5/8"
	SLN3/4" -4.0"	8.0"	4.0"	3.25"	1"	—	1.75"	3/4"
	SLN7/8" -4.0"	8.0"	4.0"	3.25"	1.063"	0.875"	1.88"	7/8"
	SLN1" -4.0"	8.0"	4.0"	3.25"	1.125"	1"	2"	1"
	SLN1-1/4" -4.6"	8.6"	4.6"	3.85"	1.125"	1"	2.5"	1-1/4"
	SLN1-1/2" -4.6"	8.6"	4.6"	3.85"	1.125"	1"	3.0"	1-1/2"
	SLN2" -6.0"	10"	6.0"	5.25"	1.335"	1.41"	3.75"	2"

MTA 莫氏锥度刀柄
MORSE TAPER HOLDER



- 用于带莫氏锥度的钻头刀具、装卸刀具时间短、容易操作
- Designed for drills and other tools with Morse taper shanks; quick tool changes and easy operation.

in

订货编号		L	L1	L2	D	d
CAT40	MTA1-1.6"	4.287"	1.6"	0.85"	1"	0.475"
	MTA2-2.0"	4.687"	2.0"	1.25"	1.25"	0.7"
	MTA3-2.75"	5.437"	2.75"	2"	1.55"	0.938"
	MTA4-3.75"	6.437"	3.75"	3"	1.75"	1.23"
CAT50	MTA1-2.0"	6.0"	2.0"	1.25"	1"	0.475"
	MTA2-2.0"	6.0"	2.0"	1.25"	1.25"	0.7"
	MTA3-2.75"	6.75"	2.75"	2"	1.55"	0.938"
	MTA4-3.75"	7.75"	3.75"	3"	1.75"	1.23"
	MTA5-4.1"	8.1"	4.1"	3.35"	2.48"	1.748"

DIN 69893

HSK

ISO

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SK

ANSI/ASME

CAT

EXTENSION BAR

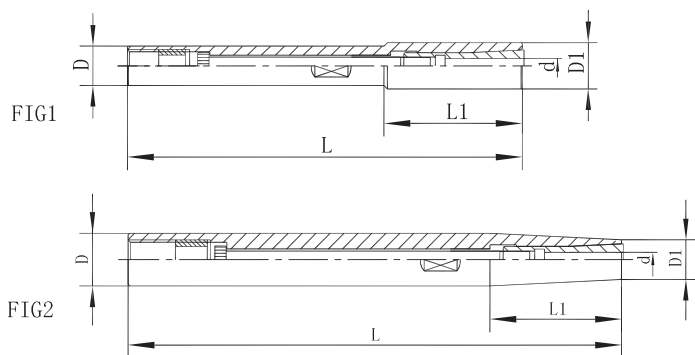
延长杆

HANDLE PARTS

刀柄配件

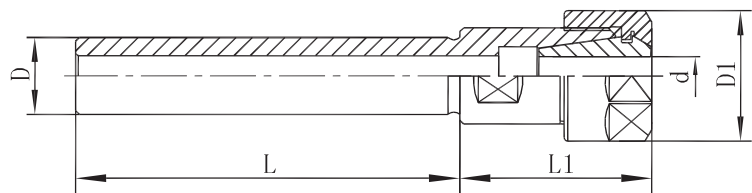
RESOURCES

参考资料



							mm
订货编号		L	L1	D	D1	d (夹持范围)	FIG
ST12	SDC6-120	120	42	12	14	3~6	1
	SDC6-150	150	42	12	14	3~6	1
ST16	SDC6-100	100	30	16	14	3~6	2
	SDC6-150	150	40	16	14	3~6	2
ST20	SDC6-150	150	40	20	14	3~6	2
	SDC6-200	200	70	20	14	3~6	2
	SDC8-100	100	20	20	19	3~8	2
	SDC8-150	150	30	20	19	3~8	2
	SDC8-200	200	47	20	19	3~8	2
ST25	SDC6-250	250	115	25	14	3~6	2
	SDC8-200	200	70	25	19	3~8	2
	SDC8-250	250	115	25	19	3~8	2
ST32	SDC6-250	250	115	32	14	3~6	2
	SDC12-300	300	70	32	28	4~12	2

ER 延长杆
EXTENSION BAR



订货编号		L	L1	D	D1	d (夹持范围)
C10	ER8-100	100	24	10	14	1 ~ 5
C12	ER8-150	150	24	12	14	1 ~ 5
C16	ER11-100	100	26.5	16	19	1 ~ 7
C16	ER16-100	100	35	16	28	1 ~ 10
	ER16-150	150	35	16	28	1 ~ 10
	ER16-200	200	35	16	28	1 ~ 10
	ER20-100	100	40	16	34	1 ~ 13
	ER20-150	150	40	16	34	1 ~ 13
C20	ER16-100	100	35	20	28	1 ~ 10
	ER16-150	150	35	20	28	1 ~ 10
	ER16-200	200	35	20	28	1 ~ 10
	ER20-100	100	40	20	34	1 ~ 13
	ER20-150	150	40	20	34	1 ~ 13
	ER20-200	200	40	20	34	1 ~ 13
C25	ER16-150	150	35	25	28	1 ~ 10
	ER20-150	150	40	25	34	1 ~ 13
	ER25-150	150	45	25	42	3 ~ 16
C32	ER32-100	100	51	32	50	3 ~ 20

HSK
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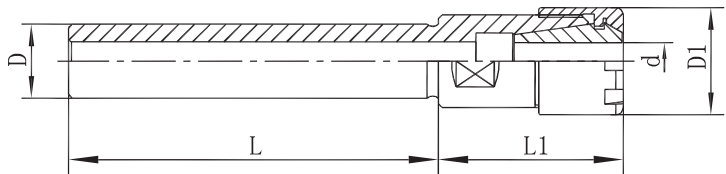
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

ER 延长杆
EXTENSION BAR



mm

订货编号		L	L1	D	D1	d (夹持范围)
C10	ER8M-100	100	24	10	12	1 ~ 5
C12	ER8M-150	150	24	12	12	1 ~ 5
C16	ER11M-100	100	26.5	16	16	1 ~ 7
C16	ER16M-100	100	35	16	22	1 ~ 10
	ER16M-150	150	35	16	22	1 ~ 10
	ER16M-200	200	35	16	22	1 ~ 10
	ER20M-100	100	40	16	28	1 ~ 13
	ER20M-150	150	40	16	28	1 ~ 13
C20	ER16M-100	100	35	20	22	1 ~ 10
	ER16M-150	150	35	20	22	1 ~ 10
	ER16M-200	200	35	20	22	1 ~ 10
	ER20M-100	100	40	20	28	1 ~ 13
	ER20M-150	150	40	20	28	1 ~ 13
	ER20M-200	200	40	20	28	1 ~ 13
C25	ER16M-150	150	35	25	22	1 ~ 10
	ER20M-150	150	40	25	28	1 ~ 13

HSK

DIN 6989 3

ISO

BT

MAS 403 BT

SK

DIN 69871

CAT

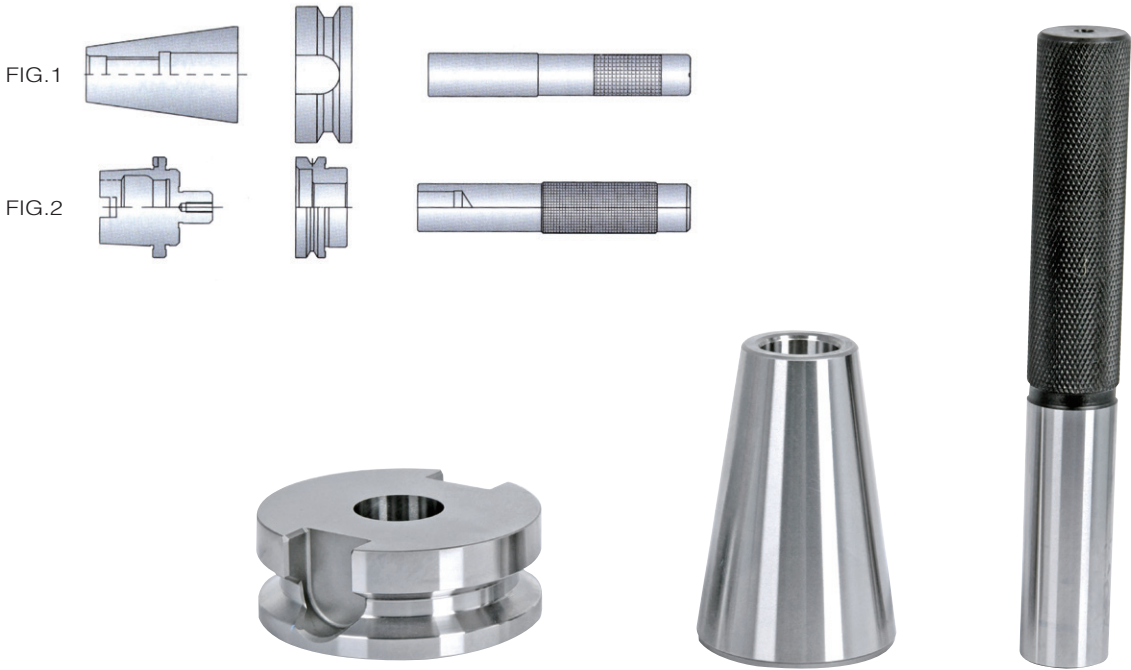
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

三点模具组合
MODULAR CONCENTRICITY
TEST GAUGE



订货编号	锥度标准	FIG
BT30	MAS403-BT	1
BT40	MAS403-BT	1
BT50	MAS403-BT	1
HSK63A	DIN69893	2
HSK100A	DIN69893	2

HSK
DIN69893

ISO

BT
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CAT
ANSI/ASME

延长杆
EXTENSION BAR

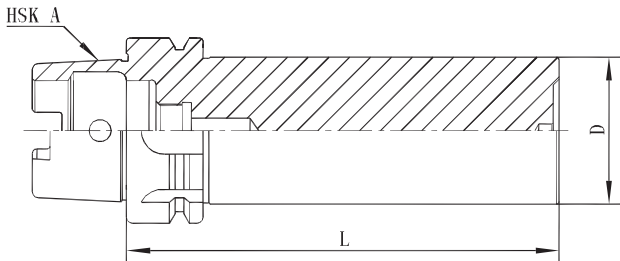
手柄配件
HANDLE PARTS

参考资料
RESOURCES

主轴静态测量棒
TEST BAR

HSK

DIN 69893



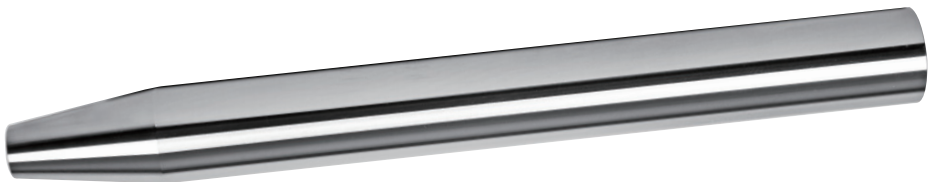
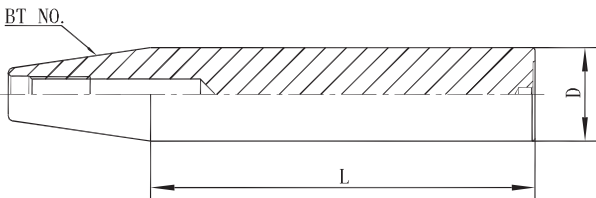
ISO

BT

MAS 403 BT

SK

DIN 69871



CAT

ANSI/ASME

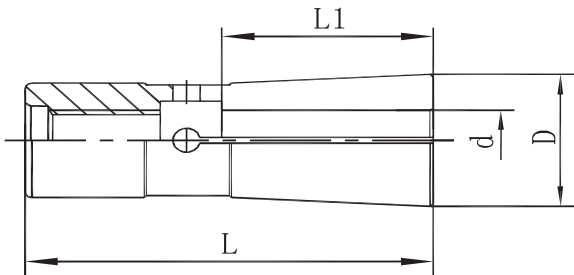
延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

订货编号	L	D	圆柱度	mm
				同心度
BT30-D32-250	250	32	< 0.003	< 0.005
BT40-D40-250	250	40	< 0.003	< 0.005
BT40-D40-300	300	40	< 0.003	< 0.005
BT50-D40-300	300	40	< 0.003	< 0.005
BT50-D40-350	350	40	< 0.003	< 0.005
HSK63A-D50-200	200	50	< 0.003	< 0.005
HSK63A-D50-300	300	50	< 0.003	< 0.005
HSK100A-D50-200	200	50	< 0.003	< 0.005
HSK100A-D50-300	300	50	< 0.003	< 0.005

SDC 筒夹
COLLET



订货编号		夹持范围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

mm

HSK
DIN 69893

ISO

BT
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SK
DIN 69871

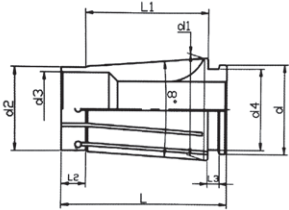
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

CSK 高转速筒夹
CSK HIGH SPEED DOLLET



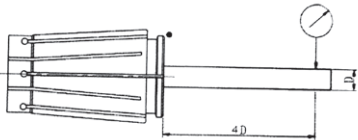
型号 Model No.	d	d1	d2	d3	d4	L	L1	L2	L3
CSK06	8.9(8.6)	10.5	7.5	6	7.8	25	17.5	3.5	2.5
CSK10	13.7(13.1)	15.6	12	10	12	30.5	22	5	2.3
CSK13	18.5	20.1	17	13	15	39	28	5	2.5
CSK16	21.3(20.6)	24.6	18.8	16	19	45	32	8	2.8
CSK20	26.5	30	24	20	23	50	42	8	2.8
CSK25	31.1(29.9)	35.6	28.8	25.4	28.2	57	43	8.5	2.9

- 选用优质弹簧钢 :65Mn
- 硬度: HRC44-48
- Made of high-quality 65Mn spring steel.
- Hardness: HRC 44-48.

CSK06		CSK10		CSK13		CSK16		CSK20		CSK25	
型号 Model No.	范围 RANGE	型号 Model No.	范围 RANGE	型号 Model No.	范围 RANGE	型号 Model No.	范围 RANGE	型号 Model No.	范围 RANGE	型号 Model No.	范围 RANGE
CSK06-2	2-1.75	CSK10-2	2-1.75	CSK13-3	3-2.75	CSK16-3	3-2.75	CSK20-4	4-3.5	CSK25-6	6-6.65
CSK06-2.5	2.5-2.25	CSK10-2.5	2.5-2.25	CSK13-3.5	3.5-3	CSK16-3.175	3.175-2.7	CSK20-4.5	4.5-4	CSK25-8	8-6.75
CSK06-3	3-2.75	CSK10-3	3-2.75	CSK13-4	4-3.5	CSK16-3.5	3.5-3	CSK20-5	5-5.5	CSK25-10	10-9.5
CSK06-3.5	3.5-3	CSK10-3.175	3.175-2.7	CSK13-4.5	4.5-4	CSK16-4	4-3.5	CSK20-5.5	5.5-5	CSK25-12	12-11.5
CSK06-4	4-3.5	CSK10-3.5	3.5-3	CSK13-5	5-4.5	CSK16-4.5	4.5-4	CSK20-6	6-5.5	CSK25-14	14-13.5
CSK06-4.5	4.5-4	CSK10-4	4-3.5	CSK13-5.5	5.5-5	CSK16-5	5-4.5	CSK20-6.5	6.5-6	CSK25-16	16-15.5
CSK06-5	5-4.5	CSK10-4.5	4.5-4	CSK13-6	6-5.5	CSK16-5.5	5.5-5	CSK20-7	7-6.5	CSK25-16.5	16.5-16
CSK06-5.5	5.5-6	CSK10-5	5-4.5	CSK13-6.5	6.5-6	CSK16-6	6-5.5	CSK20-7.5	7.5-7	CSK25-17	17-16.5
CSK06-6	6-5.5	CSK10-5.5	5.5-5	CSK13-7	7-6.5	CSK16-6.5	6.5-6	CSK20-8	8-7.5	CSK25-17.5	17.5-17
		CSK10-6	6-5.5	CSK13-7.5	7.5-7	CSK16-7	7-6.5	CSK20-8.5	8.5-8	CSK25-18	18-17.5
		CSK10-6.5	6.5-6	CSK13-8	8-7.5	CSK16-7.5	7.5-7	CSK20-9	9-8.5	CSK25-18.5	18.5-18
		CSK10-7	7-6.5	CSK13-8.5	8.5-8	CSK16-8	8-7.5	CSK20-9.5	9.5-9	CSK25-19	19-18.5
		CSK10-7.5	7.5-7	CSK13-9	9-8.5	CSK16-8.5	8.5-8	CSK20-10	10-9.5	CSK25-19.5	19.5-19
		CSK10-8	8-7.5	CSK13-9.5	9.5-9	CSK16-9	9-8.5	CSK20-10.5	10.5-10	CSK25-20	20-19.5
		CSK10-8.5	8.5-8	CSK13-10	10-9.5	CSK16-9.5	9.5-9	CSK20-11	11-10.5	CSK25-20.5	20.5-20
		CSK10-9	9-8.5	CSK13-10.5	10.5-10	CSK16-10	10-9.5	CSK20-11.5	11.5-11	CSK25-21	21-20.5
		CSK10-9.5	9.5-9	CSK13-11	11-10.5	CSK16-10.5	10.5-10	CSK20-12	12-11.5	CSK25-21.5	21.5-21
		CSK10-10	10-9.5	CSK13-11.5	11.5-11	CSK16-11	11-10.5	CSK20-12.5	12.5-12	CSK25-22	22-21.5
				CSK13-12	12-11.5	CSK16-11.5	11.5-11	CSK20-13	13-12.5	CSK25-22.5	22.5-22
				CSK13-12.5	12.5-12	CSK16-12	12-11.5	CSK20-13.5	13.5-13	CSK25-23	23-22.5
				CSK13-13	13-12.5	CSK16-12.5	12.5-12	CSK20-14	14-13.5	CSK25-23.5	23.5-23
						CSK16-13	13-12.5	CSK20-14.5	14.5-14	CSK25-24	24-23.5
						CSK16-13.5	13.5-13	CSK20-15	15-14.5	CSK25-24.5	24.5-24
						CSK16-14	14-13.5	CSK20-15.5	15.5-15	CSK25-25	25-24.5
						CSK16-14.5	14.5-14	CSK20-16	16-15.5		
						CSK16-15	15-14.5	CSK20-16.5	16.5-16		
						CSK16-15.5	15.5-15	CSK20-17	17-16.5		
						CSK16-16	16-15.5	CSK20-17.5	17.5-17		
								CSK20-18	18-17.5		
								CSK20-18.5	18.5-18		
								CSK20-19	19-18.5		
								CSK20-19.5	19.5-19		
								CSK20-20	20-19.5		

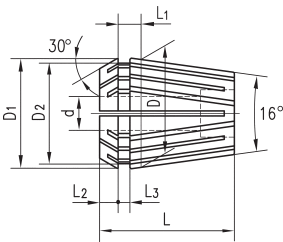
精度检测: Inspection of Accuracy

L	径向跳动 (Run out)	
	I 级 (I class)	II 级 (II class)
4 × D	≤ 0.008	≤ 0.005



ER 系列夹头
ER SERIES CHUCK

- 选用优质弹簧钢
 - 夹紧力大，夹持范围广，精度高
 - 广泛用于镗、铣、钻、攻丝、磨、雕刻等加工
- Made of high-quality spring steel.
 - High clamping force, wide clamping range, and high accuracy.
 - Suitable for boring, milling, drilling, tapping, grinding, engraving, and other machining operations.



ER11-ER50

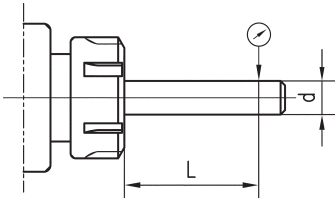


ER8



型号 Model No.	d H7	D	D1	D2	L	L1	L2	L3	弹性收缩量 Collapsible capacity
ER8	≥1.0 ~ 5.0	8	8.45	6.5	13.5	2.98	1.5	1.2	0.5
ER11	≥1.0 ~ 7.0	11	11.5	9.5	18.0	3.8	2.5	2.0	0.5
ER16	≥1.0 ~ 2.5	16	17	13.8	27.5	6.26	4.0	2.7	0.5
	>2.5 ~ 10.0	16	17	13.8	27.5	6.26	4.0	2.7	1.0
ER20	≥1.0 ~ 2.5	20	21	17.4	31.5	6.36	4.8	2.8	0.5
	>2.5 ~ 13.0	20	21	17.4	31.5	6.36	4.8	2.8	1.0
ER25	≥1.0 ~ 2.5	25	26	22.0	34.0	6.66	5.0	3.1	0.5
	>2.5 ~ 16.0	25	26	22.0	34.0	6.66	5.0	3.1	1.0
ER32	≥2.0 ~ 2.5	32	33	29.2	40.0	7.16	5.5	3.6	0.5
	>2.5 ~ 20.0	32	33	29.2	40.0	7.16	5.5	3.6	1.0
ER40	≥3.0 ~ 26.0	40	41	36.2	46.0	7.66	7.0	4.1	1.0
ER50	≥6.0 ~ 10.0	50	52	46.0	60.0	12.6	8.5	5.5	1.0
	>10.0 ~ 34.0	50	52	46.0	60.0	12.6	8.5	5.5	2.0

精度检测 Inspection of Accuracy



D	L	径向跳动 Run out tolerance	
		I	II
1.0 ~ 1.6	6	0.008	0.015
>1.6 ~ 3.0	10		
>3.0 ~ 6.0	16		
>6.0 ~ 10.0	25		
>10.0 ~ 18.0	40	0.008	0.015
>18.0 ~ 26.0	50		
>26.0 ~ 30.0	60		
>30.0 ~ 34.0	80	0.008	0.015

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

HSK
DIN 69893

ISO

BT
MAS 403 BT

SK
DIN 69871

CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

参考资料
RESOURCES

拉钉系列
RETENTION KNOB

HSK
DIN 6989 3

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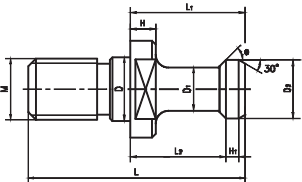
CAT
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延长杆
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刀柄配件
HANDLE PARTS

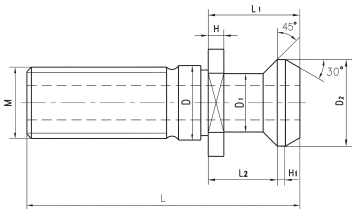
参考资料
RESOURCES

MAS403-1982



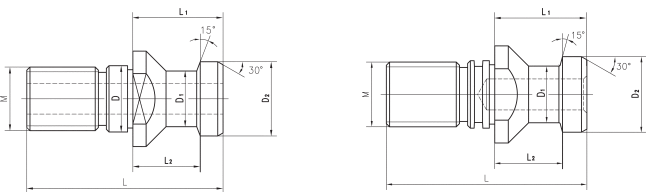
订货编号	L	L1	L2	D	D1	D2	H	H1	M	θ		
BT30(θ)	43	23	18	12.5	7	11	5	2.5	M12	45°	60°	90°
BT40(θ)	60	35	28	17	10	15	6	3	M16	45°	60°	90°
BT50(θ)	85	45	35	25	17	23	10	5	M24	45°	60°	90°

MAZAK



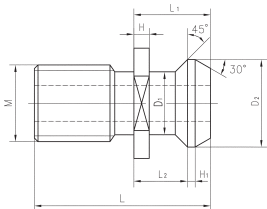
订货编号	L	L1	L2	D	D1	D2	H	H1	M
MAZAK-BT40	44.10	19.10	14.02	17	12.45	18.8	3.05	1.52	M16
MAZAK-CT40	41.25	16.25	11.17	17	12.45	18.8	3.05	1.52	M16
MAZAK-BT50	65.20	25.20	17.7	25	20.83	28.96	5.05	2.54	M24

DIN69872-1988



订货编号	L	L1	L2	D	D1	D2	M
DT30	44	24	19	13	9	13	M12
DT40	54	26	20	17	14	19	M16
DT50	74	34	25	25	21	28	M24

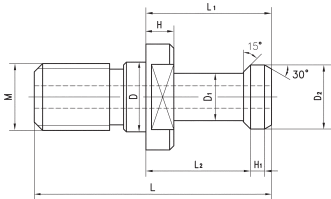
ANSI/ASME B5.50-1985



订货编号	L	L1	L2	D1	D2	H	H1	M
CT30	27.94	11.68	8.13	9.78	13.21	2.54	1.01	1/2" -13
CT40	38.10	16.26	11.18	12.45	18.80	3.05	1.52	5/8" -11
CT50	58.42	25.4	17.78	20.83	28.96	5.08	2.54	1" -8

拉钉系列
RETENTION KNOB

JIS B6339-1986

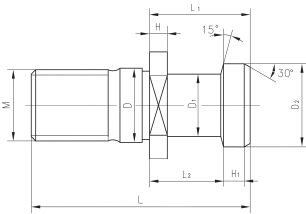


订货编号	L	L1	L2	D	D1	D2	H	H1	M
JIS-30	43	23.4	18.4	12.5	8	12	5	3	M12
JIS-40	54	29	23	14	19	15	7	3	M16
JIS-50	74	34	25	25	21	28	7	5	M24

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ISO

ISO/DIS7388/2-1984A

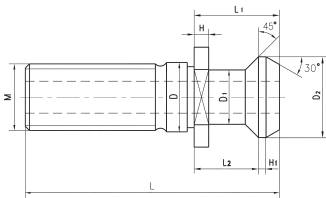


订货编号	L	L1	L2	D	D1	D2	H	H1	M
ISO-30A	44	24	19	13	8	12	4	3	M12
ISO-40A	54	26	20	17	14	19	4	4	M16
ISO-50A	74	34	25	25	21	28	6	7	M24

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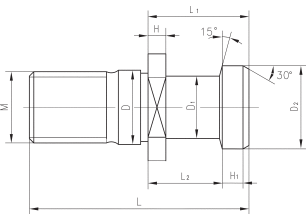


订货编号	L	L1	L2	D	D1	D2	H	H1	M
ISO-30B	27	11.8	8.1	13	9.3	13.3	2.7	1.2	M12
ISO-40B	44.5	16.4	11.15	17	12.95	18.95	3.25	1.75	M16
ISO-50B	65.5	25.5	17.95	25	19.6	29.1	5.25	2.75	M24

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延长杆
EXTENSION BAR

ISO雕铣机用拉钉



订货编号	L	L1	L2	D	D1	D2	H	H1	M
ISO20	26	12	9	8.5	6	9	3	1.4	M8
ISO25	32	16	11.6	9	7	10	3.5	2	M8
ISO30	45	24	19	13	9	13	4	2.5	M12

刀柄配件
HANDLE PARTS

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EXTENSION BAR

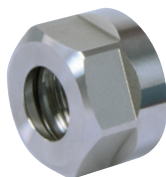
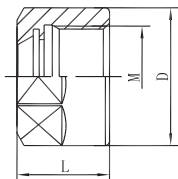
刀柄配件

HANDLE PARTS

参考资料

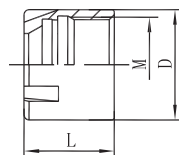
RESOURCES

ER-A 螺帽 NUT



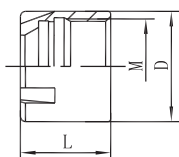
订货编号	L	D	M
ER11A	11.3	19	M14 × 0.75P
ER16A	17.5	28	M22 × 1.5P
ER20A	19	34	M25 × 1.5P

ER-UM 螺帽 NUT



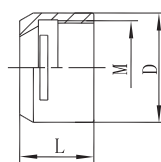
订货编号	L	D	M
ER25UM	20	42	M32 × 1.5P
ER32UM	22.5	50	M40 × 1.5P
ER40UM	25.5	63	M50 × 1.5P

ER-M 螺帽 NUT



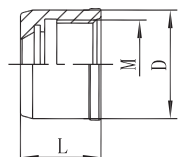
订货编号	L	D	M
ER11M	12	16	M13 × 0.75P
ER16M	18	22	M19 × 1.0P
ER20M	19	28	M24 × 1.0P
ER25M	20	35	M30 × 1.0P

ER-MS 螺帽 NUT



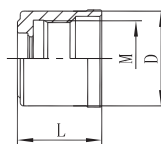
订货编号	L	D	M
ER11MS	11.3	16	M13 × 0.75P
ER16MS	17	22	M19 × 1.0P
ER20MS	19	28	M24 × 1.0P
ER25MS	23	35	M30 × 1.0P

GER 螺帽 NUT



订货编号	L	D	M
GER16	19	27	M22 × 1.5P
GER20	21	30	M24 × 1.0P
GER25	25	35	M30 × 1.0P
GER32	27	48	M40 × 1.5P

GSK 螺帽 NUT



订货编号	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

ERM 扳手 SPANNER



订货编号	适合螺帽
HYBS-ER11M	ER11M
HYBS-ER16M	ER16M
HYBS-ER20M	ER20M

ER 开口扳手 SPANNER



订货编号	适合螺帽
HYBS-ER11A	ER11A
HYBS-ER16A	ER16A
HYBS-ER20A	ER20A

ISO 刀柄扳手 SPANNER



订货编号	适合刀柄
HYBS-ISO20	ISO20
HYBS-ISO25	ISO25

ER/UM 扳手 SPANNER



订货编号	适合螺帽
HYBS-ER25	ER25UM
HYBS-ER32	ER32UM
HYBS-ER40	ER40UM

套筒专用扳手 SPANNER



订货编号	适合螺帽
HYBS-GSK10	GSK10
HYBS-GSK13	GSK13
HYBS-GSK16	GSK16
HYBS-GSK20	GSK20
HYBS-GER16	GER16
HYBS-GER20	GER20
HYBS-GER25	GER25
HYBS-GER32	GER32
HYBS-HLC32	HLC32

ERMS 扳手 SPANNER



订货编号	适合螺帽
HYBS-ER16MS	ER16MS
HYBS-ER20MS	ER20MS

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TOOL HOLDER DEVICE

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立卧两用锁刀座



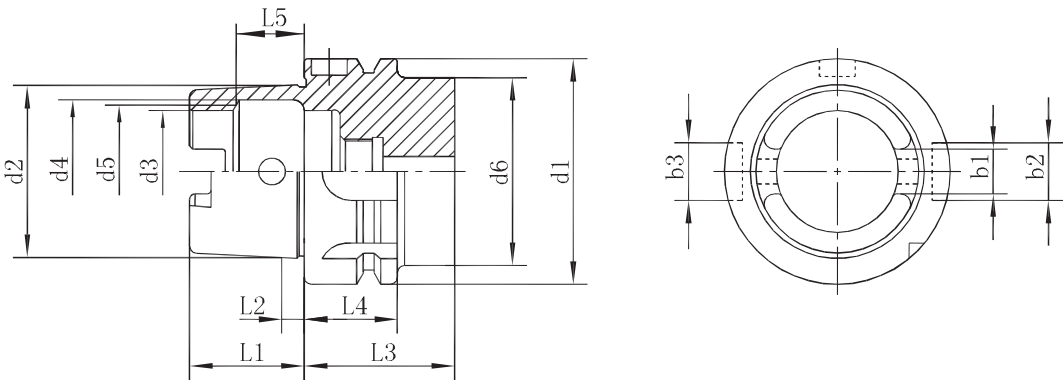
订货编号	适合刀柄
HYDZ-BT30	MAS403-BT30
HYDZ-BT40	MAS403-BT40
HYDZ-BT50	MAS403-BT50

轴承式锁刀座



订货编号	适合刀柄
HYZCDZ-D46	NBT30/BT30
HYZCDZ-D40	HSK40A/E
HYZCDZ-D50	HSK50A/E
HYZCDZ-D63	HSK63A/E NBT40/BT40

DIN 63893HSK-A



规格	L1 0 -0.2	L2	L3 min	L4	L5 js10	d1 h10	d2	d3 H10	d4 H11	d5	d6 max	b1 ±0.04	b2 H10	b3 H10
HSK32A	16	3.2	35	20	8.92	32	24.007	17	20.5	19	26	7.05	7	9
HSK40A	20	4	35	20	11.42	40	30.007	21	25.5	23	34	8.05	9	11
HSK50A	25	5	42	26	14.12	50	38.009	26	32	29	42	10.54	12	14
HSK63A	32	6.3	42	26	18.13	63	48.01	34	40	37	53	12.54	16	18
HSK80A	40	8	42	26	22.85	80	60.012	42	50	46	68	16.04	18	20
HSK100A	50	10	45	29	28.56	100	75.013	53	63	58	88	20.02	20	22
HSK125A	63	12.5	45	29	36.27	125	95.016	67	80	73	111	25.02	25	28
HSK160A	80	16	47	31	45.98	160	120.016	85	100	92	144	30.02	32	36

HSK
DIN 63893

ISO

BT
MAS 403 BT

SK
DIN 69871

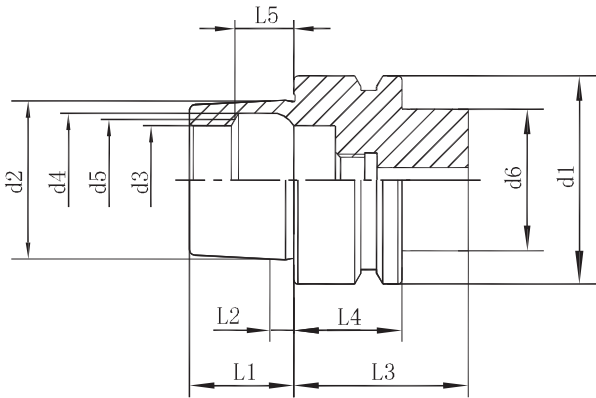
CAT
ANSI/ASME

延长杆
EXTENSION BAR

刀柄配件
HANDLE PARTS

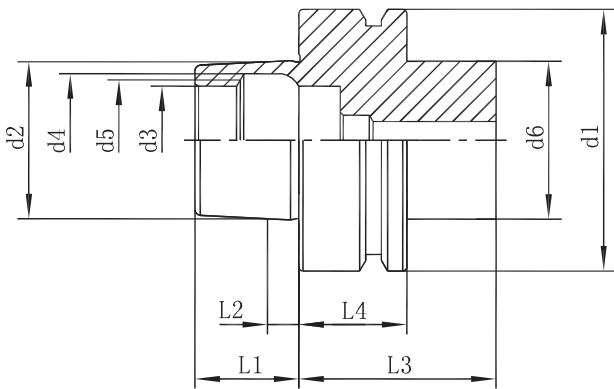
参考资料
RESOURCES

DIN 63893HSK-E



规格	L1 0 -0.2	L2	L3 min	L4	L5 js10	d1 h10	d2	d3 H10	d4 H11	d5	d6 max
HSK32E	16	3.2	35	20	8.92	32	24.007	17	20.5	19	26
HSK40E	20	4	35	20	11.42	40	30.007	21	25.5	23	34
HSK50E	25	5	42	26	14.12	50	38.009	26	32	29	42
HSK63E	32	6.3	42	26	18.13	63	48.01	34	40	37	53

DIN 63893HSK-F



规格	L1 0 -0.2	L2	L3 min	L4	L5 js10	d1 h10	d2	d3 H10	d4 H11	d5	d6 max
HSK50F	20	4	42	26	11.42	50	30.007	21	25.5	23	42
HSK63F	25	5	42	26	14.12	63	38.009	26	32	29	53

HSK

DIN 69893

ISO

BT

MAS 403 BT

SK

DIN 69871

CAT

ANSI/ASME

延长杆

EXTENSION BAR

刀柄配件

HANDLE PARTS

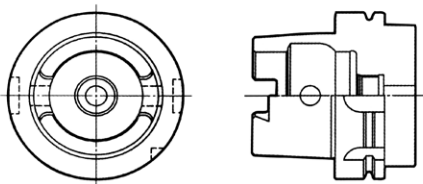
参考资料

RESOURCES

HSK 各种形状和特征

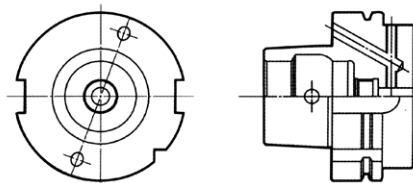
VARIOUS FORMS OF HSK AND FEATURES

A 型 A type



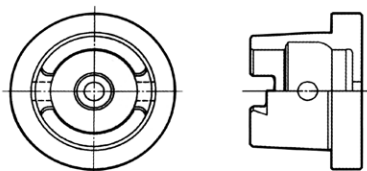
- 用途：加工中心
For machining centers.
- 通过切削液管可以向轴心供切削液
Through-the-tool coolant from coolant tube acceptable.
- 依靠锥体上端的驱动槽来传递扭矩
With drive slots at the top of taper portion.
- ATC用U槽
With "U" slots for ATC.
- 手动紧固用孔
With pin holes for manual clamping.
- 加曼切口
With a German notch.
- ID芯片孔（选购）
With a hole for ID chip (Option)

B 型 B type



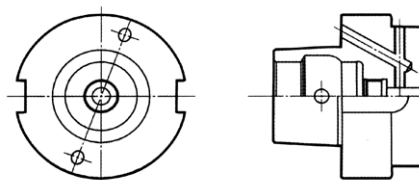
- 用途：加工中心、通用铣床、车床
For machining centers, milling machines and lathes.
- 通过法兰头或切削液管，可以向轴心供切削液
Through-the-tool coolant from flange or coolant tube acceptable.
- 依靠法兰头部的凹槽来传递扭矩
With "U" drive slots at the flange.
- 手动紧固用孔
With pin holes for manual clamping.
- 加曼切口
With a German notch.
- ID芯片孔（选购）
With a hole for ID chip. (Option)
- 和公称刀柄比、锥体部小一个规格
With one rank smaller taper size

C 型 C type



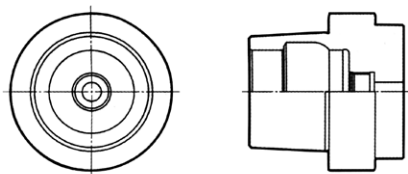
- 用途：如组合机床等无ATC功能机器专用
For non-ATC machines, such as transfer machines.
- 可以实现轴心供切削液
Through-the-tool coolant acceptable.
- 依靠锥体上端的驱动槽来传递扭矩
With drive slots at the top of taper portion.

D 型 D type



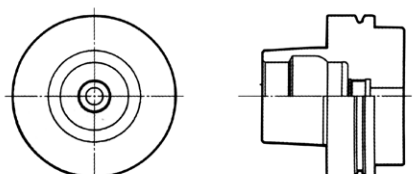
- 用途：如组合机床等无ATC功能机器专用
For non-ATC machines, such as transfer machines.
- 使用法兰头或冷却液管实现轴心供切削液
Through-the-tool coolant from flange or from coolant tube acceptable.
- 依靠法兰头部的凹槽来传递扭矩
With "U" drive slots at the flange.
- 和公称刀柄比、锥体部小一个规格
With one rank smaller taper size

E 型 E type



- 用途：高转速加工中心，木工机器
For high speed machining centers and wood milling machines.
- 对称型，无驱动槽
With symmetrical shank without drive key slot.
- 依靠摩擦来传递扭矩
Friction transmission.
- 使用切削液管、可以给轴心供切削液
Through-the-tool coolant from coolant tube acceptable.

F 型 F type



- 使用切削液管、可以给轴心供切削液
Through-the-tool coolant from coolant tube
- 和公称刀柄比、锥体部小一个规格
With one rank smaller taper size

HSK
DIN 69893

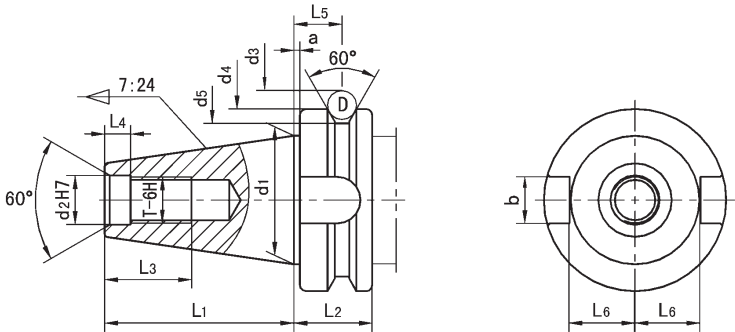
ISO

BT
MAS 403 BTSK
DIN 69871CAT
ANSI/ASME延长杆
EXTENSION BAR刀柄配件
HANDLE PARTS参考资料
RESOURCES

数控刀柄标准
MAS 403 BT

HSK
DIN 69893

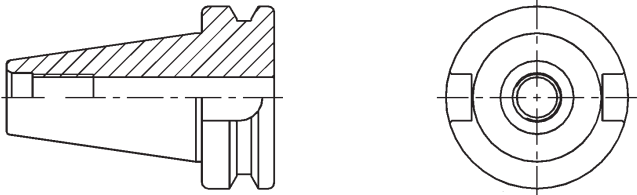
A 型:
中心孔不通 Without through hole



ISO

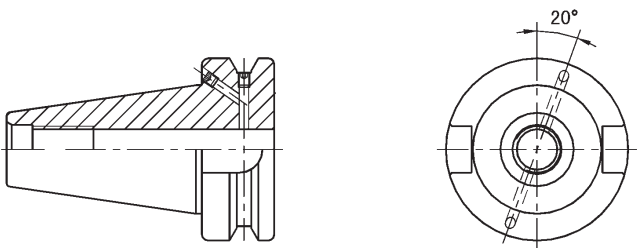
BT
MAS 403 BT

AD 型:
中心进水冷却
Without through hole for center coolant
AD/B 型:



SK
DIN 69871

中心进水冷却与法兰盘侧面进水冷却两种形式
Form AD and form B, the former is in the center cold,
the latter is in the flange plate cold, may realize central
cooling and the side cools two forms the freedoms to
transform



CAT
ANSI/ASME

延长杆
EXTENSION BAR

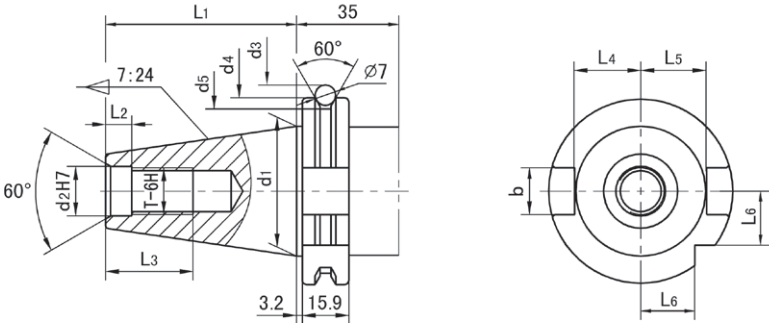
刀柄配件
HANDLE PARTS

参考资料
RESOURCES

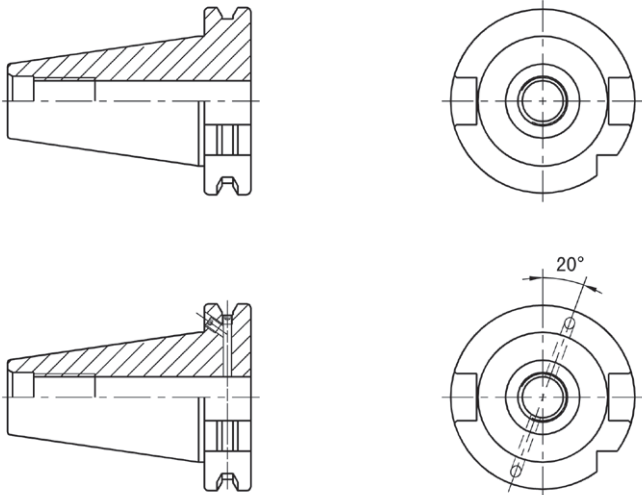
规格	L1	L2	L3	L4	L5	L6	d1	d2	d3	d4	d5	D	a	b	T
BT30	48.4	22	24	7	13.6	16.3	31.75	12.5	56.144	46	38	8	2	16.1	M12
BT40	65.4	27	30	9	16.6	22.6	44.45	17	75.679	63	53	10	2	16.1	M16
BT50	101.8	38	45	13	23.2	35.4	69.85	25	119.019	100	85	15	3	25.7	M24

数控刀柄标准
DIN 69871

DIN69871 A 型:
中心孔不通 Without through hole
DIN69871 AD 型:



中心进水冷却
Without through hole for center coolant
DIN69871 AD/B 型:
中心进水冷却与法兰盘侧面进水冷却两种形式



DIN 69871 AD and DIN 69871 B, the former is in the center cold, the latter is in the flange plate cold, may realize central cooling and the side cools two forms the freedoms to transform

规格	L1	L2	L3	L4	L5	L6	d1	d2	d3	d4	d5	b	T
SK30	47.8	5.5	24	16.4	19	15	31.75	13	59.3	50	44.3	16.1	M12
SK40	68.4	8.2	32	22.8	25	18.5	44.45	17	72.3	63.66	56.25	16.1	M16
SK50	101.75	11.5	47	35.5	37.7	30	69.85	25	107.25	97.5	91.25	25.7	M24

DIN 69871
HSK

ISO

MAS 403 BT
BT

DIN 69871
SK

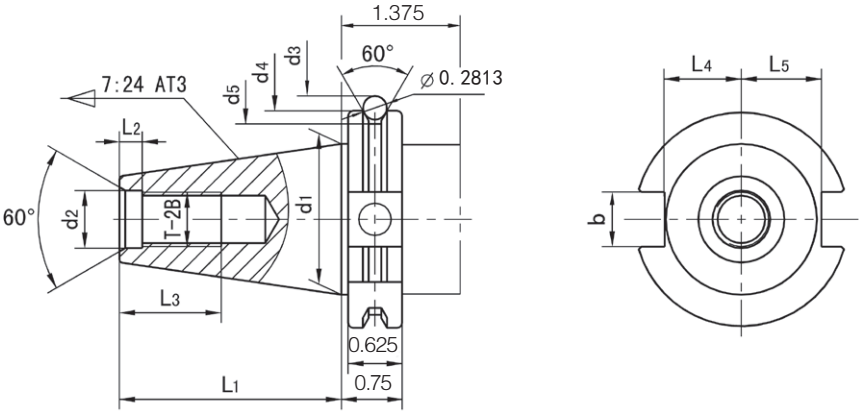
ANSI/ASME
CAT

EXTENSION BAR
延长杆

HANDLE PARTS
刀柄配件

参考资料
RESOURCES

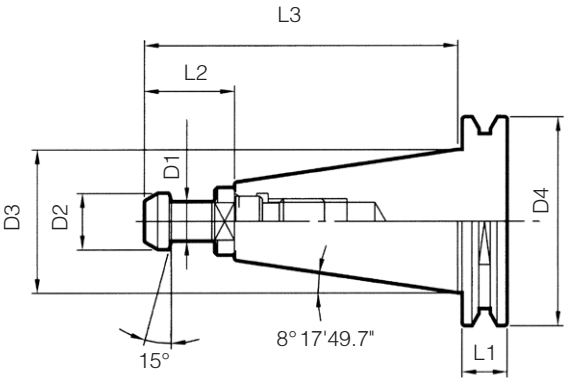
数控刀柄标准
ANSI B5.50 CAT



规格	L1	L2	L3	L4	L5	d1	d2	d3	d4	d5	b	T
CAT30	1.875	0.188	1.00	0.64	0.735	1.25	0.516	2.176	1.812	1.531	0.645	1/2" -13
CAT40	2.687	0.188	1.12	0.89	0.985	1.75	0.641	2.863	2.500	2.219	0.645	5/8" -11
CAT50	4.000	0.250	1.75	1.39	1.485	2.75	1.031	4.238	3.875	3.594	1.020	1" -8

in

ISO 标准



规格	D1	D2	D3	D4	L1	L2	L3
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

HSK

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ANSI/ASME

延长杆

EXTENSION BAR

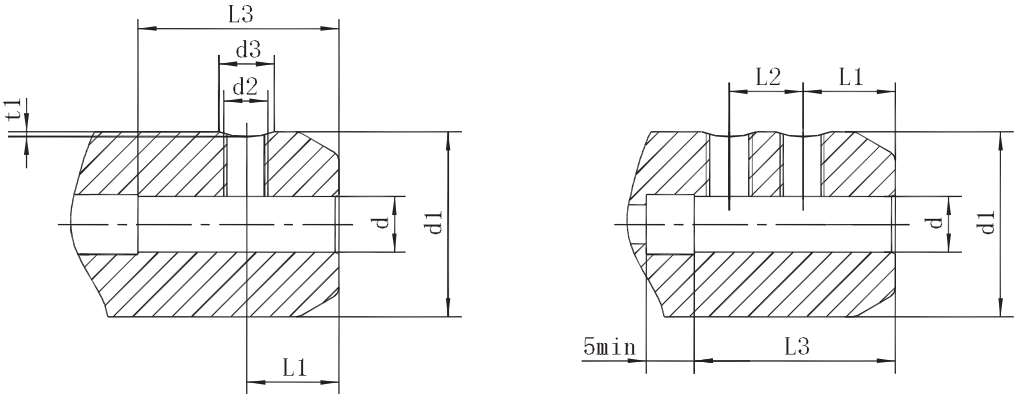
刀柄配件

HANDLE PARTS

参考资料

RESOURCES

削平柄刀具接口形式
DIN1835-B



d H5	d1	d2 6H	d3 min	L1 -0.1	L2 ± 0.5	L3 ± 1	t1	压紧整体硬质合金刀 具推荐力矩
6	25	M6	8	18.0	—	35	1.0	5Nm
8	28	M8	10	18.0	—	35	1.3	10Nm
10	35	M10	12	20.0	—	39	1.5	16Nm
12	42	M12	14	22.5	—	44	1.6	28Nm
14	44	M12	14	22.5	—	44	1.6	28Nm
16	48	M14	16	24	—	47	1.7	42Nm
18	50	M14	16	24	—	47	1.7	42Nm
20	52	M16	18	25	—	49	2.1	50Nm
25	65	M18 × 2.0P	20	24	25	54	2.1	60Nm
32	72	M20 × 2.0P	22	24	28	58	2.1	60Nm

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RESOURCES

硬度换算表

APPROXIMATE CONVERSION TO
ROCKWELL C HARDNESS

洛氏硬度 (C级) Rockwell hardness C scale	维氏硬度 Vickers hardness	布氏硬度 10mm球负载29.4KN Brinell hardness 10mm ball load 29.4KN HB	洛氏硬度 Rockwell hardness		肖氏硬度 Shore hardness	拉伸硬度 (近似值) Tension load (Approximate value)
			A级 A scale HRA	B级 B scale HRB		
HRC	HV	HB			HS	MPa
68	940	—	85.6	—	97	—
67	900	—	85.0	—	95	—
66	865	—	84.5	—	92	—
65	832	—	83.9	—	91	—
64	800	—	83.4	—	88	—
63	772	—	82.8	—	87	—
62	746	—	82.3	—	85	—
61	720	—	81.8	—	83	—
60	697	—	81.2	—	81	—
59	674	—	80.7	—	80	—
58	653	[615]	80.1	—	78	—
57	633	[595]	79.6	—	76	—
56	613	[577]	79.0	—	75	—
55	595	[560]	78.5	—	74	2075
54	577	[543]	78.0	—	72	2015
53	560	[525]	77.4	—	71	1950
52	544	[512]	76.8	—	69	1880
51	528	[496]	76.3	—	68	1820
50	513	[481]	75.9	—	67	1760
49	498	[469]	75.2	—	66	1695
48	484	[451]	74.7	—	64	1635
47	471	442	74.1	—	63	1580
46	458	432	73.6	—	62	1530
45	446	421	73.1	—	60	1480
44	434	409	72.5	—	58	1435
43	423	400	72.0	—	57	1385
42	412	390	71.5	—	56	1340
41	402	381	70.9	—	55	1295
40	392	371	70.4	—	54	1250
39	382	362	69.9	—	52	1215
38	372	353	69.4	—	51	1180
37	363	344	68.9	—	50	1160
36	354	336	68.4	(109.0)	49	1115
35	345	327	67.9	(108.5)	48	1080
34	336	319	67.4	(108.0)	47	1055
33	327	311	66.8	(107.5)	46	1025
32	318	301	66.3	(107.0)	44	1000
31	310	294	65.8	(106.0)	43	980
30	302	286	65.3	(105.5)	42	950
29	294	279	64.7	(104.5)	41	930
28	286	271	64.3	(104.0)	41	910
27	279	264	63.8	(103.0)	40	880
26	272	258	63.3	(102.5)	38	860
25	266	253	62.8	(101.5)	38	840
24	260	247	62.4	(101.0)	37	825
23	254	243	62.0	(100.0)	36	805
22	248	237	51.5	99.0	35	785
21	243	231	61.0	98.5	35	770
20	238	226	60.5	97.8	34	760
(18)	230	219	—	69.7	33	730
(16)	222	212	—	95.5	32	705
(14)	213	203	—	93.9	31	675
(12)	204	194	—	92.3	29	650
(10)	196	187	—	90.7	28	620
(8)	188	179	—	89.5	27	600
(6)	180	171	—	87.1	26	580
(4)	173	165	—	85.5	25	550
(2)	166	158	—	83.5	24	530
(0)	160	152	—	81.7	24	515

注：表中 () 内的数据为非常用范围的数据，仅作参考。
布氏硬度 [] 内的数据为钨质球测得的数据，其他为标准球测得的数据。
NOTE: Figures shown in () are uncommon and only for reference.
Figures shown [] in Brinell hardness category are based on tungsten carbide balls, and others are based on standard type balls.

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动平衡标准 ISO 1940

Balance Grade		G0.4	G1	G2.5	G6.3	G16	G40	G100	G250	G630	G1600	G4000
Precision Required	exw(mm/s)	0.4	1	2.5	6.3	16	40	100	250	630	1600	4000
	exw(μ m*rpm)	3820	9549	23875	60165	152800	382000	954900	2387500	6016500	15280000	38200000

SETTING OF THE BALANCE SERIES IS ACCORDING TO ISO 1940 STANDARD

THE FORMULA AS FOLLOWS:

$$U=M \times e$$
$$U= \frac{G \times M}{n} \times 9549$$
$$G= \frac{n \times U}{9549 \times M}$$

G=UNBALANCE SERIES

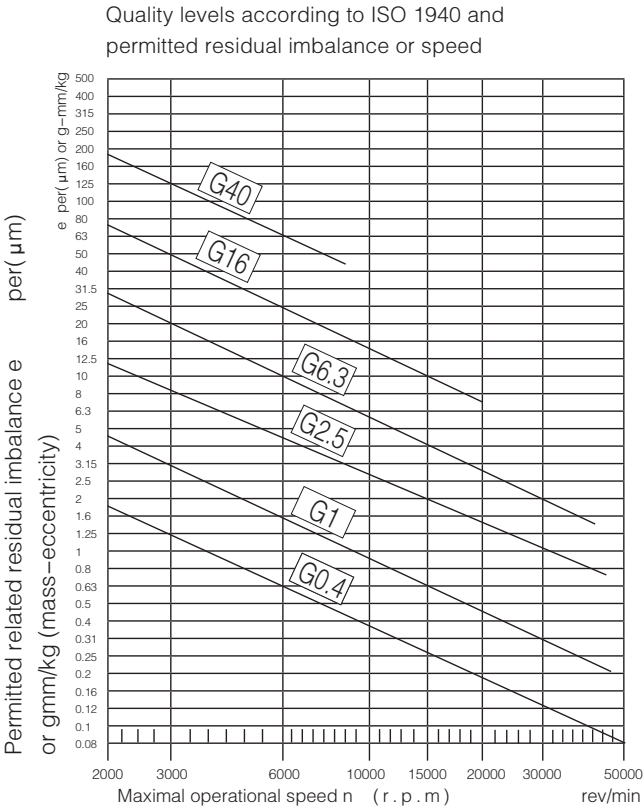
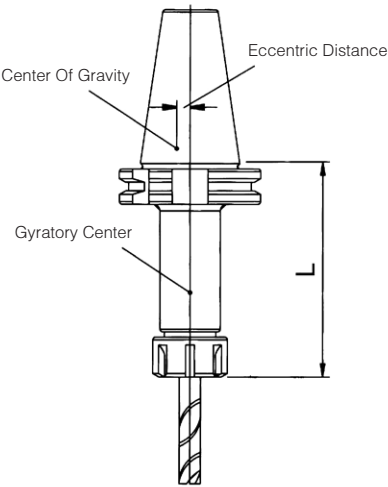
U=UNBALANCE (g-mm)

e=ECCENTRIC DISTANCE (mm)

M=ROTER WEIGHT (kg)

n=rpm

9549=CONSTANT



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SUNSTONE

TOOLING SYSTEM

Reliability Make Buying Simple

CONTACT

青岛盛世通机电科技有限公司

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Email: jackzhangqd@gmail.com

Whatsapp: +8615589875840