



森泰英格·数控刀具

航空工业刀具 产品目录

EGNC 森泰英格®

森泰英格（成都）数控刀具股份有限公司
CENTECH-EG CO.,LTD.

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森泰英格（成都）数控刀具股份有限公司

Company Profile

森泰英格（成都）数控刀具股份有限公司
始创于1997年，是集研发、制造、销售于一体的数控工具系统、可转位刀具、刀片及整体合金刀具等产品的综合性数控刀具高新技术企业。
公司坐落于成都市双流西南航空港经济开发区，占地87亩，拥有35000平方米现代化生产办公场地，员工300余人。



CENTRIX-EG CO.,LTD.

It was founded in 1997, expert in manufacturing Tooling Systems , Turning Tools , Milling Tools , Boring Tools , Inserts and Solid Carbide Tools etc.
The company is located at SW Airport Economic Development Industrial Zone, Shuangliu county , Chengdu. Total landholding is over 57,000 square meters with a modern workplace & workshop around 35,000 square meters inside of the factory zone & 300 workers.



中国机械工业金属切削刀具技术协会常务理事单位
全国刀具标准化技术委员会委员单位
中国机械制造工艺协会常务理事单位
四川省工艺协会理事单位

Standing Committee Of China Metal Cutting Tool Engineering Association (CMCTEA)
Committee Of Standardization Administration Of China / Technical Committee (SAC/TC91)
Standing Committee Of China Association Machinery Manufacturing Technology (CAMMT)
Committee Of Sichuan Province Technology Association

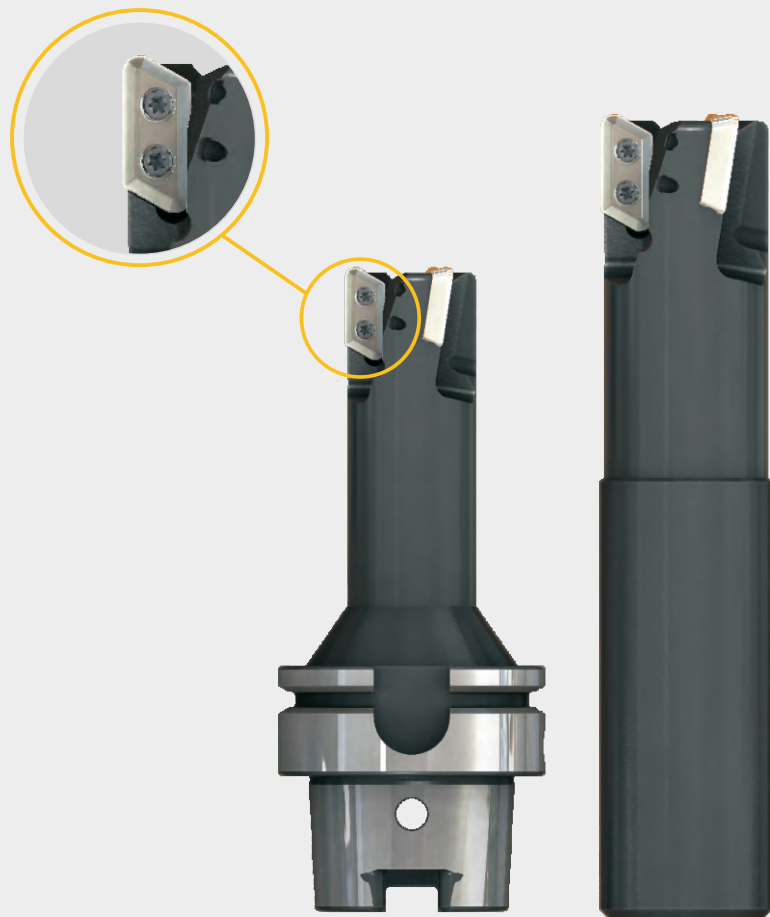


+ 高速铝合金铣刀

HSC铣刀 High speed cutting +

- 高金属去除率,缩短加工周期;
- 稳定的加工性能;
- 高精度;
- 适合不同的加工策略;
- 提供丰富的R圆角选择。

+ 双孔设计, 在高速旋转下防止刀片飞出, 安全性高。

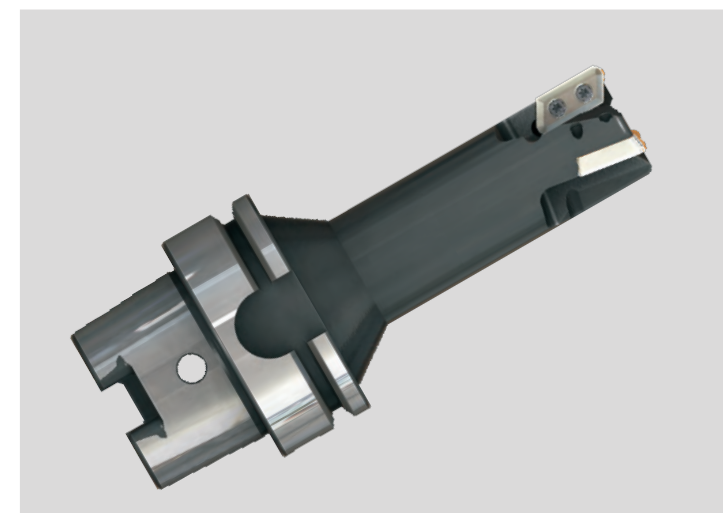


+ 加工实例

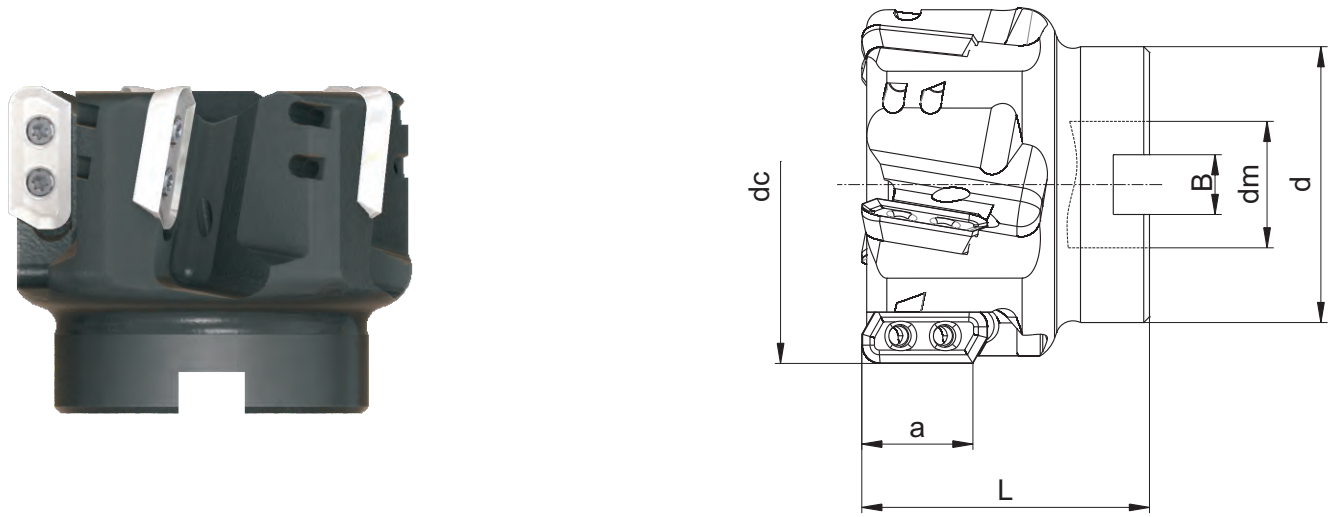
刀柄: EM90B-40XD17D.HSK63A.L120
刀片: XDGX175024PDFR-GL
工件材料: 航空铝

切削参数:

N (转速)	25000rpm
F (进给量)	15000mm
ap (切深)	12mm
ae (切宽)	19.5mm



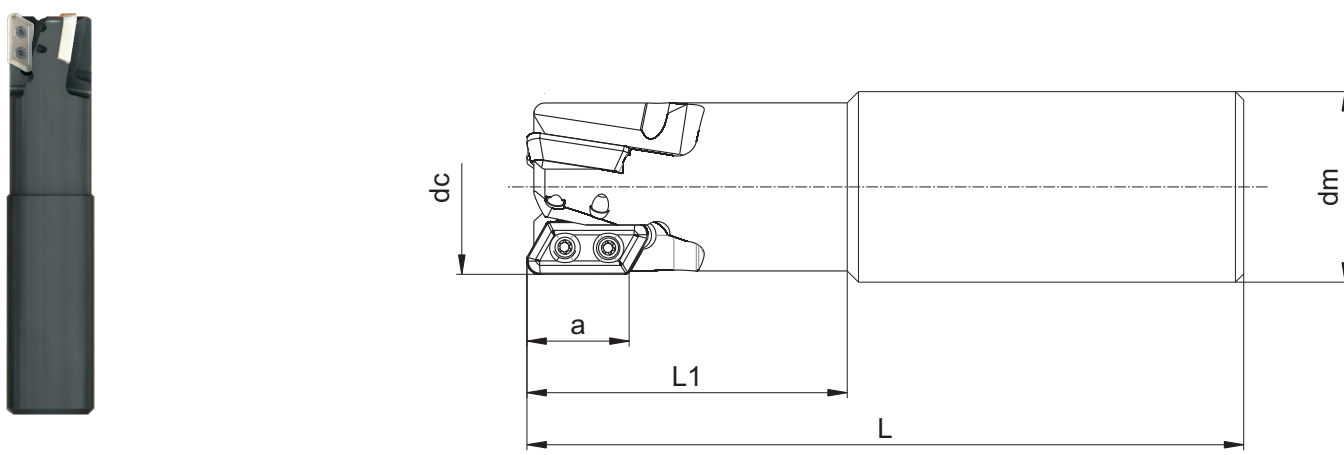
HSC铣刀(high speed cutting)



型号 Model	允许最大 转速 Max RPM	适用的 刀片R Suitable Radius	尺寸Size (mm)							齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench
			dc	dm	d	a	B	L					
FM90A-40XD17D	36000	0.8-3.0	40	16	34	15.5	8.4	50	3	XDGX1750..	C030C08S	SHT08A	
FM90A-50XD17D	30000		50	22	45	15.5	10.4	50	4				
FM90A-63XD17D	25000		63	22	50	15.5	10.4	50	5				
FM90A-80XD17D	23000		80	27	60	15.5	12.4	50	5				
FM90A-100XD17D	19000		100	32	78	15.5	14.4	63	6				
FM90A-125XD17D	16000		125	40	89	15.5	14.4	63	7				
FM90A-50XD22D	30000		50	22	45	21	10.4	50	3				
FM90A-63XD22D	25000	4.0-5.0	63	22	50	21	10.4	50	3	XDGX2270..	C040C11S	SHT15A	
FM90A-80XD22D	23000		80	27	63	21	12.4	63	4				
FM90A-100XD22D	19000		100	32	70	21	14.4	63	5				
FM90A-125XD22D	16000		125	40	90	21	16.4	63	6				
FM90B-40XD17D	36000		40	16	34	14.8	8.4	50	3				
FM90B-50XD17D	30000		50	22	45	14.8	10.4	50	4				
FM90B-63XD17D	25000		63	22	50	14.8	10.4	50	5				
FM90B-80XD17D	23000	4.0-5.0	80	27	60	14.8	12.4	50	5	XDGX1750..	C030C08S	SHT08A	
FM90B-100XD17D	19000		100	32	78	14.8	14.4	63	6				
FM90B-125XD17D	16000		125	40	89	14.8	14.4	63	7				
FM90B-50XD22D	30000		50	22	45	20.4	10.4	50	3				
FM90B-63XD22D	25000		63	22	50	20.4	10.4	50	3				
FM90B-80XD22D	23000		80	27	63	20.4	12.4	63	4				
FM90B-100XD22D	19000		100	32	70	20.4	14.4	63	5				
FM90B-125XD22D	16000		125	40	90	20.4	16.4	63	6	XDGX2270..	C040C11S	SHT15A	

*更换刀片的同时请更换刀片螺钉;
*强烈推荐扭使用扭矩扳手,安装扭矩 (N.m) : C030C08S=1.5N.m, C040C11S=3.5N.m;
*高转速情况下, 必须保证刀具整体动平衡。

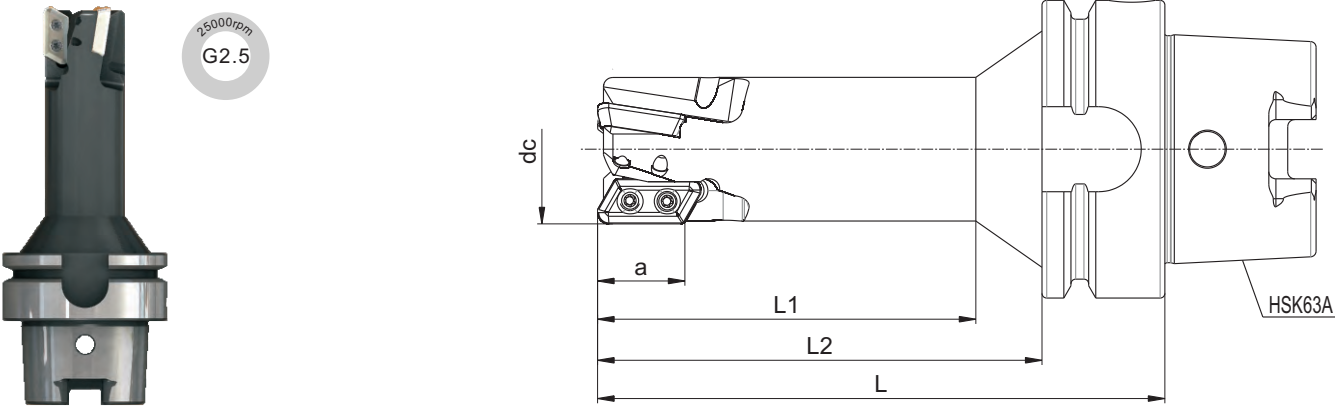
HSC铣刀(high speed cutting)



型号 Model	允许最大 转速 Max RPM	适用的 刀片R Suitable Radius	尺寸Size (mm)							齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench
			dc	dm	L1	a	L						
EM90A-25XD17D. C	40000	0.8-3.0	25	25	50	15.5	125	2	XDGX1750..	C030C08S	SHT08A		
EM90A-25XD17DL170. C	40000		25	25	80	15.5	170	2					
EM90A-32XD17D. C	40000		32	32	50	15.5	150	2					
EM90A-32XD17DL200. C	40000		32	32	80	15.5	200	2					
EM90A-40XD17D. C	36000		40	32	50	15.5	150	3					
EM90A-40XD17DL170. C	36000		40	42	80	15.5	170	3					
EM90A-40XD17DL250. C	36000		40	32	50	15.5	250	3					
EM90A-32XD22D. C	40000	4.0-5.0	32	32	80	21	170	2	XDGX2270..	C040C11S	SHT15A		
EM90A-40XD22D. C	36000		40	42	80	21	170	2					
EM90B-25XD17D. C	40000		25	25	50	14.8	125	2					
EM90B-25XD17DL170. C	40000		25	25	80	14.8	170	2					
EM90B-32XD17D. C	40000		32	32	50	14.8	150	2					
EM90B-32XD17DL200. C	40000		32	32	80	14.8	200	2					
EM90B-40XD17D. C	36000		40	32	50	14.8	150	3					
EM90B-40XD17DL170. C	36000		40	42	80	14.8	170	3	XDGX1750..	C030C08S	SHT08A		
EM90B-40XD17DL250. C	36000		40	32	50	14.8	250	3					
EM90B-32XD22D. C	40000		32	32	80	20.4	170	2					
EM90B-40XD22D. C	36000		40	42	80	20.4	170	2					

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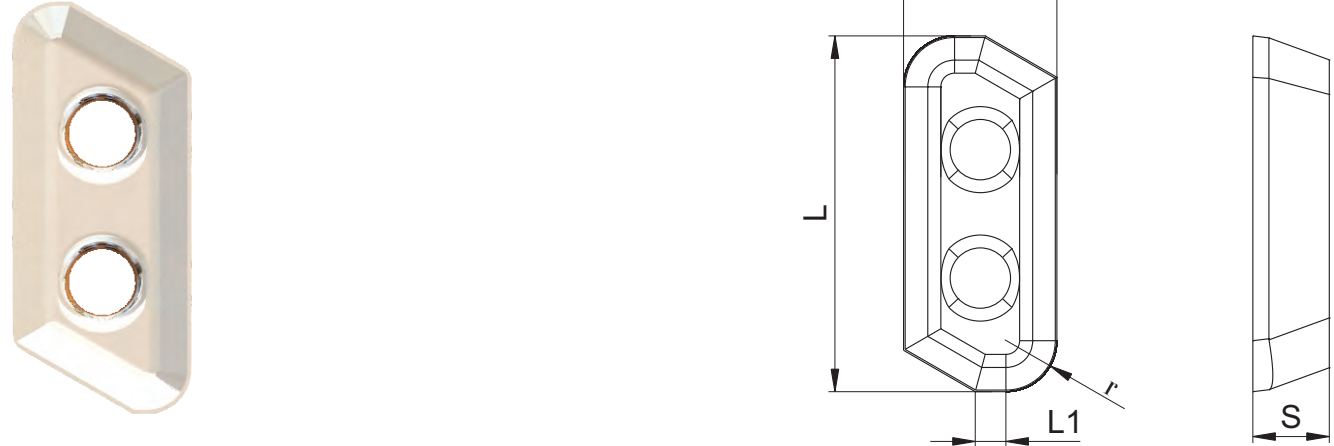
HSC铣刀(high speed cutting)



型号 Model	允许最大 转速 Max RPM	适用的 刀片R Suitable Radius	尺寸Size (mm)					齿数 No. of teeth	刀片 Insert	螺钉 Screw	扳手 Torx wrench
			dc	dm	L1	a	L				
EM90A-25XD17D.HSK63A.L90	40000	0.8-3.0	25	63	74	15.5	90	2	XDGX1750..	C030C08S	SHT08A
EM90A-32XD17D.HSK63A.L100	40000		32	63	74	15.5	100	2			
EM90A-40XD17D.HSK63A.L120	36000		40	80	94	15.5	120	3			
EM90A-50XD17D.HSK63A.L140	30000		50	100	114	15.5	140	4			
EM90A-32XD22D.HSK63A.L100	40000		32	63	74	21	100	2			
EM90A-40XD22D.HSK63A.L120	36000	4.0-5.0	40	80	94	21	120	2	XDGX2270..	C040C11S	SHT15A
EM90A-50XD22D.HSK63A.L140	30000		50	100	114	21	140	3			
EM90B-25XD17D.HSK63A.L90	40000		25	63	74	14.8	90	2			
EM90B-32XD17D.HSK63A.L100	40000		32	63	74	14.8	100	2			
EM90B-40XD17D.HSK63A.L120	36000		40	80	94	14.8	120	3			
EM90B-50XD17D.HSK63A.L140	30000	4.0-5.0	50	100	114	14.8	140	4	XDGX1750..	C030C08S	SHT08A
EM90B-32XD22D.HSK63A.L100	40000		32	63	74	20.4	100	2			
EM90B-40XD22D.HSK63A.L120	30000		40	80	94	20.4	120	2			
EM90B-50XD22D.HSK63A.L140	36000		50	100	114	20.4	140	3			

*更换刀片的同时请更换刀片螺钉;
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*高转速情况下, 必须保证刀具整体动平衡。

刀片(Insert)



型号 Model	尺寸Size (mm)					刀片材质 Grade	适用加工材料 Application
	d	S	L	L1	r		
XDGX175008PDFR-GL	10.1	5.0	23.0	1.3	0.8	EW5210	有色金属 Non ferrous metal
XDGX175012PDFR-GL	10.1	5.0	23.0	0.9	1.2		
XDGX175016PDFR-GL	10.1	5.0	22.0	1.4	1.6		
XDGX175020PDFR-GL	10.1	5.0	22.0	1.0	2.0		
XDGX175024PDFR-GL	10.1	5.0	22.0	0.6	2.4		
XDGX175030PDFR-GL	10.1	5.0	21.1	0.8	3.0		
XDGX175040PDFR-GL	10.1	5.0	20.0	0.8	4.0		
XDGX227008PDFR-GL	13	7.0	30.0	2.0	0.8		
XDGX227016PDFR-GL	13	7.0	30.0	1.2	1.6		
XDGX227020PDFR-GL	13	7.0	30.0	0.8	2.0		
XDGX227030PDFR-GL	13	7.0	28.8	0.8	3.0		
XDGX227040PDFR-GL	13	7.0	27.5	0.9	4.0		
XDGX227050PDFR-GL	13	7.0	27.0	0.4	5.0		

+ 防掉刀工具系统



全新C-LOCK锁紧结构 New C-Lock Anchoring Structure

- 刀具防滑、防拔；
- 高安全性、可靠性；
- 适合钛合金及复合材料结构件的加工。

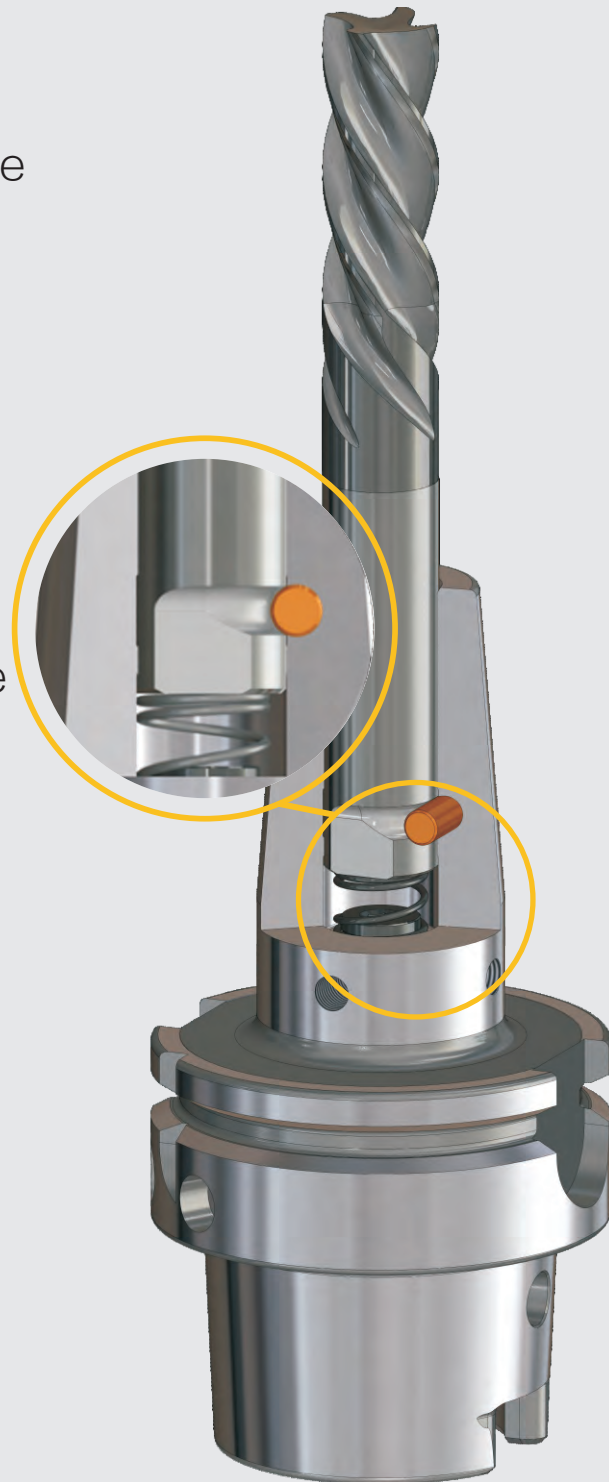
航空领域机械加工中，高速及大切削量加工会导致刀具从刀柄中缓慢拔出；C-Lock锁紧结构刀柄可有效防止重切削时刀具打滑及拔出，从而降低加工过程中昂贵工件报废风险。

高精度动平衡 High Precision Dynamic Balance

G2.5/25000rpm的高精度动平衡，使刀柄在航空领域高速强力加工中表现更优异。

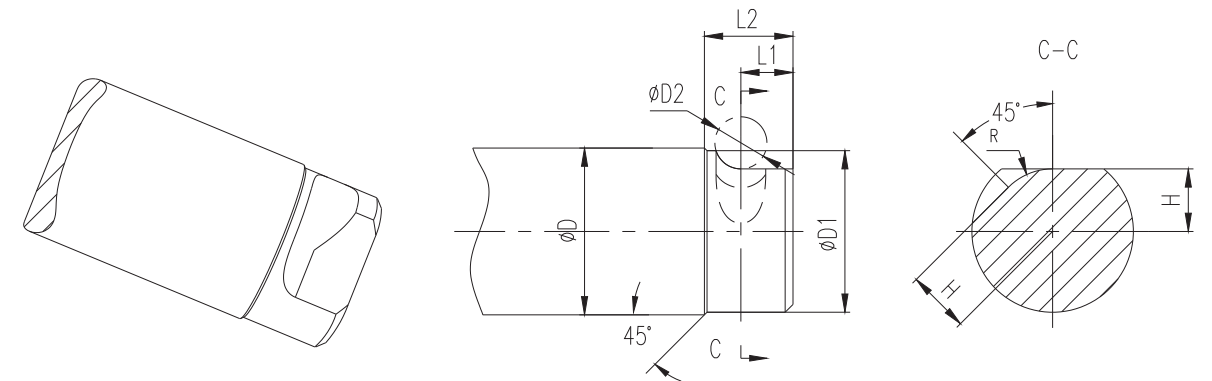
可调动平衡设计 Variable Balance Design

在刀柄径向采用螺钉可调动平衡，可精确平衡因刀具柄部C-Lock结构带来的不平衡量；动平衡螺钉采用防脱处理，避免高速旋转下飞出的风险。



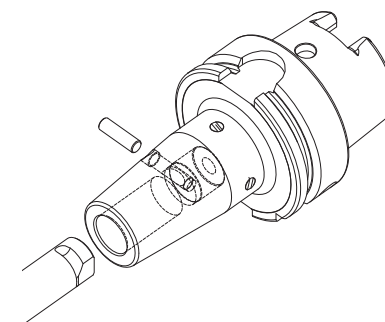
C-Lock柄部结构技术标准

- 1.该标准适用于热装柄、弹簧夹头刀柄、强力夹头刀柄的C-Lock锁紧结构刀具柄部加工规范；
- 2.结构型式及尺寸如下：



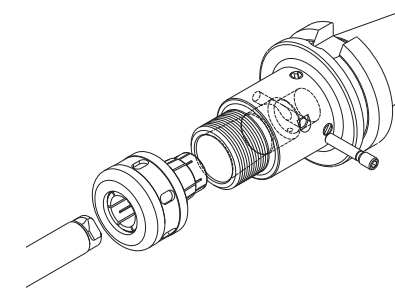
注:图例为右旋刀具柄部。

ΦD (h6)	ΦD1	ΦD2 +0.3 +0.2	L1 ±0.1	L2	H 0 -0.1	R
8	7.5	3	4	6	2.5	2.5
10	9.5	3	4	6	3.5	3.5
12	11.5	3	4	6	4.5	4.5
14	13.5	3	4	6	5.5	5.5
16	15.5	4	5	8	6	6
18	17.5	4	5	8	7	7
20	19.5	4	5	8	8	8
25	24.5	5	6	10	10	10
32	31.5	5	6	10	13.5	13.5



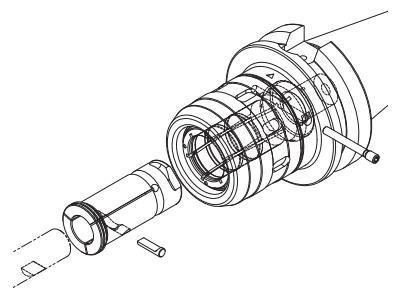
C-Lock热装柄

- 1.C-Lock结构；
- 2.可调动平衡设计；
- 3.刀具柄部按C-Lock标准加工。



C-Lock弹簧夹头刀柄

- 1.C-Lock结构；
- 2.可调动平衡设计；
- 3.刀具柄部按C-Lock标准加工。



C-Lock强力夹头刀柄

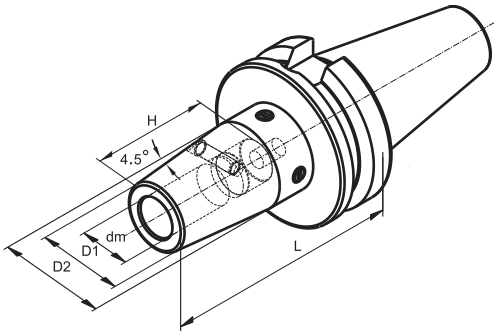
- 1.强力夹持；
- 2.变径卡簧C-Lock锁紧；
- 3.刀具柄部按DIN1835B标准加工。

C-Lock热装刀柄(C-Lock Hot Charging Holder)



25000rpm
G2.5

- 1.C-Lock结构;
- 2.可调动平衡设计;
- 3.刀具柄部需按C-Lock标准加工。



型号 Model		尺寸Size (mm)				
		dm	D1	D2	L	H
BT40-SSF08-90	40	8	20	27	90	36
-120	40	8	20	27	120	36
BT40-SSF10-90	40	10	24	32	90	42
-120	40	10	24	32	120	42
BT40-SSF12-90	40	12	24	32	90	47
-120	40	12	24	32	120	47
BT40-SSF14-90	40	14	27	34	120	47
-120	40	14	27	34	160	47
BT40-SSF16-90	40	16	27	34	120	50
-120	40	16	27	42	160	50
BT40-SSF18-90	40	18	33	42	120	50
-120	40	18	33	42	160	50
BT40-SSF20-90	40	20	33	42	120	52
-120	40	20	33	42	160	52
BT40-SSF25-100	40	25	44	53	120	58
-120	40	25	44	53	160	58

*附件需单独订购。

附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138

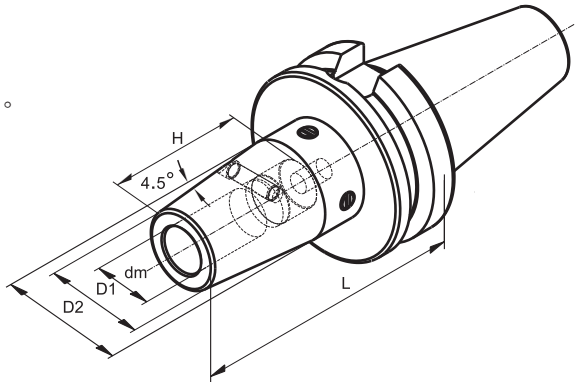
*动平衡螺钉需成组订购。

C-Lock热装刀柄(C-Lock Hot Charging Holder)



25000rpm
G2.5

- 1.C-Lock结构;
- 2.可调动平衡设计;
- 3.刀具柄部需按C-Lock标准加工。



型号 Model		尺寸Size (mm)				
		dm	D1	D2	L	H
BT50-SSF08-100	50	8	20	27	100	36
-120	50	8	20	27	120	36
BT50-SSF10-100	50	10	24	32	100	42
-120	50	10	24	32	120	42
BT50-SSF12-100	50	12	24	32	100	47
-120	50	12	24	32	120	47
BT50-SSF14-100	50	14	27	34	100	47
-120	50	14	27	34	120	47
BT50-SSF16-100	50	16	27	34	100	50
-120	50	16	27	34	120	50
BT50-SSF18-100	50	18	33	42	100	50
-120	50	18	33	42	120	50
BT50-SSF20-100	50	20	33	42	100	52
-120	50	20	33	42	120	52
BT50-SSF25-110	50	25	44	53	110	58
-135	50	25	44	53	135	58
BT50-SSF32-110	50	32	44	53	110	58
-135	50	32	44	60	135	58

*附件需单独订购。

附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138

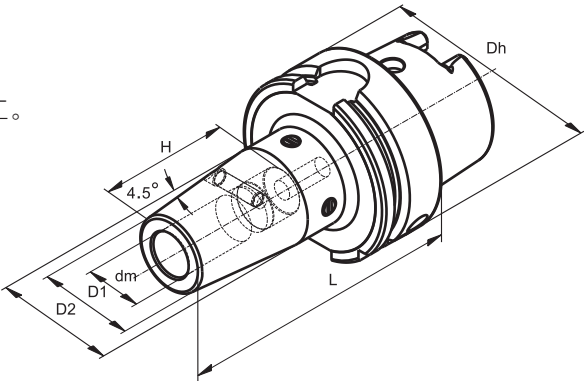
*动平衡螺钉需成组订购。

C-Lock热装刀柄(C-Lock Hot Charging Holder)



25000rpm
G2.5

- 1.C-Lock结构;
- 2.可调动平衡设计;
- 3.刀具柄部需按C-Lock标准加工。



型号 Model		尺寸Size (mm)				
		dm	D1	D2	L	H
HSK63A-SSF08-80	HSK-A63	8	20	27	80	36
-120	HSK-A63	8	20	27	120	36
HSK63A-SSF10-85	HSK-A63	10	24	32	85	42
-120	HSK-A63	10	24	32	120	42
HSK63A-SSF12-90	HSK-A63	12	24	32	90	47
-120	HSK-A63	12	24	32	120	47
HSK63A-SSF14-90	HSK-A63	14	27	34	90	47
-120	HSK-A63	14	27	34	120	47
HSK63A-SSF16-95	HSK-A63	16	27	34	95	50
-120	HSK-A63	16	27	34	120	50
HSK63A-SSF18-95	HSK-A63	18	33	42	95	50
-120	HSK-A63	18	33	42	120	50
HSK63A-SSF20-100	HSK-A63	20	33	42	100	52
-120	HSK-A63	20	33	42	120	52
HSK63A-SSF25-115	HSK-A63	25	44	53	115	58
-120	HSK-A63	25	44	53	120	58

*附件需单独订购。

附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138
 冷却液套管 Coolant tubes		TU-HSK63	
 扳手 Coolanttube Wrench		W-HSK63	

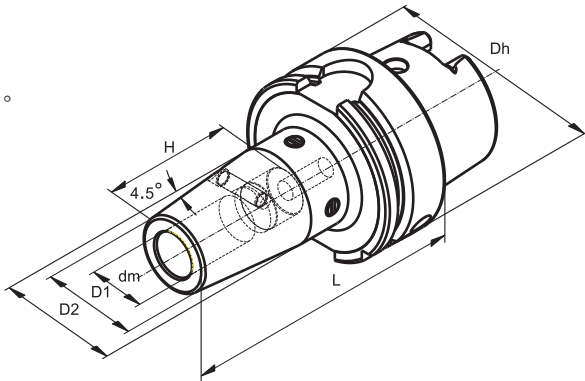
*动平衡螺钉需成组订购。

C-Lock热装刀柄(C-Lock Hot Charging Holder)



25000rpm
G2.5

- 1.C-Lock结构;
- 2.可调动平衡设计;
- 3.刀具柄部需按C-Lock标准加工。



型号 Model		尺寸Size (mm)				
		dm	D1	D2	L	H
HSK100A-SSF08-85	HSK-100	8	20	27	85	36
-120	HSK-100	8	20	27	120	36
HSK100A-SSF10-90	HSK-100	10	24	32	90	42
-120	HSK-100	10	24	32	120	42
HSK100A-SSF12-95	HSK-100	12	24	32	95	47
-120	HSK-100	12	24	32	120	47
HSK100A-SSF14-95	HSK-100	14	27	34	95	47
-120	HSK-100	14	27	34	120	47
HSK100A-SSF16-100	HSK-100	16	27	34	100	50
-120	HSK-100	16	27	34	120	50
HSK100A-SSF18-100	HSK-100	18	33	42	100	50
-120	HSK-100	18	33	42	120	50
HSK100A-SSF20-105	HSK-100	20	33	42	105	52
-120	HSK-100	20	33	42	120	52
HSK100A-SSF25-115	HSK-100	25	44	53	115	58
HSK100A-SSF32-120	HSK-100	32	44	42	120	58

*附件需单独订购。

附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138
 冷却液套管 Coolant tubes		TU-HSK63	
 扳手 Coolanttube Wrench		W-HSK63	

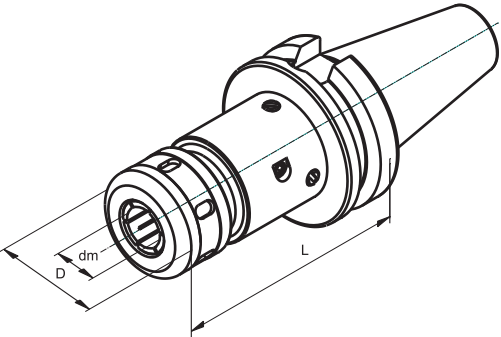
*动平衡螺钉需成组订购。

C-Lock弹簧夹头刀柄(C-Lock Collet Chucks Holder)



25000rpm
G2.5

- 1.C-Lock结构；
- 2.可调动平衡设计；
- 3.刀具柄部需按C-Lock标准加工。



型号 Model		尺寸Size (mm)			 螺母 Nuts	 卡簧 Collets
		dm	D	L		
BT40-SSD1612-85	40	12	40	85	CND16	SD16-12
BT40-SSD1616-85	40	16	40	85	CND16	SD16-16
BT40-SSD2520-100	40	20	55	100	CND25	SD25-20
BT40-SSD2525-100	40	25	55	100	CND25	SD25-25
BT50-SSD1612-100	50	12	40	100	CND16	SD16-12
BT50-SSD1616-100	50	16	40	100	CND16	SD16-16
BT50-SSD2520-120	50	20	55	120	CND25	SD25-20
BT50-SSD2525-120	50	25	55	120	CND25	SD25-25

*附件需单独订购。

附件 Accessories	SD16	SD25
扳手 Hex Wrench	WCN25	WCN32

附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138

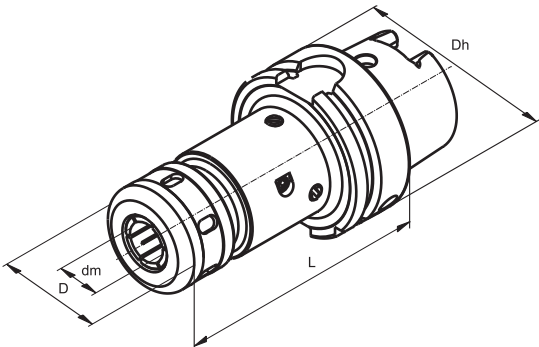
*动平衡螺钉需成组订购。

C-Lock弹簧夹头刀柄(C-Lock Collet Chucks Holder)



25000rpm
G2.5

- 1.C-Lock结构
- 2.可调动平衡设计；
- 3.刀具柄部需按C-Lock标准加工。



型号 Model		尺寸Size (mm)			 螺母 Nuts	 卡簧 Collets
		dm	D	L		
HSK63A-SSD1612-100	HSK-A63	12	40	100	CND16	SD16-12
HSK63A-SSD1616-100	HSK-A63	16	40	100	CND16	SD16-16
HSK63A-SSD2520-120	HSK-A63	20	55	120	CND25	SD25-20
HSK63A-SSD2525-120	HSK-A63	25	55	120	CND25	SD25-25
HSK100A-SSD1612-110	HSK-A100	12	40	110	CND16	SD16-12
HSK100A-SSD1616-110	HSK-A100	16	40	110	CND16	SD16-16
HSK100A-SSD2520-130	HSK-A100	20	55	130	CND25	SD25-20
HSK100A-SSD2525-130	HSK-A100	25	55	130	CND25	SD25-25

*附件需单独订购。

附件 Accessories	SD16	SD25
扳手 Hex Wrench	WCN25	WCN32

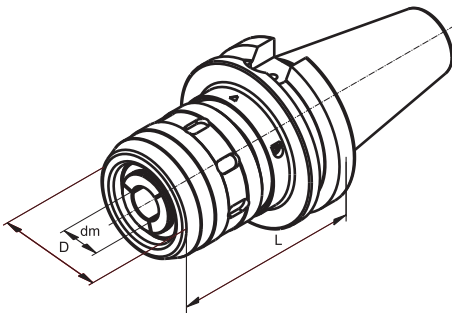
附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138

*动平衡螺钉需成组订购。

C-Lock强力夹头刀柄(C-Lock Milling Chucks Holder)



- 1.强力夹持;
- 2.变径卡簧C-Lock锁紧;
- 3.刀具柄部按DIN1835B标准加工。



型号 Model		尺寸Size (mm)				 卡簧 Collets
		dm	D	L		
BT40-SC32-105	40	32	72	105		SC32-**
BT40-SC32-135	50	32	62	135		SC32-**
BT50-SC32-110	50	32	72	110		SC32-**
BT50-SC32-135	50	32	72	135		SC32-**
BT50-SC42-110	50	42	87	110		SC42-**

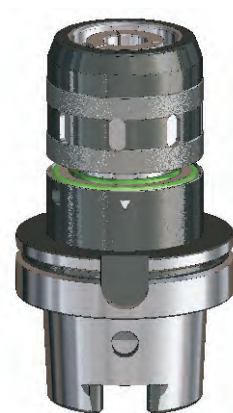
*附件需单独订购。

附件 Accessories	C32	C42
扳手 Hex Wrench	WCN32	WCN40

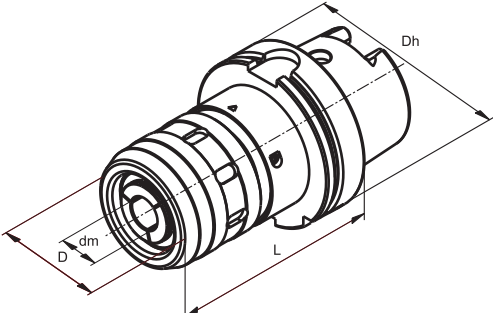
附件 Accessories	 卡簧 Collets	dm
	SC32-16	16
	SC32-18	18
	SC32-20	20
	SC32-25	25
	SC42-32	32

*强力夹头防掉刀柄必须配合C-Lock卡簧使用，且刀具柄部为符合DIN1835B标准的削平直柄。

C-Lock强力夹头刀柄(C-Lock Milling Chucks Holder)



- 1.强力夹持;
- 2.变径卡簧C-Lock锁紧;
- 3.刀具柄部按DIN1835B标准加工。



型号 Model		dm	尺寸Size (mm)			 卡簧 Collets
			D	L		
HSK63A-SC32-115	HSK-A63	32	72	115		SC32-**
HSK100A-SC32-120	HSK-A100	32	72	120		SC32-**
HSK100A-SC32-120	HSK-A100	32	72	120		SC32-**
HSK100A-SC42-120	HSK-A100	42	87	120		SC42-**

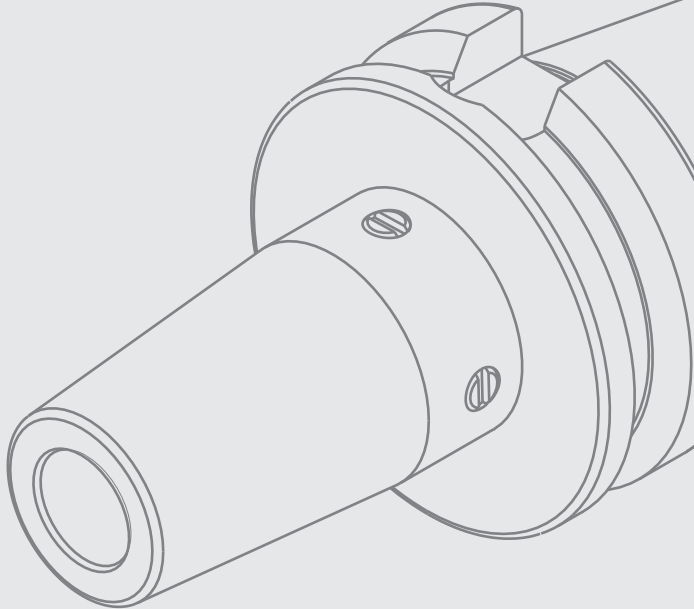
*附件需单独订购。

附件 Accessories	C32	C42
扳手 Hex Wrench	WCN32	WCN40

附件 Accessories	Dh=63	Dh=100
冷却液套管 Coolant tubes	TU-HSK63	TU-HSK100
扳手 Coolanttube Wrench	W-HSK63	W-HSK100

附件 Accessories	 卡簧 Collets	dm
	SC32-16	16
	SC32-18	18
	SC32-20	20
	SC32-25	25
	SC42-32	32

*强力夹头防掉刀柄必须配合C-Lock卡簧使用，且刀具柄部为符合DIN1835B标准的削平直柄。



可调动平衡热装柄
Variable Balance Hot Charging Holder

- 可调动平衡设计。

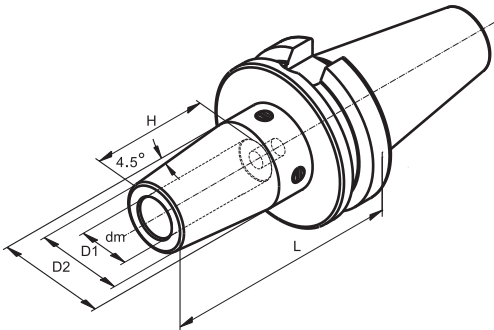


热装柄(可调平衡)(Shrink Fit Toolholders—Variable Balance)



25000rpm
G2.5

可调动平衡设计。



型号 Model		尺寸Size (mm)					 螺钉 Screw
		dm	D1	D2	L	H	
BT40-BSF08-90	40	8	20	27	90	36	SO06014C
-120	40	8	20	27	120	36	SO06014C
BT40-BSF10-90	40	10	24	32	90	42	SO08014C
-120	40	10	24	32	120	42	SO08014C
BT40-BSF12-90	40	12	24	32	90	47	SO08014C
-120	40	12	24	32	120	47	SO08014C
BT40-BSF14-90	40	14	27	34	90	47	SO08014C
-120	40	14	27	34	120	47	SO08014C
BT40-BSF16-90	40	16	27	34	90	50	SO12014C
-120	40	16	27	34	120	50	SO12014C
BT40-BSF18-90	40	18	33	42	90	50	SO12014C
-120	40	18	33	42	120	50	SO12014C
BT40-BSF20-90	40	20	33	42	90	52	SO16016C
-120	40	20	33	42	120	52	SO16016C
BT40-BSF25-100	40	25	44	53	100	58	SO16016C
-120	40	25	44	53	120	58	SO16016C

*附件需单独订购。

附件 Accessories	dm=8	dm=10	dm=12	dm=14	dm=16	dm=18	dm=20	dm=25	dm=32
扳手 Hex Wrench	S3	S4	S4	S4	S6	S6	S8	S8	S8

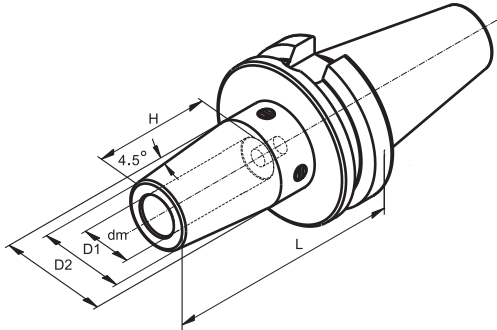
附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138

*动平衡螺钉需成组订购。

热装柄(可调平衡)(Shrink Fit Toolholders—Variable Balance)



可调动平衡设计。



型号 Model		尺寸Size (mm)					 螺钉 Screw
		dm	D1	D2	L	H	
BT50-BSF08-100	50	8	20	27	100	36	SO06014C
-120	50	8	20	27	120	36	SO06014C
BT50-BSF10-100	50	10	24	32	100	42	SO08014C
-120	50	10	24	32	120	42	SO08014C
BT50-BSF12-100	50	12	24	32	100	47	SO08014C
-120	50	12	24	32	120	47	SO08014C
BT50-BSF14-100	50	14	27	34	100	47	SO08014C
-120	50	14	27	34	120	47	SO08014C
BT50-BSF16-100	50	16	27	34	100	50	SO12014C
-120	50	16	27	34	120	50	SO12014C
BT50-BSF18-100	50	18	33	42	100	50	SO12014C
-120	50	18	33	42	120	50	SO12014C
BT50-BSF20-100	50	20	33	42	100	52	SO16016C
-120	50	20	33	42	120	52	SO16016C
BT50-BSF25-110	50	25	44	53	110	58	SO16016C
-135	50	25	44	60	135	58	SO16016C
BT50-BSF32-110	50	32	44	53	110	58	SO16016C
-135	50	32	44	60	135	58	SO16016C

*附件需单独订购。

附件 Accessories	dm=8	dm=10	dm=12	dm=14	dm=16	dm=18	dm=20	dm=25	dm=32
扳手 Hex Wrench	S3	S4	S4	S4	S6	S6	S8	S8	S8

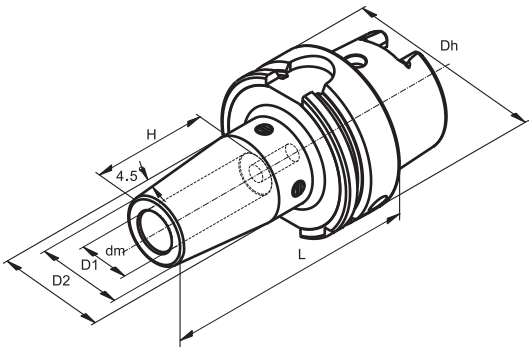
附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138

*动平衡螺钉需成组订购。

热装柄(可调平衡)(Shrink Fit Toolholders—Variable Balance)



可调动平衡设计。



型号 Model		尺寸Size (mm)						 螺钉 Screw
		Dh	dm	D1	D2	L	H	
HSK63A-BSF08-80	HSK-A63	63	8	20	27	80	36	SO06014C
-120	HSK-A63	63	8	20	27	120	36	SO06014C
HSK63A-BSF10-85	HSK-A63	63	10	24	32	85	42	SO08014C
-120	HSK-A63	63	10	24	32	120	42	SO08014C
HSK63A-BSF12-90	HSK-A63	63	12	24	32	90	47	SO08014C
-120	HSK-A63	63	12	24	32	120	47	SO08014C
HSK63A-BSF14-90	HSK-A63	63	14	27	34	90	47	SO08014C
-120	HSK-A63	63	14	27	34	120	47	SO08014C
HSK63A-BSF16-95	HSK-A63	63	16	27	34	95	50	SO12014C
-120	HSK-A63	63	16	27	34	120	50	SO12014C
HSK63A-BSF18-95	HSK-A63	63	18	33	42	95	50	SO12014C
-120	HSK-A63	63	18	33	42	120	50	SO12014C
HSK63A-BSF20-100	HSK-A63	63	20	33	42	100	52	SO16016C
-120	HSK-A63	63	20	33	42	120	52	SO16016C
HSK63A-BSF25-115	HSK-A63	63	25	44	53	115	58	SO16016C

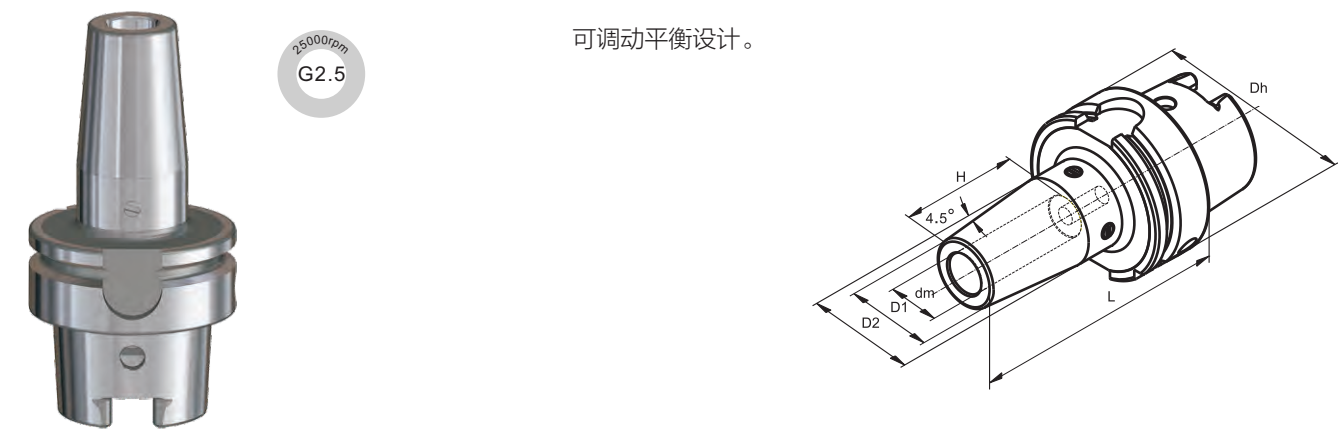
*附件需单独订购。

附件 Accessories	dm=8	dm=10	dm=12	dm=14	dm=16	dm=18	dm=20	dm=25	dm=32
扳手 Hex Wrench	S3	S4	S4	S4	S6	S6	S8	S8	S8

附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138
冷却液套管 Coolant tubes	TU-HSK63		
扳手 Coolant tube Wrench	W-HSK63		

*动平衡螺钉需成组订购。

热装柄(可调平衡)(Shrink Fit Toolholders—Variable Balance)



型号 Model		尺寸Size (mm)						
		Dh	dm	D1	D2	L	H	
HSK100A-BSF08-85	HSK-A100	100	8	20	27	85	36	SO06014C
-120	HSK-A100	100	8	20	27	120	36	SO06014C
HSK100A-BSF10-90	HSK-A100	100	10	24	32	90	42	SO08014C
-120	HSK-A100	100	10	24	32	120	42	SO08014C
-160	HSK-A100	100	10	24	34	160	42	SO08014C
HSK100A-BSF12-95	HSK-A100	100	12	24	32	95	47	SO08014C
-120	HSK-A100	100	12	24	32	120	47	SO08014C
HSK100A-BSF14-95	HSK-A100	100	14	27	34	95	47	SO08014C
-120	HSK-A100	100	14	27	34	120	47	SO08014C
HSK100A-BSF16-100	HSK-A100	100	16	27	34	100	50	SO12014C
-120	HSK-A100	100	16	27	34	120	50	SO12014C
HSK100A-BSF18-100	HSK-A100	100	18	33	42	100	50	SO12014C
-120	HSK-A100	100	18	33	42	120	50	SO12014C
HSK100A-BSF20-105	HSK-A100	100	20	33	42	105	52	SO16016C
-120	HSK-A100	100	20	33	42	120	52	SO16016C
HSK100A-BSF25-115	HSK-A100	100	25	44	53	115	58	SO16016C
HSK100A-BSF32-120	HSK-A100	100	32	44	53	120	58	SO16016C

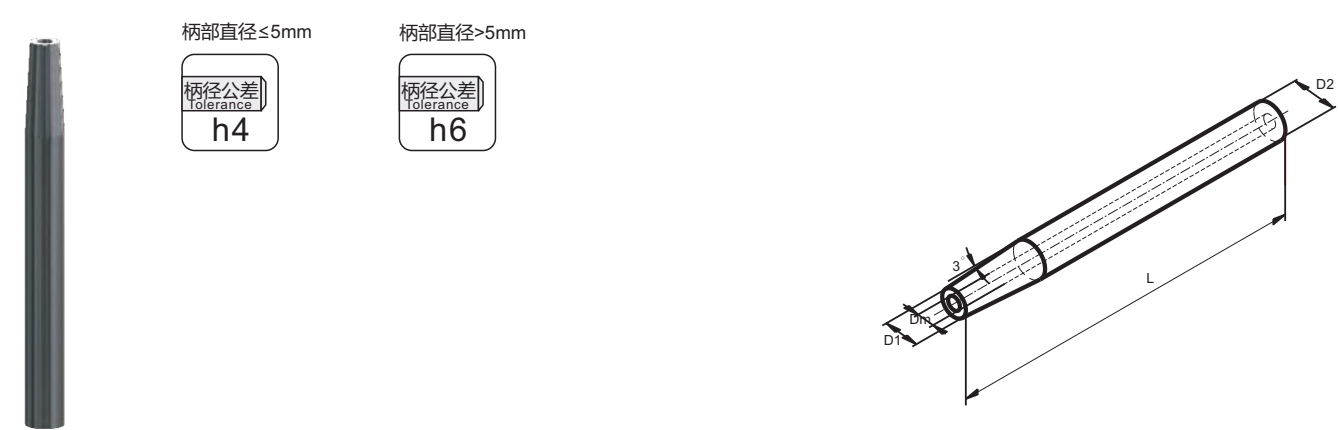
*附件需单独订购。

附件 Accessories	dm=8	dm=10	dm=12	dm=14	dm=16	dm=18	dm=20	dm=25	dm=32
 扳手 Hex Wrench	S3	S4	S4	S4	S6	S6	S8	S8	S8

附件 Accessories	订货号 Ordering code	型号 Model	重量/g Weight/g
 动平衡螺钉 Balance Screws	BSM06	M6×3.5	0.478
		M6×4	0.524
		M6×5	0.64
		M6×5.5	0.728
		M6×5.75	0.76
		M6×6	0.808
		M6×6.25	0.862
		M6×6.5	0.894
		M6×7	0.978
		M6×7.5	1.066
		M6×8	1.138
 冷却液套管 Coolant tubes	TU-HSK100		
 扳手 Coolant tube Wrench	W-HSK100		

*动平衡螺钉需成组订购。

热装接杆(Shrink Fit Extensions)

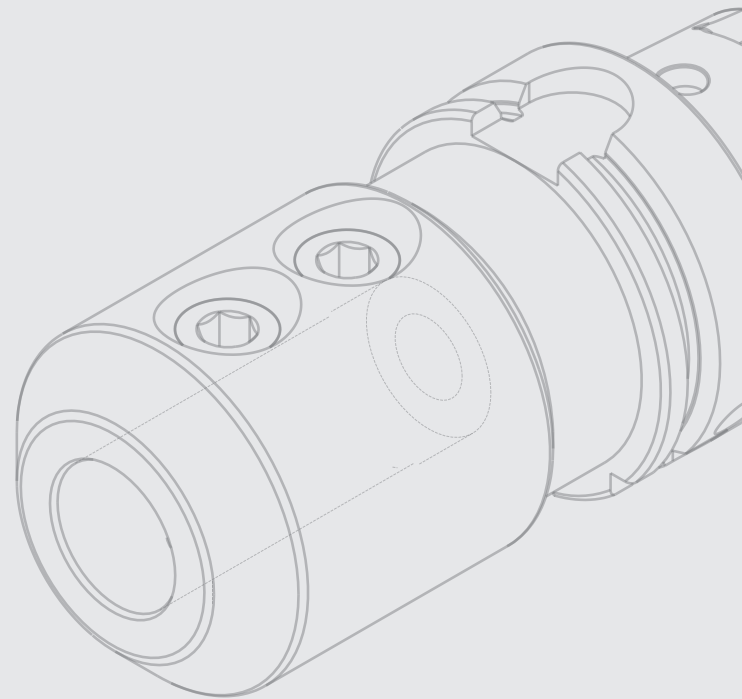


型号 Model	尺寸Size (mm)			
	L	dm	D1	D2
C12-SFX03-160	160	3	8	12
C12-SFX04-160	160	4	8	12
C16-SFX03-160	160	3	8	16
C16-SFX04-160	160	4	8	16
C16-SFX05-160	160	5	12	16
C16-SFX06-160	160	6	12	16
C20-SFX05-160	160	5	12	20
C20-SFX06-160	160	6	12	20
C20-SF08-160	160	8	14	20
C25-SF08-160	160	8	14	25
C25-SF10-160	160	10	20	25
C25-SF12-160	160	12	20	25
C25-SF16-160	160	16	22	25
C32-SF10-160	160	10	27	32
C32-SF12-160	160	12	27	32
C32-SF16-160	160	16	27	32
C32-SF18-160	160	18	27	32
C32-SF20-160	160	20	27	32

*附件需单独订购。

备件 Spare parts	dm=6	dm=8	dm=10	dm=12	dm=16	dm=18	dm=20
 中心通油螺钉 Coolant Screw	SO05014C	SO06014C	SO08014C	SO08014C	SO12014C	SO12014C	SO16016C

备件 Spare parts	dm=6	dm=8	dm=10	dm=12	dm=16	dm=18	dm=20
 扳手 Hex Wrench	S2.5	S3	S4	S4	S6	S8	S8

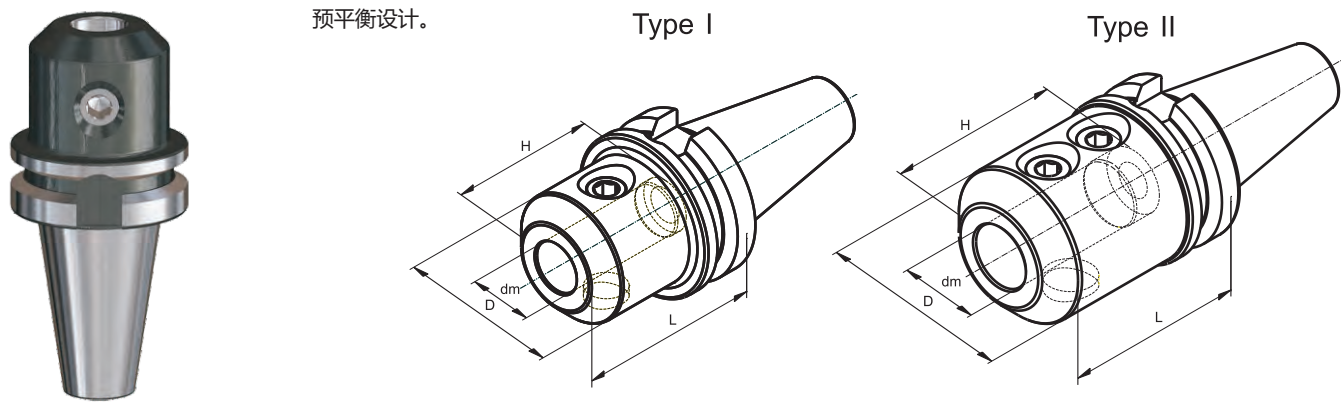


侧固式刀柄 Side Clamping Holder +

- 安全性高，更可靠；
侧固式刀柄其自身就具有刀具防滑、防拔出功能，无需额外设计锁紧结构，安全性高，更可靠。
- 预平衡结构设计；
预平衡结构设计解决了侧固式刀柄不平衡问题。



侧固式刀柄(Side Lock Holder)

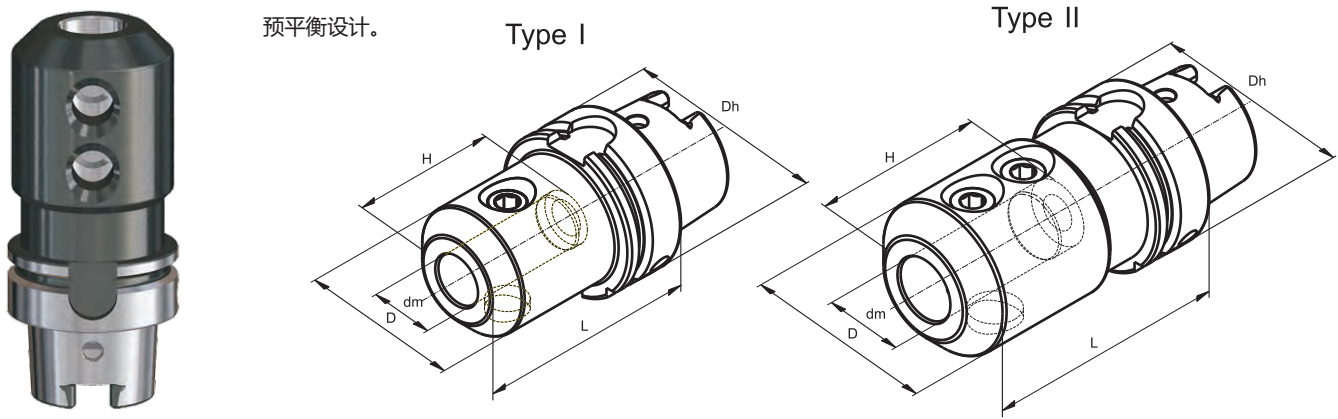


型号 Model		尺寸Size (mm)				 螺钉 Screw	型式 Type
		dm	D	L	H		
BT40-BXP16-63	40	16	48	63	52	SXP16	I
BT40-BXP20-70	40	20	50	70	54	SXP20	I
BT40-BXP25-90	40	25	60	90	66	SXP25	II
BT40-BXP32-100	40	32	80	100	70	SXP32	II
BT50-BXP16-80	50	16	48	80	52	SXP16	I
BT50-BXP20-80	50	20	50	80	54	SXP20	I
BT50-BXP25-100	50	25	60	100	66	SXP25	II
BT50-BXP32-105	50	32	68	105	70	SXP32	II
BT50-BXP40-120	50	40	84	120	80	SXP32	II

*附件需单独订购。

附件Accessories	dm=16	dm=20	dm=25	dm=32	dm=40
 扳手 Hex Wrench	S6	S8	S8	S10	S10

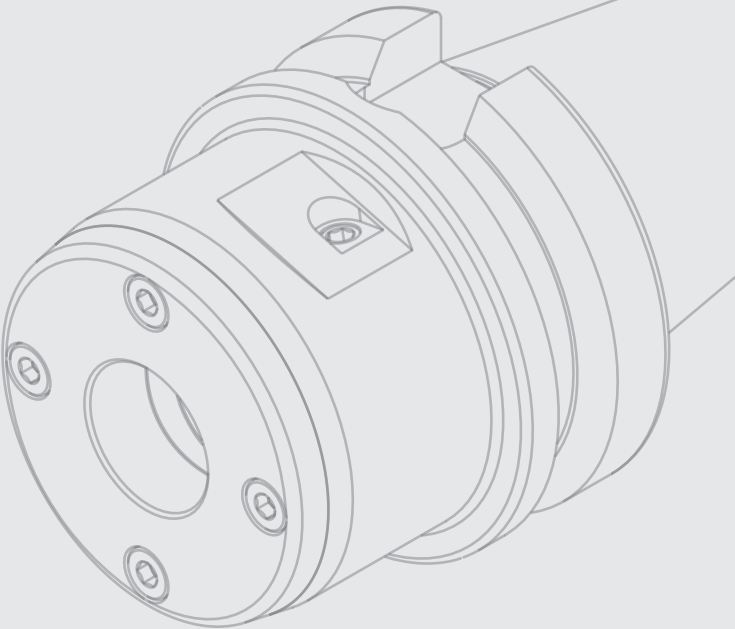
侧固式刀柄(Side Lock Holder)



型号 Model		尺寸Size (mm)					螺钉 Screw	型式 Type
		DH	dm	D	L	H		
HSK63A-BXP16-80	HSK-A63	63	16	48	80	52	SXP16	I
HSK63A-BXP20-80	HSK-A63	63	20	50	80	54	SXP20	I
HSK63A-BXP25-110	HSK-A63	63	25	60	110	66	SXP25	II
HSK63A-BXP32-110	HSK-A63	63	32	68	110	70	SXP32	II
HSK100A-BXP16-100	HSK-A100	100	16	48	100	52	SXP16	I
HSK100A-BXP20-100	HSK-A100	100	20	50	100	54	SXP20	I
HSK100A-BXP25-100	HSK-A100	100	25	60	100	66	SXP25	II
HSK100A-BXP32-100	HSK-A100	100	32	68	100	66	SXP32	II
HSK100A-BXP40-120	HSK-A100	100	40	84	120	80	SXP32	II
-160	HSK-A100	100	40	84	160	80	SXP32	II

*附件需单独订购。

附 件	Accessories	dm=16	dm=20	dm=25	dm=32	dm=40
扳 手	Hex Wrench	S6	S8	S8	S10	S10
冷却液套管	Coolant tubes			TU-HSK63		
扳 手	Coolanttube Wrench			W-HSK63		



强力液压柄 Power Hydraulic Pressure Holder+

- 高径向刚度，紧凑设计；
全新的强力液压刀柄结构设计紧凑、粗壮，具有更好的径向刚度，针对高速强力、大切削量加工场合表现更优异。
- 超强夹持力，高可靠性；
高达750Nm(Φ20mm)的扭矩，保证刀具更高的切削效率。
- 优良的液压阻尼减振；
在粗加工时具有优良的阻尼减振性能，明显改善被加工工件表面质量。
- 操作、维护简单。



强力液压柄(Power Hydraulic Pressure Holder)



型号 Model		尺寸Size (mm)			 螺钉 Screw
		dm	D	L	
BT40-HC20P-60	40	20	53	60	SO08014C
BT50-HC20P-70	50	20	53	70	SO08014C
BT50-HC25P-75	50	25	65	75	SO08014C
BT50-HC32P-80	50	32	75	80	SO08014C

*附件需单独订购。

附件 Accessories	dm=20	dm=25	dm=32
 扳手 Hex Wrench		TS5	

强力液压柄(Power Hydraulic Pressure Holder)



型号 Model		尺寸Size (mm)			 螺钉 Screw
		dm	D	L	
HSK63A-HC20P-90	HSK-A63	20	53	90	SO08014C
HSK100A-HC20P-95	HSK-A100	20	53	95	SO08014C
HSK100A-HC25P-105	HSK-A100	25	65	105	SO08014C
HSK100A-HC32P-110	HSK-A100	32	75	110	SO08014C

*附件需单独订购。

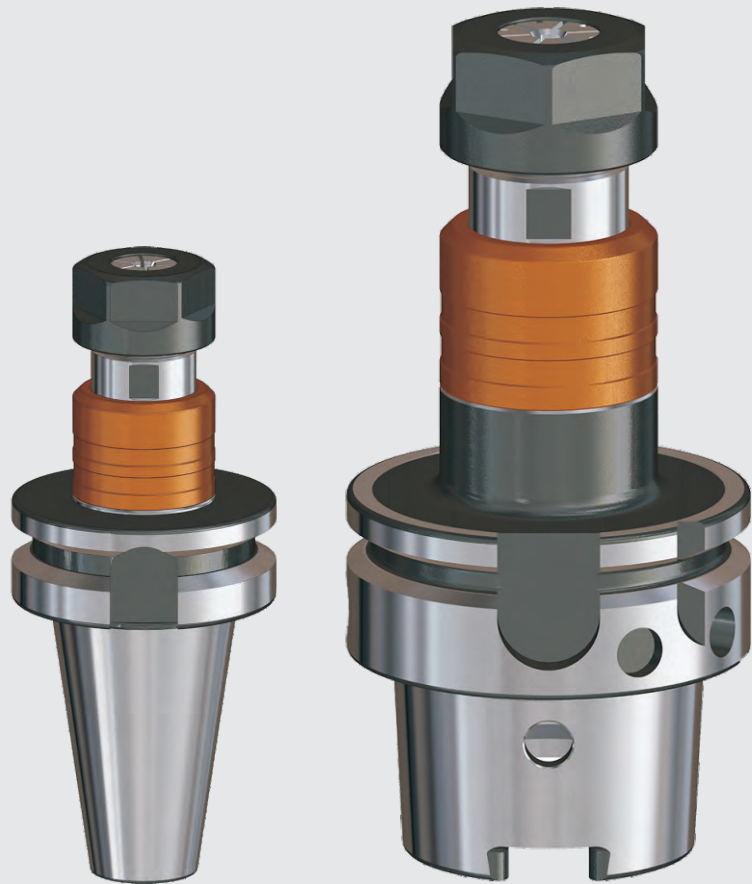
附件 Accessories	dm=20	dm=25	dm=32
 扳手 Hex Wrench		TS5	

附 件 Accessories		Dh=63	Dh=100
 冷却液套管	Coolant tubes	TU-HSK63	TU-HSK100
 扳 手	Coolanttube Wrench	W-HSK63	W-HSK100

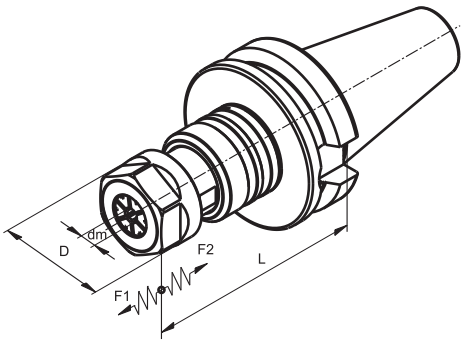


微补偿同步攻丝刀柄——V柄
V-Holder

- 提高丝锥寿命;
- 提高加工效率;
- 降低设备精度要求;
- 提高螺纹精度及表面质量;
- 挤压丝锥首选;
- 适用于英制螺纹加工。



V柄(V-Holder)



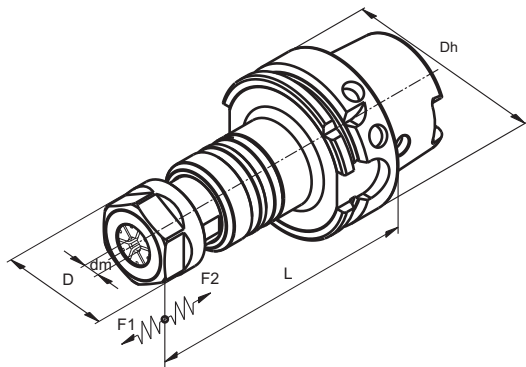
型号 Model		适用丝锥	尺寸Size (mm)					 螺母 Nuts	 卡簧 Collets
			D	dm	L	F1	F2		
BT30-V11-70	30	M0.5~M4(No.0~No.8)	16	3~7	70	0.5	0.5	ERP-11S	ER11
BT40-V20-85	40	M4~M12(No.8~7/16)	34	3~10	85	0.5	0.5	CN20HS	ER20
BT50-V20-100	50		34	3~10	100	0.5	0.5	CN20HS	ER20
BT40-V32-110	40	M4~M20(No.8~4/3)	50	3~16	100	0.5	0.5	CN32B	ER32
BT50-V32-115	50		50	3~16	115	0.5	0.5	CN32B	ER32

*附件需单独订购;
*若需要中心通油,可选配内冷附件。

内冷附件 Spare Parts with Coolant	V20	V32
内冷螺母 Coolant Nuts	CN20C	CN32C
止水垫圈 Sealing Disk	DER20C-*	DER32C-*

附件 Accessories	V20	V32
螺母扳手 Wrench for Nut	W30D	YER32B
限位扳手 Wrench	W24D	W36D

V柄(V-Holder)



型号 Model		适用丝锥	尺寸Size (mm)			F1	F2	 螺母 Nuts	 卡簧 Collets
			D	dm	L				
HSK63A-V20-100	HSK-A63	M4-M12(No.8~7/16)	34	3~10	100	0.5	0.5	CN20HS	ER20
HSK100A-V20-110	HSK-A100		34	3~10	110	0.5	0.5	CN20HS	ER20
HSK63A-V32-120	HSK-A63	M4-M20(No.8~4/3)	50	3~16	120	0.5	0.5	CN32B	ER32
HSK100A-V32-130	HSK-A100		50	3~16	130	0.5	0.5	CN32B	ER32

*附件需单独订购;
*若需要中心通油, 可选配内冷附件。

内冷附件 Spare Parts with Coolant	V20	V32
内冷螺母 Coolant Nuts	CN20C	CN32C
止水垫圈 Sealing Disk	DER20C-*	DER32C-*

附件 Accessories	V20	V32
螺母扳手 Wrench for Nut	W30D	YER32B
限位扳手 Wrench	W24D	W36D

附件 Accessories	HSK-A63	HSK-A100
冷却液套管 Coolant tubes	TU-HSK63	TU-HSK100
扳手 Coolant tubes wrenches	W-HSK63	W-HSK100



航空工业整硬合金铣刀
Aerospace Industry
Solid Carbide End Mills

- 较强的航空工业整硬合金铣刀定制能力!

铝用整体硬质合金立铣刀
(Solid Carbide End Mills for Aluminium Alloy)



型号 Model	尺寸Size (mm)				
	dc	dm	L	l	R
ETN2300R03-4	4	4	51	14	0.3
ETN2300R05-4	4	4	51	14	0.5
ETN2300R03-6	6	6	61	19	0.3
ETN2300R05-6	6	6	61	19	0.5
ETN2300R10-6	6	6	61	19	1
ETN2300R03-8	8	8	61	21	0.3
ETN2300R05-8	8	8	61	21	0.5
ETN2300R10-8	8	8	61	21	1
ETN2300R05-10	10	10	70	22	0.5
ETN2300R10-10	10	10	70	22	1
ETN2300R20-10	10	10	70	22	2
ETN2300R30-10	10	10	70	22	3
ETN2300R05-12	12	12	76	25	0.5
ETN2300R10-12	12	12	76	25	1
ETN2300R20-12	12	12	76	25	2
ETN2300R30-12	12	12	76	25	3
ETN2300R05-14	14	14	89	32	0.5
ETN2300R20-14	14	14	89	32	2
ETN2300R05-16	16	16	89	32	0.5
ETN2300R20-16	16	16	89	32	2
ETN2300R30-16	16	16	89	32	3
ETN2300R05-18	18	18	102	38	0.5
ETN2300R20-18	18	18	102	38	2
ETN2300R05-20	20	20	102	38	0.5
ETN2300R20-20	20	20	102	38	2
ETN2300R30-20	20	20	102	38	3

*可根据用户的加工要求制造。

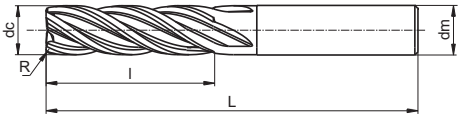
铝用整体硬质合金加长型立铣刀
(Elongated Solid Carbide End Mills for Aluminium Alloy)



型号 Model	尺寸Size (mm)				
	dc	dm	L	l	r
EFN2300R03-4	4	4	80	20	0.3
EFN2300R05-4	4	4	80	20	0.5
EFN2300R03-6	6	6	90	25	0.3
EFN2300R05-6	6	6	90	25	0.5
EFN2300R10-6	6	6	90	25	1
EFN2300R03-8	8	8	110	35	0.3
EFN2300R05-8	8	8	110	35	0.5
EFN2300R10-8	8	8	110	35	1
EFN2300R05-10	10	10	130	45	0.5
EFN2300R10-10	10	10	130	45	1
EFN2300R20-10	10	10	130	45	2
EFN2300R05-12	12	12	150	55	0.5
EFN2300R10-12	12	12	150	55	1
EFN2300R20-12	12	12	150	55	2
EFN2300R30-12	12	12	150	55	3
EFN2300R05-14	14	14	175	70	0.5
EFN2300R20-14	14	14	175	70	2
EFN2300R05-16	16	16	175	70	0.5
EFN2300R20-16	16	16	175	70	2
EFN2300R30-16	16	16	175	70	3
EFN2300R05-18	18	18	175	70	0.5
EFN2300R20-18	18	18	175	70	2
EFN2300R05-20	20	20	200	75	0.5
EFN2300R20-20	20	20	200	75	2
EFN2300R30-20	20	20	200	75	3

*可根据用户的加工要求制造。

钛合金用整体硬质合金立铣刀
(Solid Carbide End Mills for Titanium Alloy)



型号 Model	尺寸Size (mm)				
	dc	dm	L	l	R
ETST4300R05-4	4	4	51	14	0.5
ETST4300R05-6	6	6	61	19	0.5
ETST4300R05-8	8	8	61	21	0.5
ETST4300R10-8	8	8	61	21	1
ETST4300R05-10	10	10	70	22	0.5
ETST4300R10-10	10	10	70	22	1
ETST4300R20-10	10	10	70	22	2
ETST4300R05-12	12	12	76	25	0.5
ETST4300R10-12	12	12	76	25	1
ETST4300R20-12	12	12	76	25	2
ETST4300R05-14	14	14	89	32	0.5
ETST4300R20-14	14	14	89	32	2
ETST4300R05-16	16	16	89	32	0.5
ETST4300R20-16	16	16	89	32	2
ETST4300R30-16	16	16	89	32	3
ETST4300R05-18	18	18	102	38	0.5
ETST4300R20-18	18	18	102	38	2
ETST4300R05-20	20	20	102	38	0.5
ETST4300R20-20	20	20	102	38	2
ETST4300R30-20	20	20	102	38	3

*可根据用户的加工要求制造。