



PRODUCT CATALOGUE 2023



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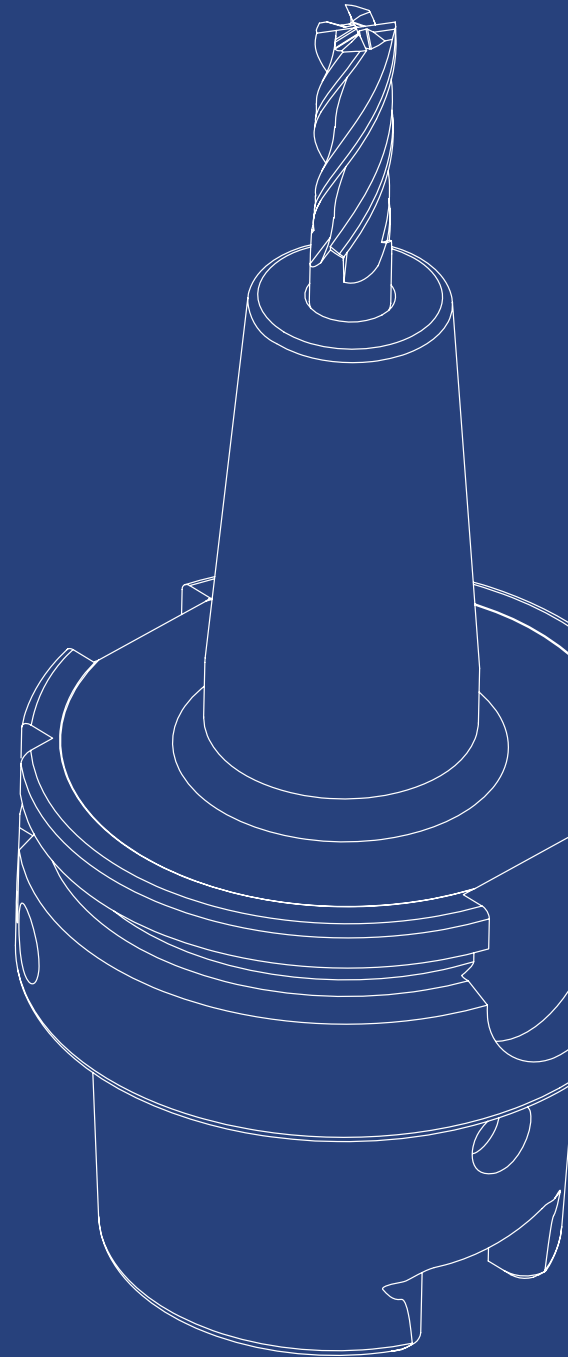
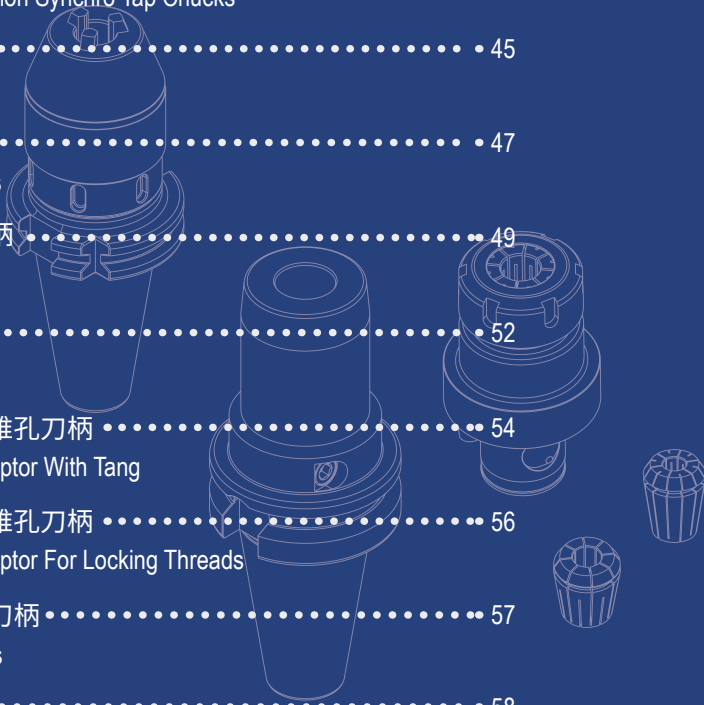


Qianyangxia Village, Wenqiao
Town, Wenling City, Zhejiang
Province, the PRC



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液压刀柄 / Hydraulic Chucks

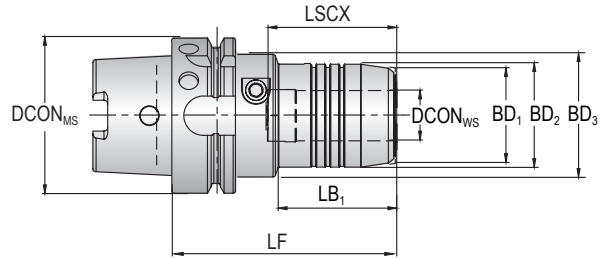
DIN69893 HSK-A



特点：

- 综合跳动: ≤ 0.003 (4xd)
- 一般六角扳手即可实现快速换刀
- 要求刀具柄部公差 h6
- 内通水设计, 标配轴向调整螺钉
- 标配动平衡 G2.5/2500rpm

○ 可搭配液压卡簧实现变径



型号 Model DIN69893		尺寸 Size (mm)									
		DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	BD ₃	LF	LSCX			LB ₁
HSK40A-HCM06-70	HSK-A40	40	6	22	26	45	70	37	16	HCSO05014C	-
HSK40A-HCM08-70	HSK-A40	40	8	24	28	48	70	37	16	HCSO05014C	-
HSK40A-HCM10-75	HSK-A40	40	10	26	30	48	75	41	20	HCSO05014C	-
HSK40A-HCM12-80	HSK-A40	40	12	28	32	48	80	46	25	HCSO05014C	HC12
HSK50A-HCM06-75	HSK-A50	50	6	22	26	42	75	37	28	HCSO05014C	-
HSK50A-HCM08-75	HSK-A50	50	8	24	28	42	75	37	28	HCSO06014C	-
HSK50A-HCM10-80	HSK-A50	50	10	26	30	42	80	41	38	HCSO06014C	-
HSK50A-HCM12-85	HSK-A50	50	12	28	32	42	85	46	44	HCSO06014C	HC12
HSK50A-HCM16-90	HSK-A50	50	16	34	38	53	90	49	25	HCSO06014C	-
HSK50A-HCM20-90	HSK-A50	50	20	38	42	53	90	51	29	HCSO06014C	HC20
HSK50A-HCM25-90	HSK-A50	50	25	53	57	72	90	57	25	HCSO06014C	HC25

*如需其它型式或规格的 HSK 类产品请与本公司联系。

*液压卡簧资料参见 68 页。

*附件需单独订购。

附件 Accessories	DCON _{WS}						
	6	8	10	12	16	20	25
扳手 Hex Wrench	TS5						TS6
附件 Accessories	DCON _{MS} =40			DCON _{MS} =50			
冷却液套管 Coolant Tube	TU-HSK40			TU-HSK50			
扳手 Coolant Tube Wrench	W-HSK40			W-HSK50			

液压刀柄 / Hydraulic Chucks

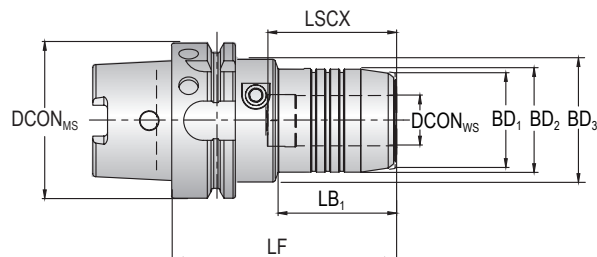
DIN69893 HSK-A



特点：

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- 一般六角扳手即可实现快速换刀
- 要求刀具柄部公差 h6
- 内通水设计, 标配轴向调整螺钉
- 标配动平衡 G2.5/25000rpm

○ 可搭配液压卡簧实现变径



型号 Model	HSK-A63	尺寸 Size (mm)								螺钉 Screw	卡簧 Collets
		DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	BD ₃	LF	LSCX	LB ₁		
HSK63A-HCM06-70	HSK-A63	63	6	22	26	50	70	37	24	HCSO05014C	-
-90	HSK-A63	63	6	22	26	50	80	37	44	HCSO05014C	-
-120	HSK-A63	63	6	22	26	50	120	37	74	HCSO05014C	-
-150	HSK-A63	63	6	22	26	50	150	37	104	HCSO05014C	-
-200	HSK-A63	63	6	22	26	50	200	37	154	HCSO05014C	-
HSK63A-HCM08-70	HSK-A63	63	8	24	28	50	70	37	25	HCSO06014C	-
-90	HSK-A63	63	8	24	28	50	90	37	45	HCSO06014C	-
-120	HSK-A63	63	8	24	28	50	120	37	75	HCSO06014C	-
-150	HSK-A63	63	8	24	28	50	150	37	105	HCSO06014C	-
-200	HSK-A63	63	8	24	28	50	200	37	155	HCSO06014C	-
HSK63A-HCM10-80	HSK-A63	63	10	26	30	50	80	41	35	HCSO08014C	-
-120	HSK-A63	63	10	26	30	50	120	41	75	HCSO08014C	-
-150	HSK-A63	63	10	26	30	50	150	41	105	HCSO08014C	-
-200	HSK-A63	63	10	26	30	50	200	41	155	HCSO08014C	-
HSK63A-HCM12-85	HSK-A63	63	12	28	32	50	85	46	40	HCSO08014C	HC12
-120	HSK-A63	63	12	28	32	50	120	46	75	HCSO08014C	HC12
-150	HSK-A63	63	12	28	32	50	150	46	105	HCSO08014C	HC12
-200	HSK-A63	63	12	28	32	50	200	46	155	HCSO08014C	HC12
HSK63A-HCM14-85	HSK-A63	63	14	30	34	50	85	46	40	HCSO08014C	-
-150	HSK-A63	63	14	30	34	50	150	46	105	HCSO08014C	-
HSK63A-HCM16-90	HSK-A63	63	16	34	38	50	90	49	46	HCSO08014C	-
-120	HSK-A63	63	16	34	38	50	120	49	76	HCSO08014C	-
-150	HSK-A63	63	16	34	38	50	150	49	106	HCSO08014C	-
-200	HSK-A63	63	16	34	38	50	200	49	156	HCSO08014C	-
HSK63A-HCM18-90	HSK-A63	63	18	36	40	50	90	49	47	HCSO08014C	-
-150	HSK-A63	63	18	36	40	50	150	49	107	HCSO08014C	-
HSK63A-HCM20-90	HSK-A63	63	20	38	42	50	90	51	48	HCSO08014C	HC20
-120	HSK-A63	63	20	38	42	50	120	51	78	HCSO08014C	HC20
-150	HSK-A63	63	20	38	42	50	150	51	108	HCSO08014C	HC20
-200	HSK-A63	63	20	38	42	50	200	51	158	HCSO08014C	HC20
HSK63A-HCM25-120	HSK-A63	63	25	53	57	63	120	57	59	HCSO12014C	-
HSK63A-HCM32-125	HSK-A63	63	32	60	64	75	125	61	63	HCSO12014C	HC32

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* 液压卡簧资料参见 68 页。

* 附件需单独订购。

附件 Accessories	DCON _{WS}									
	6	8	10	12	14	16	18	20	25	32
扳手 Hex Wrench	TS5								TS6	
冷却液套管 Coolant Tube									TU-HSK63	
扳手 Coolant Tube Wrench									W-HSK63	

液压刀柄 / Hydraulic Chucks

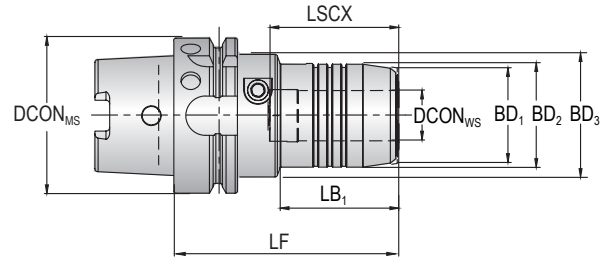
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○ 可搭配液压卡簧实现变径



型号 Model		尺寸 Size (mm)									
		DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	BD ₃	LF	LSCX			LB ₁
HSK80A-HCM12-95	HSK-A80	80	12	28	32	50	95	46	50	HCSO08014C	HC12
HSK80A-HCM20-105	HSK-A80	80	20	38	42	50	105	51	47.5	HCSO12014C	HC20
HSK80A-HCM32-110	HSK-A80	80	32	60	64	68	110	57	65	HCSO12014C	HC32

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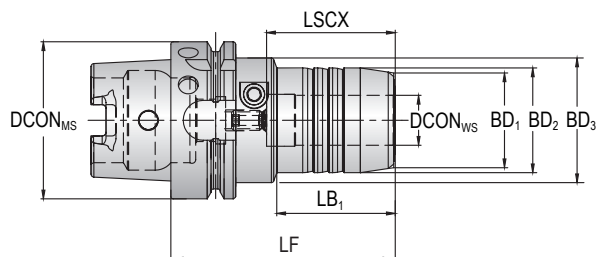
附件 Accessories	DCON _{WS}		
	12	20	32
扳手 Hex Wrench	TS5		TS6
冷却液套管 Coolant Tube	TU-HSK80		
扳手 Coolant Tube Wrench	W-HSK80		

液压刀柄 / Hydraulic Chucks

DIN69893 HSK-A



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 - 标配动平衡 G2.5/25000rpm
- 可搭配液压卡簧实现变径。



型号 Model	DIN69893	尺寸 Size (mm)								螺钉 Screw	卡簧 Collets
		DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	BD ₃	LF	LSCX	LB ₁		
HSK100A-HCM06-75	HSK-A100	100	6	22	26	50	75	37	26	HCSO05014C	-
-90	HSK-A100	100	6	22	26	50	90	37	41	HCSO05014C	-
-120	HSK-A100	100	6	22	26	50	120	37	71	HCSO05014C	-
-150	HSK-A100	100	6	22	26	50	150	37	101	HCSO05014C	-
HSK100A-HCM08-75	HSK-A100	100	8	24	28	50	75	37	26	HCSO06014C	-
-90	HSK-A100	100	8	24	28	50	90	37	41	HCSO06014C	-
-120	HSK-A100	100	8	24	28	50	120	37	71	HCSO06014C	-
-150	HSK-A100	100	8	24	28	50	150	37	101	HCSO06014C	-
HSK100A-HCM10-90	HSK-A100	100	10	26	30	50	90	41	42	HCSO08014C	-
-120	HSK-A100	100	10	26	30	50	120	41	72	HCSO08014C	-
-150	HSK-A100	100	10	26	30	50	150	41	102	HCSO08014C	-
HSK100A-HCM12-95	HSK-A100	100	12	28	32	50	95	46	47	HCSO08014C	HC12
-120	HSK-A100	100	12	28	32	50	120	46	72	HCSO08014C	HC12
-150	HSK-A100	100	12	28	32	50	150	46	102	HCSO08014C	HC12
-200	HSK-A100	100	12	28	32	50	200	46	152	HCSO08014C	HC12
HSK100A-HCM14-95	HSK-A100	100	14	30	34	50	95	46	53	HCSO08014C	-
-150	HSK-A100	100	14	30	34	50	150	46	103	HCSO08014C	-
HSK100A-HCM16-100	HSK-A100	100	16	34	38	50	100	49	53	HCSO08014C	-
-120	HSK-A100	100	16	34	38	50	120	49	73	HCSO08014C	-
-150	HSK-A100	100	16	34	38	50	150	49	103	HCSO08014C	-
HSK100A-HCM18-100	HSK-A100	100	18	36	40	50	100	49	58	HCSO08014C	-
-150	HSK-A100	100	18	36	40	50	150	49	108	HCSO08014C	-
HSK100A-HCM20-105	HSK-A100	100	20	38	42	50	105	51	59	HCSO08014C	HC20
-120	HSK-A100	100	20	38	42	50	120	51	74	HCSO08014C	HC20
-150	HSK-A100	100	20	38	42	50	150	51	104	HCSO08014C	HC20
-200	HSK-A100	100	20	38	42	50	200	51	154	HCSO08014C	HC20
HSK100A-HCM25-110	HSK-A100	100	25	53	57	63	110	57	62	HCSO12014C	-
-150	HSK-A100	100	25	53	57	63	150	57	112	HCSO12014C	-
HSK100A-HCM32-110	HSK-A100	100	32	60	64	75	110	61	62	HCSO12014C	HC32
-150	HSK-A100	100	32	60	64	75	150	61	102	HCSO12014C	HC32

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 *液压卡簧资料参见 68 页。
 *附件需单独订购。

附件 Accessories	DCON _{WS}									
	6	8	10	12	14	16	18	20	25	32
扳手 Hex Wrench	TS5								TS6	
冷却液套管 Coolant Tube	TU-HSK100									
扳手 Coolant Tube Wrench	W-HSK100									

液压刀柄 / Hydraulic Chucks

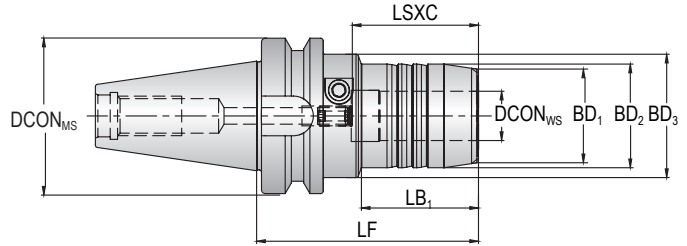
JISB6339 BT



特点：

- 综合跳动: ≤ 0.003 (4xd)
- 一般六角扳手即可实现快速换刀
- 要求刀具柄部公差 h6
- 内通水设计, 标配轴向调整螺钉
- 标配动平衡 G2.5/25000rpm

○ 可搭配液压卡簧实现变径。



型号 Model		尺寸 Size (mm)										
		DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	BD ₃	LF	LSCX	LB ₁			
JIS B6339-AD												
BT30-HCM06-50.8	30	30	6	23	26	46	50.8	37	15.6	HCSO05014C	-	
BT30-HCM08-50.8	30	30	8	25	28	46	50.8	37	15.6	HCSO06014C	-	
BT30-HCM10-50.8	30	30	10	27	30	46	50.8	41	15.6	HCSO08014C	-	
BT30-HCM12-50.8	30	30	12	29	32	46	50.8	46	15.6	HCSO08014C	HC12	
BT30-HCM16-90	30	30	16	34	38	50	90	49	50	HCSO08014C	-	
BT30-HCM20-90	30	30	20	38	42	50	90	51	50	HCSO08014C	HC20	
BT40-HCM06-90	40	40	6	22	26	50	90	37	43	HCSO05014C	-	
-120	40	40	6	22	26	50	120	37	73	HCSO05014C	-	
-150	40	40	6	22	26	50	150	37	103	HCSO05014C	-	
-200	40	40	6	22	26	50	200	37	153	HCSO05014C	-	
BT40-HCM08-90	40	40	8	24	28	50	90	37	44.5	HCSO06014C	-	
-120	40	40	8	24	28	50	120	37	74.5	HCSO06014C	-	
-150	40	40	8	24	28	50	150	37	104.5	HCSO06014C	-	
-200	40	40	8	24	28	50	200	37	154.5	HCSO06014C	-	
BT40-HCM10-90	40	40	10	26	30	50	90	41	44.5	HCSO08014C	-	
-120	40	40	10	26	30	50	120	41	74.5	HCSO08014C	-	
-150	40	40	10	26	30	50	150	41	104.5	HCSO08014C	-	
-200	40	40	10	26	30	50	200	41	154.5	HCSO08014C	-	
BT40-HCM12-90	40	40	12	28	32	50	90	46	44.5	HCSO08014C	HC12	
-120	40	40	12	28	32	50	120	46	74.5	HCSO08014C	HC12	
-150	40	40	12	28	32	50	150	46	104.5	HCSO08014C	HC12	
-200	40	40	12	28	32	50	200	46	154.5	HCSO08014C	HC12	
BT40-HCM14-90	40	40	14	30	34	50	90	46	44.5	HCSO08014C	-	
-150	40	40	14	30	34	50	150	46	104.5	HCSO08014C	-	
BT40-HCM16-90	40	40	16	34	38	50	90	49	47.5	HCSO08014C	-	
-120	40	40	16	34	38	50	120	49	77.5	HCSO08014C	-	
-150	40	40	16	34	38	50	150	49	107.5	HCSO08014C	-	
-200	40	40	16	34	38	50	200	49	157.5	HCSO08014C	-	
BT40-HCM18-90	40	40	18	36	40	50	90	49	47.5	HCSO08014C	-	
-150	40	40	18	36	40	50	150	49	107.5	HCSO08014C	-	
BT40-HCM20-90	40	40	20	38	42	50	90	51	47.5	HCSO08014C	HC20	
-120	40	40	20	38	42	50	120	51	77.5	HCSO08014C	HC20	
-150	40	40	20	38	42	50	150	51	107.5	HCSO08014C	HC20	
-200	40	40	20	38	42	50	200	51	157.5	HCSO08014C	HC20	
BT40-HCM25-83	40	40	25	53	57	62	83	57	44	HCSO12014C	-	
BT40-HCM32-83	40	40	32	60	63	80	83	61	24.9	HCSO12014C	-	

* 液压卡簧资料参见 68 页。

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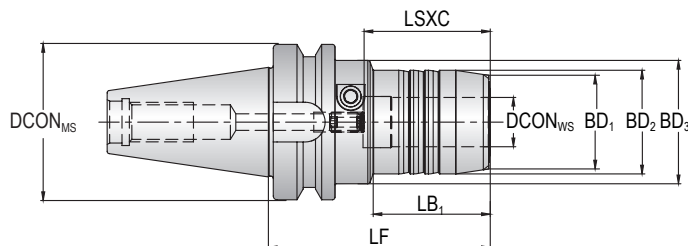
附件 Accessories	DCON _{WS}						
	6	8	10	12	16	20	32
扳手 Hex Wrench				TS5			TS6

液压刀柄 / Hydraulic Chucks JISB6339 BT



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 - 标配动平衡 G2.5/25000rpm

○ 可搭配液压卡簧实现变径。



型号 Model	锥度 Taper	尺寸 Size (mm)							螺钉 Screw	卡簧 Collets	
		DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	BD ₃	LF	LSCX			LB ₁
JIS B6339-AD											
BT50-HCM06-90	50	50	6	22	26	50	90	37	29.5	HCSO08014C	-
-150	50	50	6	22	26	50	150	37	89.5	HCSO08014C	-
BT50-HCM08-90	50	50	8	24	28	50	90	37	30	HCSO08014C	-
-150	50	50	8	24	28	50	150	37	80	HCSO08014C	-
BT50-HCM10-90	50	50	10	26	30	50	90	41	31	HCSO08014C	-
-150	50	50	10	26	30	50	150	41	93	HCSO08014C	-
BT50-HCM12-90	50	50	12	28	32	44.5	90	46	34	HCSO08014C	HC12
-120	50	50	12	28	32	44.5	120	46	64	HCSO08014C	HC12
150	50	50	12	28	32	50	150	46	94	HCSO08014C	HC12
200	50	50	12	28	32	50	200	46	145	HCSO08014C	HC12
BT50-HCM14-90	50	50	14	30	34	44.5	90	46	34	HCSO08014C	-
-100	50	50	14	30	34	44.5	100	46	44	HCSO08014C	-
BT50-HCM16-90	50	50	16	34	38	44.5	90	49	34	HCSO08014C	-
-100	50	50	16	34	38	44.5	100	49	44	HCSO08014C	-
BT50-HCM18-90	50	50	18	36	40	44.5	90	49	34	HCSO08014C	-
-100	50	50	18	36	40	44.5	100	49	44	HCSO08014C	-
BT50-HCM20-90	50	50	20	38	42	44.5	90	51	34	HCSO08014C	HC20
-105	50	50	20	38	42	44.5	105	51	47.5	HCSO08014C	HC20
-120	50	50	20	38	42	44.5	120	51	62.5	HCSO08014C	HC20
-150	50	50	20	38	42	50	150	51	92.5	HCSO08014C	HC20
-200	50	50	20	38	42	50	200	51	142.5	HCSO08014C	HC20
BT50-HCM25-90	50	50	25	53	57	66	90	57	34	HCSO12014C	-
-110	50	50	25	53	57	66	110	57	54	HCSO12014C	-
BT50-HCM32-90	50	50	32	60	64	72	90	61	34	HCSO12014C	HC32
-115	50	50	32	60	64	72	115	46	59	HCSO12014C	HC32

*液压卡簧资料参见 68 页。

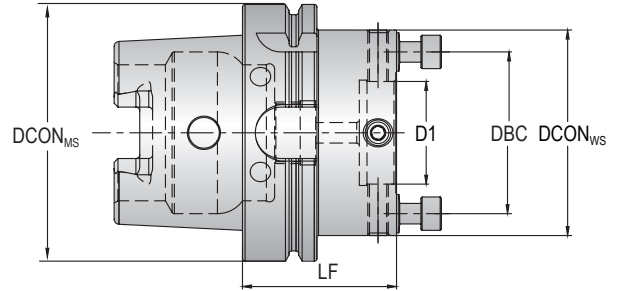
*附件需单独订购。

*如需其他规格型号产品请与本公司联系。

附件 Accessories	DCON _{WS}									
	6	8	10	12	14	16	18	20	25	32
扳手 Hex Wrench	TS5								TS6	

HSK 可调刀柄手柄 / HSK Adjustable Hydraulic Chuck Master Module

DIN69893 HSK



型号 Model		尺寸 Size (mm)					扳手 Wrench
		DCON _{MS}	DCON _{WS}	D1	DBC	LF	
HSK50A-DC70-65	HSK-50A	50	70	36	53	65	S5/S4
HSK50A-DC80-65	HSK-50A	50	80	40	63	65	S5/S4
HSK63A-DC70-65	HSK-63A	63	70	36	53	65	S5/S4
HSK63A-DC80-65	HSK-63A	63	80	40	63	65	S5/S4
HSK63A-DC100-70	HSK-63A	63	100	56	82	70	S6/S5
HSK100A-DC70-50	HSK-100A	100	70	36	53	50	S5/S4
HSK100A-DC80-50	HSK-100A	100	80	40	63	50	S5/S4
HSK100A-DC100-70	HSK-100A	100	100	56	82	70	S6/S5

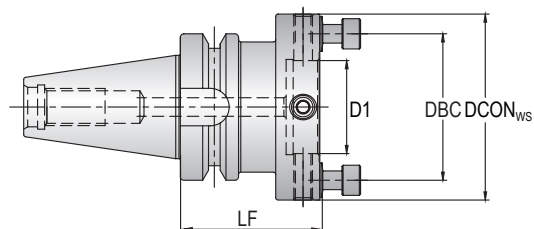
* 液压卡簧资料参见 68 页。



* 附件需单独订购。



备件 Spare Parts	DCON _{MS} =70	DCON _{MS} =80	DCON _{MS} =100
压紧螺钉 Screw	MS06020	MS06020	MS08025
调节螺钉 Screw	RS08016-B	RS08016-B	RS10020-B
附件 Accessories	DCON _{MS} =50	DCON _{MS} =63	DCON _{MS} =100
冷却液套管 Coolant tubes	TU-HSK50	TU-HSK63	TU-HSK100
扳手 Coolant tube Wrench	W-HSK50	W-HSK63	W-HSK100

BT 可调刀柄手柄 / BT Adjustable Hydraulic Chuck Master Module
JIS B6339 BT

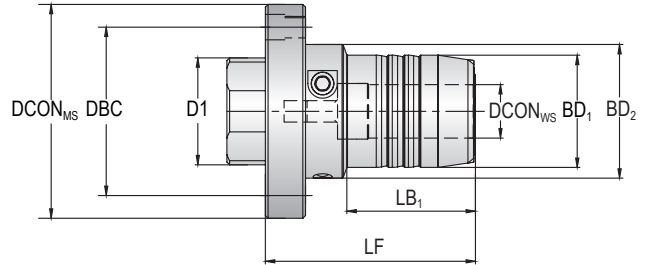
JIS B6339



型号 Model		尺寸 Size (mm)				 扳手 Wrench
		DCON _{WS}	DBC	DCON _{WS}	LF	
JIS B6339-AD						
BT30-DC70-50	30	70	53	36	50	S4/S5
BT30-DC80-50	30	80	63	40	50	S4/S5
BT40-DC70-55	40	70	53	36	55	S4/S5
BT40-DC80-55	40	80	63	40	55	S4/S5
BT40-DC100-60	40	100	82	56	60	S5/S6
BT50-DC70-70	50	70	53	36	70	S4/S5
BT50-DC80-70	50	80	63	40	70	S4/S5
BT50-DC100-70	50	100	82	56	70	S5/S6

备件 Spare Parts	DCON _{WS} =70	DCON _{WS} =80	DCON _{WS} =100
 压紧螺钉 Screw	MS06020	MS06020	MS08025
 调节螺钉 Screw	RS08016-B	RS08016-B	RS10020-B

可调液压刀柄模块 / Adjustable Hydraulic Chuck Module



型号 Model	尺寸 Size (mm)							螺钉 Screw	卡簧 Collets	扳手 Hex Wrench	
	DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	LB ₁	LF	D1				DBC
DC70-HCM06-80	70	6	26	50	30	80	36	53	HCSO05014C	-	TS5/S4
DC70-HCM08-80	70	8	28	50	30	80	36	53	HCSO06014C	-	TS5/S4
DC70-HCM10-80	70	10	30	50	35	80	36	53	HCSO08014C	-	TS5/S4
DC70-HCM12-85	70	12	32	50	40	85	36	53	HCSO08014C	HC12	TS5/S4
DC80-HCM06-60	80	6	26	50	24	60	40	63	HCSO05014C	-	TS5/S4
DC80-HCM08-60	80	8	28	50	25	60	40	63	HCSO06014C	-	TS5/S4
DC80-HCM10-70	80	10	30	50	35	70	40	63	HCSO08014C	-	TS5/S4
DC80-HCM12-80	80	12	32	50	44.5	70	40	63	HCSO08014C	HC12	TS5/S4
DC80-HCM16-80	80	16	38	50	46	80	40	63	HCSO08014C	-	TS5/S4
DC80-HCM20-80	80	20	42	50	47.5	80	40	63	HCSO08014C	HC20	TS5/S4
DC100-HCM12-80	100	12	35	50	46	80	56	82	HCSO08014C	HC12	TS5/S4
DC100-HCM16-80	100	16	38	50	47.5	80	56	82	HCSO08014C	-	TS5/S4
DC100-HCM20-80	100	20	42	50	47.5	80	56	82	HCSO08014C	HC20	TS5/S4
DC100-HCM25-90	100	25	57	63	59	90	56	82	HCSO12014C	-	TS6/S4

* 标准包装不含扳手，需另购。
 * 需配合可调液压刀柄一起使用，详见 22、23 页。
 * 可按客户要求定制特殊要求产品，具体请联系本公司。

备件 Spare Parts	DCON _{MS} =70	DCON _{MS} =80	DCON _{MS} =100
调节块 Shim	ZAD095	ZAD095	ZAD095
调节螺钉 Screw	RS08008-B	RS08008-B	RS08008-B

热装刀柄

热装刀柄是利用热胀冷缩的原理,用热装机使刀柄的夹持部分在短时间内加热,使得刀柄内径扩张,然后将刀具装入刀柄内。



全能夹持

配合高性能热装机,在数秒内可实现对 $\Phi 3-32\text{mm}$ 的硬质合金刀具、 $\Phi 6-32\text{mm}$ 高速钢、钢制品的装夹,且对所有刀具柄部直径仅要求到达h6精度。

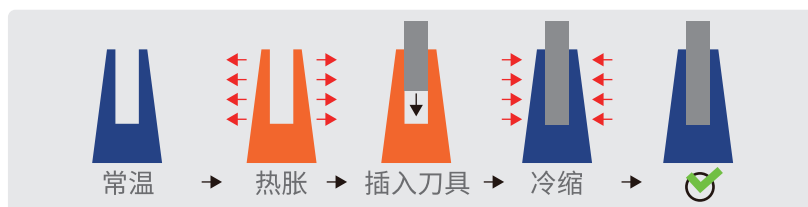


深冷处理

防止变形,保证精度的稳定、持久。

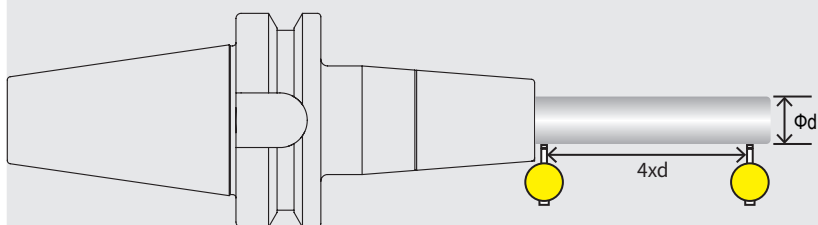
特种耐热材料制作

刀柄采用特种耐热材料制作,正确使用寿命不低于3000次。



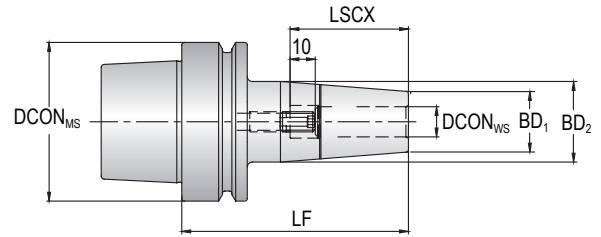
综合跳动

在 $4xd$ 处刀具综合跳动 $\leq 0.003\text{mm}$,可有效减少刀具磨损,提升加工质量。



HSK-E 热装刀柄 / HSK-E Shrink Fit Chucks

DIN69893 HSK-E



型号 Model DIN69893	库存 Stock		尺寸 Size (mm)						螺钉 Screw
			DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	LF	LSCX	
HSK40E-SFX03-60	○	HSK-E40	40	3	10	-	60	-	-
HSK40E-SFX04-60	○	HSK-E40	40	4	10	-	60	-	-
HSK40E-SFX05-60	○	HSK-E40	40	5	10	-	60	-	-
HSK40E-SFX06-80	○	HSK-E40	40	6	21	27	80	36	SO05014C
HSK40E-SF08-80	○	HSK-E40	40	8	21	27	80	36	SO06014C
HSK40E-SF10-80	○	HSK-E40	40	10	24	32	80	42	SO08014C
HSK40E-SF12-90	○	HSK-E40	40	12	24	32	90	47	SO08014C
HSK40E-SF14-90	○	HSK-E40	40	14	27	34	90	47	SO08014C
HSK40E-SF16-90	○	HSK-E40	40	16	27	34	90	50	SO12014C

*如需其它型式或规格的 HSK 类产品请与本公司联系。

*附件需单独订购。

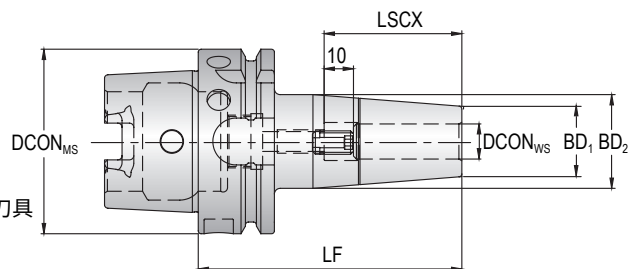
附件 Accessories	DCON _{WS}									
	3	4	5	6	8	10	12	14	16	
扳手 Hex Wrench		-		S2.5	S3		S4			S6
冷却液套管 Coolant tubes	TU-HSK40									
扳手 Coolant tube wrenches	W-HSK40									

热装刀柄 / Shrink Fit Chucks DIN69893 HSK-A



特点：

- 综合跳动: ≤ 0.003 (4xd)
- 特种耐热钢材质
- 要求刀具柄部公差 h6
- 与 ESF 系列热装机配合可夹持高速钢和硬质合金刀具
- 内通水设计, 标配轴向调整螺钉^①
- 标配动平衡 G2.5/25000rpm



型号 Model DIN69893		尺寸 Size (mm)						螺钉 Screw
		DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	LF	LSCX	
HSK63A-SFX03-80	HSK-A63	63	3	10	18.5	80	10	-
HSK63A-SFX04-80	HSK-A63	63	4	10	18.5	80	12	-
HSK63A-SFX05-80	HSK-A63	63	5	10	18.5	80	15	-
HSK63A-SFX06-80	HSK-A63	63	6	21	27	80	36	SO05014C
-120	HSK-A63	63	6	21	27	120	36	SO05014C
-160	HSK-A63	63	6	21	32	160	36	SO05014C
-200	HSK-A63	63	6	21	32	200	36	SO05014C
HSK63A-SF08-80	HSK-A63	63	8	21	27	80	36	SO06014C
-120	HSK-A63	63	8	21	27	120	36	SO06014C
-160	HSK-A63	63	8	21	32	160	36	SO06014C
-200	HSK-A63	63	8	21	32	200	36	SO06014C
HSK63A-SF10-85	HSK-A63	63	10	24	32	85	42	SO08014C
-120	HSK-A63	63	10	24	32	120	42	SO08014C
-160	HSK-A63	63	10	24	34	160	42	SO08014C
-200	HSK-A63	63	10	24	34	200	42	SO08014C
HSK63A-SF12-90	HSK-A63	63	12	24	32	90	47	SO08014C
-120	HSK-A63	63	12	24	32	120	47	SO08014C
-160	HSK-A63	63	12	24	34	160	47	SO08014C
-200	HSK-A63	63	12	24	34	200	47	SO08014C
HSK63A-SF14-90	HSK-A63	63	14	27	34	90	47	SO08014C
-120	HSK-A63	63	14	27	34	120	47	SO08014C
-160	HSK-A63	63	14	27	42	160	47	SO08014C
-200	HSK-A63	63	14	27	42	200	47	SO08014C
HSK63A-SF16-95	HSK-A63	63	16	27	34	95	50	SO12014C
-120	HSK-A63	63	16	27	34	120	50	SO12014C
-160	HSK-A63	63	16	27	42	160	50	SO12014C
-200	HSK-A63	63	16	27	42	200	50	SO12014C
HSK63A-SF18-95	HSK-A63	63	18	33	42	95	50	SO12014C
-120	HSK-A63	63	18	33	42	120	50	SO12014C
-160	HSK-A63	63	18	33	51	160	50	SO12014C
-200	HSK-A63	63	18	33	51	200	50	SO12014C
HSK63A-SF20-100	HSK-A63	63	20	33	42	100	52	SO16016C
-120	HSK-A63	63	20	33	42	120	52	SO16016C
-160	HSK-A63	63	20	33	51	160	52	SO16016C
-200	HSK-A63	63	20	33	51	200	52	SO16016C
HSK63A-SF25-115	HSK-A63	63	25	44	53	115	58	SO16016C
-160	HSK-A63	63	25	44	53	160	58	SO16016C
-200	HSK-A63	63	25	44	53	200	58	SO16016C
HSK63A-SF32-120	HSK-A63	63	32	44	53	120	58	SO16016C
-160	HSK-A63	63	32	44	53	160	58	SO16016C
-200	HSK-A63	63	32	44	53	200	58	SO16016C

* 如需其它型式或规格的 HSK 类产品请与本公司联系。
* 附件需单独订购。

① 3-5mm 端面通水设计, 无轴向调整螺钉。

附件 Accessories	DCON _{WS}												
	3	4	5	6	8	10	12	14	16	18	20	25	32
扳手 Hex Wrench	-	-	-	S2.5	S3	-	S4	-	S6	-	-	S8	-
冷却液套管 Coolant Tube	TU-HSK63												
扳手 Coolant Tube Wrench	W-HSK63												

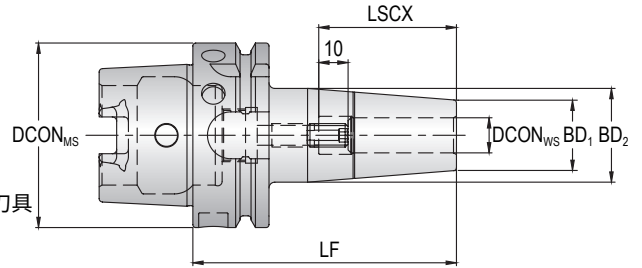
热装刀柄 / Shrink Fit Chucks

DIN69893 HSK-A



特点：

- 综合跳动：≤ 0.003 (4xd)
- 特种耐热钢材质
- 要求刀具柄部公差 h6
- 与 ESF 系列热装机配合可夹持高速钢和硬质合金刀具
- 内通水设计，发货包含轴向调节螺钉
- 标配动平衡 G2.5/25000rpm



型号 Model	DIN69893	尺寸 Size (mm)						螺钉 Screw
		DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	LF	LSCX	
HSK100A-SFX06-85	HSK-A100	100	6	21	27	85	36	SO05014C
-120	HSK-A100	100	6	21	27	120	36	SO05014C
-160	HSK-A100	100	6	21	32	160	36	SO05014C
-200	HSK-A100	100	6	21	32	200	36	SO05014C
HSK100A-SF08-85	HSK-A100	100	8	21	27	85	36	SO06014C
-120	HSK-A100	100	8	21	27	120	36	SO06014C
-160	HSK-A100	100	8	21	32	160	36	SO06014C
-200	HSK-A100	100	8	21	32	200	36	SO06014C
HSK100A-SF10-90	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
-200	HSK-A100	100	10	24	34	200	42	SO08014C
HSK100A-SF12-95	HSK-A100	100	12	24	32	95	47	SO08014C
-120	HSK-A100	100	12	24	32	120	47	SO08014C
-160	HSK-A100	100	12	24	34	160	47	SO08014C
-200	HSK-A100	100	12	24	34	200	47	SO08014C
HSK100A-SF14-95	HSK-A100	100	14	27	34	95	47	SO08014C
-120	HSK-A100	100	14	27	34	120	47	SO08014C
-160	HSK-A100	100	14	27	42	160	47	SO08014C
-200	HSK-A100	100	14	27	42	200	47	SO08014C
HSK100A-SF16-100	HSK-A100	100	16	27	34	100	50	SO12014C
-120	HSK-A100	100	16	27	34	120	50	SO12014C
-160	HSK-A100	100	16	27	42	160	50	SO12014C
-200	HSK-A100	100	16	27	42	200	50	SO12014C
HSK100A-SF18-100	HSK-A100	100	18	33	42	100	50	SO12014C
-120	HSK-A100	100	18	33	42	120	50	SO12014C
-160	HSK-A100	100	18	33	51	160	50	SO12014C
-200	HSK-A100	100	18	33	51	200	50	SO12014C
HSK100A-SF20-105	HSK-A100	100	20	33	42	105	52	SO16016C
-120	HSK-A100	100	20	33	42	120	52	SO16016C
-160	HSK-A100	100	20	33	51	160	52	SO16016C
-200	HSK-A100	100	20	33	51	200	52	SO16016C
HSK100A-SF25-115	HSK-A100	100	25	44	53	115	58	SO16016C
-160	HSK-A100	100	25	44	60	160	58	SO16016C
-200	HSK-A100	100	25	44	60	200	58	SO16016C
HSK100A-SF32-120	HSK-A100	100	32	44	53	120	58	SO16016C
-160	HSK-A100	100	32	44	60	160	58	SO16016C
-200	HSK-A100	100	32	44	60	200	58	SO16016C

*如需其它型式或规格的 HSK 类产品请与本公司联系。
*附件需单独订购。

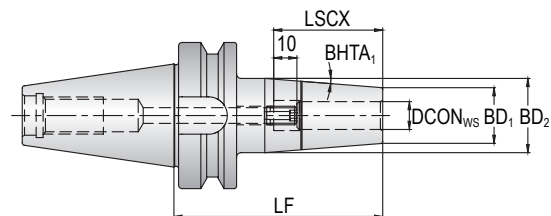
附件 Accessories	DCON _{WS}												
	3	4	5	6	8	10	12	14	16	18	20	25	32
扳手 Hex Wrench	-	-	-	S2.5	S3	S4	S4	S4	S6	S6	S8	S8	S8
冷却液套管 Coolant Tube	TU-HSK100												
扳手 Coolant Tube Wrench	W-HSK100												



热装刀柄 / Shrink Fit Chucks JISB6339 BT



特点：

- 综合跳动：≤ 0.003 (4xd)
- 特种耐热钢材质
- 要求刀具柄部公差 h6
- 与 ESF 系列热装机配合可夹持高速钢和硬质合金刀具
- 内通水设计，发货包含轴向调节螺钉^①
- 标配动平衡 G2.5/25000rpm



型号 Model		尺寸 Size (mm)						 螺钉 Screw
		DCON _{ws}	BD ₁	BD ₂	LF	LSCX	BHTA ₁	
JIS B6339-AD								
BT30-SFX03-60	30	3	10	16	60	60	4.5	-
BT30-SFX04-60	30	4	10	16	60	12	4.5	-
BT30-SFX05-60	30	5	10	16	60	15	4.5	-
BT30-SFX06-80	30	6	21	27	80	36	4.5	SO05014C
-105	30	6	21	27	105	36	4.5	SO05014C
-120	30	6	21	27	120	36	4.5	SO05014C
BT30-SF08-80	30	8	21	27	80	36	4.5	SO06014C
-105	30	8	21	27	105	36	4.5	SO06014C
-120	30	8	21	27	120	36	4.5	SO06014C
BT30-SF10-80	30	10	24	32	80	42	4.5	SO08014C
-105	30	10	24	32	105	42	4.5	SO08014C
-120	30	10	24	32	120	42	4.5	SO08014C
BT30-SF12-80	30	12	24	32	80	47	4.5	SO08014C
-105	30	12	24	32	105	47	4.5	SO08014C
-120	30	12	24	32	120	47	4.5	SO08014C
BT30-SF14-80	30	14	27	34	80	47	4.5	SO08014C
-105	30	14	27	34	105	47	4.5	SO08014C
-120	30	14	27	34	120	47	4.5	SO08014C
BT30-SF16-80	30	16	27	34	80	50	4.5	SO12014C
-105	30	16	27	34	105	50	4.5	SO12014C
-120	30	16	27	34	120	50	4.5	SO12014C

*附件需单独订购。

① 3-5mm 端面通水设计，无轴向调整螺钉。

附件 Accessories	DCON _{ws}									
	3	4	5	6	8	10	12	14	16	
 扳手 Hex Wrench		-		S2.5	S3		S4			S6

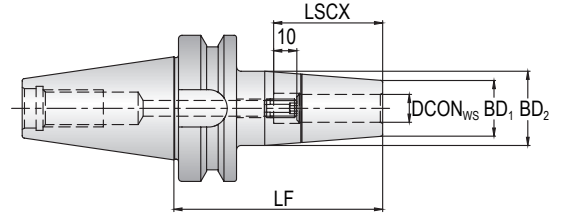
热装刀柄 / Shrink Fit Chucks

JISB6339 BT



特点：

- 综合跳动: ≤ 0.003 (4xd)
- 特种耐热钢材质
- 要求刀具柄部公差 h6
- 与 ESF 系列热装机配合可夹持高速钢和硬质合金刀具
- 内通水设计, 发货包含轴向调节螺钉^①
- 标配动平衡 G2.5/25000rpm



型号 Model		尺寸 Size (mm)					螺钉 Screw
		DCON _{ws}	BD ₁	BD ₂	LF	LSCX	
JIS B6339-AD							
BT40-SFX03-80	40	3	10	18	80	10	-
BT40-SFX04-80	40	4	10	18	80	12	-
BT40-SFX05-80	40	5	10	18	80	15	-
BT40-SFX06-90	40	6	21	27	90	36	SO05014C
-120	40	6	21	27	120	36	SO05014C
-160	40	6	21	32	160	36	SO05014C
-200	40	6	21	32	200	36	SO05014C
BT40-SF08-90	40	8	21	27	90	36	SO06014C
-120	40	8	21	27	120	36	SO06014C
-160	40	8	21	32	160	36	SO06014C
-200	40	8	21	32	200	36	SO06014C
BT40-SF10-90	40	10	24	32	90	42	SO08014C
-120	40	10	24	32	120	42	SO08014C
-160	40	10	24	34	160	42	SO08014C
-200	40	10	24	34	200	42	SO08014C
BT40-SF12-90	40	12	24	32	90	47	SO08014C
-120	40	12	24	32	120	47	SO08014C
-160	40	12	24	34	160	47	SO08014C
-200	40	12	24	34	200	47	SO08014C
BT40-SF14-90	40	14	27	34	90	47	SO08014C
-120	40	14	27	34	120	47	SO08014C
-160	40	14	27	42	160	47	SO08014C
-200	40	14	27	42	200	47	SO08014C
BT40-SF16-90	40	16	27	34	90	50	SO12014C
-120	40	16	27	34	120	50	SO12014C
-160	40	16	27	42	160	50	SO12014C
-200	40	16	27	42	200	50	SO12014C
BT40-SF18-90	40	18	33	42	90	50	SO12014C
-120	40	18	33	42	120	50	SO12014C
-160	40	18	33	51	160	50	SO12014C
-200	40	18	33	51	200	50	SO12014C
BT40-SF20-90	40	20	33	42	90	52	SO16016C
-120	40	20	33	42	120	52	SO16016C
-160	40	20	33	51	160	52	SO16016C
-200	40	20	33	51	200	52	SO16016C
BT40-SF25-90	40	25	44	53	90	58	SO16016C
-100	40	25	44	53	100	58	SO16016C
-120	40	25	44	53	120	58	SO16016C
-160	40	25	44	60	160	58	SO16016C
-200	40	25	44	60	200	58	SO16016C
BT40-SF32-100	40	32	44	60	100	58	SO16016C
-160	40	32	44	60	160	58	SO16016C

* 附件需单独订购。

① 3-5mm 端面通水设计, 无轴向调整螺钉。

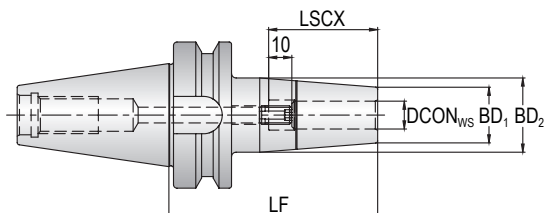
附件 Accessories	DCON _{ws}												
	3	4	5	6	8	10	12	14	16	18	20	25	32
扳手 Hex Wrench	-	-	-	S2.5	S3	-	S4	-	-	S6	-	-	S8

热装刀柄 / Shrink Fit Chucks JISB6339 BT



特点：

- 综合跳动: ≤ 0.003 (4xd)
- 特种耐热钢材质
- 要求刀具柄部公差 h6
- 与 ESF 系列热装机配合可夹持高速钢和硬质合金刀具
- 内通水设计, 发货包含轴向调节螺钉
- 标配动平衡 G2.5/25000rpm

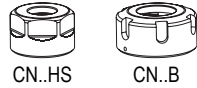


型号 Model		尺寸 Size (mm)					螺钉 Screw
		DCON _{ws}	BD ₁	BD ₂	LF	LSCX	
JIS B6339-AD							
BT50-SFX06-100	50	6	21	27	100	36	SO05014C
-120	50	6	21	27	120	36	SO05014C
-160	50	6	21	32	160	36	SO05014C
-200	50	6	21	32	200	36	SO05014C
BT50-SF08-100	50	8	21	27	100	36	SO06014C
-120	50	8	21	27	120	36	SO06014C
-160	50	8	21	32	160	36	SO06014C
-200	50	8	21	32	200	36	SO06014C
BT50-SF10-100	50	10	24	32	100	42	SO08014C
-120	50	10	24	32	120	42	SO08014C
-160	50	10	24	34	160	42	SO08014C
-200	50	10	24	34	200	42	SO08014C
BT50-SF12-100	50	12	24	32	100	47	SO08014C
-120	50	12	24	32	120	47	SO08014C
-160	50	12	24	34	160	47	SO08014C
-200	50	12	24	34	200	47	SO08014C
BT50-SF14-100	50	14	27	34	100	47	SO08014C
-120	50	14	27	34	120	47	SO08014C
-160	50	14	27	42	160	47	SO08014C
-200	50	14	27	42	200	47	SO08014C
BT50-SF16-100	50	16	27	34	100	50	SO12014C
-120	50	16	27	34	120	50	SO12014C
-160	50	16	27	42	160	50	SO12014C
-200	50	16	27	42	200	50	SO12014C
BT50-SF18-100	50	18	33	42	100	50	SO12014C
-120	50	18	33	42	120	50	SO12014C
-160	50	18	33	51	160	50	SO12014C
-200	50	18	33	51	200	50	SO12014C
BT50-SF20-100	50	20	33	42	100	52	SO16016C
-120	50	20	33	42	120	52	SO16016C
-160	50	20	33	51	160	52	SO16016C
-200	50	20	33	51	200	52	SO16016C
BT50-SF25-110	50	25	44	53	110	58	SO16016C
-135	50	25	44	53	135	58	SO16016C
-160	50	25	44	60	160	58	SO16016C
-200	50	25	44	60	200	58	SO16016C
BT50-SF32-110	50	32	44	53	110	58	SO16016C
-135	50	32	44	53	135	58	SO16016C
-160	50	32	44	60	160	58	SO16016C
-200	50	32	44	60	200	58	SO16016C

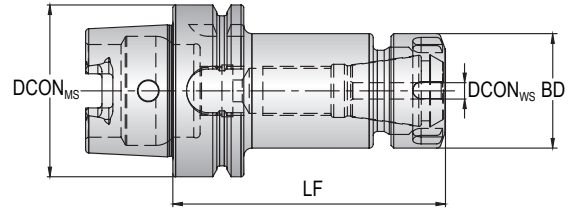
*附件需单独订购。

附件 Accessories	DCON _{ws}									
	6	8	10	12	14	16	18	20	25	32
扳手 Hex Wrench	S2.5	S3		S4		S6			S8	

ER 弹簧夹头刀柄 / ER Collet Chucks DIN69893 HSK-A



- 特点：**
- 本体内锥孔对柄部跳动 ≤ 0.003mm
 - 螺母特殊表面处理，提高夹持稳定性
 - 内通水设计，可选配轴向调整螺钉
 - 标配动平衡 G2.5/25000rpm

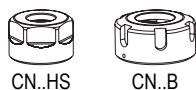


型号 Model DIN69893		尺寸 Size (mm)				螺母 Nuts	螺钉 Screw	卡簧 Collets
		DCON _{MS}	DCON _{WS}	BD	LF			
HSK63A-ER11-75	HSK-A63	63	0.5~7	19	75	CN11HS	SER11C	ER11
-90	HSK-A63	63	0.5~7	19	90	CN11HS	SER11C	ER11
-120	HSK-A63	63	0.5~7	19	120	CN11HS	SER11C	ER11
-160	HSK-A63	63	0.5~7	19	160	CN11HS	SER11C	ER11
HSK63A-ER16-80	HSK-A63	63	0.5~10	28	80	CN16HS	SER16C	ER16
-90	HSK-A63	63	0.5~10	28	90	CN16HS	SER11C	ER16
-100	HSK-A63	63	0.5~10	28	100	CN16HS	SER16C	ER16
-120	HSK-A63	63	0.5~10	28	120	CN16HS	SER16C	ER16
-160	HSK-A63	63	0.5~10	28	160	CN16HS	SER16C	ER16
-200	HSK-A63	63	0.5~10	28	200	CN16HS	SER16C	ER16
HSK63A-ER20-80	HSK-A63	63	1.0~13	34	80	CN20HS	SER20C	ER20
-90	HSK-A63	63	1.0~13	34	90	CN20HS	SER20C	ER20
-100	HSK-A63	63	1.0~13	34	100	CN20HS	SER20C	ER20
-120	HSK-A63	63	1.0~13	34	120	CN20HS	SER20C	ER20
-160	HSK-A63	63	1.0~13	34	160	CN20HS	SER20C	ER20
-200	HSK-A63	63	1.0~13	34	200	CN20HS	SER20C	ER20
HSK63A-ER25-80	HSK-A63	63	1.0~16	42	80	CN25B	SO08014C	ER25
-90	HSK-A63	63	1.0~16	42	90	CN25B	SER25C	ER25
-100	HSK-A63	63	1.0~16	42	100	CN25B	SER25C	ER25
-120	HSK-A63	63	1.0~16	42	120	CN25B	SER25C	ER25
-160	HSK-A63	63	1.0~16	42	160	CN25B	SER25C	ER25
-200	HSK-A63	63	1.0~16	42	200	CN25B	SER25C	ER25
HSK63A-ER32-80	HSK-A63	63	2.0~20	50	80	CN32B	SO08014C	ER32
-90	HSK-A63	63	2.0~20	50	90	CN32B	SER32C	ER32
-100	HSK-A63	63	2.0~20	50	100	CN32B	SER32C	ER32
-120	HSK-A63	63	2.0~20	50	120	CN32B	SER32C	ER32
-160	HSK-A63	63	2.0~20	50	160	CN32B	SER32C	ER32
-200	HSK-A63	63	2.0~20	50	200	CN32B	SER32C	ER32
HSK63A-ER40-80	HSK-A63	63	3.0~26	63	80	CN40B	-	ER40
-90	HSK-A63	63	3.0~26	63	90	CN40B	SER40C	ER40
-100	HSK-A63	63	3.0~26	63	100	CN40B	SER40C	ER40
-120	HSK-A63	63	3.0~26	63	120	CN40B	SER40C	ER40
-160	HSK-A63	63	3.0~26	63	160	CN40B	SER40C	ER40
-200	HSK-A63	63	3.0~26	63	200	CN40B	SER40C	ER40

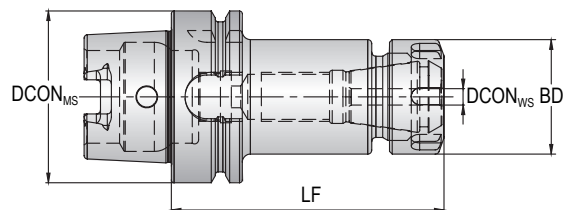
* 如需其它型式或规格的 HSK 类产品请与本公司联系。
 * ER 卡簧资料参见 62 页，螺母参见 71 页。
 * 附件需单独订购。

附件 Accessories	ER11	ER16	ER20	ER25	ER32	ER40
扳手 Wrench	W17D	W25D	W30D	YER25B	YER32B	YER40B
冷却液套管 Coolant Tube	TU-HSK63					
扳手 Coolant Tube Wrench	W-HSK63					

ER 弹簧夹头刀柄 / ER Collet Chucks DIN69893 HSK-A



- 特点：**
- 本体内锥孔对柄部跳动 $\leq 0.003\text{mm}$
 - 螺母特殊表面处理，提高夹持稳定性
 - 内通水设计，可选配轴向调整螺钉
 - 标配动平衡 G2.5/25000rpm



型号 Model DIN69893	HSK-A100	尺寸 Size (mm)				螺母 Nuts	螺钉 Screw	卡簧 Collets
		DCON _{MS}	DCON _{WS}	BD	LF			
HSK100A-ER16-90	HSK-A100	100	0.5~10	28	90	CN16HS	SER16C	ER16
-100	HSK-A100	100	0.5~10	28	100	CN16HS	SER16C	ER16
-120	HSK-A100	100	0.5~10	28	120	CN16HS	SER16C	ER16
-160	HSK-A100	100	0.5~10	28	160	CN16HS	SER16C	ER16
-200	HSK-A100	100	0.5~10	28	200	CN16HS	SER16C	ER16
HSK100A-ER20-90	HSK-A100	100	1.0~13	34	90	CN20HS	SER20C	ER20
-100	HSK-A100	100	1.0~13	34	100	CN20HS	SER20C	ER20
-120	HSK-A100	100	1.0~13	34	120	CN20HS	SER20C	ER20
-160	HSK-A100	100	1.0~13	34	160	CN20HS	SER20C	ER20
-200	HSK-A100	100	1.0~13	34	200	CN20HS	SER20C	ER20
HSK100A-ER25-90	HSK-A100	100	1.0~16	42	90	CN25B	SER25C	ER25
-100	HSK-A100	100	1.0~16	42	100	CN25B	SER25C	ER25
-120	HSK-A100	100	1.0~16	42	120	CN25B	SER25C	ER25
-160	HSK-A100	100	1.0~16	42	160	CN25B	SER25C	ER25
-200	HSK-A100	100	1.0~16	42	200	CN25B	SER25C	ER25
HSK100A-ER32-100	HSK-A100	100	2.0~20	50	100	CN32B	SER32C	ER32
-120	HSK-A100	100	2.0~20	50	120	CN32B	SER32C	ER32
-160	HSK-A100	100	2.0~20	50	160	CN32B	SER32C	ER32
-200	HSK-A100	100	2.0~20	50	200	CN32B	SER32C	ER32
HSK100A-ER40-100	HSK-A100	100	3.0~26	63	100	CN40B	SER40C	ER40
-120	HSK-A100	100	3.0~26	63	120	CN40B	SER40C	ER40
-160	HSK-A100	100	3.0~26	63	160	CN40B	SER40C	ER40
-200	HSK-A100	100	3.0~26	63	200	CN40B	SER40C	ER40

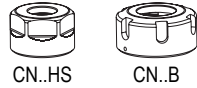
* 如需其它型式或规格的 HSK 类产品请与本公司联系。

* ER 卡簧资料参见 62 页，螺母参见 71 页。

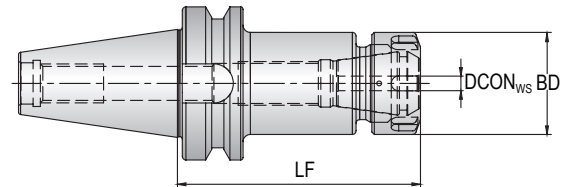
* 附件需单独订购。

附件 Accessories	ER11	ER16	ER20	ER25	ER32	ER40
扳手 Wrench	W17D	W25D	W30D	YER25B	YER32B	YER40B
冷却液套管 Coolant Tube	TU-HSK100					
扳手 Coolant Tube Wrench	W-HSK100					

ER 弹簧夹头刀柄 / ER Collet Chucks JISB6339 BT



- 特点：**
- 本体内锥孔对柄部跳动 $\leq 0.003\text{mm}$
 - 螺母特殊表面处理，提高夹持稳定性
 - 内通水设计，选配轴向调整螺钉
 - 可选配动平衡 G2.5/2500rpm



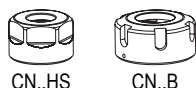
型号 Model		尺寸 Size (mm)					
		DCON _{ws}	BD	LF			
JIS B6339-AD							
BT30-ER11-60	30	0.5~7	19	60	CN11HS	SER11C	ER11
-90	30	0.5~7	19	90	CN11HS	SER11C	ER11
BT30-ER16-60	30	0.5~10	28	60	CN16HS	SER16C	ER16
-90	30	0.5~10	28	90	CN16HS	SER16C	ER16
-120	30	0.5~10	28	120	CN16HS	SER16C	ER16
BT30-ER20-60	30	1.0~13	34	60	CN20HS	SER20C	ER20
-90	30	1.0~13	34	90	CN20HS	SER20C	ER20
-120	30	1.0~13	34	120	CN20HS	SER20C	ER20
BT30-ER25-60	30	1.0~16	42	60	CN25B	SER25C	ER25
-90	30	1.0~16	42	90	CN25B	SER25C	ER25
-120	30	1.0~16	42	120	CN25B	SER25C	ER25
BT30-ER32-60	30	2.0~20	50	60	CN32B	SER32C	ER32
-90	30	2.0~20	50	90	CN32B	SER32C	ER32

* ER 卡簧资料参见 62 页，螺母资料参见 71 页。

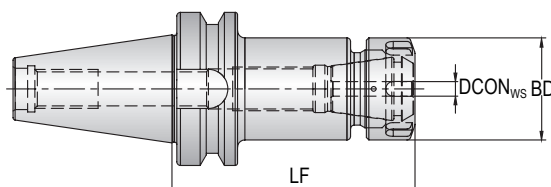
* 附件需单独订购。

附件 Accessories	ER11	ER16	ER20	ER25	ER32
扳手 Wrench	W17D	W25D	W30D	YER25B	YER32B

ER 弹簧夹头刀柄 / ER Collet Chucks JISB6339 BT



- 特点：**
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 - 螺母特殊表面处理，提高夹持稳定性
 - 内通水设计，选配轴向调整螺钉
 - 可选配动平衡 G2.5/2500rpm

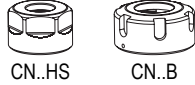


型号 Model		尺寸 Size (mm)					
JIS B6339-AD		DCON _{ws}	BD	LF	螺母 Nuts	螺钉 Screw	卡簧 Collets
BT40-ER11-70	40	0.5~7	19	70	CN11HS	SER11C	ER11
-90	40	0.5~7	19	90	CN11HS	SER11C	ER11
-100	40	0.5~7	19	100	CN11HS	SER11C	ER11
-120	40	0.5~7	19	120	CN11HS	SER11C	ER11
-160	40	0.5~7	19	160	CN11HS	SER11C	ER11
BT40-ER16-70	40	0.5~10	28	70	CN16HS	SER16C	ER16
-90	40	0.5~10	28	90	CN16HS	SER16C	ER16
-100	40	0.5~10	28	100	CN16HS	SER16C	ER16
-120	40	0.5~10	28	120	CN16HS	SER16C	ER16
-150	40	0.5~10	28	150	CN16HS	SER16C	ER16
-160	40	0.5~10	28	160	CN16HS	SER16C	ER16
-200	40	0.5~10	28	200	CN16HS	SER16C	ER16
BT40-ER20-70	40	1.0~13	34	70	CN20HS	SER20C	ER20
-80	40	1.0~13	34	80	CN20HS	SER20C	ER20
-90	40	1.0~13	34	90	CN20HS	SER20C	ER20
-100	40	1.0~13	34	100	CN20HS	SER20C	ER20
-120	40	1.0~13	34	120	CN20HS	SER20C	ER20
-150	40	1.0~13	34	150	CN20HS	SER20C	ER20
-160	40	1.0~13	34	160	CN20HS	SER20C	ER20
-200	40	1.0~13	34	200	CN20HS	SER20C	ER20
BT40-ER25-70	40	1.0~16	42	70	CN25B	SER25C	ER25
-80	40	1.0~16	42	80	CN25B	SER25C	ER25
-90	40	1.0~16	42	90	CN25B	SER25C	ER25
-100	40	1.0~16	42	100	CN25B	SER25C	ER25
-120	40	1.0~16	42	120	CN25B	SER25C	ER25
-150	40	1.0~16	42	150	CN25B	SER25C	ER25
-160	40	1.0~16	42	160	CN25B	SER25C	ER25
-200	40	1.0~16	42	200	CN25B	SER25C	ER25
BT40-ER32-60	40	2.0~20	50	60	CN32B	SER32C	ER32
-70	40	2.0~20	50	70	CN32B	SER32C	ER32
-80	40	2.0~20	50	80	CN32B	SER32C	ER32
-90	40	2.0~20	50	90	CN32B	SER32C	ER32
-100	40	2.0~20	50	100	CN32B	SER32C	ER32
-120	40	2.0~20	50	120	CN32B	SER32C	ER32
-150	40	2.0~20	50	150	CN32B	SER32C	ER32
-160	40	2.0~20	50	160	CN32B	SER32C	ER32
-200	40	2.0~20	50	200	CN32B	SER32C	ER32
BT40-ER40-80	40	3.0~26	63	80	CN40B	SER40C	ER40
-90	40	3.0~26	63	90	CN40B	SER40C	ER40
-100	40	3.0~26	63	100	CN40B	SER40C	ER40
-120	40	3.0~26	63	120	CN40B	SER40C	ER40
-150	40	3.0~26	63	150	CN40B	SER40C	ER40
-160	40	3.0~26	63	160	CN40B	SER40C	ER40
-200	40	3.0~26	63	200	CN40B	SER40C	ER40

* ER 卡簧资料参见 62 页，螺母资料参见 71 页。
* 附件需单独订购。

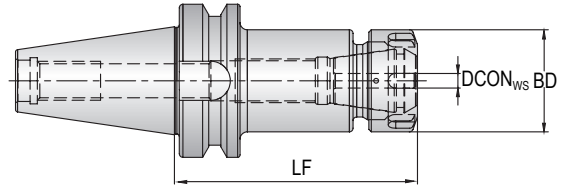
附件 Accessories	ER11	ER16	ER20	ER25	ER32	ER40
扳手 Wrench	W17D	W25D	W30D	YER25B	YER32B	YER40B

ER 弹簧夹头刀柄 / ER Collet Chucks JISB6339 BT



特点：

- 本体内锥孔对柄部跳动 $\leq 0.003\text{mm}$
- 螺母特殊表面处理，提高夹持稳定性
- 内通水设计，选配轴向调整螺钉
- 可选配动平衡 G2.5/2500rpm



型号 Model		尺寸 Size (mm)					
		DCON _{ws}	BD	LF			
JIS B6339-AD							
BT50-ER16-70	50	0.5~10	28	70	CN16HS	SER16C	ER16
-80	50	0.5~10	28	80	CN16HS	SER16C	ER16
-90	50	0.5~10	28	90	CN16HS	SER16C	ER16
-100	50	0.5~10	28	100	CN16HS	SER16C	ER16
-120	50	0.5~10	28	120	CN16HS	SER16C	ER16
-165	50	0.5~10	28	165	CN16HS	SER16C	ER16
-200	50	0.5~10	28	200	CN16HS	SER16C	ER16
BT50-ER20-70	50	1.0~13	34	70	CN20HS	SER20C	ER20
-80	50	1.0~13	34	80	CN20HS	SER20C	ER20
-90	50	1.0~13	34	90	CN20HS	SER20C	ER20
-100	50	1.0~13	34	100	CN20HS	SER20C	ER20
-120	50	1.0~13	34	120	CN20HS	SER20C	ER20
-135	50	1.0~13	34	135	CN20HS	SER20C	ER20
-165	50	1.0~13	34	165	CN20HS	SER20C	ER20
-200	50	1.0~13	34	200	CN20HS	SER20C	ER20
BT50-ER25-70	50	1.0~16	42	70	CN25B	SER25C	ER25
-80	50	1.0~16	42	80	CN25B	SER25C	ER25
-90	50	1.0~16	42	90	CN25B	SER25C	ER25
-100	50	1.0~16	42	100	CN25B	SER25C	ER25
-120	50	1.0~16	42	120	CN25B	SER25C	ER25
-165	50	1.0~16	42	165	CN25B	SER25C	ER25
-200	50	1.0~16	42	200	CN25B	SER25C	ER25
BT50-ER32-70	50	2.0~20	50	70	CN32B	SER32C	ER32
-90	50	2.0~20	50	90	CN32B	SER32C	ER32
-100	50	2.0~20	50	100	CN32B	SER32C	ER32
-120	50	2.0~20	50	120	CN32B	SER32C	ER32
-165	50	2.0~20	50	165	CN32B	SER32C	ER32
-200	50	2.0~20	50	200	CN32B	SER32C	ER32
-250	50	2.0~20	50	250	CN32B	SER32C	ER32
BT50-ER40-90	50	3.0~26	63	90	CN40B	SER40C	ER40
-100	50	3.0~26	63	100	CN40B	SER40C	ER40
-120	50	3.0~26	63	120	CN40B	SER40C	ER40
-165	50	3.0~26	63	165	CN40B	SER40C	ER40
-200	50	3.0~26	63	200	CN40B	SER40C	ER40

* ER 卡簧资料参见 62 页，螺母资料参见 71 页。

* 附件需单独订购。

附件 Accessories	ER16	ER20	ER25	ER32	ER40
扳手 Wrench	W25D	W30D	YER25B	YER32B	YER40B

ESK高速精密弹簧夹头刀柄



螺帽外观来自先进表面处理技术。表面硬度更高,更加耐磨,提升高速加工精度。

螺母
表面经过特殊处理,表面硬度更高,摩擦系数低,能够稳定锁紧卡簧,防止卡簧在锁紧时承受过大的扭曲力,保证夹持精度。

SK高精度卡簧
严格把控材料、制造、热处理等多个环节,所有产品均经过多次严格的检验,品质值得信赖。



特点:

- 标配无风阻螺帽
- 精密动平衡
- 4d处跳动 $\leq 0.005\text{mm}$
- 适合高速高精加工

ESK刀柄备货充足
及时满足您的需求!

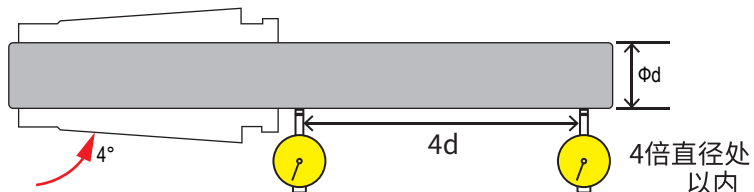
● 刀柄订货示例:

BT30-ESK10-60
HSK63A-ESK16-90

● 卡簧订货示例:

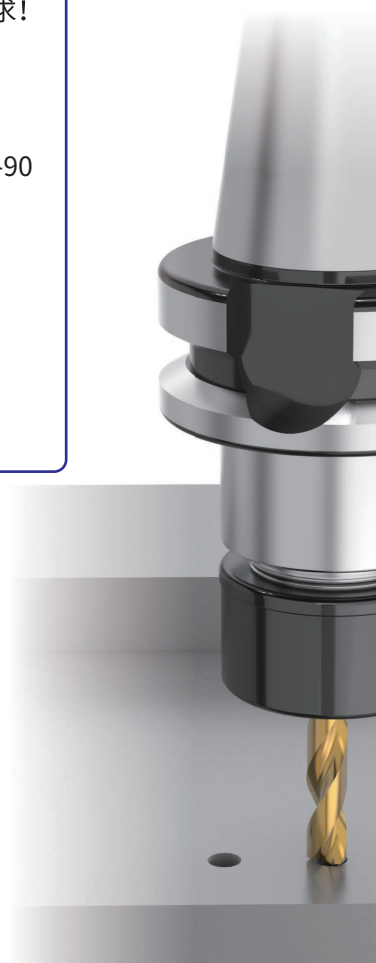
SK10-3

▼ SK高精度卡簧



相比于ER刀柄,具有更小的锥角,更长的夹持部位,夹持精度更高,夹持扭矩更大。

-180°C深冷处理,防止变形,保证精度的稳定、持久。



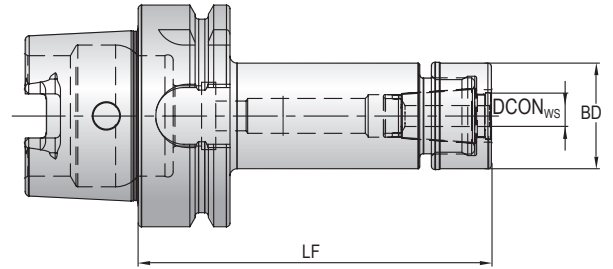
ESK 高精度弹簧夹头刀柄 / ESK Precision Collet Chucks

DIN69893 HSK-A



特点：

- 综合跳动: $\leq 0.005\text{mm}$ (4xd)
- 内通水设计, 选配轴向调整螺钉
- 标配无风阻螺帽
- 标配动平衡 G2.5 25000rpm



型号 Model	DIN69893	尺寸 Size (mm)	尺寸 Size (mm)			螺母 Nuts	螺钉 Screw	卡簧 Collets
			DCON _{ws}	BD	LF			
HSK63A-SK06-90	HSK-A63	3-6	19.5	90	HNSK06	SSK06C	SK06	
-120	HSK-A63	3-6	19.5	120	HNSK06	SSK06C	SK06	
HSK63A-SK10-90	HSK-A63	3-10	27	90	HNSK10	SSK10C	SK10	
-120	HSK-A63	3-10	27	120	HNSK10	SSK10C	SK10	
HSK63A-SK13-90	HSK-A63	3-13	33	90	HNSK13	SSK13C	SK13	
-120	HSK-A63	3-13	33	120	HNSK13	SSK13C	SK13	
HSK63A-SK16-90	HSK-A63	3-16	40	90	HNSK16	SSK16C	SK16	
-120	HSK-A63	3-16	40	120	HNSK16	SSK16C	SK16	
HSK63A-SK20-90	HSK-A63	3-20	48.5	90	HNSK20	SSK20C	SK20	
-120	HSK-A63	3-20	48.5	120	HNSK20	SSK20C	SK20	
HSK63A-SK25-90	HSK-A63	3-25	55	90	HNSK25	SSK25C	SK25	
-120	HSK-A63	3-25	55	120	HNSK25	SSK25C	SK25	
HSK100A-SK06-105	HSK-A100	3-6	19.5	105	HNSK06	SSK06C	SK06	
HSK100A-SK10-105	HSK-A100	3-10	27.5	105	HNSK10	SSK10C	SK10	
-120	HSK-A100	3-10	27.5	120	HNSK10	SSK10C	SK10	
-150	HSK-A100	3-10	27.5	150	HNSK10	SSK10C	SK10	
HSK100A-SK13-105	HSK-A100	3-13	33	105	HNSK13	SSK13C	SK13	
-120	HSK-A100	3-13	33	120	HNSK13	SSK13C	SK13	
-150	HSK-A100	3-13	33	150	HNSK13	SSK13C	SK13	
HSK100A-SK16-105	HSK-A100A	3-16	40	105	HNSK16	SSK16C	SK16	
-120	HSK-A100	3-16	40	120	HNSK16	SSK16C	SK16	
-150	HSK-A100	3-16	40	150	HNSK16	SSK16C	SK16	
HSK100A-SK20-120	HSK-A100	3-20	48.5	120	HNSK20	SSK20C	SK20	
-150	HSK-A100	3-20	48.5	150	HNSK20	SSK20C	SK20	
-200	HSK-A100	3-20	48.5	200	HNSK20	SSK20C	SK20	
HSK100A-SK25-120	HSK-A100	3-25	55	120	HNSK25	SSK25C	SK25	
-150	HSK-A100	3-25	55	150	HNSK25	SSK25C	SK25	

* SK 卡簧资料参见 66 页。

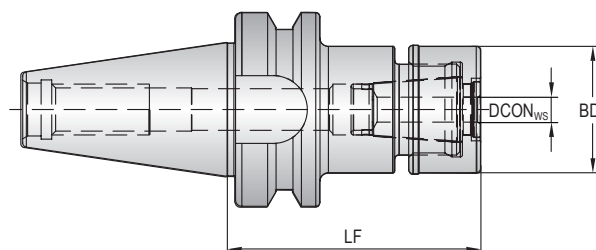
* 附件需单独订购。





附件 Accessories	SK06	SK10	SK13	SK16	SK20	SK25
扳手 Wrench	YSK06	YSK10	YSK13	YSK16	YSK20	YSK25
附件 Accessories	HSK-A63			HSK-A100		
冷却液套管 Coolant Tube	TU-HSK63			TU-HSK100		
扳手 Coolant Tube Wrench	W-HSK63			W-HSK100		

ESK 高精度弹簧夹头刀柄 / ESK Precision Collet Chucks JISB6339 BT



- 特点：**
- 综合跳动: $\leq 0.005\text{mm}$ (4xd)
 - 内通水设计, 选配轴向调整螺钉
 - 标配无风阻螺帽
 - 标配动平衡 G2.5 25000rpm



型号 Model		尺寸 Size (mm)					
		DCON _{WS}	BD	LF			
JIS B6339-AD							
BT30-SK06-60	30	3-6	19.5	60	HNSK06	SSK06C	SK06
-90	30	3-6	19.5	90	HNSK06	SSK06C	SK06
-120	30	3-6	19.5	120	HNSK06	SSK06C	SK06
BT30-SK10-60	30	3-10	27	60	HNSK10	SSK10C	SK10
-90	30	3-10	27	90	HNSK10	SSK10C	SK10
-120	30	3-10	27	120	HNSK10	SSK10C	SK10
BT30-SK13-60	30	3-13	33	60	HNSK13	SSK13C	SK13
-90	30	3-13	33	90	HNSK13	SSK13C	SK13
-120	30	3-13	33	120	HNSK13	SSK13C	SK13
BT30-SK16-60	30	3-16	40	60	HNSK16	SSK16C	SK16
-90	30	3-16	40	90	HNSK16	SSK16C	SK16
-120	30	3-16	40	120	HNSK16	SSK16C	SK16
BT30-SK20-60	30	3-20	48.5	60	HNSK20	SSK20C	SK20
-90	30	3-20	48.5	90	HNSK20	SSK20C	SK20
BT30-SK25-90	30	3-20	55	90	HNSK25	SSK25C	SK25
BT40-SK06-60	40	3-6	19.5	60	HNSK06	SSK06C	SK06
-90	40	3-6	19.5	90	HNSK06	SSK06C	SK06
-120	40	3-6	19.5	120	HNSK06	SSK06C	SK06
-150	40	3-6	19.5	150	HNSK06	SSK06C	SK06
BT40-SK10-60	40	3-10	27.5	60	HNSK10	SSK10C	SK10
-90	40	3-10	27.5	90	HNSK10	SSK10C	SK10
-120	40	3-10	27.5	120	HNSK10	SSK10C	SK10
-150	40	3-10	27.5	150	HNSK10	SSK10C	SK10
BT40-SK13-60	40	3-13	33	60	HNSK13	SSK13C	SK13
-90	40	3-13	33	90	HNSK13	SSK13C	SK13
-120	40	3-13	33	120	HNSK13	SSK13C	SK13
-150	40	3-13	33	150	HNSK13	SSK13C	SK13
BT40-SK16-60	40	3-16	40	60	HNSK16	SSK16C	SK16
-90	40	3-16	40	90	HNSK16	SSK16C	SK16
-120	40	3-16	40	120	HNSK16	SSK16C	SK16
-150	40	3-16	40	150	HNSK16	SSK16C	SK16
BT40-SK20-60	40	3-20	48.5	60	HNSK20	SSK20C	SK20
-90	40	3-20	48.5	90	HNSK20	SSK20C	SK20
-120	40	3-20	48.5	120	HNSK20	SSK20C	SK20
BT40-SK25-90	40	3-25	55	90	HNSK25	SSK25C	SK25
-120	40	3-25	55	120	HNSK25	SSK25C	SK25

* SK 卡簧资料参见 66 页。

* 附件需单独订购。

附件 Accessories	SK06	SK10	SK13	SK16	SK20	SK25
 扳手 Wrench	YSK06	YSK10	YSK13	YSK16	YSK20	YSK25

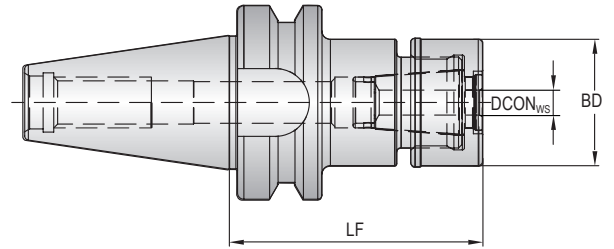
ESK 高精度弹簧夹头刀柄 / ESK Precision Collet Chucks

JISB6339 BT



特点：

- 综合跳动: $\leq 0.005\text{mm}$ (4xd)
- 内通水设计, 选配轴向调整螺钉。
- 标配无风阻螺帽
- 标配动平衡 G2.5 25000rpm



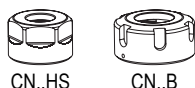
型号 Model		尺寸 Size (mm)					
		DCON _{WS}	BD	LF			
JIS B6339-AD							
BT50-SK06-105	50	3-6	19.5	105	HNSK06	SSK06C	SK06
-135	50	3-6	19.5	135	HNSK06	SSK06C	SK06
-165	50	3-6	19.5	165	HNSK06	SSK06C	SK06
-200	50	3-6	19.5	200	HNSK06	SSK06C	SK06
BT50-SK10-105	50	3-10	27	105	HNSK10	SSK10C	SK10
-135	50	3-10	27	135	HNSK10	SSK10C	SK10
-165	50	3-10	27	165	HNSK10	SSK10C	SK10
-200	50	3-10	27	200	HNSK10	SSK10C	SK10
BT50-SK13-105	50	3-13	33	105	HNSK13	SSK13C	SK13
-135	50	3-13	33	135	HNSK13	SSK13C	SK13
-165	50	3-13	33	165	HNSK13	SSK13C	SK13
-200	50	3-13	33	200	HNSK13	SSK13C	SK13
BT50-SK16-105	50	3-16	40	105	HNSK16	SSK16C	SK16
-135	50	3-16	40	135	HNSK16	SSK16C	SK16
-165	50	3-16	40	165	HNSK16	SSK16C	SK16
-200	50	3-16	40	200	HNSK16	SSK16C	SK16
BT50-SK20-105	50	3-20	48.5	105	HNSK20	SSK20C	SK20
-135	50	3-20	48.5	135	HNSK20	SSK20C	SK20
-165	50	3-20	48.5	165	HNSK20	SSK20C	SK20
-200	50	3-20	48.5	200	HNSK20	SSK20C	SK20
BT50-SK25-105	50	3-25	55	105	HNSK25	SSK25C	SK25
-135	50	3-25	55	135	HNSK25	SSK25C	SK25
-165	50	3-25	55	165	HNSK25	SSK25C	SK25
-200	50	3-25	55	200	HNSK25	SSK25C	SK25

* SK 卡簧资料参见 66 页。

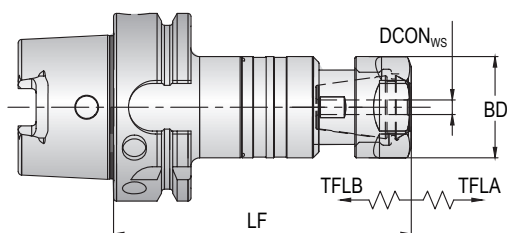
* 附件需单独订购。

附件 Accessories	SK06	SK10	SK13	SK16	SK20	SK25
扳手 Wrench	YSK06	YSK10	YSK13	YSK16	YSK20	YSK25

BT 微补偿同步攻丝刀柄 / BT Micro-Compensation Synchro Tap Chucks DIN69893 HSK-A



- 特点：**
- 内置微补偿（±0.5mm）结构，可有效补偿由于主轴旋转、进给和丝锥螺距间的细微同步偏差。减少丝锥应力，延长丝锥寿命，提高螺纹质量。
 - 内通水设计



型号 Model DIN69893		适用丝锥	尺寸 Size (mm)						
			BD	DCON _{ws}	LF	TFLA	TFLB		
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	M4~M12(No.8~7/16)	34	3~10	110	0.5	0.5	CN20HS	ER20
HSK63A-V32-125	HSK-A63	M4~M20(No.8~3/4)	50	3~16	125	0.5	0.5	CN32B	ER32
HSK100A-V32-130	HSK-A100	M4~M20(No.8~3/4)	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。
- * ER 卡簧资料参见 62 页，螺母参见 71 页。
- * 内冷螺母参见 72 页，止水垫圈参见 72 页。
- * 如需其它型式或规格的 HSK 类产品请与本公司联系。

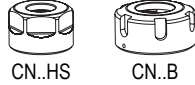
内冷附件 Spare Parts with Coolant	EVA20	EVA32
内冷螺母 Coolant Nuts	CN20C	CN32C
止水垫圈 Sealing Disk	DER20C-*	DER32C-*

附件 Accessories	EVA20	EVA32
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 Tube	TU-HSK63	TU-HSK100
扳手 Coolant Tube wrenches	W-HSK63	W-HSK100

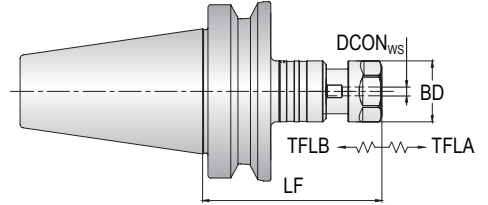
BT 微补偿同步攻丝刀柄 / BT Micro-Compensation Synchro Tap Chucks

JISB6339 BT



特点：

- 内置微补偿 ($\pm 0.5\text{mm}$) 结构, 可有效补偿由于主轴旋转、进给和丝锥螺距间的细微同步偏差。减少丝锥应力, 延长丝锥寿命, 提高螺纹质量。
- 内通水设计



型号 Model	JIS B6339	适用丝锥	尺寸 Size (mm)					螺母 Nuts	卡簧 Collets
			BD	DCON _{ws}	LF	TFLA	TFLB		
BT30-V11-70	30	M1-M4	16	2.5-7.0	70	0.5	0.5	CNM11	ER11
BT30-V20-80	30	M4-M12(No.8~7/16)	34	3~10	80	0.5	0.5	CN20HS	ER20
BT40-V20-85	40	M4-M12(No.8~7/16)	34	3~10	85	0.5	0.5	CN20HS	ER20
BT50-V20-100	50	M4-M12(No.8~7/16)	34	3~10	100	0.5	0.5	CN20HS	ER20
BT40-V32-100	40	M4-M20(No.8~3/4)	50	3~16	100	0.5	0.5	CN32B	ER32
BT50-V32-115	50	M4-M20(No.8~3/4)	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。
- * ER 卡簧资料参见 22 页, 螺母参见 71 页。
- * 内冷螺母参见 72 页, 止水垫圈参见 72 页。

内冷附件 Spare Parts with Coolant	EVA20	EVA32
内冷螺母 Coolant Nuts	CN20C	CN32C
止水垫圈 Sealing Disk	DER20C-*	DER32C-*

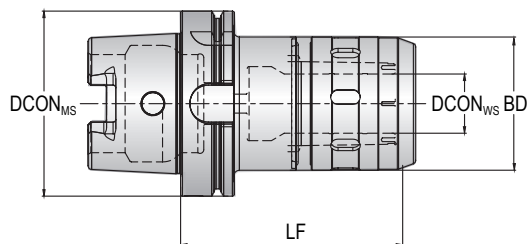
附件 Accessories	EVA11	EVA20	EVA32
螺母扳手 Wrench For Nut	WN11	W30D	YER32B
限位扳手 Wrench	W13D	W24D	W36D

强力夹头刀柄 / Milling Chucks DIN69893 HSK-A



特点：

- 综合跳动 ≤ 0.01mm
- 内壁开槽，可有效切断油膜提升夹持力和使用安全性
- 锁紧套前后密封设计，可有效防尘，降低因污染而导致刀柄失效的风险。
- 内通水设计
- 要求刀具柄部公差 h6



型号 Model		尺寸 Size (mm)				卡簧 Collets
DIN69893		DCON _{MS}	DCON _{WS}	BD	LF	
HSK63A-PC20-105	HSK-A63	63	20	52	105	C20
HSK63A-PC25-110	HSK-A63	63	25	60	110	C25
HSK63A-PC32-115	HSK-A63	63	32	69	115	C32
HSK80A-PC32-115	HSK-A80	80	32	69	115	C32
HSK100A-PC20-110	HSK-A100	100	20	52	110	C20
HSK100A-PC25-115	HSK-A100	100	25	60	115	C25
HSK100A-PC32-120	HSK-A100	100	32	69	120	C32
HSK100A-PC42-120	HSK-A100	100	42	60	125	C42

*如需其它型式或规格的 HSK 类产品请与本公司联系。

*直筒卡簧资料参见 70 页。

*附件需单独订购。

附件 Accessories	C20	C25	C32	C42
扳手 Wrench	WCN25	WCN32	WCN40	BS130UNT

附件 Accessories	HSK-A63	HSK-A80	HSK-A100
冷却液套管 Coolant Tube	TU-HSK63	TU-HSK80	TU-HSK100
扳手 Coolant Tube Wrench	W-HSK63	W-HSK80	W-HSK100

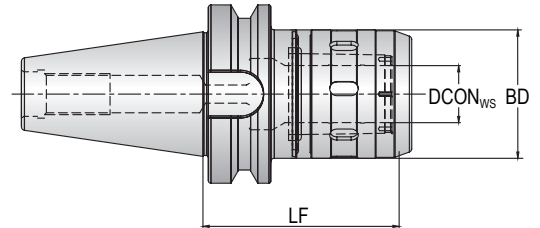
强力夹头刀柄 / Milling Chucks

JISB6339 BT



特点：

- 综合跳动 ≤ 0.01mm
- 内壁开槽，可有效切断油膜提升夹持力和使用安全性
- 锁紧套前后密封设计，可有效防尘，降低因污染而导致刀柄失效的风险
- 内通水设计
- 要求刀具柄部公差 h6



型号 Model		尺寸 Size (mm)			
JIS B6339-AD		DCON _{ws}	BD	LF	卡簧 Collets
BT30-PC20-95	30	20	52	95	C20
BT40-PC20-95	40	20	52	95	C20
-120	40	20	52	120	C20
BT40-PC25-100	40	25	60	100	C25
-120	40	25	60	120	C25
BT40-PC32-105	40	32	69	105	C32
BT50-PC20-105	50	20	52	105	C20
-135	50	20	52	135	C20
BT50-PC25-110	50	25	60	110	C25
-135	50	25	60	135	C25
BT50-PC32-110	50	32	69	110	C32
-135	50	32	69	135	C32
BT50-PC42-110	50	42	60	110	C42

*直筒卡簧资料参见 70 页。

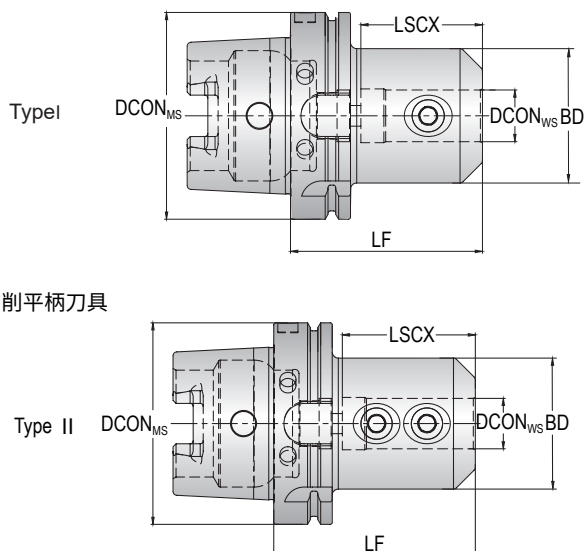
*附件需单独订购。

附件 Accessories	C20	C25	C32	C42
扳手 Wrench	WCN25	WCN32	WCN40	BS130UNT

侧固式刀柄 / Side Lock Chucks DIN69893 HSK-A



- 特点：**
- 头部内孔公差 H5
 - 用于夹持柄部符合 DIN1835-B 的削平柄刀具



型号 Model DIN69893		尺寸 Size (mm)						型式 Type
		DCON _{MS}	DCON _{WS}	BD	LF	LSCX		
HSK63A-XP12-80	HSK-A63	63	12	42	80	49	SXP12	I
-160	HSK-A63	63	12	42	160	49	SXP12	I
HSK63A-XP16-80	HSK-A63	63	16	48	80	52	SXP16	I
-120	HSK-A63	63	16	48	120	52	SXP16	I
-160	HSK-A63	63	16	48	160	52	SXP16	I
-200	HSK-A63	63	16	48	200	52	SXP16	I
HSK63A-XP20-80	HSK-A63	63	20	50	80	54	SXP20	I
-120	HSK-A63	63	20	50	120	54	SXP20	I
-160	HSK-A63	63	20	52	160	54	SXP20	I
-200	HSK-A63	63	20	50	200	54	SXP20	I
HSK63A-XP25-110	HSK-A63	63	25	60	110	66	SXP25	II
-160	HSK-A63	63	25	60	160	66	SXP25	II
-200	HSK-A63	63	25	60	200	66	SXP25	II
HSK63A-XP32-110	HSK-A63	63	32	68	110	66	SXP32	II
-160	HSK-A63	63	32	68	160	70	SXP32	II
-200	HSK-A63	63	32	68	200	70	SXP32	II
HSK100A-XP16-100	HSK-A100	100	16	48	100	52	SXP16	I
-120	HSK-A100	100	16	48	120	52	SXP16	I
-160	HSK-A100	100	16	48	160	52	SXP16	I
-200	HSK-A100	100	16	48	200	52	SXP16	I
HSK100A-XP20-100	HSK-A100	100	20	50	100	54	SXP20	I
-120	HSK-A100	100	20	50	120	54	SXP20	I
-160	HSK-A100	100	20	50	160	54	SXP20	I
-200	HSK-A100	100	20	50	200	54	SXP20	I
HSK100A-XP25-100	HSK-A100	100	25	60	100	66	SXP25	II
-120	HSK-A100	100	25	60	120	66	SXP25	II
-160	HSK-A100	100	25	60	160	66	SXP25	II
-200	HSK-A100	100	25	60	200	66	SXP25	II
HSK100A-XP32-100	HSK-A100	100	32	68	100	66	SXP32	II
-120	HSK-A100	100	32	68	120	70	SXP32	II
-160	HSK-A100	100	32	68	160	70	SXP32	II
-200	HSK-A100	100	32	68	200	70	SXP32	II
HSK100A-XP40-120	HSK-A100	100	40	84	120	80	SXP40	II
-160	HSK-A100	100	40	84	160	80	SXP40	II
-200	HSK-A100	100	40	84	200	80	SXP40	II

*如需其它型式或规格的 HSK 类产品请与本公司联系。
*附件需单独订购。

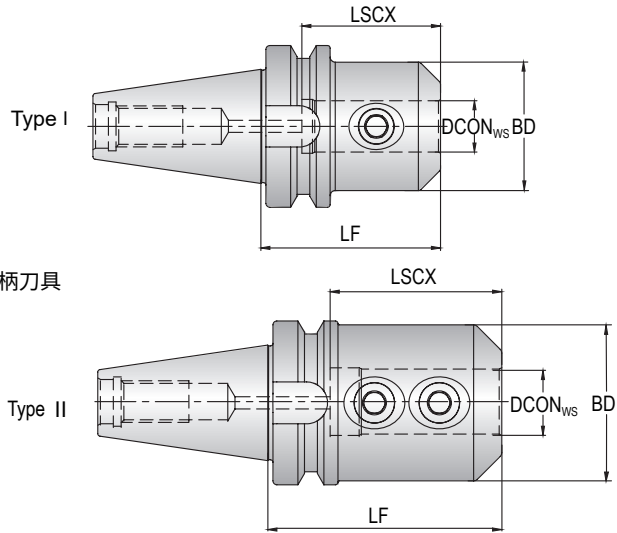
附件 Accessories	DCON _{WS}					
	12	16	20	25	32	40
扳手 Hex Wrench	S6		S8		S10	
附件 Accessories	HSK-A63			HSK-A100		
冷却液套管 Coolant Tube	TU-HSK63			TU-HSK100		
扳手 Coolant Tube Wrench	W-HSK63			W-HSK100		

侧固式刀柄 / Side Lock Chucks JISB6339 BT



特点：

- 头部内孔公差 H5
- 用于夹持柄部符合 DIN1835-B 的削平柄刀具



型号 Model		尺寸 Size (mm)				螺钉 Screw	型式 Type
		DCON _{ws}	BD	LF	LSCX		
JIS B6339-AD							
BT30-XP16-63	30	16	48	63	52	SXP16	I
BT30-XP20-70	30	20	50	70	54	SXP20	I
							I
BT40-XP12-63	40	12	42	63	49	SXP12	I
-100	40	12	42	100	49	SXP12	I
BT40-XP16-35	40	16	48	35	52	SXP16	I
-63	40	16	48	63	52	SXP16	I
-100	40	16	48	100	52	SXP16	I
BT40-XP20-35	40	20	50	35	54	SXP20	I
-70	40	20	50	70	54	SXP20	I
-100	40	20	50	100	54	SXP20	I
-120	40	20	50	120	54	SXP20	I
-160	40	20	50	160	54	SXP20	I
BT40-XP25-60	40	25	60	60	66	SXP25	II
-90	40	25	60	90	66	SXP25	II
-120	40	25	60	120	66	SXP25	II
-160	40	25	60	160	66	SXP25	II
BT40-XP32-65	40	32	68	65	70	SXP32	II
-100	40	32	68	100	70	SXP32	II
-120	40	32	68	120	70	SXP32	II
-160	40	32	68	160	70	SXP32	II
BT50-XP16-45	50	16	48	45	52	SXP16	I
-80	50	16	48	80	52	SXP16	I
-100	50	16	48	100	52	SXP16	I
BT50-XP20-45	50	20	52	45	54	SXP20	I
-80	50	20	50	80	54	SXP20	I
-100	50	20	50	100	54	SXP20	I
-120	50	20	50	120	54	SXP20	I
-160	50	20	50	160	54	SXP20	I
-200	50	20	50	200	54	SXP20	I
BT50-XP25-72	50	25	60	72	66	SXP25	II
-100	50	25	60	100	66	SXP25	II
-120	50	25	60	120	66	SXP25	II
-160	50	25	60	160	66	SXP25	II
-200	50	25	60	200	66	SXP25	II
BT50-XP32-75	50	32	72	75	70	SXP32	II
-105	50	32	68	105	70	SXP32	II
-120	50	32	68	120	70	SXP32	II
-160	50	32	68	160	70	SXP32	II
-200	50	32	68	200	70	SXP32	II
BT50-XP40-120	50	40	84	120	80	SXP40	II
-160	50	40	84	160	80	SXP40	II
-200	50	40	84	200	80	SXP40	II

*附件需单独订购。

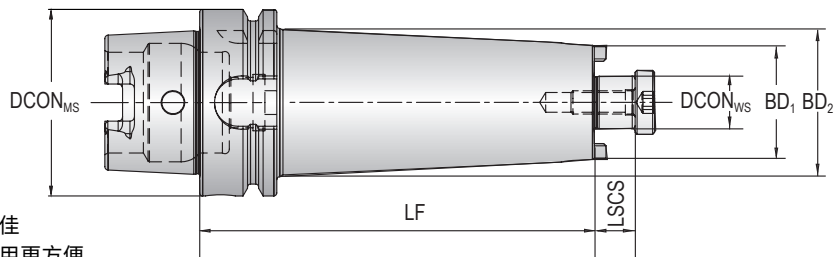
附件 Accessories	DCON _{ws}					
	12	16	20	25	32	40
扳手 Hex Wrench	S6	S6	S8	S8	S10	S10

套式立铣刀刀柄 / Shell Mill Chucks DIN69893 HSK-A



特点：

- 定位圆柱公差优于 h6
- 长型采用锥形设计刚性更佳
- 压紧螺钉一体式设计，使用更方便



型号 Model DIN69893		尺寸 Size (mm)								
		DCON _{MS}	DCON _{WS}	BD ₁	BD ₂	LF	LSCS			
HSK63A-XMB16-50	HSK-A63	63	16	34	-	50	17	MS08030	JC08017	MS03008
-100	HSK-A63	63	16	34	-	100	17	MS08030	JC08017	MS03008
HSK63A-XMB22-50	HSK-A63	63	22	42	-	50	19	MS10030	JC10021	MS04010
-100	HSK-A63	63	22	42	-	100	19	MS10030	JC10021	MS04010
-120	HSK-A63	63	22	42	-	120	19	MS10030	JC10021	MS04010
-150	HSK-A63	63	22	42	-	150	19	MS10030	JC10021	MS04010
-200	HSK-A63	63	22	42	-	200	19	MS10030	JC10021	MS04010
HSK63A-XMB27-60	HSK-A63	63	27	60	-	60	21	SXM27	JC12023	MS05016
-100	HSK-A63	63	27	60	-	100	21	SXM27	JC12023	MS05016
-120	HSK-A63	63	27	60	-	120	21	SXM27	JC12023	MS05016
HSK63A-XMB32-60	HSK-A63	63	32	78	-	60	24	SXM32	JC14020	MS06020
-100	HSK-A63	63	32	78	-	100	24	SXM32	JC14020	MS06020
-120	HSK-A63	63	32	78	-	120	24	SXM32	JC14020	MS06020
HSK63A-XMB40-60	HSK-A63	63	40	89	-	60	27	SXM40	KXM40	MS08020
-120	HSK-A63	63	40	89	-	120	27	SXM40	KXM40	MS08020
HSK100A-XMB22-50	HSK-A100	100	22	42	-	50	19	MS10030	JC10021	MS04010
-100	HSK-A100	100	22	42	-	100	19	MS10030	JC10021	MS04010
-120	HSK-A100	100	22	42	-	120	19	MS10030	JC10021	MS04010
-160	HSK-A100	100	22	42	60	160	19	MS10030	JC10021	MS04010
-200	HSK-A100	100	22	42	60	200	19	MS10030	JC10021	MS04010
HSK100A-XMB27-50	HSK-A100	100	27	60	-	50	21	SXM27	JC12023	MS05016
-60	HSK-A100	100	27	60	-	60	21	SXM27	JC12023	MS05016
-100	HSK-A100	100	27	60	-	100	21	SXM27	JC12023	MS05016
-120	HSK-A100	100	27	60	-	120	21	SXM27	JC12023	MS05016
-160	HSK-A100	100	27	60	75	160	21	SXM27	JC12023	MS05016
-200	HSK-A100	100	27	60	75	200	21	SXM27	JC12023	MS05016
HSK100A-XMB32-50	HSK-A100	100	32	78	-	50	24	SXM32	JC14020	MS06020
-60	HSK-A100	100	32	78	-	60	24	SXM32	JC12023	MS06020
-100	HSK-A100	100	32	78	-	100	24	SXM32	JC14020	MS06020
-120	HSK-A100	100	32	78	-	120	24	SXM32	JC12023	MS06020
-160	HSK-A100	100	32	78	-	160	24	SXM32	JC12023	MS06020
-200	HSK-A100	100	32	78	-	200	24	SXM32	JC12023	MS06020
HSK100A-XMB40-60	HSK-A100	100	40	89	-	60	27	SXM40	KXM40	MS08020
-100	HSK-A100	100	40	89	-	100	27	SXM40	KXM40	MS08020
-120	HSK-A100	100	40	89	-	120	27	SXM40	KXM40	MS08020

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*需中心通油刀柄，请在订货时注明。
*附件需单独订购。

附件 Accessories	DCON _{WS}				
	16	22	27	32	40
扳手 Hex Wrench	S6	S8	S10	S14	S17

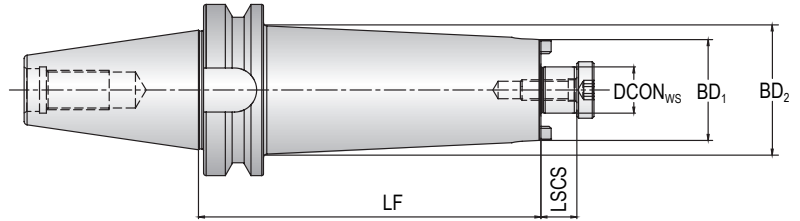
附件 Accessories	HSK-A63	HSK-A100
冷却液套管 Coolant Tubes	TU-HSK63	TU-HSK100
扳手 Coolant Tube Wrench	W-HSK63	W-HSK100

套式立铣刀刀柄 / Shell Mill Chucks JISB6339 BT



特点：

- 定位圆柱公差优于 h6
- 长型采用锥形设计刚性更佳
- 压紧螺钉一体式设计，使用更方便



型号 Model		尺寸 Size (mm)							
		DCON _{WS}	BD ₁	BD ₂	LF	LSCS			
JIS B6339-A									
BT30-XMB16-60	30	16	34	-	60	17	MS08030	JC08017	MS03008
BT30-XMB22-45	30	22	42	-	45	19	MS10030	JC10021	MS04010
BT30-XMB27-45	30	27	60	-	45	21	SXM27	JC12023	MS05016
BT40-XMB16-60	40	16	34	-	60	17	MS08030	JC08017	MS03008
-90	40	16	34	-	90	17	MS08030	JC08017	MS03008
-120	40	16	34	-	120	17	MS08030	JC08017	MS03008
BT40-XMB22-45	40	22	42	-	45	19	MS10030	JC10021	MS04010
-60	40	22	42	-	60	19	MS10030	JC10021	MS04010
-90	40	22	42	-	90	19	MS10030	JC10021	MS04010
-105	40	22	42	-	105	19	MS10030	JC10021	MS04010
-120	40	22	42	-	120	19	MS10030	JC10021	MS04010
-150	40	22	42	60	150	19	MS10030	JC10021	MS04010
-200	40	22	42	60	200	19	MS10030	JC10021	MS04010
BT40-XMB27-45	40	27	60	-	45	21	SXM27	JC12023	MS05016
-60	40	27	60	-	60	21	SXM27	JC12023	MS05016
-90	40	27	60	-	90	21	SXM27	JC12023	MS05016
-105	40	27	60	-	105	21	SXM27	JC12023	MS05016
-120	40	27	60	-	120	21	SXM27	JC12023	MS05016
BT40-XMB32-45	40	32	78	-	60	24	SXM32	JC14020	MS06020
-60	40	32	78	-	60	24	SXM32	JC14020	MS06020
-90	40	32	78	-	60	24	SXM32	JC14020	MS06020
-105	40	32	78	-	60	24	SXM32	JC14020	MS06020
BT40-XMB40-60	40	40	89	-	60	27	SXM40	KXM40	MS08020

*需中心通油刀柄，请在订货时注明。

*附件需单独订购。

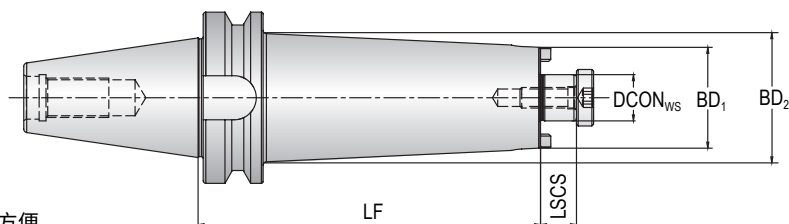
附件 Accessories	DCON _{WS}				
	16	22	27	32	40
扳手 Hex Wrench	S6	S8	S10	S14	S17

套式立铣刀刀柄 / Shell Mill Chucks JISB6339 BT



特点：

- 定位圆柱公差优于 h6
- 长型采用锥形设计刚性更佳
- 压紧螺钉一体式设计，使用更方便



型号 Model		尺寸 Size (mm)							
		DCON _{WS}	BD ₁	BD ₂	LF	LSCS			
JIS B6339-A									
BT50-XMB16-60	50	16	34	-	60	17	MS08030	JC08017	MS03008
-90	50	16	34	-	90	17	MS08030	JC08017	MS03008
-120	50	16	34	-	120	17	MS08030	JC08017	MS03008
BT50-XMB22-60	50	22	42	-	60	19	MS10030	JC10021	MS04010
-90	50	22	42	-	90	19	MS10030	JC10021	MS04010
-105	50	22	42	-	105	19	MS10030	JC10021	MS04010
-120	50	22	42	-	120	19	MS10030	JC10021	MS04010
-150	50	22	42	60	150	19	MS10030	JC10021	MS04010
-200	50	22	42	60	200	19	MS10030	JC10021	MS04010
BT50-XMB27-45	50	27	60	-	45	21	SXM27	JC12023	MS05016
-60	50	27	60	-	60	21	SXM27	JC12023	MS05016
-90	50	27	60	-	90	21	SXM27	JC12023	MS05016
-105	50	27	60	-	105	21	SXM27	JC12023	MS05016
-120	50	27	60	-	120	21	SXM27	JC12023	MS05016
-150	50	27	60	75	150	21	SXM27	JC12023	MS05016
-200	50	27	60	75	200	21	SXM27	JC12023	MS05016
BT50-XMB32-45	50	32	78	-	45	24	SXM32	JC14020	MS06020
-60	50	32	78	-	60	24	SXM32	JC14020	MS06020
-75	50	32	78	-	75	24	SXM32	JC14020	MS06020
-90	50	32	78	-	90	24	SXM32	JC14020	MS06020
-105	50	32	78	-	105	24	SXM32	JC14020	MS06020
-120	50	32	78	-	120	24	SXM32	JC14020	MS06020
-150	50	32	78	-	150	24	SXM32	JC14020	MS06020
-200	50	32	78	-	200	24	SXM32	JC14020	MS06020
BT50-XMB40-45	50	40	89	-	45	27	SXM40	KXM40	MS08020
-60	50	40	89	-	60	27	SXM40	KXM40	MS08020
-70	50	40	89	-	70	27	SXM40	KXM40	MS08020
-90	50	40	89	-	90	27	SXM40	KXM40	MS08020
-105	50	40	89	-	105	27	SXM40	KXM40	MS08020
-120	50	40	89	-	120	27	SXM40	KXM40	MS08020

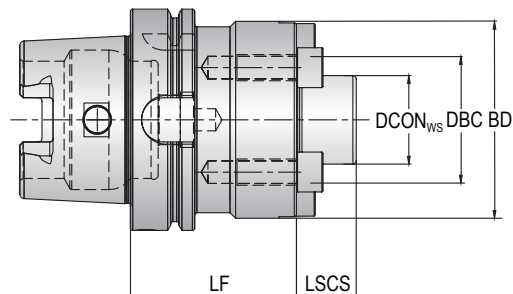
*需中心通油刀柄，请在订货时注明。

*附件需单独订购。

附件 Accessories	DCON _{WS}				
	16	22	27	32	40
扳手 Hex Wrench	S6	S8	S10	S14	S17

面铣刀刀柄 / Face Mill Chucks

DIN69893 HSK-A

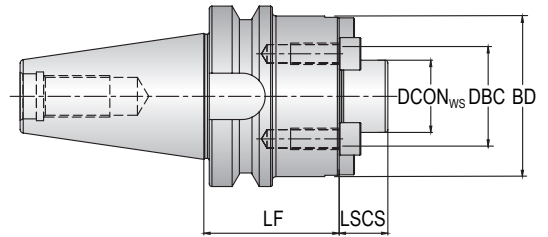






型号 Model DIN69893		尺寸 Size (mm)							
		DCON _{ws}	BD	DBC	LF	LSCS			
HSK63A-XMC40-75	HSK-A63	40	89	66.7	75	27	MS12045(4)	KXM40	MS08020
HSK100A-XMC40-75	HSK-A100	40	89	66.7	75	27	MS12045(4)	KXM40	MS08020
HSK100A-XMC60-75	HSK-A100	60	129	101.6	75	38	MS16045(4)	KXMC60	MS10025

*如需其它型式或规格的 HSK 类产品请与本公司联系。
*附件需单独订购。


附件 Accessories	DCON _{ws}	
	40	60
扳手 Hex Wrench	S10	S14
附件 Accessories	HSK-A63	HSK-A100
冷却液套管 Coolant Tubes	TU-HSK63	TU-HSK100
扳手 Coolant Tube Wrench	W-HSK63	W-HSK100

面铣刀刀柄 / Face Mill Chucks
JISB6339 BT

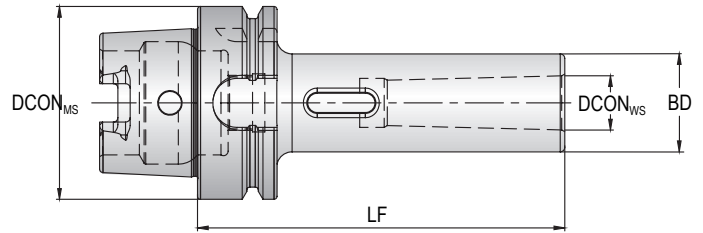


型号 Model		尺寸 Size (mm)					 螺钉 Screw	 键 Key	 螺钉 Screw
		DCON _{ws}	BD	DBC	LF	LSCS			
BT40-XMC40-60	40	40	89	66.7	60	27	MS12045(4)	KXM40	MS08020
BT50-XMC40-75	50	40	89	66.7	75	27	MS12045(4)	KXM40	MS08020
BT50-XMC60-75	50	60	129	101.6	75	38	MS16045(4)	KXMC60	MS10025

*附件需单独订购。

附件 Accessories	DCON _{ws}	
	40	60
 扳手 Hex Wrench	S10	S14

有扁尾莫氏圆锥孔刀柄 / MT Reducing Adaptor With Tang DIN69893 HSK-A



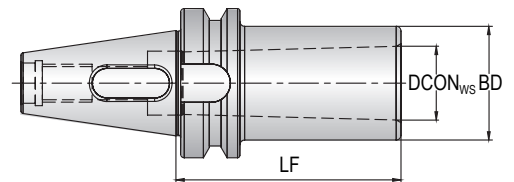
型号 Model		莫氏锥度 Morse taper	安装钻头直径 (mm) Drilling tool diameter	尺寸 Size (mm)			
				DCON _{MS}	BD	DCON _{WS}	LF
DIN69893							
HSK63A-M1-100	HSK-A63	MT1	3-14	63	25	12.065	100
HSK63A-M2-120	HSK-A63	MT2	14.25-23.0	63	32	17.780	120
HSK63A-M3-140	HSK-A63	MT3	23.25-31.75	63	40	23.825	140
HSK63A-M4-160	HSK-A63	MT4	32.0-50.5	63	48	31.267	160
HSK100A-M1-110	HSK-A100	MT1	3-14	100	25	12.065	110
HSK100A-M2-120	HSK-A100	MT2	14.25-23.0	100	32	17.780	120
HSK100A-M3-150	HSK-A100	MT3	23.25-31.75	100	40	23.825	150
HSK100A-M4-170	HSK-A100	MT4	32.0-50.5	100	48	31.267	170
HSK100A-M5-200	HSK-A100	MT5	51-76	100	63	44.399	200

*如需其它型式或规格的 HSK 类产品请与本公司联系。

*附件需单独订购。

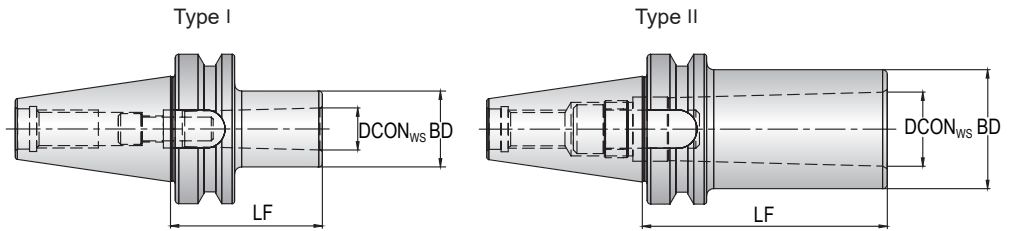
附件 Accessories	HSK-A63	HSK-A100
冷却液套管 Coolant Tube	TU-HSK63	TU-HSK100
扳手 Coolant Tube Wrench	W-HSK63	W-HSK100

有扁尾莫氏圆锥孔刀柄 / MT Reducing Adaptor With Tang
JISB6339 BT



型号 Model JIS B6339-A		莫氏锥度 Morse taper	安装钻头直径 (mm) Drilling tool diameter	尺寸 Size (mm)		
				DCON _{ws}	BD	LF
BT30-M1-50	30	MT1	3-14	12.065	25	50
BT30-M2-60	30	MT2	14.25-23	17.780	32	60
BT40-M1-45	40	MT1	3-14	12.065	25	45
-120	40	MT1	3-14	12.065	25	120
BT40-M2-60	40	MT2	14.25-23	17.780	32	60
-120	40	MT2	14.25-23	17.780	32	120
BT40-M3-75	40	MT3	23.25-31.75	23.825	40	75
-135	40	MT3	23.25-31.75	23.825	40	135
BT40-M4-95	40	MT4	32-50.5	31.267	48	95
-165	40	MT4	32-50.5	31.267	48	165
BT50-M1-45	50	MT1	3-14	12.065	25	45
-120	50	MT1	3-14	12.065	25	120
-180	50	MT1	3-14	12.065	25	180
BT50-M2-45	50	MT2	14.25-23	17.780	32	45
-135	50	MT2	14.25-23	17.780	32	135
-180	50	MT2	14.25-23	17.780	32	180
BT50-M3-75	50	MT3	23.25-31.75	23.825	40	75
-150	50	MT3	23.25-31.75	23.825	40	150
-180	50	MT3	23.25-31.75	23.825	40	180
BT50-M4-75	50	MT4	32-50.5	31.267	48	75
-180	50	MT4	32-50.5	31.267	48	180
BT50-M5-107	50	MT5	51-76	44.399	63	107
-210	50	MT5	51-76	44.399	63	210

无扁尾莫氏圆锥孔刀柄 / MT Reducing Adaptor For Locking Threads JISB6339 BT

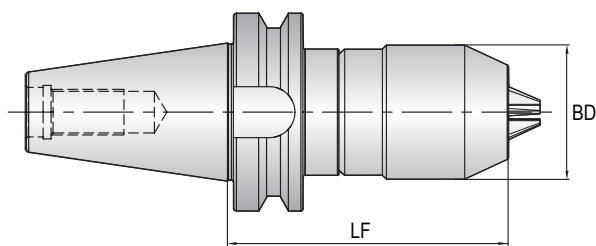



型号 Model JIS B6339-A		莫氏锥度 Morse taper	安装铣刀直径 (mm) Milling tool diameter	尺寸 Size (mm)			 螺钉 Screw	型式 Type
				DCON _{WS}	BD	LF		
BT40-MW1-50	40	MT1	6-12	12.065	27	50	MS06025	I
BT40-MW2-64	40	MT2	14-20	17.780	32	64	MS10030-A	I
BT40-MW3-76	40	MT3	22-36	23.825	40	76	MS12035-A	II
BT40-MW4-103	40	MT4	32-56	31.267	50	103	MS16040-A	II
BT50-MW1-45	50	MT1	6-12	12.065	27	45	MS06025	I
BT50-MW2-60	50	MT2	14-20	17.780	32	60	MS10030	I
BT50-MW3-65	50	MT3	22-36	23.825	40	65	MS12035	I
BT50-MW4-75	50	MT4	32-56	31.267	50	75	MS16040-B	I
BT50-MW5-105	50	MT5	40-63	44.399	78	105	MS20048-A	II

*附件需单独订购。


附件 Accessories	MT1	MT2	MT3	MT4(I)	MT4(II)	MT5
扳手 Hex Wrench	S5	S8	S10	S14	S12	S17

整体式钻夹头刀柄 / Short Drill Chucks
JIS B6339 BT



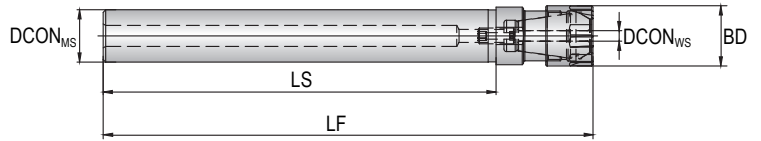
型号 Model		夹持范围 Gripping range (mm)	尺寸 Size (mm)	
			BD	LF
JIS B6339-A				
BT30-KPU08-80	30	0.5-8	37.5	80
BT30-KPU13-110	30	1.0-13	50.5	110
BT40-KPU08-80	40	0.5-8	37.5	80
BT40-KPU13-95	40	1.0-13	50.5	95
BT40-KPU16-100	40	3-16	57	100
BT50-KPU13-105	50	1.0-13	50.5	105
BT50-KPU16-110	50	3-16	57	110

* 附件需单独订购。

附件 Accessories	KPU08	KPU13	KPU16
 扳手 Hex Wrench	WCN20	WCN32	WCN32

附件 Accessories

ER 卡簧接杆 ER Collet Chucks Extentions



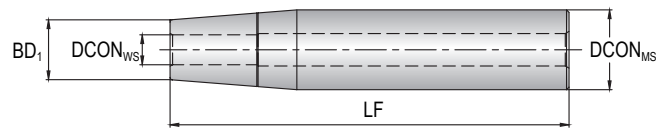
型号 Model	尺寸 Size (mm)					螺母 Nuts	螺钉 Screw	卡簧 Collets
	DCON _{WS}	BD	DCON _{MS}	LS	LF			
C16-ER11-100(M)	0.5~7	16	16	100	127	CNM11	SO06014C	ER11
C20-ER16-100(M)	0.5~10	23	20	100	135	CNM16	SO06014C	ER16
C20-ER16-150(M)	0.5~10	23	20	150	185	CNM16	SO06014C	ER16
C20-ER20-100(M)	1.0~13	28	20	100	138	CNM20	SO08014C	ER20
C20-ER20-150(M)	1.0~13	28	20	150	188	CNM20	SO08014C	ER20
C25-ER20-100(M)	1.0~13	28	25	100	138	CNM20	SO08014C	ER20
C25-ER20-150(M)	1.0~13	28	25	150	188	CNM20	SO08014C	ER20

* ER 卡簧资料参见 60 页，螺母资料参见 69 页。

* 附件需单独订购。

附件 Accessories	ER11	ER16	ER20
扳手 Wrench	WM11	WM16	WM20

标准热装接杆 Standard Shrink Fit Extensions

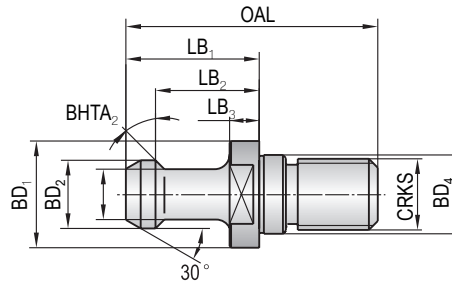



型号 Model	尺寸 Size (mm)			
	DCON _{WS}	DCON _{MS}	BD ₁	LF
C12-SFX03-160	3	12	8	160
C12-SFX04-160	4	12	8	160
C16-SFX03-160	3	16	10	160
C16-SFX04-160	4	16	10	160
C16-SFX05-160	5	16	10	160
C20-SFX05-160	5	20	14	160
C16-SFX06-160	6	16	10	160
C20-SFX06-160	6	20	14	160
C20-SF08-160	8	20	14	160
C25-SF08-160	8	25	19	160
C25-SF10-160	10	25	20	160
C25-SF12-160	12	25	20	160
C25-SF14-160	14	25	20	160
C25-SF16-160	16	25	22	160
C32-SF10-160	10	32	24	160
C32-SF12-160	12	32	24	160
C32-SF14-160	14	32	27	160
C32-SF16-160	16	32	27	160
C32-SF18-160	18	32	27	160
C32-SF20-160	20	32	27	160

附件 Accessories	DCON _{WS}										
	3	4	5	6	8	10	12	14	16	18	20
扳手 Hex Wrench		-		S2.5	S3		S4		S6		S8

BT 拉钉 (MAS 403)

Pull Studs

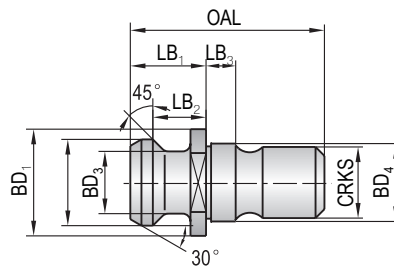


	型号 Model	尺寸 Size(mm)									
		OAL	LB ₁	LB ₂	LB ₃	BD ₁	BD ₂	BD ₃	CRKS	BD ₄	BHTA ₂
30	P30T-I	43	23	18	4.5	16.5	11	7	M12	12.5	45°
30	P30T-II	43	23	18	4.5	16.5	11	7	M12	12.5	30°
40	P40T-I	60	35	28	6	23	15	10	M16	17	45°
40	P40T-II	60	35	28	6	23	15	10	M16	17	30°
40	P40T-III	60	35	28	6	23	15	10	M16	17	90°
50	P50T-I	85	45	35	10	38	23	17	M24	25	45°
50	P50T-II	85	45	35	10	38	23	17	M24	25	30°
50	P50T-III	85	45	35	10	38	23	17	M24	25	90°
60	P60T-I	115	65	53	14	56	32	24	M30	31	45°
60	P60T-II	115	65	53	14	56	32	24	M30	31	30°
60	P60T-III	115	65	53	14	56	32	24	M30	31	90°

* BT 柄标准拉钉, xxxx-I 为 45°拉钉、xxxx-II 为 30°拉钉、xxxx-III 为 90°拉钉。

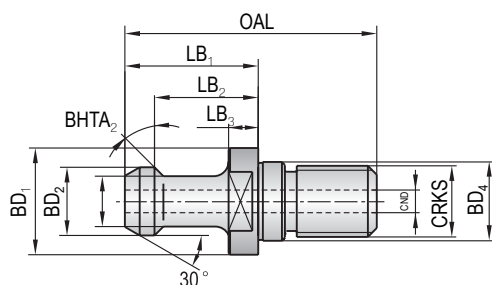
MAZAK/BT 拉钉

MAZAK/BT Pull Studs



	型号 Model	尺寸 Size(mm)								
		OAL	LB ₁	LB ₂	LB ₃	BD ₁	BD ₂	BD ₃	CRKS	BD ₄
40	MAZAK/BT40	44.1	19.1	14.02	5	22	18.8	12.45	M16	17
50	MAZAK/BT50	65.2	25.2	17.58	8	37	29	20.83	M24	25

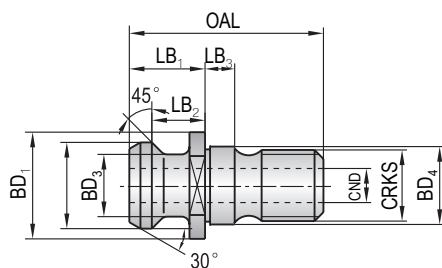
BT 内冷拉钉 (MAS 403) Coolant Pull Studs



型号 Model	尺寸 Size(mm)											
	OAL	LB ₁	LB ₂	LB ₃	BD ₁	BD ₂	BD ₃	CRKS	BD ₄	BHTA ₂	CND	
40	P40T-IC	60	35	28	6	23	15	10	M16	17	45°	4.0
40	P40T-IIC	60	35	28	6	23	15	10	M16	17	30°	4.0
40	P40T-IIIC	60	35	28	6	23	15	10	M16	17	90°	4.0
50	P50T-IC	85	45	35	10	38	23	17	M24	25	45°	7.0
50	P50T-IIC	85	45	35	10	38	23	17	M24	25	30°	7.0
50	P50T-IIIC	85	45	35	10	38	23	17	M24	25	90°	7.0
60	P60T-IC	115	65	53	14	56	32	24	M30	31	45°	12.0
60	P60T-IIC	115	65	53	14	56	32	24	M30	31	30°	12.0
60	P60T-IIIC	115	65	53	14	56	32	24	M30	31	90°	12.0

* BT 柄标准拉钉, xxxx-I 为 45°拉钉、xxxx-II 为 30°拉钉、xxxx-III 为 90°拉钉。

MAZAK/BT 内冷拉钉 MAZAK/BT Coolant Pull Studs



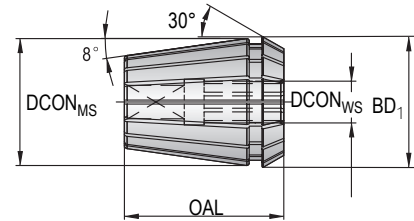
型号 Model	尺寸 Size(mm)										
	OAL	LB ₁	LB ₂	LB ₃	BD ₁	BD ₂	BD ₃	CRKS	BD ₄	CND	
40	MAZAK/BT40C	44.1	19.1	14.02	5	22	18.8	12.45	M16	17	7.0
50	MAZAK/BT50C	65.2	25.2	17.58	8	37	29	20.83	M24	25	10

ER 卡簧 (DIN 6499)

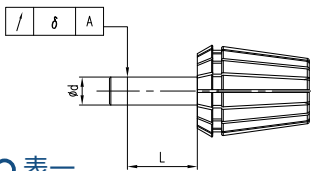
ER Collets



- 精度按 DIN6499 标准执行 (见表一)
- 刀具夹持小于 2/3 卡簧内孔长度将造成卡簧永久性损坏
- 夹持等于卡簧内孔长度可获得最好的夹持精度和夹持力
- 被夹持的刀具直径不得大于卡簧最大夹持直径
- 卡簧夹持范围: ER11 为 0.5mm, ER16 及以上为 1.0mm



ER11	ER16	ER20	ER25	ER32	ER40	卡簧 Collets DCON _{ws} 夹持范围 (mm)
OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	
18.5/11.5	27.5/17.0	31.5/21.0	34.0/26.0	40.0/33.0	46.0/41.0	
ER11-1	ER16-1	ER20-1	ER25-1	ER32-1		1.0-0.5
ER11-1.5	ER16-1.5					1.5-1.0
ER11-2	ER16-2	ER20-2	ER25-2	ER32-2		2.0-1.0
ER11-2.5	ER16-2.5					2.5-1.5
ER11-3	ER16-3	ER20-3	ER25-3	ER32-3		3.0-2.5
ER11-3.5	ER16-3.5					3.5-3.0
ER11-4	ER16-4	ER20-4	ER25-4	ER32-4	ER40-4	4.0-3.5
ER11-4.5	ER16-4.5					4.5-4.0
ER11-5	ER16-5	ER20-5	ER25-5	ER32-5	ER40-5	5.0-4.5
ER11-5.5	ER16-5.5					5.5-5.0
ER11-6	ER16-6	ER20-6	ER25-6	ER32-6	ER40-6	6.0-5.5
ER11-6.5	ER16-6.5					6.5-6.0
ER11-7						7.0-6.5
	ER16-7	ER20-7	ER25-7	ER32-7	ER40-7	7.0-6.0
	ER16-8	ER20-8	ER25-8	ER32-8	ER40-8	8.0-7.0
	ER16-9	ER20-9	ER25-9	ER32-9	ER40-9	9.0-8.0
	ER16-10	ER20-10	ER25-10	ER32-10	ER40-10	10.0-9.0
		ER20-11	ER25-11	ER32-11	ER40-11	11.0-10.0
		ER20-12	ER25-12	ER32-12	ER40-12	12.0-11.0
		ER20-13	ER25-13	ER32-13	ER40-13	13.0-12.0
			ER25-14	ER32-14	ER40-14	14.0-13.0
			ER25-15	ER32-15	ER40-15	15.0-14.0
			ER25-16	ER32-16	ER40-16	16.0-15.0
				ER32-17	ER40-17	17.0-16.0
				ER32-18	ER40-18	18.0-17.0
				ER32-19	ER40-19	19.0-18.0
				ER32-20	ER40-20	20.0-19.0
					ER40-21	21.0-20.0
					ER40-22	22.0-21.0
					ER40-23	23.0-22.0
					ER40-24	24.0-23.0
					ER40-25	25.0-24.0
					ER40-26	26.0-25.0



表一

d (mm)	L (mm)	δ (mm)
		ERxx-x/ERxx-xC
1-1.6	6	0.015
1.6-3	10	0.015
3-6	16	0.015
6-10	25	0.015
10-18	40	0.020
18-26	50	0.020

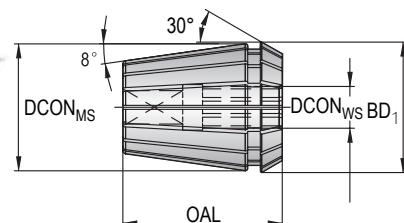
ER 高精度卡簧 (DIN 6499)

ER Precision Collets



- 为保证卡簧精度，推荐夹持定径刀具
- 刀具夹持小于 2/3 卡簧内孔长度将造成卡簧永久性损坏
- 夹持等于卡簧内孔长度可获得最好的夹持精度和夹持力
- 被夹持的刀具直径不得大于卡簧最大夹持直径
- 卡簧夹持范围：ER11 为 0.5mm，ER16 及以上为 1.0mm

精度 Precision
5µm



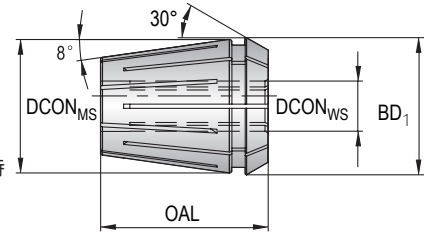
ER11 OAL/BD ₁ (mm) 18.5/11.5	ER16 OAL/BD ₁ (mm) 27.5/17.0	ER20 OAL/BD ₁ (mm) 31.5/21.0	ER25 OAL/BD ₁ (mm) 34.0/26.0	ER32 OAL/BD ₁ (mm) 40.0/33.0	ER40 OAL/BD ₁ (mm) 46.0/41.0	卡簧 Collets DCON _{WS} 夹持范围 (mm)
ER11-2.5A						2.5-2.0
ER11-3A	ER16-3A	ER20-3A	ER25-3A	ER32-3A		3.0-2.5
ER11-3.5A						3.5-3.0
ER11-4A	ER16-4A	ER20-4A	ER25-4A	ER32-4A	ER40-4A	4.0-3.5
ER11-4.5A						4.5-4.0
ER11-5A	ER16-5A	ER20-5A	ER25-5A	ER32-5A	ER40-5A	5.0-4.5
ER11-5.5A						5.5-5.0
ER11-6A	ER16-6A	ER20-6A	ER25-6A	ER32-6A	ER40-6A	6.0-5.5
ER11-6.5A						6.5-6.0
ER11-7A						7.0-6.5
	ER16-7A	ER20-7A	ER25-7A	ER32-7A	ER40-7A	7.0-6.0
	ER16-8A	ER20-8A	ER25-8A	ER32-8A	ER40-8A	8.0-7.0
	ER16-9A	ER20-9A	ER25-9A	ER32-9A	ER40-9A	9.0-8.0
	ER16-10A	ER20-10A	ER25-10A	ER32-10A	ER40-10A	10.0-9.0
		ER20-11A	ER25-11A	ER32-11A	ER40-11A	11.0-10.0
		ER20-12A	ER25-12A	ER32-12A	ER40-12A	12.0-11.0
		ER20-13A	ER25-13A	ER32-13A	ER40-13A	13.0-12.0
			ER25-14A	ER32-14A	ER40-14A	14.0-13.0
			ER25-15A	ER32-15A	ER40-15A	15.0-14.0
			ER25-16A	ER32-16A	ER40-16A	16.0-15.0
				ER32-17A	ER40-17A	17.0-16.0
				ER32-18A	ER40-18A	18.0-17.0
				ER32-19A	ER40-19A	19.0-18.0
				ER32-20A	ER40-20A	20.0-19.0
					ER40-21A	21.0-20.0
					ER40-22A	22.0-21.0
					ER40-23A	23.0-22.0
					ER40-24A	24.0-23.0
					ER40-25A	25.0-24.0
					ER40-26A	26.0-25.0

ER 止水卡簧 (DIN 6499)

ER Coolant Collets

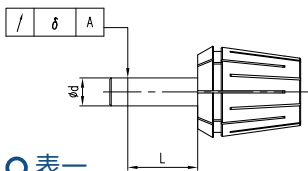


- 精度按 DIN6499 标准执行 (见表一)
- 为保证良好的止水功能, 推荐采用定径 (柄部公差符合 h9) 夹持
- 夹持柄径长度必须大于等于卡簧内孔长度才能实现止水功能
- 被夹持的刀具直径不得大于卡簧最大夹持直径



ER11	ER16	ER20	ER25	ER32	ER40	卡簧 Collets
OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	dm
18.5/11.5	27.5/17.0	31.5/21.0	34.0/26.0	40.0/33.0	46.0/41.0	夹持范围 (mm)
ER11-3C	ER16-3C					3.0
ER11-3.5C						3.5
ER11-4C	ER16-4C					4.0
ER11-4.5C						4.5
ER11-5C	ER16-5C					5.0
ER11-5.5C						5.5
ER11-6C	ER16-6C					6.0
ER11-6.5C						6.5
ER11-7C	ER16-7C	ER20-7C				7.0
	ER16-8C	ER20-8C	ER25-8C	ER32-8C		8.0
	ER16-9C	ER20-9C	ER25-9C	ER32-9C		9.0
	ER16-10C	ER20-10C	ER25-10C	ER32-10C	ER40-10C	10.0
		ER20-11C	ER25-11C	ER32-11C	ER40-11C	11.0
		ER20-12C	ER25-12C	ER32-12C	ER40-12C	12.0
		ER20-13C	ER25-13C	ER32-13C	ER40-13C	13.0
			ER25-14C	ER32-14C	ER40-14C	14.0
			ER25-15C	ER32-15C	ER40-15C	15.0
			ER25-16C	ER32-16C	ER40-16C	16.0
				ER32-17C	ER40-17C	17.0
				ER32-18C	ER40-18C	18.0
				ER32-19C	ER40-19C	19.0
				ER32-20C	ER40-20C	20.0
					ER40-21C	21.0
					ER40-22C	22.0
					ER40-23C	23.0
					ER40-24C	24.0
					ER40-25C	25.0
					ER40-26C	26.0

*若需要其他尺寸规格的卡簧, 请与本公司咨询、订购。



表一

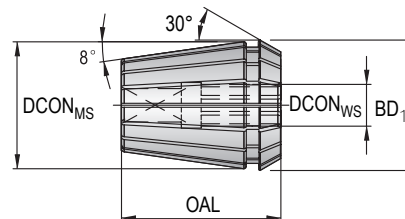
d (mm)	L (mm)	δ (mm)
		ERxx-x/ERxx-xC
1-1.6	6	0.015
1.6-3	10	0.015
3-6	16	0.015
6-10	25	0.015
10-18	40	0.020
18-26	50	0.020

ER 攻丝卡簧

ER Rigid Tap Collets

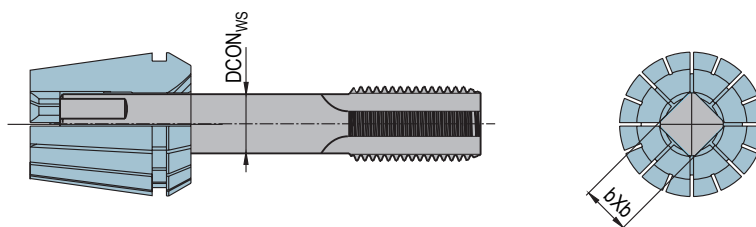


- 请确保所用丝锥外方与卡簧内方尺寸一致
- 被夹持的刀具直径不得大于卡簧最大夹持直径
- 丝锥方柄必须插入卡簧方孔内，方能进行加工



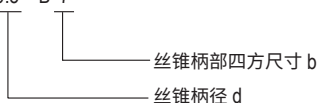
型号 Model		ISO529/ISO2283	DIN374/DIN376	JISB4430
ER20-6.3B5	ER32-6.3B5	M8	M8	M6/M8
ER20-7B5.5	ER32-7B5.5		M10	M10
ER20-8B6.3	ER32-8B6.3	M10		
ER20-8.5B6.5	ER32-8.5B6.5			M12
ER20-9B7.1	ER32-9B7.1	M12	M12	
	ER32-12B9		M16	
	ER32-12.5B10	M16		M16
	ER32-14B11.2	M18/M20	M18	M18
	ER32-15B12			M20
	ER32-16B12		M20	

攻丝卡簧应用指南



- 1) 丝锥方柄必须伸入卡簧方槽内，才能安全，有效的工作；
- 2) 选用卡簧时，请注意丝锥的四方柄与卡簧内四方的匹配；
- 3) 卡簧规格型号即包含了配用丝锥柄径及内方孔尺寸，请注意辨别；

卡簧型号规格为：ER16- 9.5 B 7

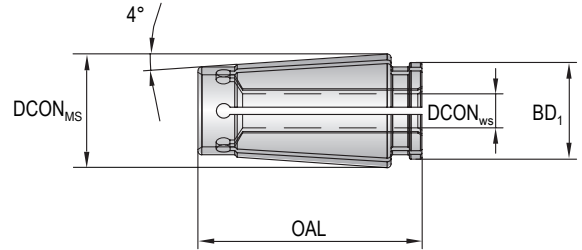


SK 卡簧

SK Collets



- 刀具夹持小于 2/3 卡簧内孔长度将造成卡簧永久性损坏
- 夹持等于卡簧内孔长度可获得最好的夹持精度和夹持力
- 被夹持的刀具直径不得大于卡簧最大夹持直径

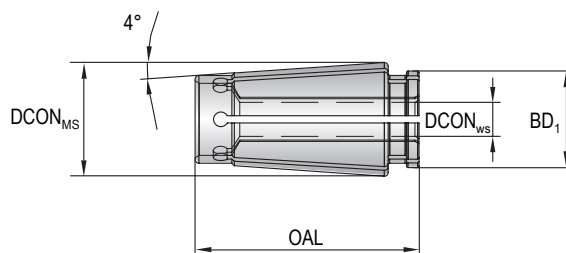


卡簧 Collets DCON _{WS} 夹持范围 (mm)	SK06 OAL/BD ₁ (mm)	SK10 OAL/BD ₁ (mm)	SK13 OAL/BD ₁ (mm)	SK16 OAL/BD ₁ (mm)	SK20 OAL/BD ₁ (mm)	SK25 OAL/BD ₁ (mm)	卡簧 Collets DCON _{WS} 夹持范围 (mm)
2.8-3.0	25.0/9	30.5/13.0	39.0/17.0	45.0/20.5	54.0/25.0	57.0/29.7	2.8-3.0
3.5-4.0	SK06-3	SK10-3	SK13-3	SK16-3	SK20-3	SK25-3	3.5-4.0
4.5-5.0	SK06-4	SK10-4	SK13-4	SK16-4	SK20-4	SK25-4	4.5-5.0
5.5-6.0	SK06-5	SK10-5	SK13-5	SK16-5	SK20-5	SK25-5	5.5-6.0
7.5-8.0	SK06-6	SK10-6	SK13-6	SK16-6	SK20-6	SK25-6	7.5-8.0
9.5-10.0		SK10-8	SK13-8	SK16-8	SK20-8	SK25-8	9.5-10.0
11.5-12.0		SK10-10	SK13-10	SK16-10	SK20-10	SK25-10	11.5-12.0
12.5-13.0			SK13-12	SK16-12	SK20-12	SK25-12	12.5-13.0
13.5-14.0			SK13-13	SK16-13	SK20-13	SK25-13	13.5-14.0
15.5-16.0				SK16-14	SK20-14	SK25-14	15.5-16.0
17.5-18.0				SK16-16	SK20-16	SK25-16	17.5-18.0
19.5-20.0					SK20-18	SK25-18	19.5-20.0
21.5-22.0					SK20-20	SK25-20	21.5-22.0
24.5-25.0						SK25-22	24.5-25.0
						SK25-25	

SK 高精度卡簧 SK Precision Collets



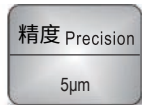
- 刀具夹持小于 2/3 卡簧内孔长度将造成卡簧永久性损坏
- 夹持等于卡簧内孔长度可获得最好的夹持精度和夹持力
- 被夹持的刀具直径不得大于卡簧最大夹持直径



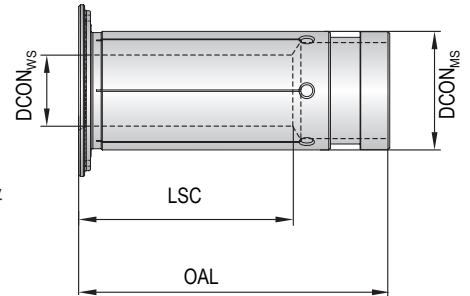
卡簧 Collets DCON _{ws} 夹持范围 (mm)	SK06	SK10	SK13	SK16	SK20	SK25	卡簧 Collets DCON _{ws} 夹持范围 (mm)
	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	OAL/BD ₁ (mm)	
2.8-3.0	SK06-3A	SK10-3A	SK13-3A	SK16-3A	SK20-3A	SK25-3A	2.8-3.0
3.5-4.0	SK06-4A	SK10-4A	SK13-4A	SK16-4A	SK20-4A	SK25-4A	3.5-4.0
4.5-5.0	SK06-5A	SK10-5A	SK13-5A	SK16-5A	SK20-5A	SK25-5A	4.5-5.0
5.5-6.0	SK06-6A	SK10-6A	SK13-6A	SK16-6A	SK20-6A	SK25-6A	5.5-6.0
7.5-8.0		SK10-8A	SK13-8A	SK16-8A	SK20-8A	SK25-8A	7.5-8.0
9.5-10.0		SK10-10A	SK13-10A	SK16-10A	SK20-10A	SK25-10A	9.5-10.0
11.5-12.0			SK13-12A	SK16-12A	SK20-12A	SK25-12A	11.5-12.0
12.5-13.0			SK13-13A	SK16-13A	SK20-13A	SK25-13A	12.5-13.0
13.5-14.0				SK16-14A	SK20-14A	SK25-14A	13.5-14.0
15.5-16.0				SK16-16A	SK20-16A	SK25-16A	15.5-16.0
17.5-18.0					SK20-18A	SK25-18A	17.5-18.0
19.5-20.0					SK20-20A	SK25-20A	19.5-20.0
21.5-22.0						SK25-22A	21.5-22.0
24.5-25.0						SK25-25A	24.5-25.0

液压卡簧

Hydraulic Collets



- 切削刀具必须为圆柱形柄，在使用内冷时，必须有一个通孔
- 切削刀具必须完全接触长度为 LSC 的液压卡簧型腔，否则会对液压卡簧及刀柄产生永久性的损伤
- 液压卡簧必须完全插入到液压柄孔径中，直至肩部与液压柄前端面贴合
- 切削刀具的柄径公差等级为 h6



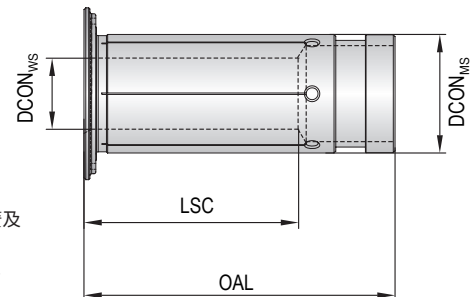
型号 Model	尺寸 Size(mm)			
	DCON _{WS}	DCON _{MS}	LSC	OAL
HC12-3	3	12	16.5	47.5
HC12-4	4	12	16.5	47.5
HC12-5	5	12	16.5	47.5
HC12-6	6	12	24.0	47.5
HC12-7	7	12	25	47.5
HC12-8	8	12	25.5	47.5
HC20-3	3	20	17.5	52.5
HC20-4	4	20	17.5	52.5
HC20-5	5	20	17.5	52.5
HC20-6	6	20	25.5	52.5
HC20-7	7	20	28.0	52.5
HC20-8	8	20	28.0	52.5
HC20-9	9	20	32.5	52.5
HC20-10	10	20	32.5	52.5
HC20-11	11	20	36.0	52.5
HC20-12	12	20	36.0	52.5
HC20-13	13	20	36.5	52.5
HC20-14	14	20	37.0	52.5
HC20-15	15	20	37.0	52.5
HC20-16	16	20	37.5	52.5
HC32-6	6	32	25.5	63.5
HC32-8	8	32	27.5	63.5
HC32-10	10	32	30.5	63.5
HC32-12	12	32	30.5	63.5
HC32-14	14	32	32.5	63.5
HC32-16	16	32	40.5	63.5
HC32-17	17	32	40	63.5
HC32-18	18	32	40.5	63.5
HC32-20	20	32	40.5	63.5
HC32-24	24	32	48.5	63.5
HC32-25	25	32	48.5	63.5

液压卡簧 Hydraulic Collets



精度 Precision
3μm

- 切削刀具必须为圆柱形柄，在使用内冷时，必须有一个通孔
- 切削刀具必须完全接触长度为 LSC 的液压卡簧型腔，否则会对液压卡簧及刀柄产生永久性的损伤
- 液压卡簧必须完全插入到液压柄孔径中，直至肩部与液压柄前端面贴合
- 切削刀具的柄径公差等级为 h6



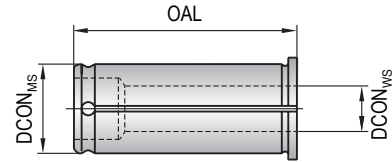
型号 Model	尺寸 Size(mm)			
	DCON _{WS}	DCON _{MS}	LSC	OAL
HC12-3M	3	12	16.5	47.5
HC12-4M	4	12	16.5	47.5
HC12-5M	5	12	16.5	47.5
HC12-6M	6	12	24.0	47.5
HC12-8M	8	12	25.5	47.5
HC20-3M	3	20	17.5	52.5
HC20-4M	4	20	17.5	52.5
HC20-5M	5	20	17.5	52.5
HC20-6M	6	20	25.5	52.5
HC20-7M	7	20	28.0	52.5
HC20-8M	8	20	28.0	52.5
HC20-9M	9	20	32.5	52.5
HC20-10M	10	20	32.5	52.5
HC20-11M	11	20	36.0	52.5
HC20-12M	12	20	36.0	52.5
HC20-13M	13	20	36.5	52.5
HC20-14M	14	20	37.0	52.5
HC20-15M	15	20	37.0	52.5
HC20-16M	16	20	37.5	52.5
HC32-6M	6	32	25.5	63.5
HC32-8M	8	32	27.5	63.5
HC32-10M	10	32	30.5	63.5
HC32-12M	12	32	30.5	63.5
HC32-14M	14	32	32.5	63.5
HC32-16M	16	32	40.5	63.5
HC32-18M	18	32	40.5	63.5
HC32-20M	20	32	40.5	63.5
HC32-25M	25	32	48.5	63.5

直筒卡簧

Straight Collets

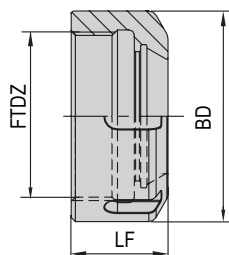


- 适用于强力夹头刀柄
- 夹持柄径公差为 h6



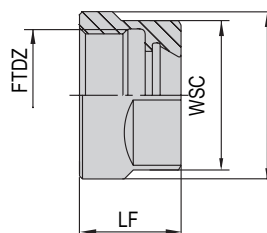
卡簧 Collets DCON _{WS} 夹持范围 (mm)	C20 OAL/DCON _{MS} (mm)	C25 OAL/DCON _{MS} (mm)	C32 OAL/DCON _{MS} (mm)	C42 OAL/DCON _{MS} (mm)	卡簧 Collets DCON _{WS} 夹持范围 (mm)
3	C20-3				3
4	C20-4	C25-4			4
5	C20-5	C25-5			5
6	C20-6	C25-6	C32-6	C42-6	6
8	C20-8	C25-8	C32-8	C42-8	8
10	C20-10	C25-10	C32-10	C42-10	10
12	C20-12	C25-12	C32-12	C42-12	12
14	C20-14	C25-14	C32-14	C42-14	14
16	C20-16	C25-16	C32-16	C42-16	16
18		C25-18	C32-18	C42-18	18
19			C32-19		19
20		C25-20	C32-20	C42-20	20
24			C32-24		24
25			C32-25	C42-25	25
32				C42-32	32

ER 螺母 B 型 ER Nuts B



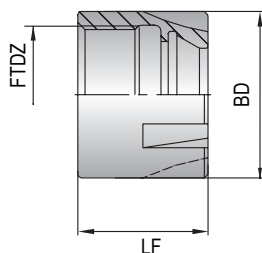
型号 Model	尺寸 Size(mm)			扳手 Wrench	描述 Description
	BD	FTDZ	LF		
CN25B	42	M32×1.5	20	YER25B	用于 ER25 弹簧夹头刀柄
CN32B	50	M40×1.5	23	YER32B	用于 ER32 弹簧夹头刀柄
CN40B	63	M50×1.5	26	YER40B	用于 ER40 弹簧夹头刀柄

ER 螺母 HS 型 ER Nuts HS



型号 Model	尺寸 Size(mm)				扳手 Wrench	描述 Description
	BD	FTDZ	LF	WSC		
CN11HS	19	M14×0.75	11.3	17	W17D	用于 ER11 弹簧夹头刀柄
CN16HS	28	M22×1.5	17.5	25	W25D	用于 ER16 弹簧夹头刀柄
CN20HS	34	M25×1.5	19	30	W30D	用于 ER20 弹簧夹头刀柄

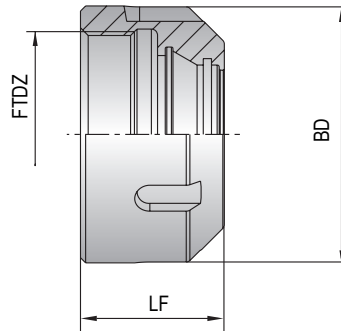
ER 螺母 M 型 ER Nuts M



型号 Model	尺寸 Size(mm)			扳手 Wrench	描述 Description
	BD	FTDZ	LF		
CN11M	16	M13×0.75	12	WM11	用于 ER11 卡簧接杆
CN16M	23	M19×1	18	WM16	用于 ER16 卡簧接杆
CN20M	28	M24×1	19	WM20	用于 ER20 卡簧接杆

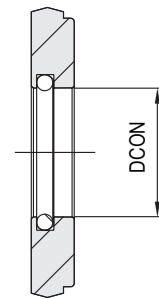
*小径螺母为卡簧接杆专用螺母。

内冷螺母 Coolant Nuts



型号 Model	尺寸 Size(mm)			扳手 Wrench	描述 Description
	BD	FTDZ	LF		
CN20C	34	M25×1.5	24	W30D	用于 ER20 卡簧内冷
CN32C	50	M40×1.5	28	YER32B	用于 ER32 卡簧内冷

止水垫圈 Sealing Disk



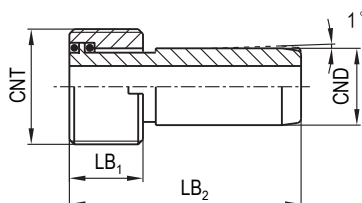
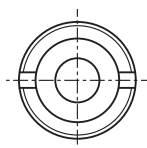
型号 Model		DCON (mm)	ISO		JIS		DIN
			ISO529	ISO529/ISO2283	JISB4430	DIN371	DIN374/DIN376
DER20C-6	DER32C-6	6			M6	M5/M6	M8
DER20C-6.5	DER32C-6.5	6.5	M6	M8	M8		
DER20C-7	DER32C-7	7			M10		M10
DER20C-8	DER32C-8	8	M8	M10		M8	
DER20C-8.5	DER32C-8.5	8.5			M12		
DER20C-9	DER32C-9	9		M12			M12
DER20C-10	DER32C-10	10	M10			M10	
	DER32C-12	12					M16
	DER32C-12.5	12.5		M16	M16		
	DER32C-14	14		M18/M20	M18		M18
	DER32C-15	15			M20		
	DER32C-16	16		M22			M20


HSK 冷却液套管及扳手

HSK Coolant Tubes And Coolant Tube Wrenches

冷却液套管

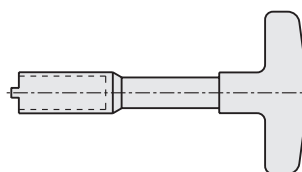
Coolant Tube




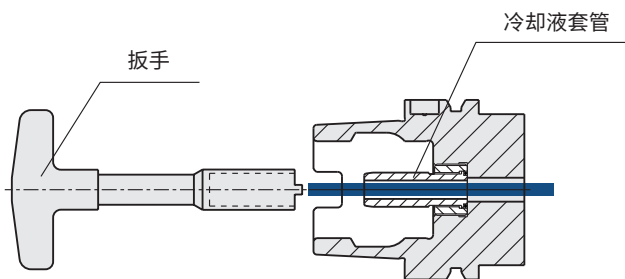
型号 Model		尺寸 Size(mm)			
		CNT	CND	LB ₁	LB ₂
TU-HSK40	HSK-40	M12x1	8	7.5	29.5
TU-HSK50	HSK-50	M16x1	10	9.5	33
TU-HSK63	HSK-63	M18x1	12	11.5	36.6
TU-HSK80	HSK-80	M20x1.5	14	13.5	40
TU-HSK100	HSK-100	M24x1.5	16	15.5	44.2

扳手

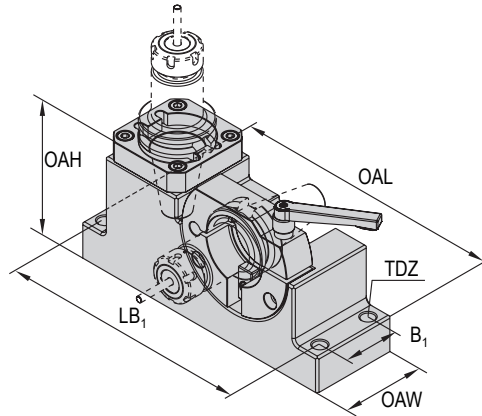
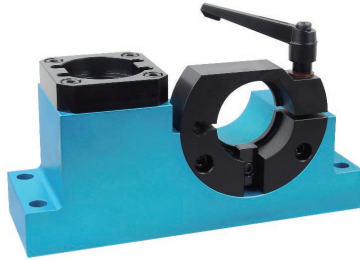
Wrench



型号 Model	
W-HSK63	HSK-63
W-HSK100	HSK-100

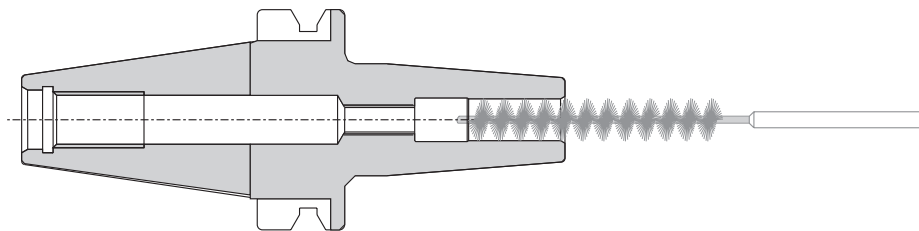


卸刀夹具 Tooling Setup Fixtures



型号 Model		尺寸 Size(mm)						适用刀柄 Suitable for Handle
		OAL	OAH	OAW	LB ₁	B ₁	TDZ	
T-M/BT30	30	200	96	64	184	40	M8	BT30
T-M/BT40	40	272	133	85	248	55	M12	BT40
T-M/BT50	50	364	168	125	338	85	M12	BT50
T-M/HSK63I	HSK63	272	135	85	248	55	M12	HSK63A, HSK63C
T-M/HSK100I	HSK100	364	170	125	338	85	M12	HSK100A, HSK100C

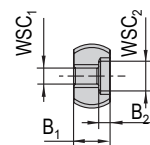
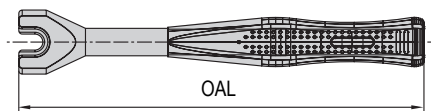
清洁毛刷 Cleaning brushes



型号 Model	适用孔径 (mm)
NLS-3	3
NLS-4	4
NLS-5	5
NLS-6	6
NLS-8	8
NLS-10	10
NLS-12	12
NLS-14	14
NLS-16	16
NLS-18	18
NLS-20	20
NLS-25	25
NLS-32	32

*用于热装刀柄内孔清洁。

拉钉扳手 Pull Nail Wrench



型号 Model	尺寸 Size (mm)					扭矩 torque(N·m)	重量 weight (kg)	适用拉钉的标准
	OAL	B ₁	B ₂	WSC ₁	WSC ₂			
PW-BT30	210	16	5	7	13	≤ 80	0.31	MAS 403-1975
PW-BT40	230	25	6	10	19	≤ 150	0.43	MAS 403-1975
PW-BT50	280	33	10	17	30	≤ 280	0.84	MAS 403-1975

操作方法



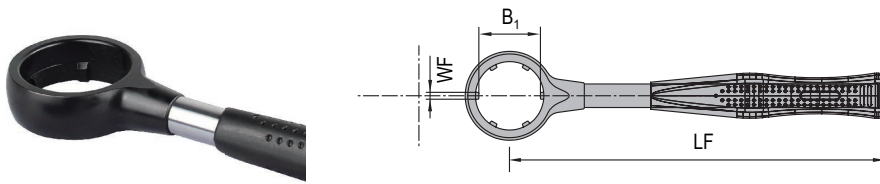
操作步骤：

1. 如左图所示，将拉钉扳手的扳手头卡住拉钉颈部和法兰台阶。
2. 手臂均匀用力，向左扳动可锁紧拉钉，向右扳动可松开拉钉。

注意事项：

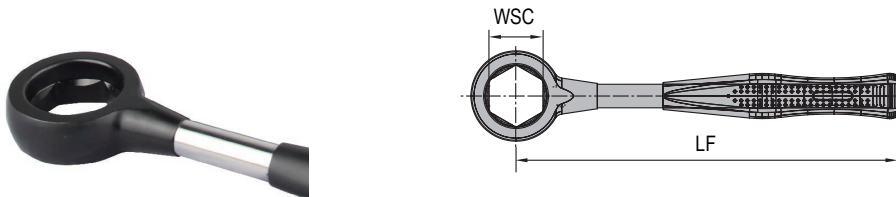
1. 操作前，注意刀柄要固定牢靠。
2. 切勿使用加长杆增加力矩。
3. 切勿使用锤子等敲击扳手。
4. BT 系列拉钉扳手仅适用于对应 BT 系列之 45°、60° 和 90° 拉钉。

ER 螺母扳手 ER Nuts Wrench



型号 Model	尺寸 Size (mm)			描述 Description
	LF	B ₁	WF	
PW-ER25B	250	35	5	用于 ER25 螺母 B 型 suitable for ER 16 Nuts HS
PW-ER32B	270	45	5	用于 ER32 螺母 B 型 suitable for ER 16 Nuts HS
PW-ER40B	300	57	5	用于 ER40 螺母 B 型 suitable for ER 16 Nuts HS

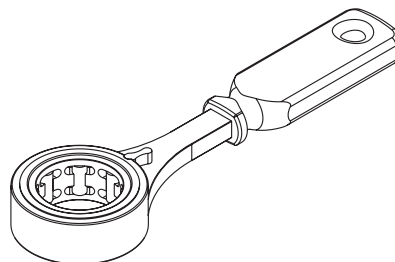
HS 螺母扳手 HS Nuts Wrench



型号 Model	尺寸 Size (mm)		描述 Description
	LF	WSC	
PW-ER16HS	225	25	用于 ER16 螺母 HS 型 suitable for ER 16 Nuts HS
PW-ER20HS	240	30	用于 ER20 螺母 HS 型 suitable for ER 20 Nuts HS

HNSK 螺母扳手

HNSK Nuts Wrench



型号 Model	描述 Description
YSK06	用于 SK06 高精度弹簧夹头刀柄 suitable for SK06 precision collet chuck handle
YSK10	用于 SK10 高精度弹簧夹头刀柄 suitable for SK10 precision collet chuck handle
YSK13	用于 SK13 高精度弹簧夹头刀柄 suitable for SK13 precision collet chuck handle
YSK16	用于 SK16 高精度弹簧夹头刀柄 suitable for SK16 precision collet chuck handle
YSK20	用于 SK20 高精度弹簧夹头刀柄 suitable for SK20 precision collet chuck handle
YSK25	用于 SK25 高精度弹簧夹头刀柄 suitable for SK25 precision collet chuck handle

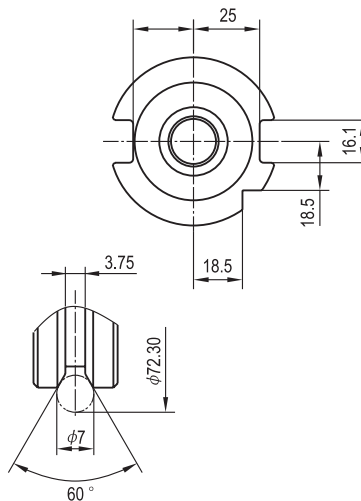
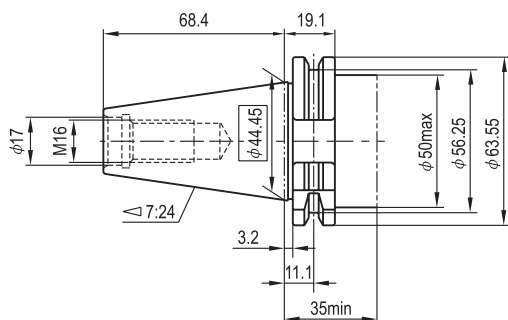
技术资料 Technical Data

锥柄型式 (DIN 69871)

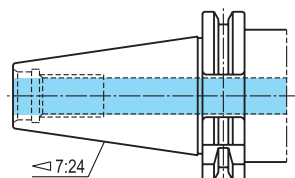


JT40 A/AD

A 型

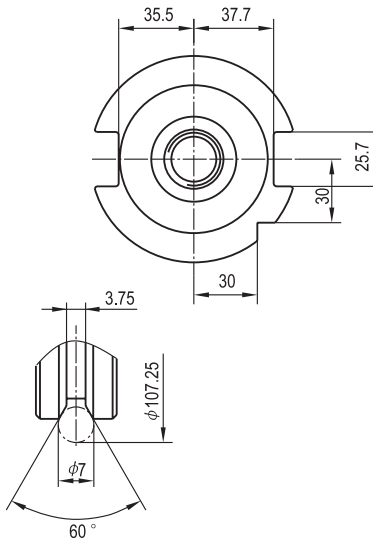
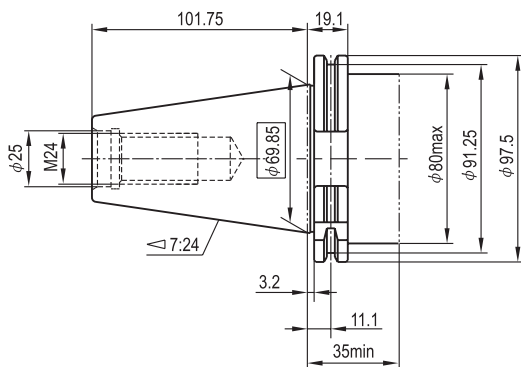


AD 型

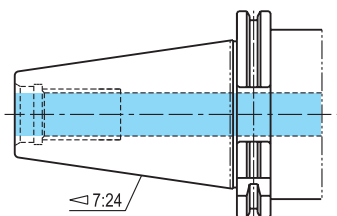


JT50 A/AD

A 型



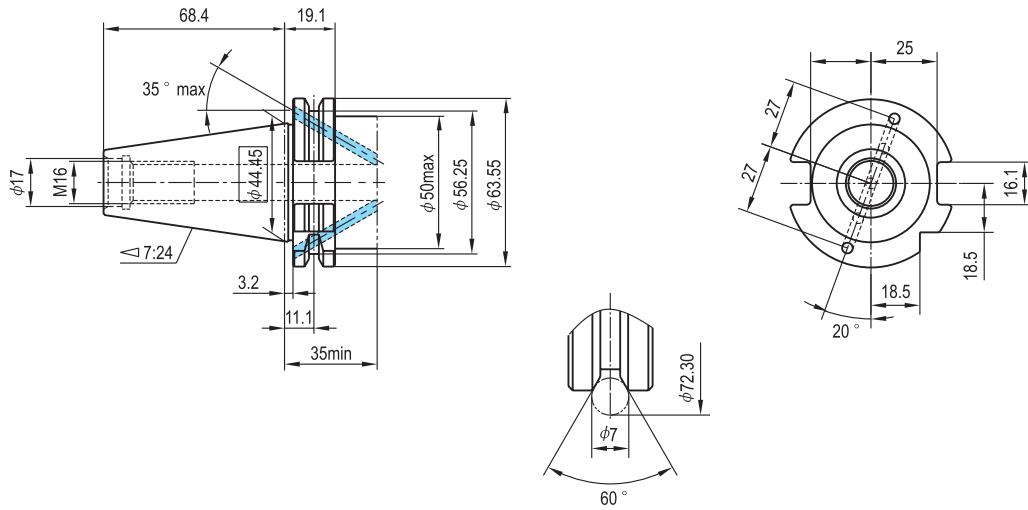
AD 型



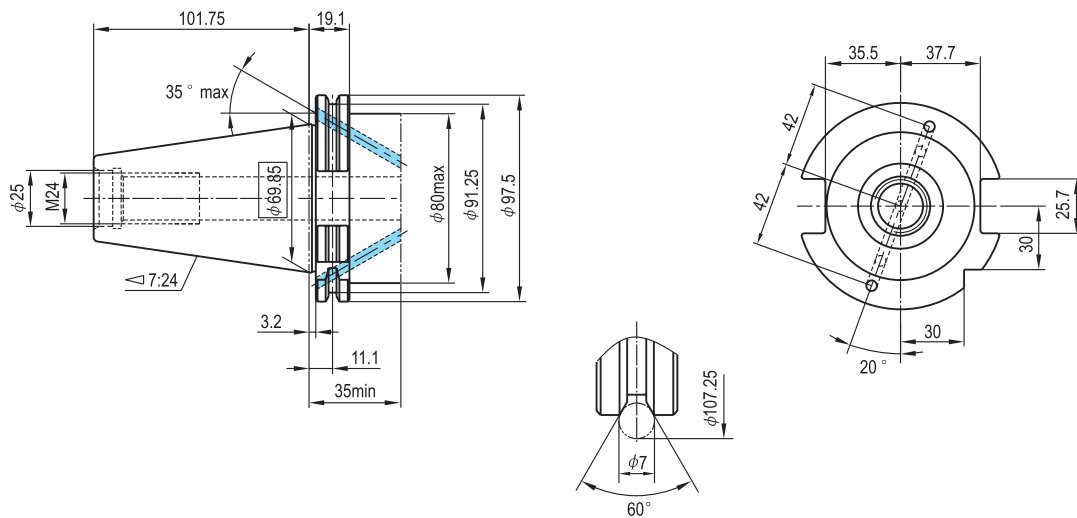
锥柄型式 (DIN 69871)



JT40 B



JT50 B

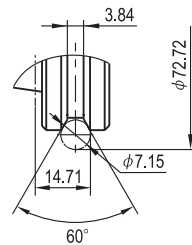
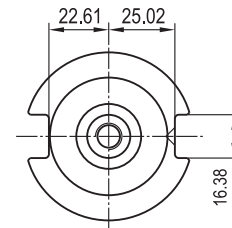
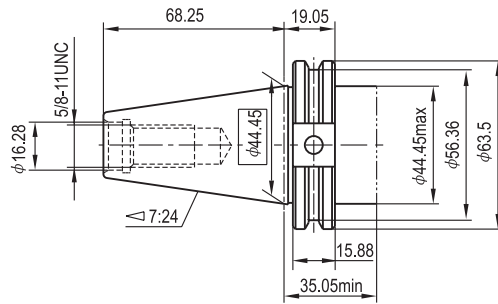


锥柄型式 (ANSI/AMSE B5.50CAT)

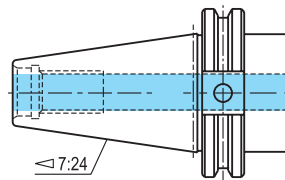


CT40 A/AD

A 型

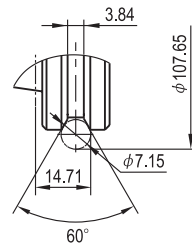
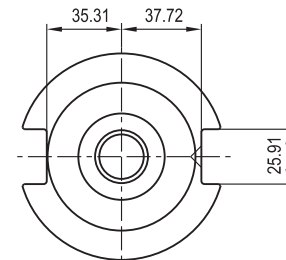
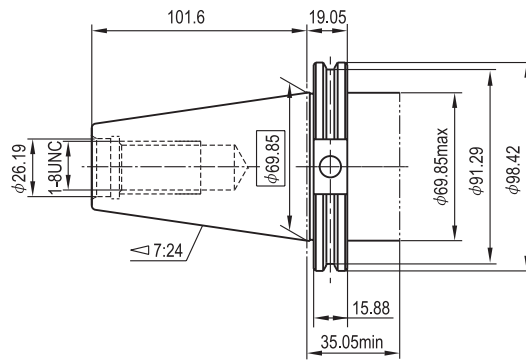


AD 型

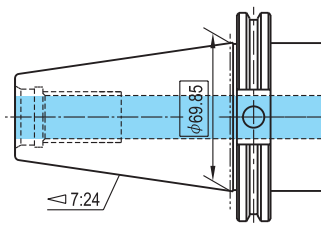


CT50 A/AD

A 型



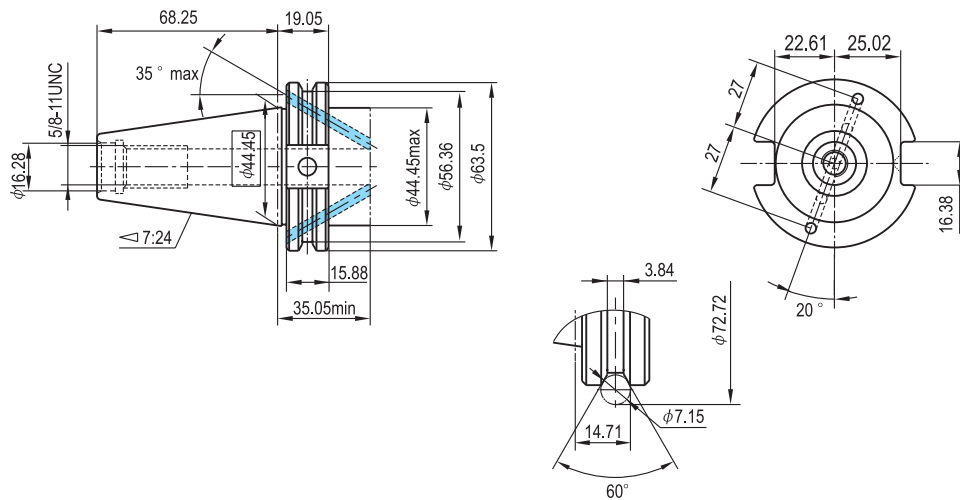
AD 型



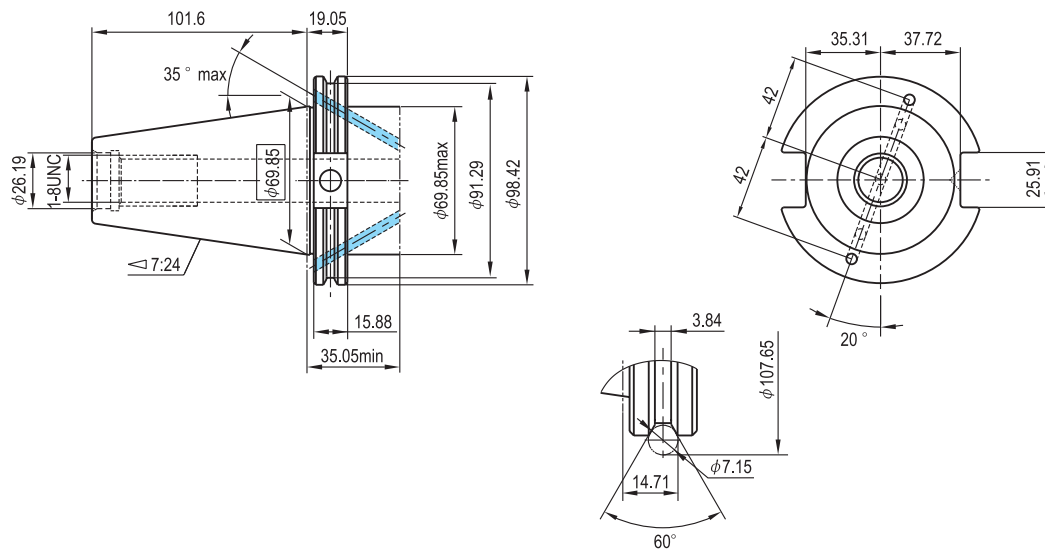
锥柄型式 (ANSI/AMSE B5.50CAT)



CT40 B



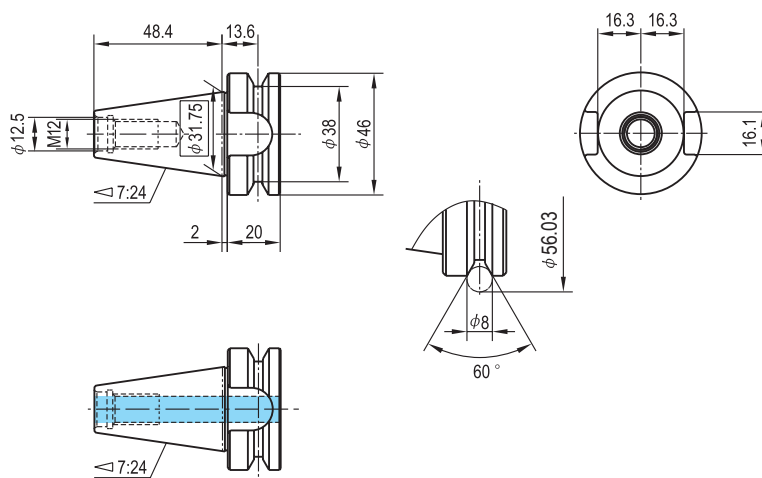
CT50 B



锥柄型式 (JIS B6339)

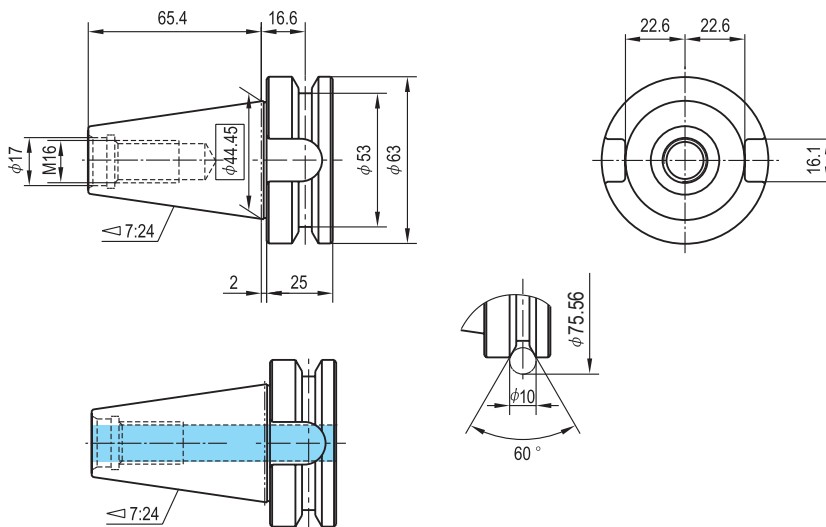


BT30 A/AD



BT40 A/AD

A 型

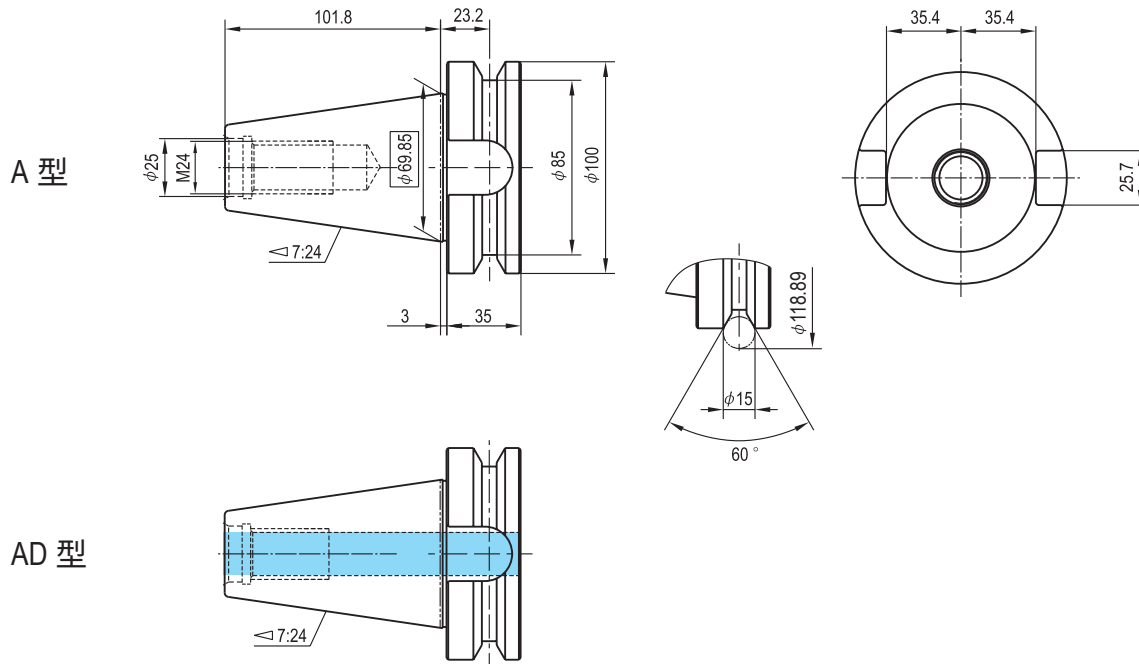


AD 型

锥柄型式 (JIS B6339)



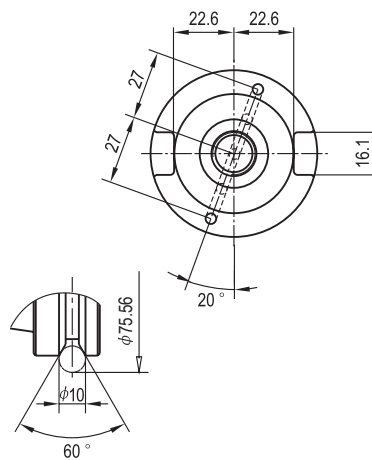
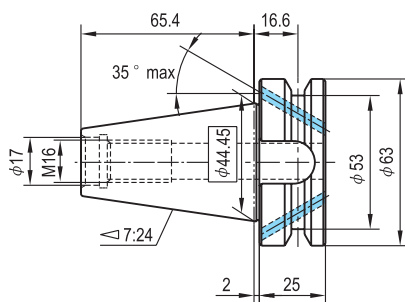
BT50 A/AD



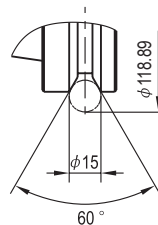
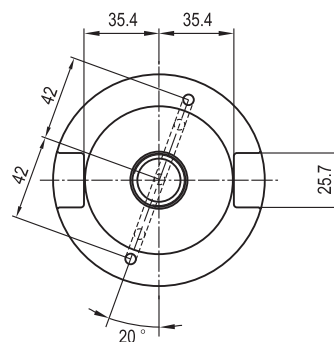
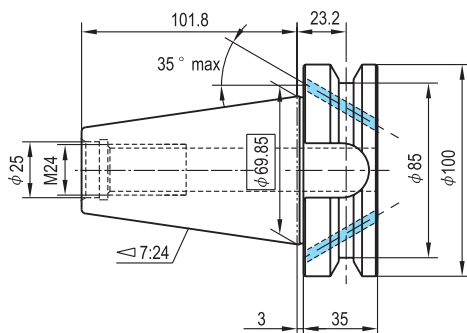
锥柄型式 (JIS B6339)



BT40 B



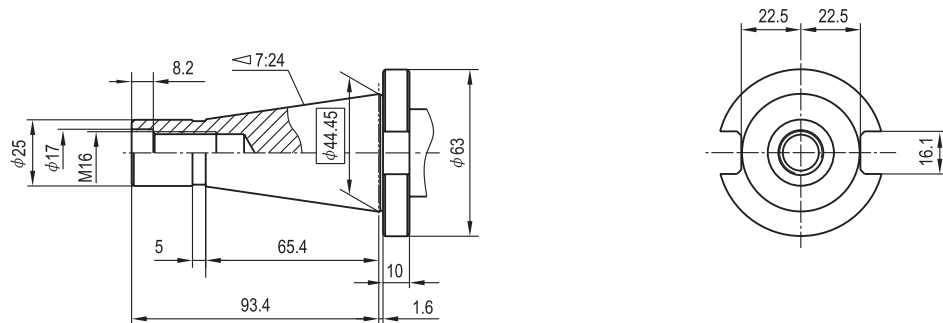
BT50 B



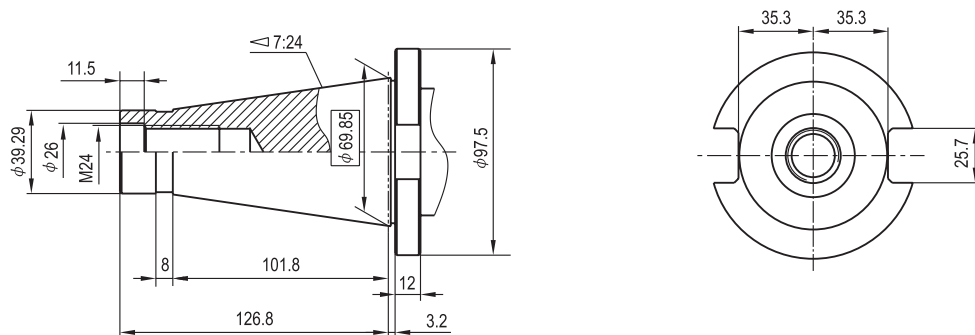
锥柄型式 (DIN 2080)



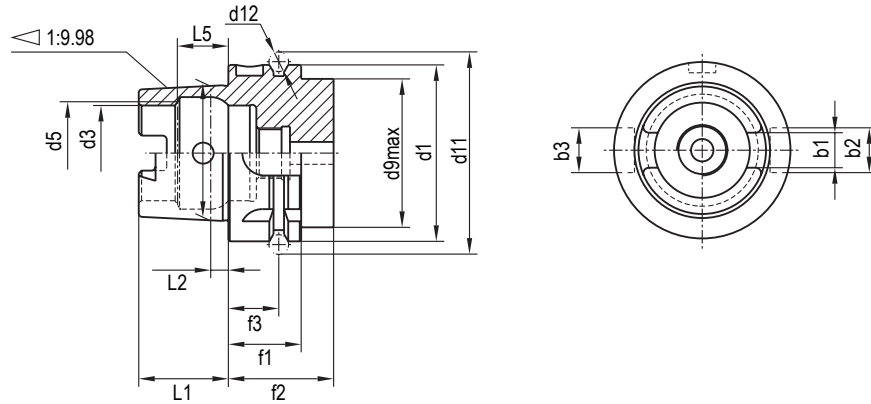
ST40



ST50

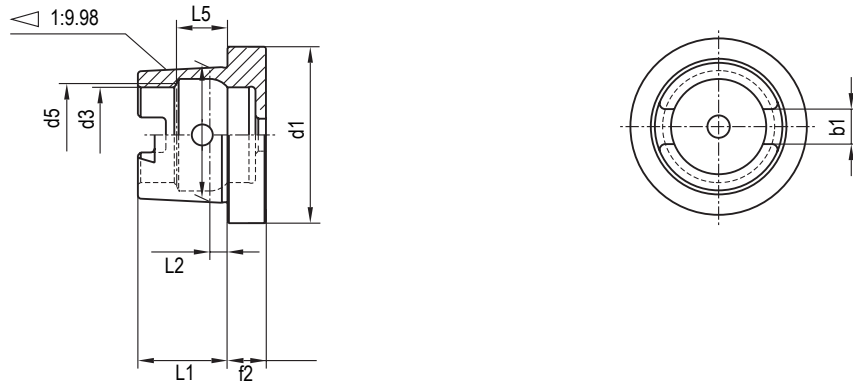


HSK 短锥型式 A 型 (DIN 69893 Form A)



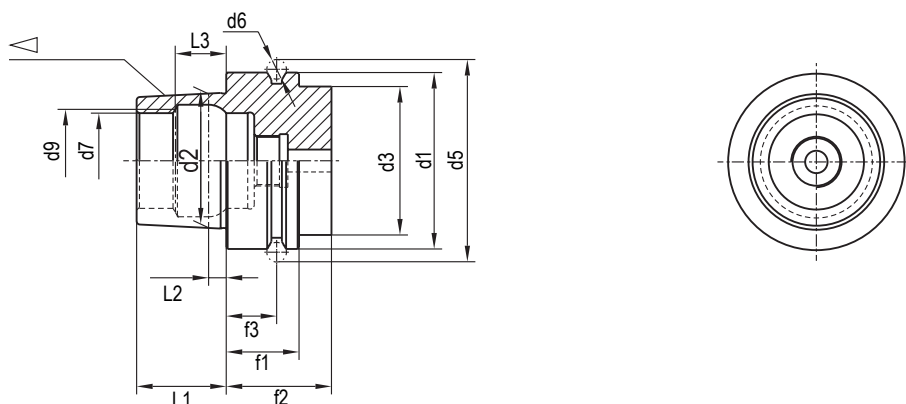
	尺寸 Size(mm)															
	b1	b2	b3	d1	d2	d3	d5	d9	d11	d12	f1	f2	f3	L1	L2	L5
HSK-A32	7.05	7	9	32	24.007	17	19	26	37	4	20	35	16	16	3.2	8.92
HSK-A40	8.05	9	11	40	30.007	21	23	34	45	4	20	35	16	20	4	11.42
HSK-A50	10.54	12	14	50	38.009	26	29	42	59.3	7	26	42	18	25	5	14.13
HSK-A63	12.54	16	18	63	48.010	34	37	53	72.3	7	26	42	18	32	6.3	18.13
HSK-A100	20.02	20	22	100	75.013	53	58	88	109.75	7	29	45	20	50	10	28.56

HSK 短锥型式 C 型 (DIN 69893 Form C)



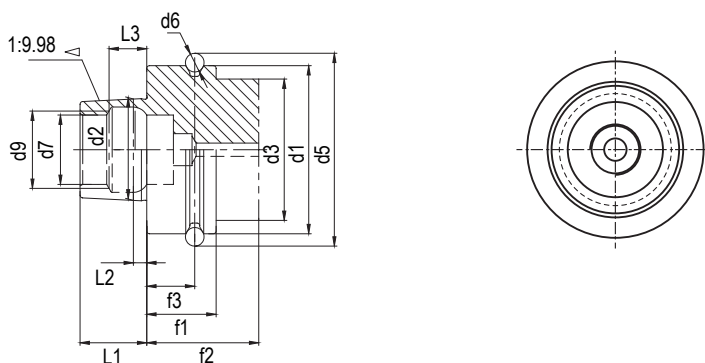
	尺寸 Size(mm)									
	b1	d1	d2	d3	d5	f2	L1	L2	L5	
HSK-C32	7.05	32	24.007	17	19	10	16	3.2	8.92	
HSK-C40	8.05	40	30.007	21	23	10	20	4	11.42	
HSK-C50	10.54	50	38.009	26	29	12.5	25	5	14.13	
HSK-C63	12.54	63	48.010	34	37	12.5	32	6.3	18.13	
HSK-C100	20.02	100	75.013	53	58	16	50	10	28.56	


HSK 短锥型式 E 型 (DIN 69893 Form E)



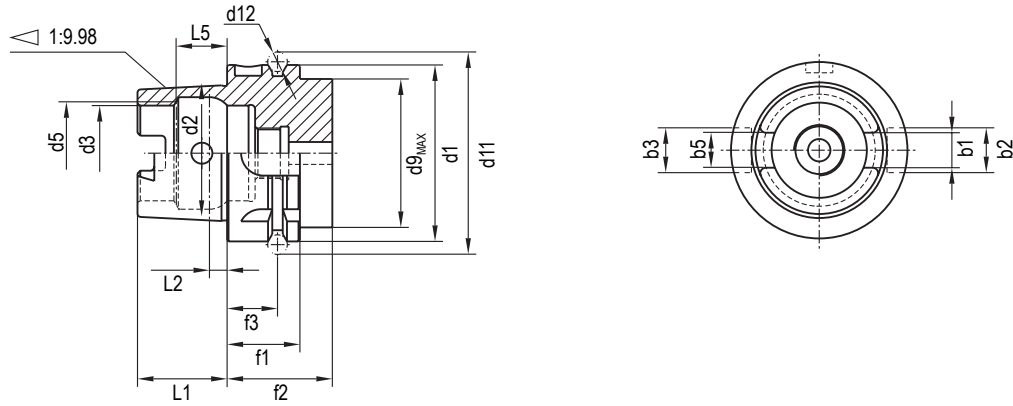
	尺寸 Size(mm)												
	d1	d2	d7	d9	d3	d5	d6	f1	f2	f3	L1	L2	L3
HSK-E32	32	24.007	17	19	26	37	4	20	35	16	16	3.2	8.92
HSK-E40	40	30.007	21	23	34	45	4	20	35	16	20	4	11.42
HSK-E50	50	38.009	26	29	42	59.3	7	26	42	18	25	5	14.13
HSK-E63	63	48.010	34	37	53	72.3	7	26	42	18	32	6.3	18.13

HSK 短锥型式 F 型 (DIN 69893 Form F)



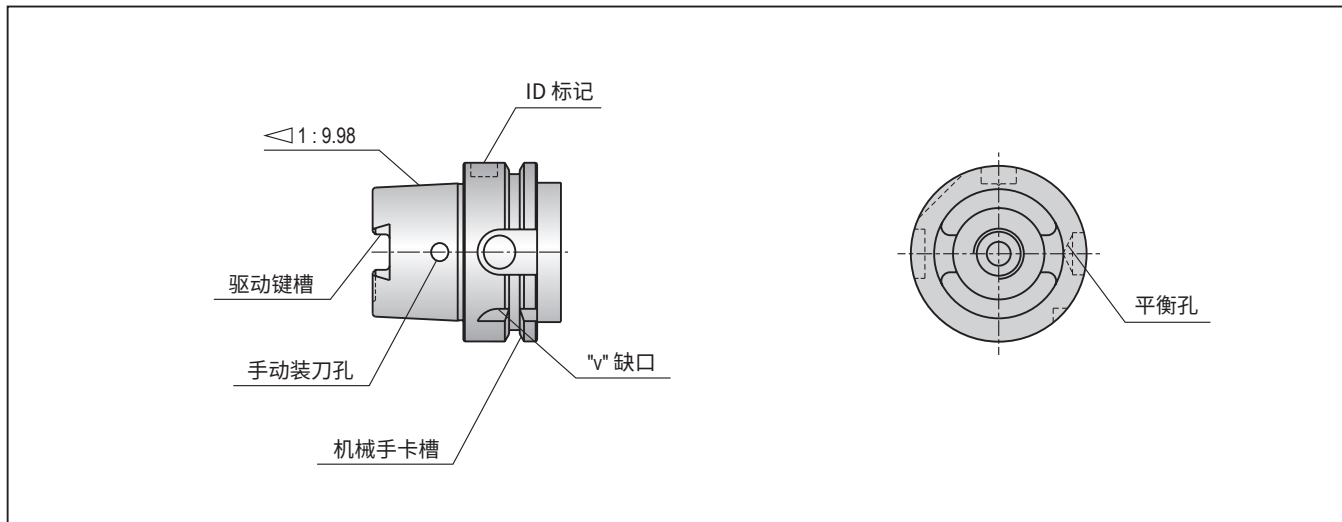
	尺寸 Size(mm)												
	d1	d2	d7	d9	d3	d5	d6	f1	f2	f3	L1	L2	L3
HSK-F50	50	30.007	21	23	42	59.3	7	26	42	18	20	4	11.42
HSK-F63	63	38.009	26	29	53	72.3	7	26	42	18	25	5	14.13
HSK-F80	80	48.010	34	37	68	88.8	7	26	42	18	32	6.3	18.13

HSK 短锥型式 T 型 (DIN 69893 Form T)

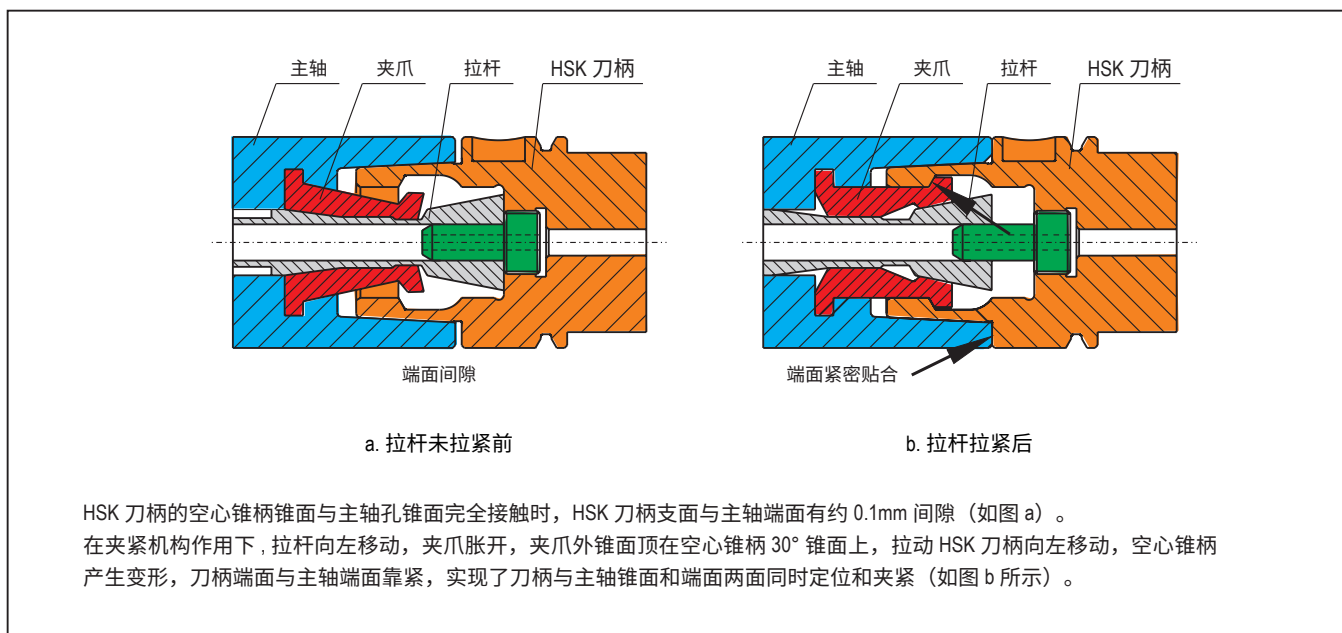


	尺寸 Size(mm)																
	b1	b5	b2	b3	d1	d2	d3	d5	d9	d11	d12	f1	f2	f3	L1	L2	L5
HSK-T32	7.05	6.932	7	9	32	24.007	17	19	31	37	4	20	23	16	16	3.2	8.92
HSK-T40	8.05	7.932	9	11	40	30.007	21	23	39	45	4	20	23	16	20	4	11.42
HSK-T50	10.54	10.425	12	14	50	38.009	26	29	49	59.3	7	26	30	18	25	5	14.13
HSK-T63	12.54	12.425	16	18	63	48.010	34	37	62	72.3	7	26	30	18	32	6.3	18.13
HSK-T100	20.02	19.91	20	22	100	75.013	53	58	99	109.75	7	29	34	20	50	10	28.56

HSK 短锥柄特征说明

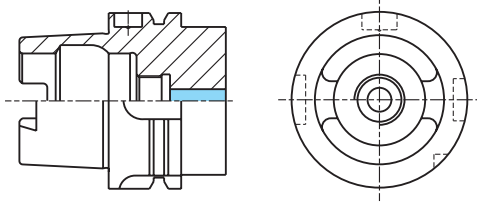


HSK 工具系统的工作原理



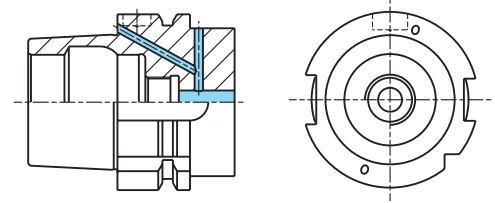
HSK 的各种特征及用途

DIN 69893 - HSK-A



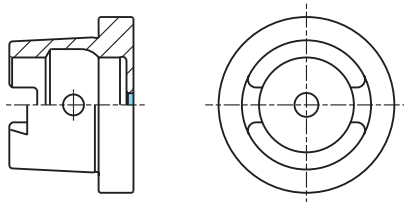
- 用途：加工中心
- 中心冷却孔
- V 槽用于 ATC 凹槽定位
- ID 凹槽孔

DIN 69893 - HSK-B



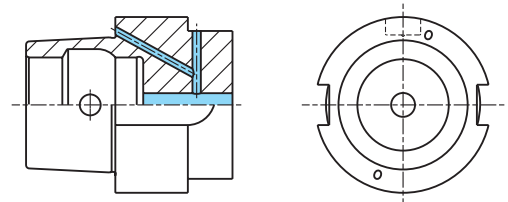
- 用途：加工中心，铣床，车床
- 大直径法兰盘
- 冷却孔穿过法兰盘
- 凹槽定位
- ID 凹槽孔

DIN 69893 - HSK-C



- 用途：线路传输及无 ATC 装置的机床
- 中心冷却孔
- 用法兰盘上驱动开关进行扭矩传输

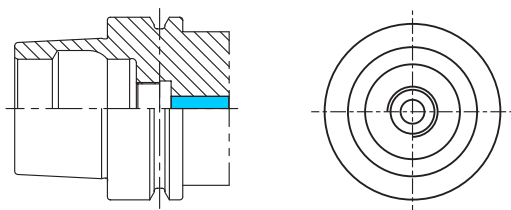
DIN 69893 - HSK-D



- 用途：线路传输及无 ATC 装置的机床
- 大直径法兰盘
- 冷却孔穿过法兰盘

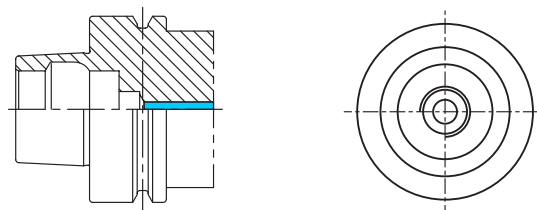
HSK 的各种特征及用途

DIN 69893 - HSK-E



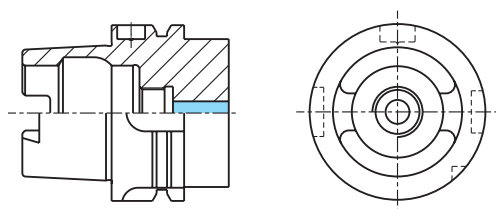
- 用途：高速加工中心，木工机械
- 完全对称型，不带驱动开关
- 摩擦扭矩传输
- 中心冷却孔

DIN 69893 - HSK-F



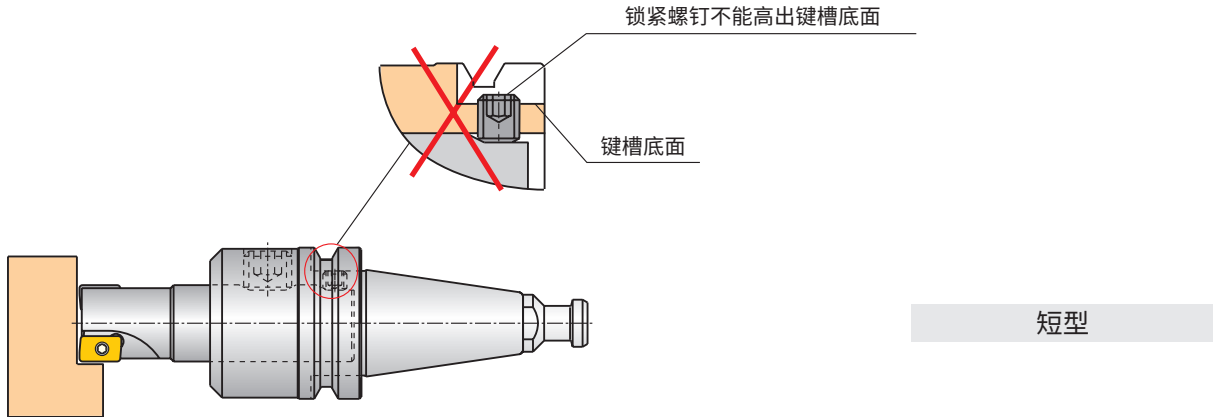
- 用途：高速加工中心
- 大直径法兰盘
- 中心冷却孔

ISO12164 - 3 - HSK - T



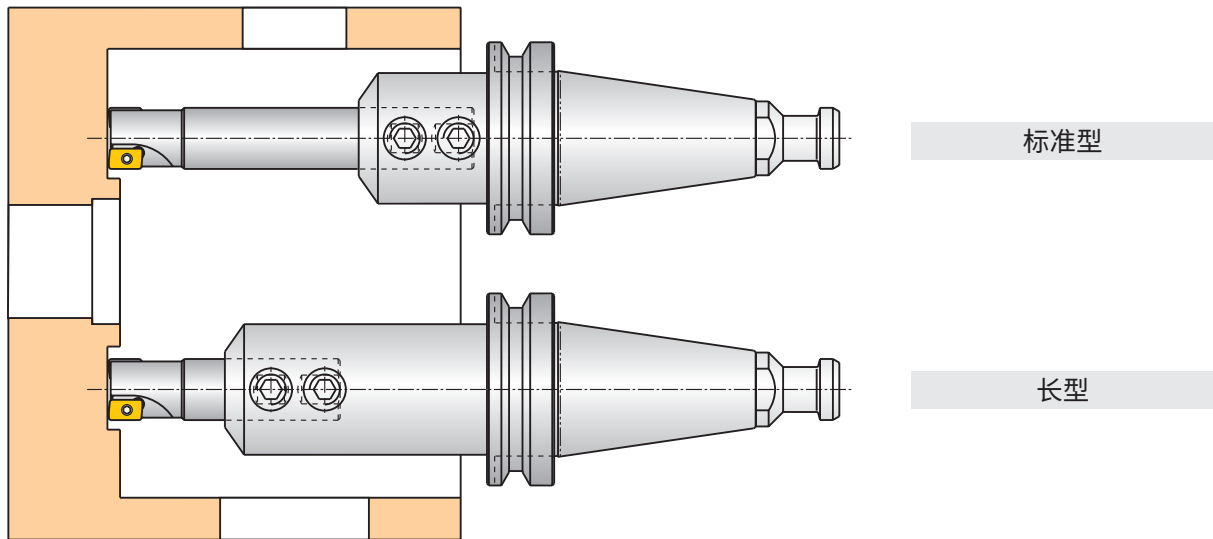
- 用途：加工中心及车铣复合机床
- 中心冷却孔
- 用法兰盘上驱动开关进行扭矩传输
- 精准的圆周定位，特别适用于静态刀具
- V 槽用于 ATC 凹槽定位
- ID 凹槽孔

侧固式刀柄



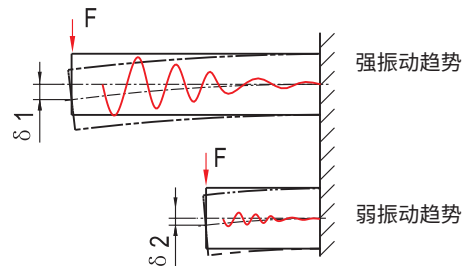
技术信息

- 注意压紧螺钉长度不能太长，压紧后螺钉不能高于刀柄键槽底面
- 刀柄越短，刚性越好
- 主要适用立式加工中心



技术信息

- 为保证刀具总长要求，使用长型刀柄可以减少刀杆悬伸长度从而提高系统刚性，适用于较深的型腔加工。
- 适用于卧式加工中心，延长刀具总长。



刀柄及刀具的长度选择

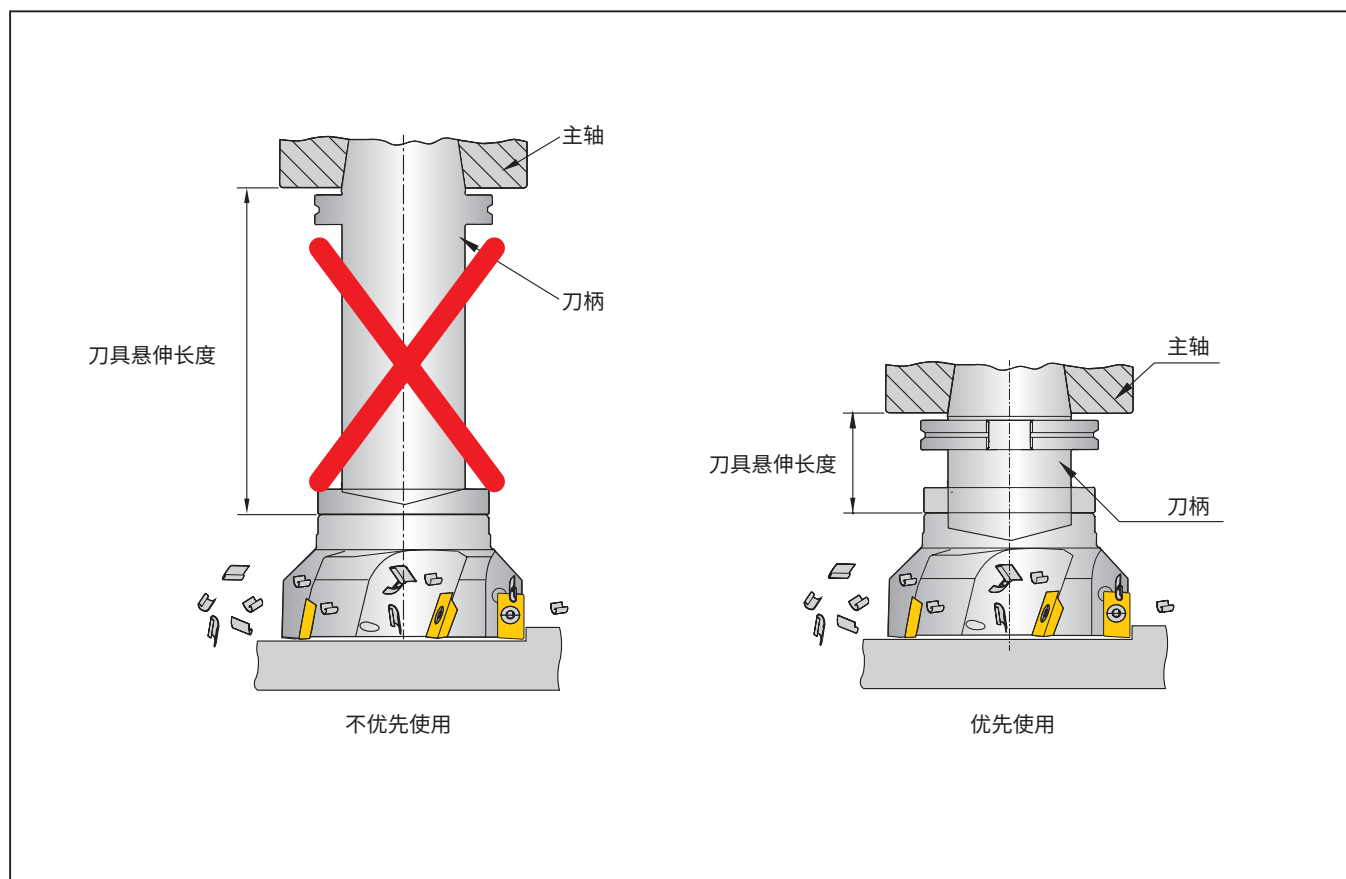
刀柄及刀具通常为了达到最好的使用刚性，选择短系列产品通常是最好的。

但是深型腔的加工往往需要长刀柄或刀具，在这时降低主轴转速，进给，切深可以减小切削过程中所产生的振动。

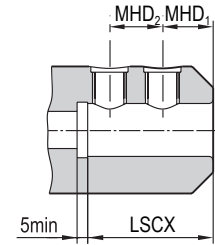
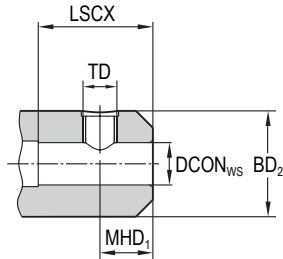
注意：优先使用短系列产品

刀柄存放

刀柄需存放在干燥的环境中，长期保存时，锥柄及工作部位需涂抹防锈油。



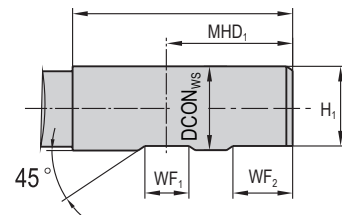
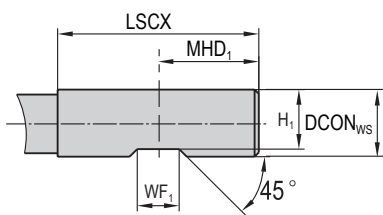
侧固式刀柄接口型式 (DIN1835-B)



尺寸 (mm)

DCON _{WS}	BD ₂	TD(6H)	MHD ₁ ($\begin{smallmatrix} 0 \\ -0.1 \\ 0 \end{smallmatrix}$)	MHD ₂ (± 0.5)	LSCX (± 1)	压紧整体硬质合金刀具推荐扭矩
6	25	M6	18.0	-	35	5Nm
8	28	M8	18.0	-	35	10Nm
10	35	M10	20.0	-	39	16Nm
12	42	M12	22.5	-	44	28Nm
14	44	M12	22.5	-	44	28Nm
16	48	M14	24.0	-	47	42Nm
18	50	M14	24.0	-	47	42Nm
20	50	M16	25.0	-	49	50Nm
25	60	M18×2	24.0	25	54	60Nm
32	68	M20×2	24.0	28	58	60Nm
40	84	M20×2	30.0	32	68	60Nm

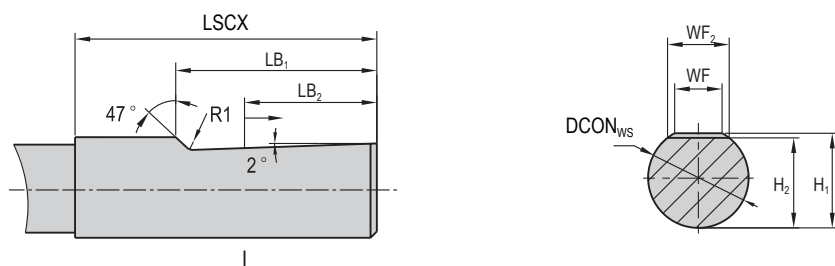
削平柄刀具型式 (DIN1835-B)



尺寸 (mm)

DCON _{WS} (h6)	LSCX ($\begin{smallmatrix} -0.2 \\ 0 \\ 0 \end{smallmatrix}$)	WF ₁ ($\begin{smallmatrix} -0.1 \\ 0 \\ 0 \end{smallmatrix}$)	WF ₂ ($\begin{smallmatrix} -0.1 \\ 0 \\ 0 \end{smallmatrix}$)	MHD ₁ ($\begin{smallmatrix} 0 \\ -0.1 \\ 0 \end{smallmatrix}$)	H ₁ (h13)
6	36	4.2	-	18.0	4.8
8	36	5.5	-	18.0	6.6
10	40	7.0	-	20.0	8.4
12	45	8.0	-	22.5	10.4
14	45	8.0	-	22.5	12.7
16	48	10.0	-	24.0	14.2
18	48	10.0	-	24.0	16.2
20	50	11.0	-	25.0	18.2
25	56	12.0	17	32.0	23.0
32	60	14.0	19	36.0	30.0
40	70	14.0	19	40.0	38.0

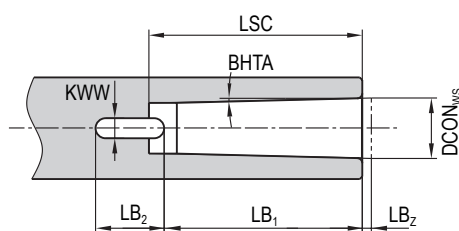
2° 侧固式刀具形式 (DIN 1835-E)



尺寸 (mm)

$DCON_{ws}$ (h6)	WF_1 ≈	WF_2	H_1	H_2 (h13)	LSCX ($\frac{0}{-1}$)	LB_1 ($\frac{0}{-1}$)	LB_2	R1 min
6	3.5	4.8	5.4	4.8	36	25	18	1.2
8	4.7	6.1	7.2	6.6	36	25	18	1.2
10	5.7	7.3	9.1	8.4	40	28	20	1.2
12	6.0	8.2	11.2	10.4	45	33	22.5	1.2
16	7.6	10.1	15.0	14.2	48	36	24	1.6
20	8.4	11.5	19.1	18.2	50	38	25	1.6
25	9.3	13.6	24.1	23.0	56	44	32	1.6
32	9.9	15.5	31.2	30.0	60	48	35	1.6
40	12.4	18.2	39.0	37.8	68	56	41	1.6

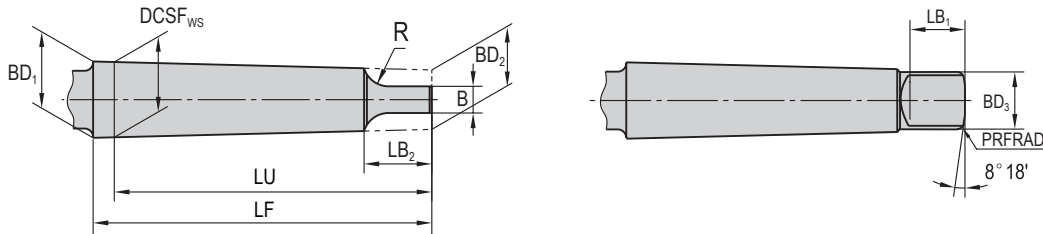
扁尾型莫氏锥柄连接尺寸 (DIN228-D)



尺寸 (mm)

锥度号	锥度	锥角 (BHTA)	$DCON_{ws}$	LSC(min)	LB_1	KWW	LB_2	LB_z	对应钻头直径 / 范围 (mm)	
MT0	1/19.212	0.05205	1°29'27"	9.045	52	49	3.9	15	1	-
MT1	1/20.047	0.04988	1°25'43"	12.065	56	52	5.2	19	1	3.00-14.00
MT2	1/20.020	0.04995	1°25'50"	17.780	67	62	6.3	22	1	14.00-23.00
MT3	1/19.922	0.05020	1°26'16"	23.825	84	78	7.8	27	1	23.00-32.00
MT4	1/19.254	0.05194	1°29'15"	31.267	107	98	11.9	32	1	32.00-50.00
MT5	1/19.002	0.05263	1°30'26"	44.399	135	125	15.9	38	1	50.00-75.00
MT6	1/19.180	0.05214	1°29'36"	63.348	188	177	19	47	1	75.00-100.00
MT7	1/19.231	0.05200	1°29'22"	83.058	258	241	28.8	69	1	-

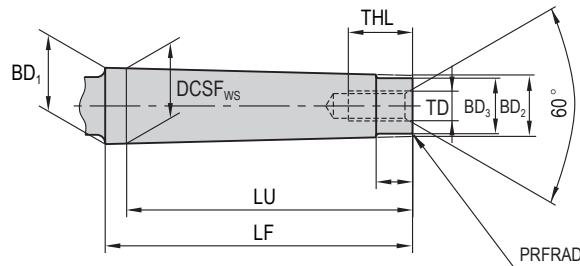
有扁尾莫氏锥柄 (DIN 228-B)



尺寸 (mm)

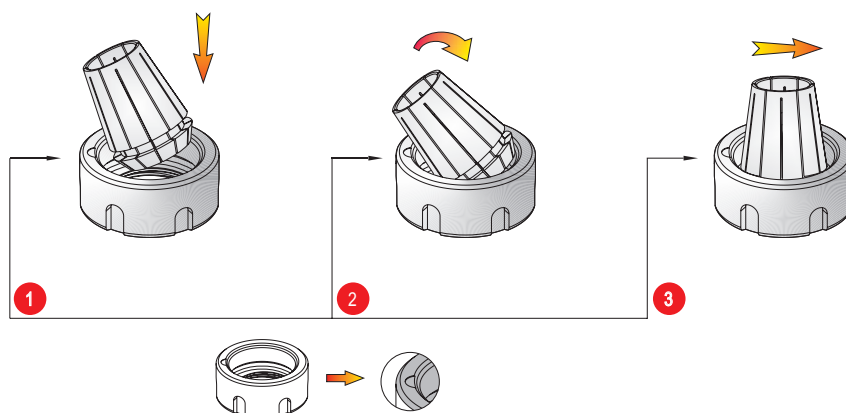
锥度号	DCSF _{ws}	BD ₁	BD ₂	BD ₃	LU	LF	B	LB ₁	BD ₂	R	PRFRAD	对应钻头直径 / 范围 (mm)
MT0	9.045	9.201	6.104	6	56.5	59.5	3.9	6.5	10.5	4	1	-
MT1	12.065	12.240	8.972	8.7	62.0	65.5	5.2	8.5	13.5	5	1.2	3.00-14.00
MT2	17.780	18.030	14.034	13.5	75.0	80.0	6.3	10.0	16.0	6	1.6	14.00-23.00
MT3	23.825	24.076	19.107	18.5	94.0	99.0	7.9	13.0	20.0	7	2	23.00-32.00
MT4	31.267	31.065	25.164	24.5	117.5	124.0	11.9	16.0	24.0	8	2.5	32.00-50.00
MT5	44.399	44.471	36.531	35.7	149.5	156.0	15.9	19.0	29.0	10	3	50.00-75.00
MT6	63.348	63.765	52.399	51.0	210.0	218.0	19.0	27.0	40.0	13	4	75.00-100.00
MT7	83.058	83.578	68.185	66.8	286.0	296.0	28.6	35.0	54.0	19	5	-

无扁尾莫氏锥柄 (DIN 228-A)



锥度号	DCSF _{ws}	BD ₁	BD ₂	BD ₃	LU	LF	LB ₁	PRFRAD	TD	THL	对应钻头直径 / 范围 (mm)
MT0	9.045	9.201	6.442	6	50	53	4	0.2	-	-	-
MT1	12.065	12.240	9.396	9	53.5	57	5	0.2	M6	16	6.00-12.00
MT2	17.780	18.030	14.583	14	64	69	5	0.2	M10	24	14.00-20.00
MT3	23.825	24.076	19.759	19	81	86	7	0.6	M12	28	22.00-36.00
MT4	31.267	31.605	25.943	25	102.5	109	9	1.0	M16	32	32.00-56.00
MT5	44.399	44.741	37.584	35.7	129.5	136	9	2.5	M20	40	40.00-63.00
MT6	63.348	63.765	53.859	51	182	190	12	4.0	M24	50	-
MT7	83.058	83.578	70.052	65	250	260	18.5	5.0	M33	60	-

ER 螺母、卡簧装配说明



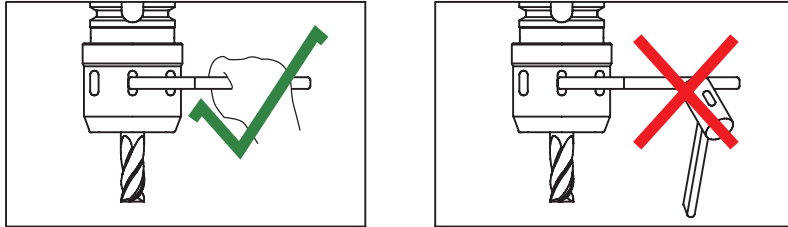
1. 确定 ER 螺母端面方向缺口。
2. 将卡簧沿方向缺口放入螺母（详见图①）。
3. 扳动卡簧，使卡簧完全放入螺母中（详见图②、图③），安装完成。

ER 卡簧传递扭矩：

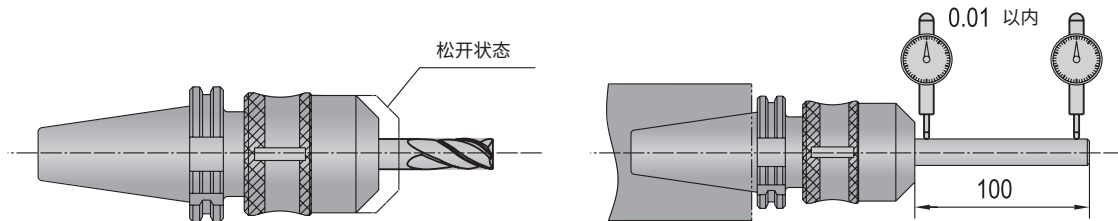
卡簧	螺母	夹持直径 (mm)		最大扭矩 (Nm)	
		夹持直径 (mm)	最大扭矩 (Nm)	夹持直径 (mm)	最大扭矩 (Nm)
ER11	CN11HS	1-2.5	13	3-7	25
	CNM11		11		18
	HN11		11		18
ER16	CN16HS	1-4.5	30	5-10	50
	CNM16		18		28
	HN16		30		50
ER20	CN20HS	1-6.5	45	7-13	75
	CNM20		22		35
	CN20C		45		75
	HN20		45		75
ER25	CN25B	1-6.5	55	7-16	85
	HN25		55		85
ER32	CN32B	2-6.5	70	7-20	105
	CN32C		70		105
ER40	CN40B	3-7.5	100	8-26	150
	CN40C		100		150

强力夹头刀柄的安装

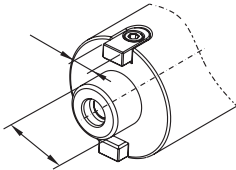
- 夹紧力最大，使用简单——夹紧安全可靠



- 精度高，寿命长——更有利于保护刀具，延长刀具寿命
- 刚性高——适于大切削量加工
- 优良的耐久性——压力分散于保持架的滚针上



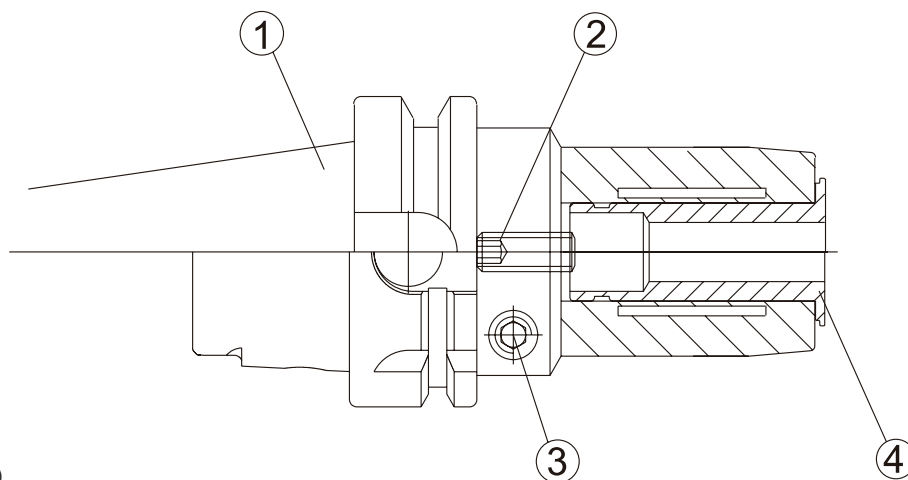
面铣刀刀柄键槽尺寸



公制 -Metric		英制 -Mm	
DCON _{WS} (mm)	KWW(mm)	DCON _{WS} (mm)	KWW(mm)
16	8	12.7	6.35
22	10	19.05	7.93
27	12	25.4	9.52
32	14	31.75	12.7
40	16	38.1	15.88
60	25.4	50.8	19.05
-	-	63.5	25.4

液压刀柄使用说明

结构说明

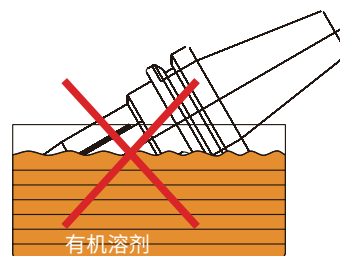


- 1. 刀柄主体
- 2. 止动螺钉
- 3. 施压螺钉
- 4. 液压卡簧（需另购）

使用说明及注意事项

1. 清洁:

液压刀柄夹头使用前，必须将刀柄内孔表面清洗干净，不得有残余的防锈油脂或其它的杂志附着于内孔表面。



2. 刀具柄径

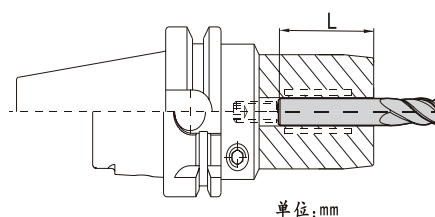
被夹持刀具柄径公差必须为 h6, 若低于此公差等级, 则夹紧力会有较大损失, 可能导致刀具在加工中出现意外。



3. 夹持

将被夹持的刀具插入夹持孔内, 注意当未使用卡簧变轻时, 应保证刀具夹持长度应与刀柄油腔完全接触, 即最小夹持深度必须得到保证: 各系列液压刀柄对应最小夹持长度见下表:

刀柄内腔尺寸 D	06	08	10	12	14	16	20	25	32
最小夹持长度 L	27	27	34	42	48	48	48	60	60



4. 夹紧

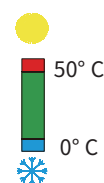
被夹持刀具柄径公差必须为 h6, 若低于此公差等级, 则夹紧力会有较大损失, 可能导致刀具在加工中出现意外。

5. 松刀

松开加压螺钉直到刀具松开。为了实现最佳的可靠性, 只松开加压螺钉到刀具松开即可, 避免加压螺钉脱落。如果加压螺钉不慎掉出, 请认真清洗后装回, 避免螺纹受损。

6. 试用温度

本液压刀柄的最佳使用温度为 0° C~50° C(液压刀柄夹头主体温度), 切勿在超出此温度范围使用。



维护及保养

1. 夹持力检验

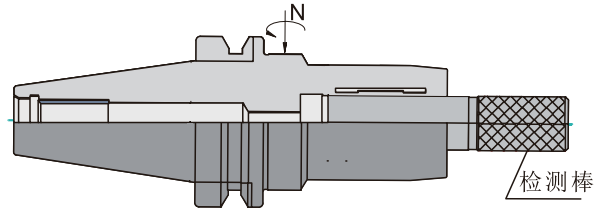
使用中，请定期检验液压刀柄的夹紧功能，检验时，将检测（需单独订购）夹持于孔内，直至顶端，再拧紧施压螺钉至刚好将检测棒夹持（可用手试拧检测棒，手不能旋转即为初始状态），此时，再将施压螺钉旋至底部，计算施压螺钉施压圈数，如果施压圈数满足 1.5 圈（HC06，HC08）或者大于（HC10 以上规格），则说明该刀柄具有夹紧功能，否则请将液压刀柄寄回我公司进行检测、维修。

2. 存储

液压刀柄在非正式工作状态或未装刀具时，请将施压螺钉旋至放松状态，将刀柄擦拭干净并涂上防锈剂后存放。

3. 其它

- 请勿随意拆解密封胶部位，否则可能导致产品失压无法使用，
- 若施压螺钉出现磨损出现磨损或脱落请及时更换。



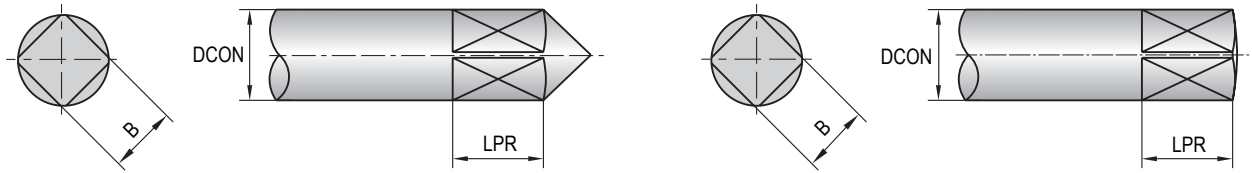
警告： 未装刀具或测试棒，安装刀具或测试棒小于最小夹持长度，安装的刀具形式不正确等拧紧加压螺钉，将对刀柄产生永久损坏。

根据螺纹尺寸推荐的钻头直径

螺纹直径	钻头直径 mm	螺距 mm	螺纹直径	钻头直径 mm	螺距 TPI *	螺纹直径	钻头直径 mm	螺距 TPI *
M 公制粗牙螺纹			UNF 美制统一细牙螺纹			Rc 英制圆锥管螺纹		
M4	3.30	0.7	UNF NO.6	2.90	40	Rc 1/8"	8.40	28
M4.5	3.70	0.75	UNF NO.8	3.50	36	Rc 1/4"	11.20	19
M5	4.20	0.8	UNF NO.10	4.10	32	Rc 3/8"	14.75	19
M6	5.00	1	UNF NO.12	4.65	28	Rc 1/2"	18.25	14
M7	6.00	1	UNF 1/4"	5.50	28	Rc 3/4"	23.75	14
M8	6.80	1.25	UNF 5/16"	6.90	24	Rc 1"	30.00	11
M9	7.80	1.25	UNF 3/8"	8.50	24	G 英制圆柱管螺纹		
M10	8.50	1.5	UNF 7/16"	9.90	20	G 1/8"	8.80	28
M11	9.50	1.5	UNF 1/2"	11.50	20	G 1/4"	11.80	19
M12	10.20	1.75	UNF 9/16"	12.90	18	G 3/8"	15.25	19
M14	12.00	2	UNF 5/8"	14.50	18	G 1/2"	19.00	14
M16	14.00	2	UNF 3/4"	17.50	16	G 5/8"	21.00	14
M18	15.50	2.5	UNF 7/8"	20.50	14	G 3/4"	24.50	14
M20	17.50	2.5	UNF 1"	23.25	12	G 7/8"	28.25	14
M22	19.50	2.5	UNF 1 1/8"	26.50	12	G 1"	30.75	11
M24	21.00	3	UNF 1 1/4"	29.75	12	G 1 1/4"	39.50	11
M27	24.00	3	UNF 1 3/8"	32.80	12	G 1 1/2"	45.50	11
M30	26.50	3.5	UNF 1 1/2"	36.00	12	G 1 3/4"	51.40	11
M33	29.50	3.5				G 2"	57.20	11
M36	32.00	4	UNC 美制统一粗牙螺纹			NPT 60° 全牙型锥管螺纹		
M39	35.00	4	UNC NO.6	2.80	32	NPT 1/16"	6.10	27
M42	37.50	4.5	UNC NO.8	3.40	32	NPT 1/8"	8.50	27
M45	40.50	4.5	UNC NO.10	3.90	24	NPT 1/4"	11.00	18
M48	43.00	5	UNC NO.12	4.50	24	NPT 3/8"	14.30	18
M52	47.00	5	UNC 1/4"	5.10	20	NPT 1/2"	17.80	14
			UNC 5/16"	6.60	18	NPT 3/4"	23.00	14
M 公制挤压螺纹			UNC 3/8"	8.00	16	NPT 1"	29.00	11 1/2
M4	3.70	0.7	UNC 7/16"	9.40	14	NPT 1 1/4"	37.50	11 1/2
M5	4.63	0.8	UNC 1/2"	10.75	13	NPT 1 1/2"	43.70	11 1/2
M6	5.50	1	UNC 9/16"	12.25	12	NPT 2"	55.60	11 1/2
M7	6.51	1	UNC 5/8"	13.50	11	NPTF 60° 全牙型锥管螺纹		
M8	7.40	1.25	UNC 3/4"	16.50	10	NPTF 1/16"	6.00	27
M10	9.25	1.5	UNC 7/8"	19.50	9	NPTF 1/8"	8.40	27
M12	11.12	1.75	UNC 1"	22.25	8	NPTF 1/4"	10.90	18
M14	13.00	2	UNC 1 1/8"	25.00	7	NPTF 3/8"	14.25	18
M16	15.00	2	UNC 1 1/4"	28.25	7	NPTF 1/2"	17.75	14
			UNC 1 3/8"	30.80	6	NPTF 3/4"	23.00	14
M 公制细牙螺纹			UNC 1 1/2"	34.00	6	NPTF 1"	29.00	11 1/2
钻头直径 = 丝锥直径 - 螺距			UNC 1 3/4"	39.50	5	NPTF 1 1/4"	37.75	11 1/2
			UNC 2"	45.25	4 1/2	NPTF 1 1/2"	43.75	11 1/2
						NPTF 2"	55.75	11 1/2

* TPI= 每英寸螺纹牙数

丝锥柄部方头尺寸



ISO					JIS				DIN				
柄部尺寸			丝锥型号		柄部尺寸			丝锥型号	柄部尺寸			丝锥型号	
d	a	l	ISO529 ⁽¹⁾	ISO529 ⁽²⁾ ISO2283	DCON	B	LPR	JISB4430 ⁽³⁾	DCON	B	LPR	DIN371 ⁽⁴⁾	DIN374 ⁽⁵⁾ DIN376
2.24	1.80	4		M3.0	3.00	2.50	5	M1.0-M2.6	2.50	2.10	5	M1-M1.8	M3.5
2.50	2.00	4	M1-M2	M3.5	4.00	3.20	6	M3.0-M3.5	2.80	2.10	5	M2-M2.5	M4.0
2.80	2.24	5	M2.2-M2.6		5.00	4.00	7	M4.0-M4.5	3.50	2.70	6	M3	M4.5-M5
3.15	2.50	5	M3.0	M4.0	5.50	4.50	7	M5.0	4.00	3.00	6	M3.5	
3.55	2.80	5	M3.5	M4.5	6.00	4.50	7	M6.0	4.50	3.40	6	M4.0	M6.0
4.00	3.15	6	M4.0	M5.0	6.20	5.00	8	M7.0-M8.0	6.00	4.90	8	M4.5-M6	M8.0
4.50	3.55	6	M4.5	M6.0	7.00	5.50	8	M9.0-M10	7.00	5.50	8	M7.0	M10
5.00	4.00	7	M5.0		8.00	6.00	9	M11	8.00	6.20	9	M8.0	
5.60	4.50	7		M7.0	8.50	6.50	9	M12	9.00	7.00	10		M12
6.30	5.00	8	M6.0	M8.0	9.50	7.00	10	M10-M11	10.00	8.00	11	M10.0	
7.10	5.60	8	M7.0	M9.0	10.5	8.00	11	M14	11.00	9.00	12		M14
8.00	6.30	9	M8.0	M10-M11	12.50	10.00	13	M16	12.00	9.00	12		M16
9.00	7.10	10	M9.0	M12	14.00	11.00	14	M18	14.00	11.00	14		M18
10.00	8.00	11	M10		15.00	12.00	15	M20	16.00	12.00	15		M20
11.20	9.00	12		M13-M15	17.00	13.00	16	M22	18.00	14.50	17		M22-M26
12.50	10.00	13		M16-M17	19.00	15.00	18	M24	20.00	16.00	19		M27
14.00	11.20	14		M18-M21	20.00	15.00	18	M27	22.00	18.00	21		M29-M32
16.00	12.50	16		M22-M23	23.00	17.00	20	M30	25.00	20.00	23		M33
18.00	14.00	18		M24-M26	25.00	19.00	22	M33	28.00	22.00	25		M34-M38
20.00	16.00	20		M27-M30	28.00	21.00	24	M36	32.00	24.00	27		M39-M42
22.40	18.00	22		M31-M33	30.00	23.00	26	M39	36.00	29.00	32		M44-M50
25.00	20.00	24		M36	32.00	26.00	30	M42	40.00	32.00	35		M52
28.00	22.40	26		M37-M42					45.00	35.00	38		M55-M60
31.50	25.00	28		M44-M50									
35.50	28.00	31		M52-M56									
40.00	31.50	34		M58-M65									
45.00	35.50	38		M66-M75									

注：(1)(4)为粗柄普通粗牙螺纹丝锥

(2)(5)为细柄普通粗牙螺纹丝锥

(3)为等径普通粗牙螺纹丝锥

国际单位换算表

● 压力

Pa	KPa	MPa	bar	Kgf/cm ²	atm	MmH ₂ O	mmHg(Torr)
1	1×10 ⁻³	1×10 ⁻⁶	1×10 ⁻⁵	1.01972×10 ⁻⁵	9.86923×10 ⁻⁶	1.01972×10 ¹	7.50062×10 ⁻³
1×10 ³	1	1×10 ⁻³	1×10 ⁻²	1.01972×10 ⁻²	9.86923×10 ⁻³	1.01972×10 ²	7.50062
1×10 ⁶	1×10 ³	1	1×10	1.01972×10	9.86923	1.01972×10 ⁵	7.50062×10 ³
1×10 ⁵	1×10 ²	1×10 ⁻¹	1	1.01972	9.86923×10 ⁻¹	1.01972×10 ⁴	7.50062×10 ²
9.80665×10 ⁴	9.80665×10	9.80665×10 ⁻²	9.80665×10 ⁻¹	1	9.67841×10 ⁻¹	1×10 ⁴	7.35559×10 ²
1.01325×10 ⁵	1.01325×10 ²	1.01325×10 ⁻¹	1.01325	1.03323	1	1.03323×10 ⁴	7.60000×10 ²
9.80665	9.80665×10 ⁻³	9.80665×10 ⁻⁶	9.80665×10 ⁻⁵	1×10 ⁻⁴	9.67841×10 ⁻⁵	1	7.35559×10 ⁻²
1.33322×10 ²	1.33322×10 ⁻¹	1.33322×10 ⁻⁴	1.33322×10 ⁻³	1.35951×10 ⁻³	1.31579×10 ⁻³	1.35951×10	1

注: 1Pa=1 N/mm²

● 力

N	dyn	Kgf
1	1×10 ⁵	1.01972×10 ⁻¹
1×10 ⁻⁵	1	1.01972×10 ⁻⁶
9.80665	9.80665×10 ⁵	1

● 应力

Pa	MPa(N/mm ²)	Kgf/mm ²	Kgf/cm ²
1	1×10 ⁻⁶	1.01972×10 ⁻⁷	1.01972×10 ⁻⁵
1×10 ⁶	1	1.01972×10 ⁻¹	1.01972×10
9.80665×10 ⁶	9.80665	1	1×10 ²
9.80665×10 ⁴	9.80665×10 ⁻²	1×10 ⁻²	1

注: 1Pa=1N/mm²

● 功效、能量、热量

J	Kw · h	Kgf · m	Kcal
1	2.77778×10 ⁻⁷	1.01972×10 ⁻¹	2.38889×10 ⁻⁴
3.600×10 ⁶	1	3.67098×10 ⁵	8.6000×10 ²
9.80665	2.72407×10 ⁻⁶	1	2.34270×10 ⁻³
4.18605×10 ³	1.16279×10 ⁻³	4.26858×10 ²	1

注: 1J=1W · s Kgf · m 1J=1N · m 1cal=4.18605J

● 能量 (功率、动力)、热流

W	Kgf · m/S	PS	Kcal/h
1	1×10 ⁻⁶	1.01972×10 ⁻⁷	1.01972×10 ⁻⁵
1×106	1	1.01972×10 ⁻¹	1.01972×10
9.80665×106	9.80665	1	1×10 ²
9.80665×10 ⁴	9.80665×10 ⁻²	1×10 ⁻²	1

注: 1W=1J/s 1Ps=0.7355KW(Ps: 马力) 1cal=4.18605J



**INNOVATING BEYOND
PIONEERING AHEAD**