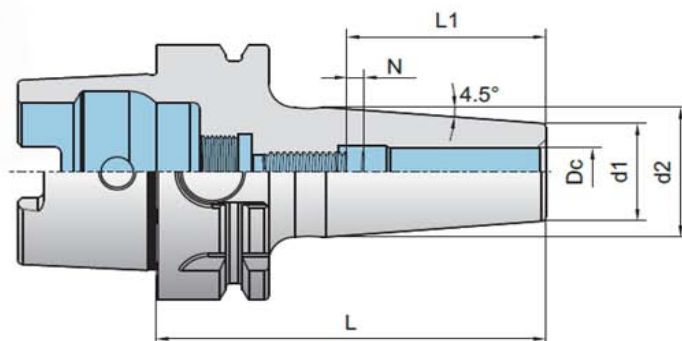




Tool Holder Series

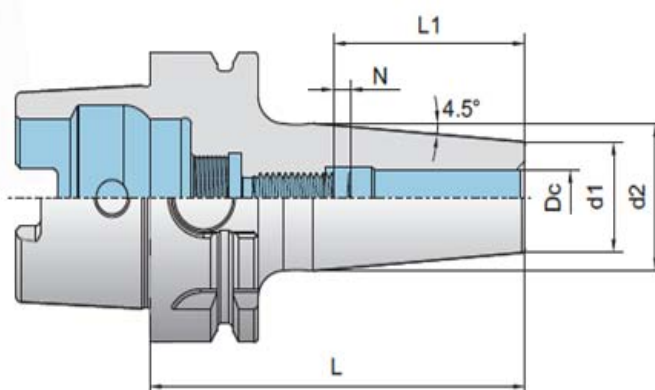


Shrink Fit Holders-Standard -HSK63A



Type	Taper type	Dimension						Axial adjustment screw 	(kg)
		Dc	d1	d2	L	L1	N		
HSK63A-TE04-80	HSK63A	4	15	20	80	20	-	-	
HSK63A-TE06-80	HSK63A	6	21	27	80	36	10	SGC050150	
-120	HSK63A	6	21	27	120	36	10	SGC050150	
-160	HSK63A	6	21	27	160	36	10	SGC050150	
HSK63A-TE08-80	HSK63A	8	21	27	80	36	10	SGC060150	
-120	HSK63A	8	21	27	120	36	10	SGC060150	
-160	HSK63A	8	21	27	160	36	10	SGC060150	
HSK63A-TE10-85	HSK63A	10	24	32	85	40	10	SGC080150	
-120	HSK63A	10	24	32	120	40	10	SGC080150	
-160	HSK63A	10	24	32	160	40	10	SGC080150	
HSK63A-TE12-90	HSK63A	12	24	32	90	45	10	SGC100150	
-120	HSK63A	12	24	32	120	45	10	SGC100150	
-160	HSK63A	12	24	32	160	45	10	SGC100150	
HSK63A-TE16-95	HSK63A	16	27	34	95	48	10	SGC120200	
-120	HSK63A	16	27	34	120	48	10	SGC120200	
-160	HSK63A	16	27	34	160	48	10	SGC120200	
HSK63A-TE20-100	HSK63A	20	33	42	100	50	10	SGC160200	
-120	HSK63A	20	33	42	120	50	10	SGC160200	
-160	HSK63A	20	33	42	160	50	10	SGC160200	
HSK63A-TE25-115	HSK63A	25	44	53	115	56	10	SGD220250	
-160	HSK63A	25	44	53	160	56	10	SGD220250	
HSK63A-TE32-120	HSK63A	32	44	53	120	60	10	SGD280250	
-160	HSK63A	32	44	53	160	60	10	SGD280250	

Shrink Fit Holders-Standard -HSK100A



Type	Taper type	Dimension						Axial adjustment screw 	(kg)
		Dc	d1	d2	L	L1	N		
HSK100A-TE06-85	HSK100A	6	21	27	85	36	10	SGC050150	
-120	HSK100A	6	21	27	120	36	10	SGC050150	
-160	HSK100A	6	21	27	160	36	10	SGC050150	
HSK100A-TE08-85	HSK100A	8	21	27	85	36	10	SGC060150	
-120	HSK100A	8	21	27	120	36	10	SGC060150	
-160	HSK100A	8	21	27	160	36	10	SGC060150	
HSK100A-TE10-90	HSK100A	10	24	32	90	40	10	SGC080150	
-120	HSK100A	10	24	32	120	40	10	SGC080150	
-160	HSK100A	10	24	32	160	40	10	SGC080150	
HSK100A-TE12-95	HSK100A	12	24	32	95	45	10	SGC100150	
-120	HSK100A	12	24	32	120	45	10	SGC100150	
-160	HSK100A	12	24	32	160	45	10	SGC100150	
HSK100A-TE16-100	HSK100A	16	27	34	100	48	10	SGC120200	
-160	HSK100A	16	27	34	160	48	10	SGC120200	
HSK100A-TE20-105	HSK100A	20	33	42	105	50	10	SGC160200	
-160	HSK100A	20	33	42	160	50	10	SGC160200	
HSK100A-TE25-115	HSK100A	25	44	53	115	56	10	SGD220250	
-160	HSK100A	25	44	53	160	56	10	SGD220250	
HSK100A-TE32-120	HSK100A	32	44	53	120	60	10	SGD280250	
-160	HSK100A	32	44	53	160	60	10	SGD280250	

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

End Mill

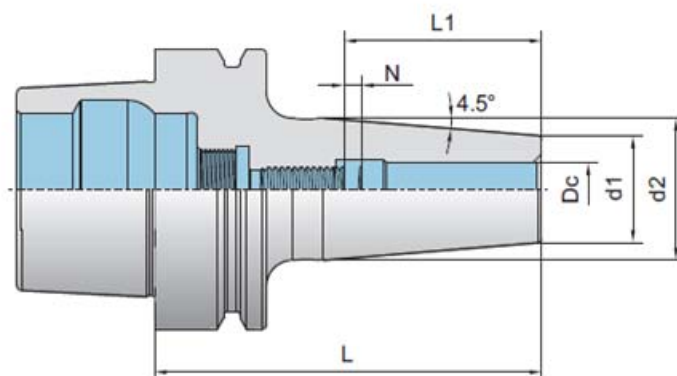
Drill & Tap

Drilling & Boring

Tool Holder

Shrink Fit Holders-Standard

-HSK32E/HSK40E/HSK50E

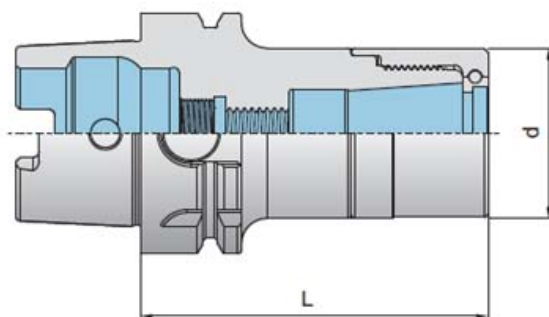


Type	Taper type	Dimension						Axial adjustment screw 	(kg)
		Dc	d1	d2	L	L1	N		
HSK32E-TE03-60	HSK32E	3	15	20	60	20	-	-	
HSK32E-TE04-60	HSK32E	4	15	20	60	20	-	-	
HSK32E-TE06-70	HSK32E	6	21	26	70	36	10	SGC050150	
HSK32E-TE08-70	HSK32E	8	21	26	70	36	10	SGC060150	
HSK32E-TE10-80	HSK32E	10	24	32	80	40	10	SGC080150	
HSK40E-TE04-60	HSK40E	4	15	20	60	20	-	-	
HSK40E-TE06-60	HSK40E	6	21	27	60	36	10	SGC050150	
-80	HSK40E	6	21	27	80	36	10	SGC050150	
HSK40E-TE08-60	HSK40E	8	21	27	60	36	10	SGC060150	
-80	HSK40E	8	21	27	80	36	10	SGC060150	
HSK40E-TE10-60	HSK40E	10	24	32	60	40	10	SGC080150	
-90	HSK40E	10	24	32	90	40	10	SGC080150	
HSK40E-TE12-60	HSK40E	12	24	32	60	45	10	SGC100150	
-90	HSK40E	12	24	32	90	45	10	SGC100150	
HSK50E-TE04-60	HSK50E	4	15	20	60	20	-	-	
HSK50E-TE06-80	HSK50E	6	21	27	80	36	10	SGC050150	
HSK50E-TE08-80	HSK50E	8	21	27	80	36	10	SGC060150	
HSK50E-TE10-85	HSK50E	10	24	32	85	40	10	SGC080150	
HSK50E-TE12-90	HSK50E	12	24	32	90	45	10	SGC100150	
HSK50E-TE16-95	HSK50E	16	27	34	95	48	10	SGC120200	

GSK Collet Chucks -HSK32A/40A

DIN
69893

Form
A

G2.5
25000rpm


Type	Taper type	Dimension		Nut	Wrench	SKcollet	Colletpuller	(kg)
		d	L					
HSK32A-GSK06-60	HSK32A	20	60	LN-GSK06	WGSK06	SK06	CGSK06	
-90	HSK32A	20	90	LN-GSK06	WGSK06	SK06	CGSK06	
HSK32A-GSK10-60	HSK32A	27.6	60	LN-GSK10	WGSK10	SK10	CGSK10	
-90	HSK32A	27.6	90	LN-GSK10	WGSK10	SK10	CGSK10	
HSK40A-GSK06-60	HSK40A	20	60	LN-GSK06	WGSK06	SK06	CGSK06	
-90	HSK40A	20	90	LN-GSK06	WGSK06	SK06	CGSK06	
HSK40A-GSK10-60	HSK40A	27.6	60	LN-GSK10	WGSK10	SK10	CGSK10	
-90	HSK40A	27.6	90	LN-GSK10	WGSK10	SK10	CGSK10	
HSK40A-GSK16-70	HSK40A	40	70	LN-GSK16	WGSK16	SK16	CGSK16	
-90	HSK40A	40	90	LN-GSK16	WGSK16	SK16	CGSK16	

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving &
Parting

Milling

Threading

End Mill

Drill & Tap

Drilling & Boring

Tool Holder

GSK Collet Chucks -HSK63A/100A

DIN
69893

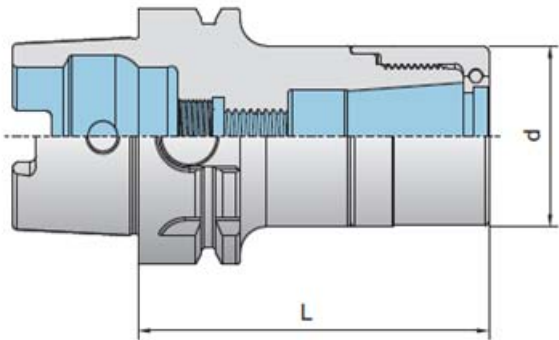
Form
A

G2.5
2500rpm

 0.003

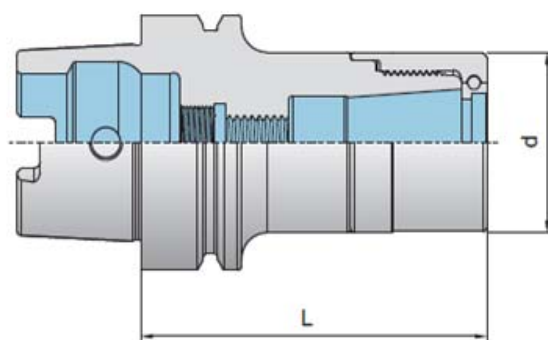
 Center Cool

 N
- +



Type	Taper type	Dimension		Nut	Wrench	SKcollet	Colletpuller	(kg)
		d	L					
HSK63A-GSK06-60	HSK63A	20	60	LN-GSK06	WGSK06	SK06	CGSK06	
-90	HSK63A	20	90	LN-GSK06	WGSK06	SK06	CGSK06	
-120	HSK63A	20	120	LN-GSK06	WGSK06	SK06	CGSK06	
HSK63A-GSK10-60	HSK63A	27.6	60	LN-GSK10	WGSK10	SK10	CGSK10	
-90	HSK63A	27.6	90	LN-GSK10	WGSK10	SK10	CGSK10	
-120	HSK63A	27.6	120	LN-GSK10	WGSK10	SK10	CGSK10	
HSK63A-GSK16-90	HSK63A	40.5	90	LN-GSK16	WGSK16	SK16	CGSK16	
-120	HSK63A	40.5	120	LN-GSK16	WGSK16	SK16	CGSK16	
HSK100A-GSK16-90	HSK100A	40.5	90	LN-GSK16	WGSK16	SK16	CGSK16	
-120	HSK100A	40.5	120	LN-GSK16	WGSK16	SK16	CGSK16	

GSK Collet Chucks -HSK32E/40E



Type	Taper type	Dimension		Nut	Wrench	SKcollet	Colletpuller	(kg)
		d	L					
HSK32E-GSK06-60	HSK32E	20	60	LN-GSK06	WGSK06	SK06	CGSK06	
-90	HSK32E	20	90	LN-GSK06	WGSK06	SK06	CGSK06	
HSK32E-GSK10-60	HSK32E	27.6	60	LN-GSK10	WGSK10	SK10	CGSK10	
-90	HSK32E	27.6	90	LN-GSK10	WGSK10	SK10	CGSK10	
HSK40E-GSK06-60	HSK40E	20	60	LN-GSK06	WGSK06	SK06	CGSK06	
-90	HSK40E	20	90	LN-GSK06	WGSK06	SK06	CGSK06	
HSK40E-GSK10-60	HSK40E	27.6	60	LN-GSK10	WGSK10	SK10	CGSK10	
-90	HSK40E	27.6	90	LN-GSK10	WGSK10	SK10	CGSK10	
HSK40E-GSK16-70	HSK40E	40.5	70	LN-GSK16	WGSK16	SK16	CGSK16	
-90	HSK40E	40.5	90	LN-GSK16	WGSK16	SK16	CGSK16	

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

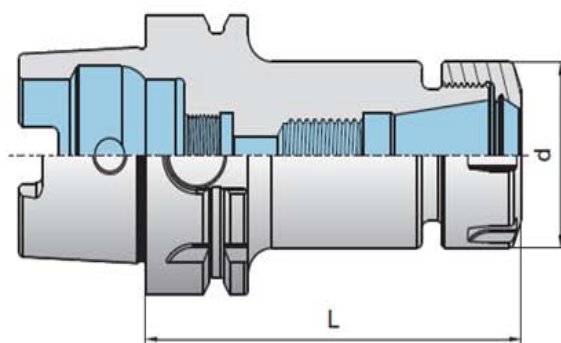
End Mill

Drill & Tap

Drilling & Boring

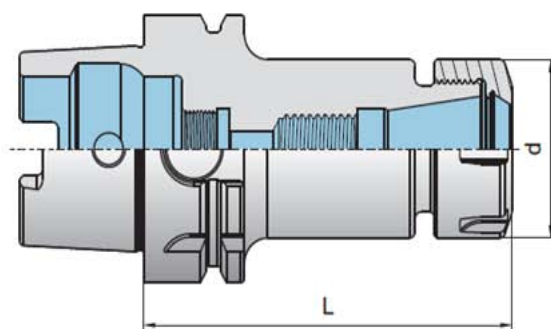
Tool Holder

ER Collet Chucks -HSK32A/HSK40A/HSK50A



Type	Taper type	Dimension		Nut	Wrench	ER collet	Screw	(kg)
		d	L					
HSK32A-ER11-80	HSK32A	19	80	LN11S	WER11	ER11	SGC060150	
HSK32A-ER16-80	HSK32A	28	80	LN16S	WER16	ER16	SGC100150	
HSK32A-ER20-80	HSK32A	34	80	LN20S	WER20	ER20	SGC120200	
HSK32A-ER25-80	HSK32A	42	80	LN25	WER25	ER25	SGC160200	
HSK40A-ER11-80	HSK40A	19	80	LN11S	WER11	ER11	SGC060150	
HSK40A-ER16-80	HSK40A	28	80	LN16S	WER16	ER16	SGC100150	
HSK40A-ER20-80	HSK40A	34	80	LN20S	WER20	ER20	SGC120200	
HSK40A-ER25-80	HSK40A	42	80	LN25	WER25	ER25	SGC160200	
HSK50A-ER16-60	HSK50A	28	60	LN16S	WER16	ER16	SGC100150	
-100	HSK50A	28	100	LN16S	WER16	ER16	SGC100150	
HSK50A-ER20-70	HSK50A	34	70	LN20S	WER20	ER20	SGC120200	
-100	HSK50A	34	100	LN20S	WER20	ER20	SGC120200	
HSK50A-ER25-70	HSK50A	42	70	LN25	WER25	ER25	SGC160200	
-100	HSK50A	42	100	LN25	WER25	ER25	SGC160200	
HSK50A-ER32-80	HSK50A	50	80	LN32	WER32	ER32	SGD220250	
-100	HSK50A	50	100	LN32	WER32	ER32	SGD220250	

ER Collet Chucks - HSK63A



Type	Taper type	Dimension		Nut	Wrench	ER collet	Screw
		d	L				
HSK63A-ER16-80	HSK63A	28	80	LN16S	WER16	ER16	SGC100150
-100	HSK63A	28	100	LN16S	WER16	ER16	SGC100150
-160	HSK63A	28	160	LN16S	WER16	ER16	SGC100150
HSK63A-ER20-80	HSK63A	34	80	LN20S	WER20	ER20	SGC120200
-100	HSK63A	34	100	LN20S	WER20	ER20	SGC120200
-160	HSK63A	34	160	LN20S	WER20	ER20	SGC120200
HSK63A-ER25-80	HSK63A	42	80	LN25	WER25	ER25	SGC160200
-100	HSK63A	42	100	LN25	WER25	ER25	SGC160200
-160	HSK63A	42	160	LN25	WER25	ER25	SGC160200
HSK63A-ER32-80	HSK63A	50	80	LN32	WER32	ER32	SGD220250
-100	HSK63A	50	100	LN32	WER32	ER32	SGD220250
-160	HSK63A	50	160	LN32	WER32	ER32	SGD220250
HSK63A-ER40-80	HSK63A	63	80	LN40	WER40	ER40	SGD280250
-100	HSK63A	63	100	LN40	WER40	ER40	SGD280250
-160	HSK63A	63	160	LN40	WER40	ER40	SGD280250

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

End Mill

Drill & Tap

Drilling & Boring

Tool Holder

ER Collet Chucks -HSK100A

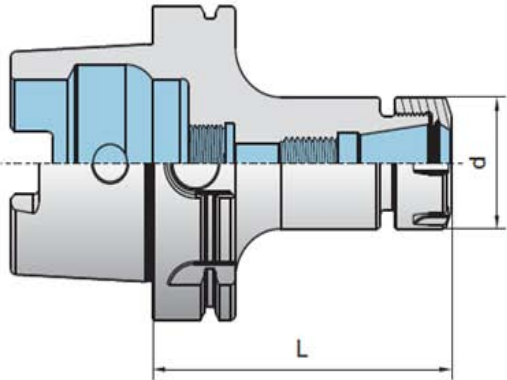
DIN
69893

Form
A

G2.5
15000rpm

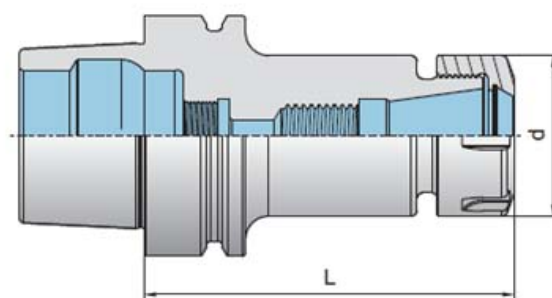
Ra 0.003

Center Cool



Type	Taper type	Dimension		Nut 	Wrench 	ER collet 	Screw
		d	L				
HSK100A-ER16-100	HSK100A	28	100	LN16S	WER16	ER16	SGC100150
-160	HSK100A	28	160	LN16S	WER16	ER16	SGC100150
HSK100A-ER20-100	HSK100A	34	100	LN20S	WER20	ER20	SGC120200
-160	HSK100A	34	160	LN20S	WER20	ER20	SGC120200
HSK100A-ER25-100	HSK100A	42	100	LN25	WER25	ER25	SGC160200
-160	HSK100A	42	160	LN25	WER25	ER25	SGC160200
HSK100A-ER32-100	HSK100A	50	100	LN32	WER32	ER32	SGD220250
-160	HSK100A	50	160	LN32	WER32	ER32	SGD220250
HSK100A-ER40-100	HSK100A	63	100	LN40	WER40	ER40	SGD280250
-160	HSK100A	63	160	LN40	WER40	ER40	SGD280250

ER Collet Chucks -HSK32E/40E/50E



Type	Taper type	Dimension		Nut	Wrench	ER collet	Screw
		d	L				
HSK32E-ER11-80	HSK32E	19	80	LN11S	WER11	ER11	SGC060150
HSK32E-ER16-80	HSK32E	28	80	LN16S	WER16	ER16	SGC100150
HSK32E-ER20-80	HSK32E	34	80	LN20S	WER20	ER20	SGC120200
HSK32E-ER25-80	HSK32E	42	80	LN25	WER25	ER25	SGC160200
HSK40E-ER11-80	HSK40E	19	80	LN11S	WER11	ER11	SGC060150
HSK40E-ER16-80	HSK40E	28	80	LN16S	WER16	ER16	SGC100150
HSK40E-ER20-80	HSK40E	34	80	LN20S	WER20	ER20	SGC120200
HSK40E-ER25-80	HSK40E	42	80	LN25	WER25	ER25	SGC160200
HSK50E-ER16-60	HSK50E	28	60	LN16S	WER16	ER16	SGC100150
-100	HSK50E	28	100	LN16S	WER16	ER16	SGC100150
HSK50E-ER20-70	HSK50E	34	70	LN20S	WER20	ER20	SGC120200
HSK50E-ER25-70	HSK50E	42	70	LN25	WER25	ER25	SGC160200
-100	HSK50E	42	100	LN25	WER25	ER25	SGC160200
HSK50E-ER32-80	HSK50E	50	80	LN32	WER32	ER32	SGD220250
-100	HSK50E	50	100	LN32	WER32	ER32	SGD220250

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

End Mill

Drill & Tap

Drilling & Boring

Tool Holder

ER Collet Chucks HSK63F

DIN
69893

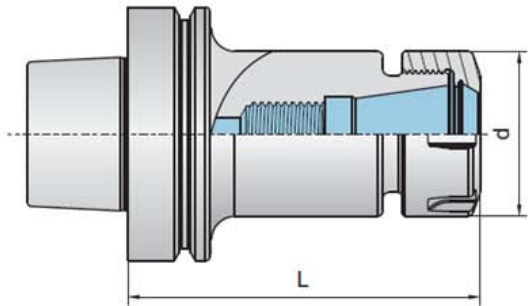
Form
F

G2.5
25000rpm


Ra 0.003

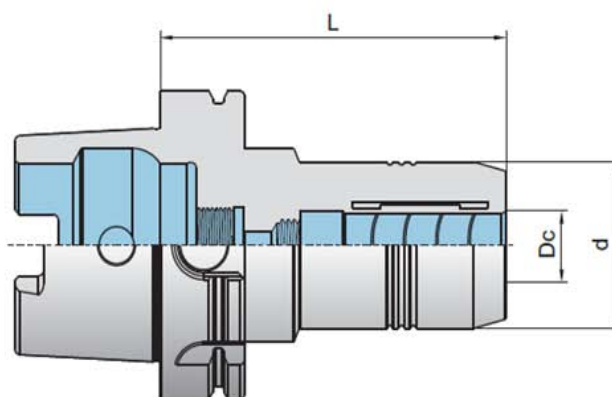
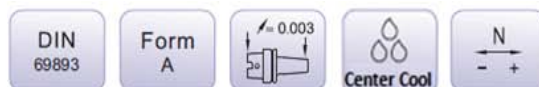

Center Cool


N
- +



Type	Taper type	Dimension		Nut	Wrench	ER collet	Screw
		d	L				
HSK63F-ER16-75	HSK63F	28	75	LN16S	WER16	ER16	SGC100150
-100	HSK63F	28	100	LN16S	WER16	ER16	SGC100150
HSK63F-ER20-75	HSK63F	34	75	LN20S	WER20	ER20	SGC120200
-100	HSK63F	34	100	LN20S	WER20	ER20	SGC120200
HSK63F-ER25-75	HSK63F	42	75	LN25	WER25	ER25	SGC160200
-100	HSK63F	42	100	LN25	WER25	ER25	SGC160200
HSK63F-ER32-75	HSK63F	50	80	LN32	WER32	ER32	SGD220250
-100	HSK63F	50	100	LN32	WER32	ER32	SGD220250
HSK63F-ER40-75	HSK63F	63	80	LN40	WER40	ER40	SGD280250
-100	HSK63F	63	100	LN40	WER40	ER40	SGD280250

Hydraulic Chucks -HSK63A



Type	Taper type	Dimension			HC collet 	Wrench 
		Dc	d	L		
HSK63A-KHC12-85	HSK63A	12	34	85	HC12	TS4
HSK63A-KHC20-90	HSK63A	20	43	90	HC20	TS4
HSK63A-KHC25-120	HSK63A	25	57	120	-	TS5
HSK63A-KHC32-125	HSK63A	32	64	125	HC32	TS5
HSK100A-KHC12-95	HSK100A	12	34	95	HC12	TS4
HSK100A-KHC20-105	HSK100A	20	43	105	HC20	TS4
HSK100A-KHC25-110	HSK100A	25	57	110	-	TS5
HSK100A-KHC32-110	HSK100A	32	63	110	HC32	TS5

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

End Mill

Drill & Tap

Drilling & Boring

Tool Holder

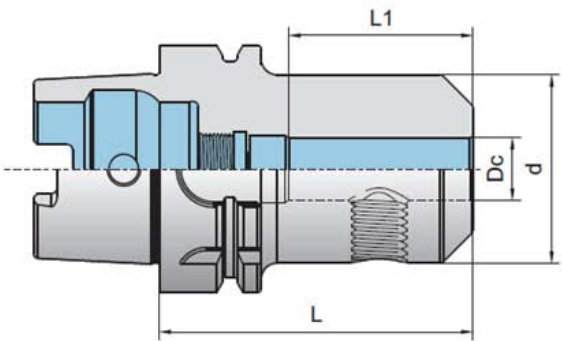
Side-Locked Holders -HSK63A

DIN
69893

Form
A

$\sqrt{r} = 0.005$

Center Cool



Type	Taper type	Dimension				Screw	Wrench
		Dc	d	L1	L		
HSK63A-XP12-80	HSK63A	12	42	44	80	SXP12	S6
-160	HSK63A	12	42	44	160	SXP12	S6
HSK63A-XP16-80	HSK63A	16	48	47	80	SXP16	S6
-160	HSK63A	16	48	47	160	SXP16	S6
HSK63A-XP20-80	HSK63A	20	52	49	80	SXP20	S8
-160	HSK63A	20	52	49	160	SXP20	S8
HSK63A-XP25-110	HSK63A	25	65	54	110	SXP25	S8
-160	HSK63A	25	65	54	160	SXP25	S8
HSK63A-XP32-110	HSK63A	32	72	58	110	SXP32	S10
-160	HSK63A	32	72	58	160	SXP32	S10

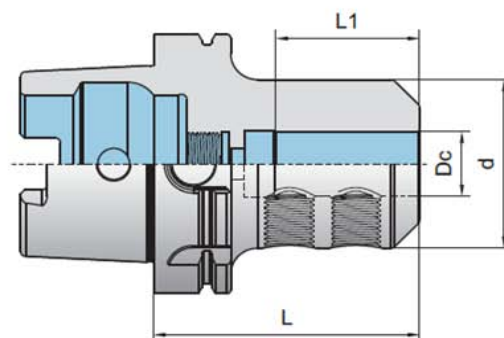
Side-Locked Holders -HSK100A

DIN
69893

Form
A

 $\sqrt{r} \leq 0.005$

Center Cool



Type	Taper type	Dimension				Screw 	Wrench 
		Dc	d	L1	L		
HSK100A-XP16-100	HSK100A	16	48	47	100	SXP16	S6
-160	HSK100A	16	48	47	160	SXP16	S6
HSK100A-XP20-100	HSK100A	20	52	49	100	SXP20	S8
-160	HSK100A	20	52	49	160	SXP20	S8
HSK100A-XP25-100	HSK100A	25	65	54	100	SXP25	S8
-160	HSK100A	25	65	54	160	SXP25	S8
HSK100A-XP32-100	HSK100A	32	72	58	100	SXP32	S10
-160	HSK100A	32	72	58	160	SXP32	S10
HSK100A-XP40-120	HSK100A	40	80	68	120	SXP40	S10
-160	HSK100A	40	80	68	160	SXP40	S10

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving &
Parting

Milling

Threading

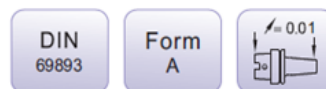
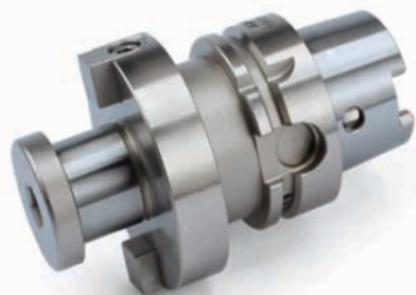
End Mill

Drill & Tap

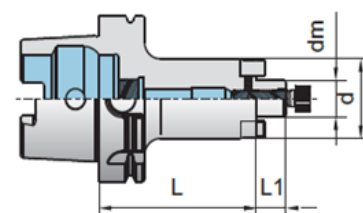
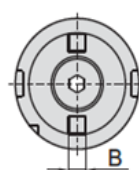
Drilling & Boring

Tool Holder

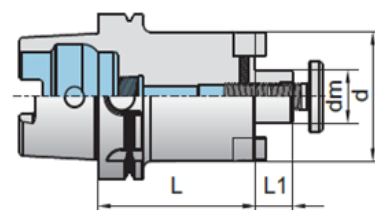
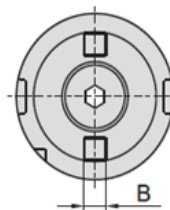
Face Mill Holder- HSK63A



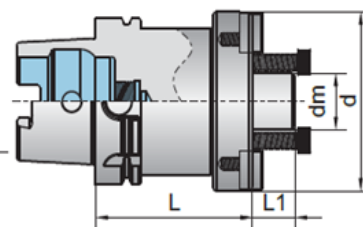
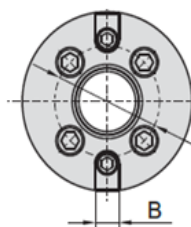
Model I



Model II

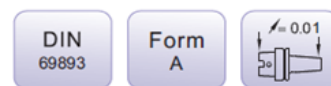


Model III

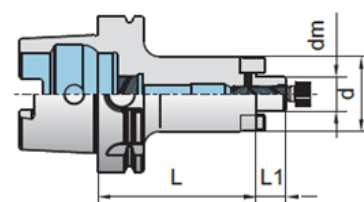
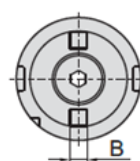


Type	Taper type	Dimension						Screw	Wrench	Key	Model
		dm	d	d1	B	L1	L				
HSK63A-XMA22-50	HSK63A	22	48	-	10	19	50	SCC100300	S8	KXMA22	I
-100	HSK63A	22	48	-	10	19	100	SCC100300	S8	KXMA22	I
-160	HSK63A	22	48	-	10	19	160	SCC100300	S8	KXMA22	I
HSK63A-XMA27-60	HSK63A	27	60	-	12	21	60	SCC120350	S10	KXMA27	I
-100	HSK63A	27	60	-	12	21	100	SCC120350	S10	KXMA27	I
-160	HSK63A	27	60	-	12	21	160	SCC120350	S10	KXMA27	I
HSK63A-XMB32-60	HSK63A	32	78	-	14	24	60	SXMB32	S12	KXMB32	II
-100	HSK63A	32	78	-	14	24	100	SXMB32	S12	KXMB32	II
-160	HSK63A	32	78	-	14	24	160	SXMB32	S12	KXMB32	II
HSK63A-XMB40-60	HSK63A	40	89	-	16	27	60	SXMB40	S14	KXMB40	II
-100	HSK63A	40	89	-	16	27	100	SXMB40	S14	KXMB40	II
-160	HSK63A	40	89	-	16	27	160	SXMB40	S14	KXMB40	II
HSK63A-XMC40-60	HSK63A	40	108	66.7	16	27	60	SCC120350	S10	KXMC40	III

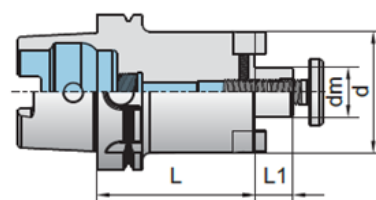
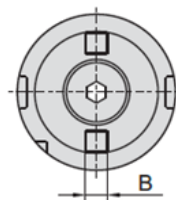
Face Mill Holder- HSK100A



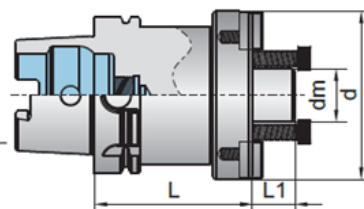
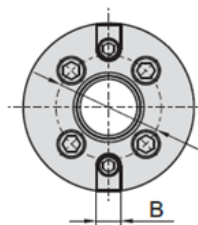
Molde I



Molde II



Molde III



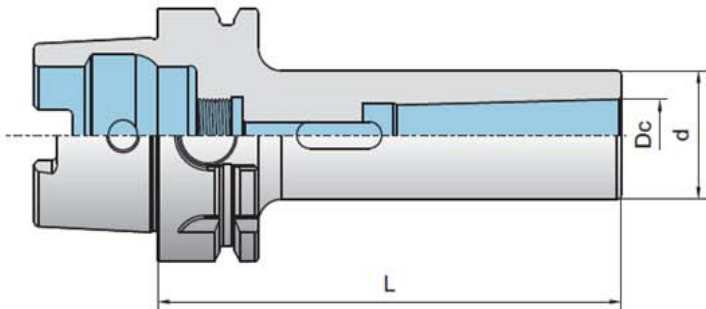
Type	Taper type	Dimension						Screw	Wrench	Key	Model
		dm	d	d1	B	L1	L				
HSK100A-XMA22-50	HSK100A	22	48	-	10	19	50	SCC100300	S8	KXMA22	I
-100	HSK100A	22	48	-	10	19	100	SCC100300	S8	KXMA22	I
-160	HSK100A	22	48	-	10	19	160	SCC100300	S8	KXMA22	I
HSK100A-XMA27-50	HSK100A	27	60	-	12	21	50	SCC120350	S10	KXMA27	I
-100	HSK100A	27	60	-	12	21	100	SCC120350	S10	KXMA27	I
-160	HSK100A	27	60	-	12	21	160	SCC120350	S10	KXMA27	I
HSK100A-XMB32-50	HSK100A	32	78	-	14	24	50	SXMB32	S12	KXMB32	II
-100	HSK100A	32	78	-	14	24	100	SXMB32	S12	KXMB32	II
-160	HSK100A	32	78	-	14	24	160	SXMB32	S12	KXMB32	II
HSK100A-XMB40-60	HSK100A	40	89	-	16	27	60	SXMB40	S14	KXMB40	II
-100	HSK100A	40	89	-	16	27	100	SXMB40	S14	KXMB40	II
-160	HSK100A	40	89	-	16	27	160	SXMB40	S14	KXMB40	II
HSK100A-XMC40-60	HSK100A	40	108	66.7	16	27	60	SCC120350	S10	KXMC40	III
HSK100A-XMC60-70	HSK100A	40	129	101.6	25.4	38	70	SCC160450	S14	KXMC60	III

Morse Taper Shank with Tang-HSK63A/HSK100A

-- For Drill Bit

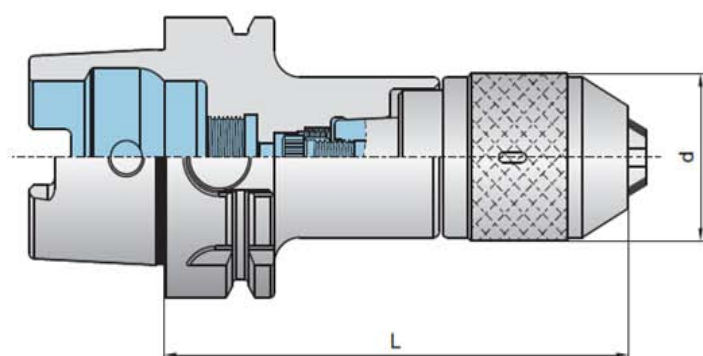
DIN
69893

Form
A



Type	Taper type	Morse taper	Dimension			Drill bit dia.
			Dc	d	L	
HSK63A-M1-100	HSK63A	MT1	12.065	25	100	3~14
HSK63A-M2-120	HSK63A	MT2	17.78	32	120	14.25~23
HSK63A-M3-140	HSK63A	MT3	23.825	40	140	23.25~31.75
HSK63A-M4-160	HSK63A	MT4	31.267	50	160	32~50.5
HSK100A-M1-110	HSK100A	MT1	12.065	25	110	3~14
HSK100A-M2-120	HSK100A	MT2	17.78	32	120	14.25~23
HSK100A-M3-150	HSK100A	MT3	23.825	40	150	23.25~31.75
HSK100A-M4-170	HSK100A	MT4	31.267	50	170	32~50.5
HSK100A-M5-200	HSK100A	MT5	44.399	70	200	51~76

Integral Drill Chucks - HSK63A/HSK100A

DIN
69893Form
A

Type	Taper type	Dimension		Holding range
		d	L	
HSK63A-KPU08-130	HSK63A	37.5	130	0.5~8
HSK63A-KPU13-155	HSK63A	50.5	155	0.5~13
HSK63A-KPU16-160	HSK63A	57	160	3~16
HSK100A-KPU08-135	HSK100A	37.5	135	0.5~8
HSK100A-KPU13-165	HSK100A	50.5	165	0.5~13
HSK100A-KPU16-170	HSK100A	57	170	3~16

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving &
Parting

Milling

Threading

End Mill

Drill & Tap

Drilling & Boring

Tool Holder

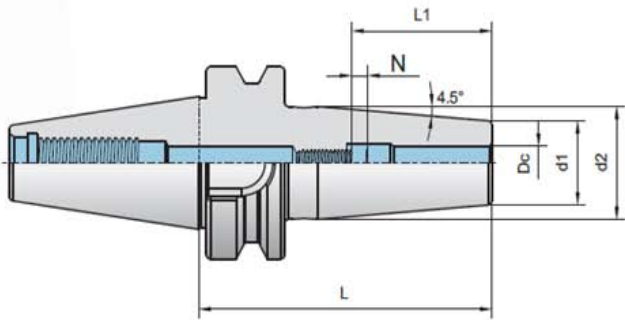
BT30
Shrink Fit Holders-Standard

JIS B
6339

G2.5
25000rpm

Ra 0.003

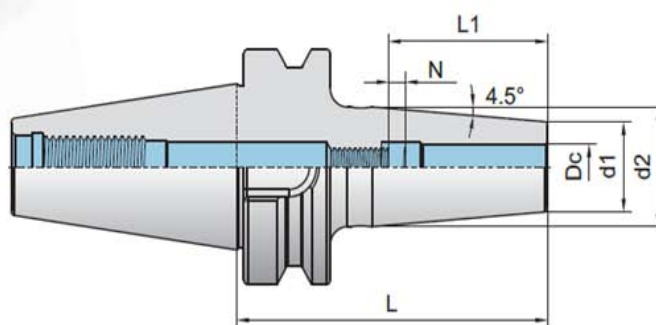
Center Cool



Type	Taper type	Dimension						Axial adjustment screw 
		Dc	d1	d2	L	L1	N	
BT30-TE04-80	BT30	4	15	20	80	20	-	-
BT30-TE06-80	BT30	6	21	27	80	36	-	-
BT30-TE08-80	BT30	8	21	27	80	36	-	-
BT30-TE10-80	BT30	10	24	32	80	40	-	-
BT30-TE12-80	BT30	12	24	32	80	45	-	-
BT30-TE16-80	BT30	16	27	34	80	48	10	SGC120200

BT40

Shrink Fit Holders-Standard



Type	Taper type	Dimension						Axial adjustment screw 	(kg)
		Dc	d1	d2	L	L1	N		
BT40-TE04-90	BT40	4	15	20	90	20	-	-	1.07
BT40-TE06-90	BT40	6	21	27	90	36	10	-	1.20
-120	BT40	6	21	27	120	36	10	-	1.34
-160	BT40	6	21	27	160	36	10	-	1.50
BT40-TE08-90	BT40	8	21	27	90	36	10	-	1.17
-120	BT40	8	21	27	120	36	10	-	1.31
-160	BT40	8	21	27	160	36	10	-	1.47
BT40-TE10-90	BT40	10	24	32	90	40	10	-	1.21
-120	BT40	10	24	32	120	40	10	-	1.39
-160	BT40	10	24	32	160	40	10	-	1.60
BT40-TE12-90	BT40	12	24	32	90	45	10	-	1.20
-120	BT40	12	24	32	120	45	10	-	1.37
-160	BT40	12	24	32	160	45	10	-	1.58
BT40-TE16-90	BT40	16	27	34	90	48	10	SGC120200	1.24
-120	BT40	16	27	34	120	48	10	SGC120200	1.43
-160	BT40	16	27	34	160	48	10	SGC120200	1.68
BT40-TE20-90	BT40	20	33	42	90	50	10	SGC160200	1.34
-120	BT40	20	33	42	120	50	10	SGC160200	1.63
-160	BT40	20	33	42	160	50	10	SGC160200	2.02
BT40-TE25-100	BT40	25	44	53	100	56	10	SGD220250	1.74
-160	BT40	25	44	53	160	56	10	SGD220250	2.71
BT40-TE32-100	BT40	32	44	53	100	60	10	SGD280250	1.54
-160	BT40	32	44	53	160	60	10	SGD280250	2.51

Turning Inset

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

End Mill

Drill & Tap

Drilling & Boring

Tool Holder

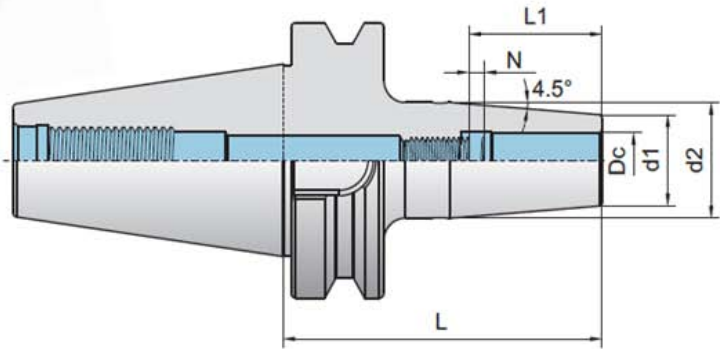
BT50
Shrink Fit Holders-Standard

JIS B
6339

G2.5
15000rpm

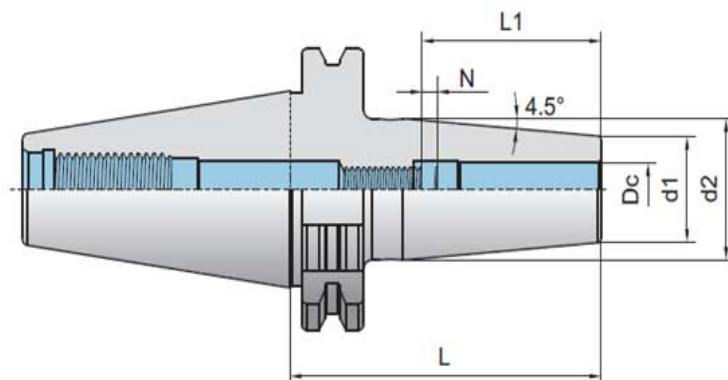
Ra 0.003

Center Cool



Type	Taper type	Dimension						Axial adjustment screw 	(kg)
		Dc	d1	d2	L	L1	N		
BT50-TE06-100	BT50	6	21	27	100	36	10	-	3.82
-160	BT50	6	21	27	160	36	10	-	4.06
BT50-TE08-100	BT50	8	21	27	100	36	10	-	3.74
-160	BT50	8	21	27	160	36	10	-	3.98
BT50-TE10-100	BT50	10	24	32	100	45	10	-	3.79
-160	BT50	10	24	32	160	45	10	-	4.11
BT50-TE12-100	BT50	12	24	32	100	45	10	-	3.77
-160	BT50	12	24	32	160	45	10	-	4.10
BT50-TE16-100	BT50	16	27	34	100	48	10	-	3.80
-160	BT50	16	27	34	160	48	10	-	4.12
BT50-TE20-100	BT50	20	33	42	100	50	10	-	3.93
-160	BT50	20	33	42	160	50	10	-	4.49
BT50-TE25-100	BT50	25	44	53	100	56	10	SGD220250	4.16
-160	BT50	25	44	53	160	56	10	SGD220250	5.10
BT50-TE32-100	BT50	32	44	53	100	60	10	SGD280250	3.97
-160	BT50	32	44	53	160	60	10	SGD280250	4.91

JT40 Shrink Fit Holders-Standard



Type	Taper type	Dimension						Axial adjustment screw 	(kg)
		Dc	d1	d2	L	L1	N		
JT40-TE04-80	JT40	4	15	20	80	20	-	-	0.92
JT40-TE06-80	JT40	6	21	27	80	36	10	-	1.03
-120	JT40	6	21	27	120	36	10	-	1.20
-160	JT40	6	21	27	160	36	10	-	1.36
JT40-TE08-80	JT40	8	21	27	80	36	10	-	1.01
-120	JT40	8	21	27	120	36	10	-	1.17
-160	JT40	8	21	27	160	36	10	-	1.32
JT40-TE10-80	JT40	10	24	32	80	40	10	-	1.05
-120	JT40	10	24	32	120	40	10	-	1.29
-160	JT40	10	24	32	160	40	10	-	1.51
JT40-TE12-80	JT40	12	24	32	80	45	10	-	1.43
-120	JT40	12	24	32	120	45	10	-	1.26
-160	JT40	12	24	32	160	45	10	-	1.47
JT40-TE16-80	JT40	16	27	34	80	48	10	SGC120200	1.07
-120	JT40	16	27	34	120	48	10	SGC120200	1.33
-160	JT40	16	27	34	160	48	10	SGC120200	1.57
JT40-TE20-80	JT40	20	33	42	80	50	10	SGC160200	1.16
-120	JT40	20	33	42	120	50	10	SGC160200	1.56
-160	JT40	20	33	42	160	50	10	SGC160200	1.94
JT40-TE25-100	JT40	25	44	53	100	56	10	SGD220250	1.72
-160	JT40	25	44	53	160	56	10	SGD220250	2.69
JT40-TE32-100	JT40	32	44	53	100	60	10	SGD280250	1.52
-160	JT40	32	44	53	160	60	10	SGD280250	2.48

Turning Inset

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

End Mill

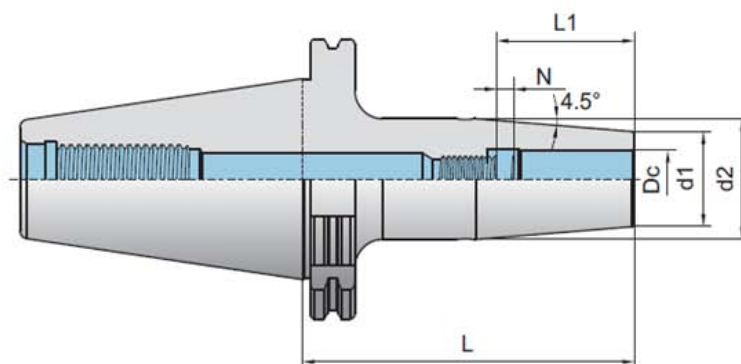
Drill & Tap

Drilling & Boring

Tool Holder

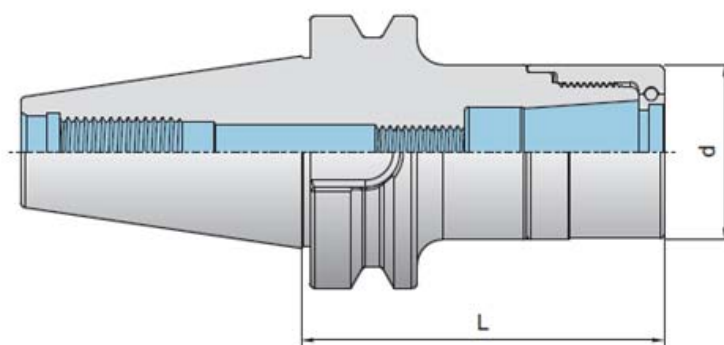
JT50

Shrink Fit Holders-Standard



Type	Taper type	Dimension						Axial adjustment screw 	(kg)
		Dc	d1	d2	L	L1	N		
JT50-TE06-80	JT50	6	21	27	80	36	10	-	2.78
-120	JT50	6	21	27	120	36	10	-	2.94
-160	JT50	6	21	27	160	36	10	-	3.10
JT50-TE08-80	JT50	8	21	27	80	36	10	-	2.77
-120	JT50	8	21	27	120	36	10	-	2.82
-160	JT50	8	21	27	160	36	10	-	3.07
JT50-TE10-80	JT50	10	24	32	80	40	10	-	2.81
-120	JT50	10	24	32	120	40	10	-	3.04
-160	JT50	10	24	32	160	40	10	-	3.26
JT50-TE12-80	JT50	12	24	32	80	45	10	-	2.79
-120	JT50	12	24	32	120	45	10	-	3.02
-160	JT50	12	24	32	160	45	10	-	3.23
JT50-TE16-80	JT50	16	27	34	80	48	10	-	2.82
-120	JT50	16	27	34	120	48	10	-	3.02
-160	JT50	16	27	34	160	48	10	-	3.22
JT50-TE20-80	JT50	20	33	42	80	50	10	-	2.93
-120	JT50	20	33	42	120	50	10	-	3.31
-160	JT50	20	33	42	160	50	10	-	3.66
JT50-TE25-100	JT50	25	44	53	100	56	10	SGD220250	3.47
-160	JT50	25	44	53	160	56	10	SGD220250	4.42
JT50-TE32-100	JT50	32	44	53	100	60	10	SGD280250	3.31
-160	JT50	32	44	53	160	60	10	SGD280250	4.23

GSK Collet Chucks –BT30



Type	Taper type	Dimension		Nut	Wrench	SKcollet	Colletpuller
		d	L				
BT30-GSK06-60	BT30	20	60	LN-GSK06	WGSK06	SK06	CGSK06
-90	BT30	20	90	LN-GSK06	WGSK06	SK06	CGSK06
BT30-GSK10-60	BT30	27.6	60	LN-GSK10	WGSK10	SK10	CGSK10
-90	BT30	27.6	90	LN-GSK10	WGSK10	SK10	CGSK10
BT30-GSK16-60	BT30	40.5	60	LN-GSK16	WGSK16	SK16	CGSK16
-90	BT30	40.5	90	LN-GSK16	WGSK16	SK16	CGSK16

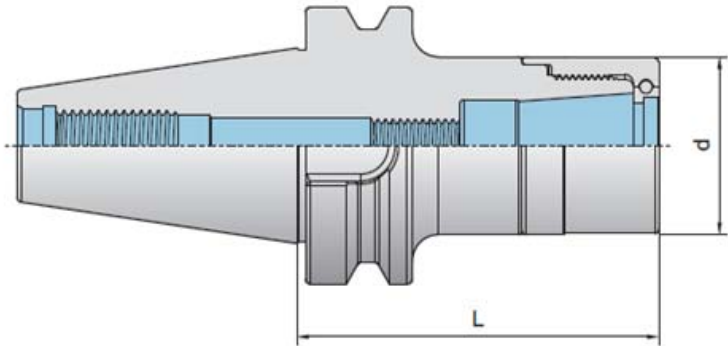
GSK Collet Chucks –BT40

JIS B
6339

G2. 5
25000rpm

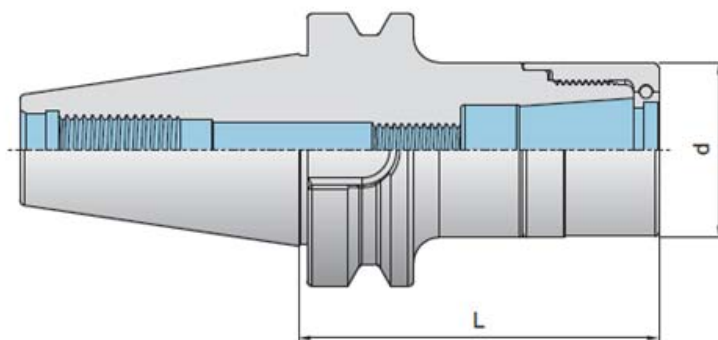
 $\sqrt{R_a} \sim 0.003$

 N



Type	Taper type	Dimension		Nut 	Wrench 	SKcollet 	Colletpuller 
		d	L				
BT40-GSK06-60	BT40	20	60	LN-GSK06	WGSK06	SK06	CGSK06
-90	BT40	20	90	LN-GSK06	WGSK06	SK06	CGSK06
-120	BT40	20	120	LN-GSK06	WGSK06	SK06	CGSK06
BT40-GSK10-60	BT40	27.6	60	LN-GSK10	WGSK10	SK10	CGSK10
-90	BT40	27.6	90	LN-GSK10	WGSK10	SK10	CGSK10
-120	BT40	27.6	120	LN-GSK10	WGSK10	SK10	CGSK10
-150	BT40	27.6	150	LN-GSK10	WGSK10	SK10	CGSK10
BT40-GSK16-75	BT40	40.5	75	LN-GSK16	WGSK16	SK16	CGSK16
-90	BT40	40.5	90	LN-GSK16	WGSK16	SK16	CGSK16
-120	BT40	40.5	120	LN-GSK16	WGSK16	SK16	CGSK16
-150	BT40	40.5	150	LN-GSK16	WGSK16	SK16	CGSK16

GSK Collet Chucks -BT50



Type	Taper type	Dimension		Nut 	Wrench 	SKcollet 	Colletpuller 
		d	L				
BT50-GSK10-105	BT50	27.6	105	LN-GSK10	WGSK10	SK10	CGSK10
-135	BT50	27.6	135	LN-GSK10	WGSK10	SK10	CGSK10
-165	BT50	27.6	165	LN-GSK10	WGSK10	SK10	CGSK10
BT50-GSK16-105	BT50	40.5	105	LN-GSK16	WGSK16	SK16	CGSK16
-135	BT50	40.5	135	LN-GSK16	WGSK16	SK16	CGSK16
-165	BT50	40.5	165	LN-GSK16	WGSK16	SK16	CGSK16
-200	BT50	40.5	200	LN-GSK16	WGSK16	SK16	CGSK16

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

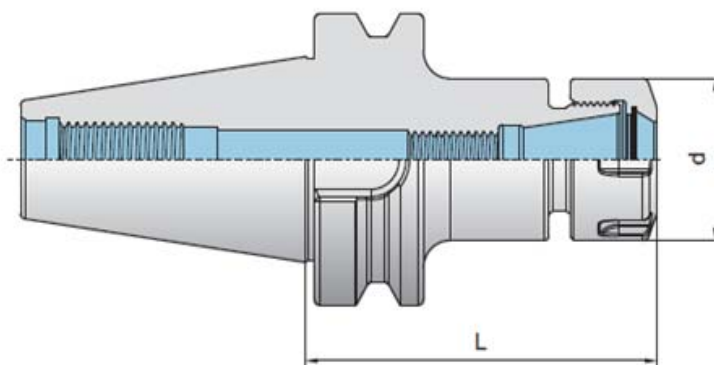
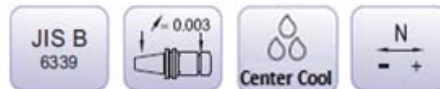
End Mill

Drill & Tap

Drilling & Boring

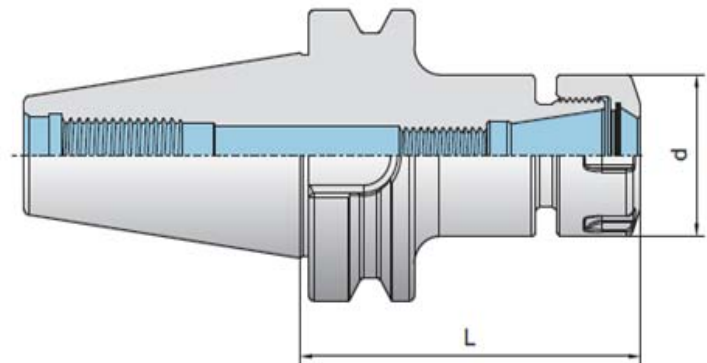
Tool Holder

ER Collet Chucks -BT30/BT40



Type	Taper type	Dimension		Nut	Wrench	ERcollet	Screw	(kg)
		d	L					
BT30-ER11-70	BT30	19	70	LN11S	WER11	ER11	SGC060150	0.44
-100	BT30	19	100	LN11S	WER11	ER11	SGC060150	0.78
BT30-ER16-70	BT30	28	70	LN16S	WER16	ER16	SGC100150	0.54
-100	BT30	28	100	LN16S	WER16	ER16	SGC100150	0.68
BT30-ER20-70	BT30	34	70	LN20S	WER20	ER20	SGC120200	0.55
-100	BT30	34	100	LN20S	WER20	ER20	SGC120200	0.82
BT30-ER25-60	BT30	42	60	LN25	WER25	ER25	SGC160200	0.58
-100	BT30	42	100	LN25	WER25	ER25	SGC160200	0.98
BT40-ER11-70	BT40	19	70	LN11S	WER11	ER11	SGC060150	1.02
-100	BT40	19	100	LN11S	WER11	ER11	SGC060150	1.10
-160	BT40	19	160	LN11S	WER11	ER11	SGC060150	1.22
BT40-ER16-70	BT40	28	70	LN16S	WER16	ER16	SGC100150	1.14
-100	BT40	28	100	LN16S	WER16	ER16	SGC100150	1.32
-160	BT40	28	160	LN16S	WER16	ER16	SGC100150	1.63
BT40-ER20-70	BT40	34	70	LN20S	WER20	ER20	SGC120200	1.16
-100	BT40	34	100	LN20S	WER20	ER20	SGC120200	1.38
-160	BT40	34	160	LN20S	WER20	ER20	SGC120200	1.76

ER Collet Chucks -BT40



Type	Taper type	Dimension		Nut	Wrench	ERcollet	Screw	(kg)
		d	L					
BT40-ER25-70	BT40	42	70	LN25	WER25	ER25	SGC160200	1.22
-100	BT40	42	100	LN25	WER25	ER25	SGC160200	1.52
-160	BT40	42	160	LN25	WER25	ER25	SGC160200	2.11
BT40-ER32-70	BT40	50	70	LN32	WER32	ER32	SGD220250	1.32
-100	BT40	50	100	LN32	WER32	ER32	SGD220250	1.72
-160	BT40	50	160	LN32	WER32	ER32	SGD220250	2.58
BT40-ER40-70	BT40	63	70	LN40	WER40	ER40	SGD280250	1.41
-100	BT40	63	100	LN40	WER40	ER40	SGD280250	2.01
-160	BT40	63	160	LN40	WER40	ER40	SGD280250	3.29

Turning Inset

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

End Mill

Drill & Tap

Drilling & Boring

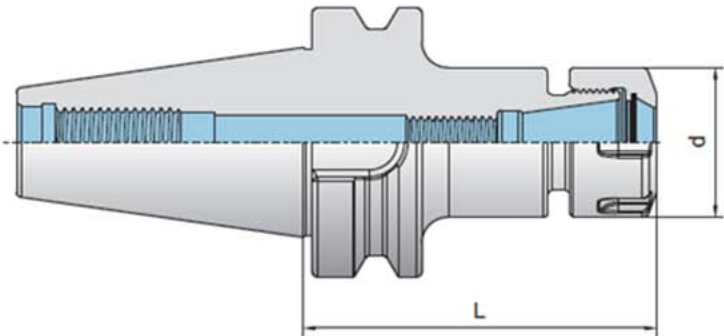
Tool Holder

ER Collet Chucks -BT50

JIS B
6339

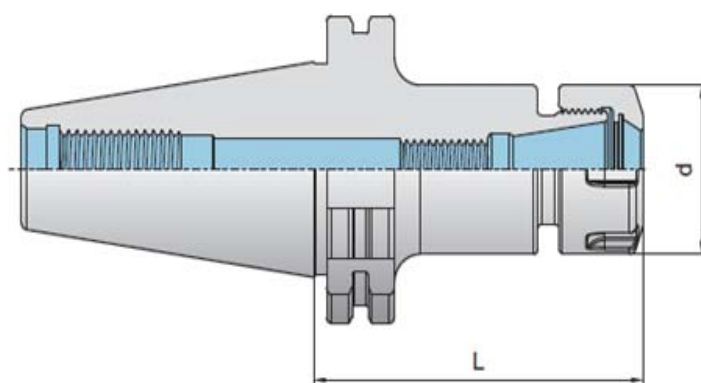
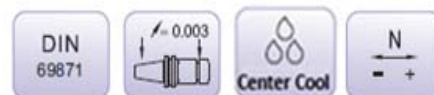
Ra 0.003

Center Cool



Type	Taper type	Dimension		Nut	Wrench	ERcollet	Screw	(kg)
		d	L					
BT50-ER11-70	BT50	19	70	LN11S	WER11	ER11	SGC060150	3.56
-100	BT50	19	100	LN11S	WER11	ER11	SGC060150	3.65
-160	BT50	19	160	LN11S	WER11	ER11	SGC060150	3.78
BT50-ER16-70	BT50	28	70	LN16S	WER16	ER16	SGC100150	3.64
-100	BT50	28	100	LN16S	WER16	ER16	SGC100150	3.81
-160	BT50	28	160	LN16S	WER16	ER16	SGC100150	4.26
BT50-ER20-70	BT50	34	70	LN20S	WER20	ER20	SGC120200	3.67
-100	BT50	34	100	LN20S	WER20	ER20	SGC120200	3.84
-160	BT50	34	160	LN20S	WER20	ER20	SGC120200	4.34
BT50-ER25-70	BT50	42	70	LN25	WER25	ER25	SGC160200	3.70
-100	BT50	42	100	LN25	WER25	ER25	SGC160200	4.54
-160	BT50	42	160	LN25	WER25	ER25	SGC160200	4.74
BT50-ER32-70	BT50	50	70	LN32	WER32	ER32	SGD220250	3.73
-100	BT50	50	100	LN32	WER32	ER32	SGD220250	4.14
-160	BT50	50	160	LN32	WER32	ER32	SGD220250	4.97
BT50-ER40-70	BT50	63	70	LN40	WER40	ER40	SGD280250	3.76
-100	BT50	63	100	LN40	WER40	ER40	SGD280250	4.44
-160	BT50	63	160	LN40	WER40	ER40	SGD280250	5.77

ER Collet Chucks – JT40



Type	Taper type	Dimension		Nut	Wrench	ERcollet	Screw	(kg)
		d	L					
JT40-ER11-70	JT40	19	70	LN11S	WER11	ER11	SGC060150	0.9
-100	JT40	19	100	LN11S	WER11	ER11	SGC060150	0.95
-160	JT40	19	160	LN11S	WER11	ER11	SGC060150	1.10
JT40-ER16-70	JT40	28	70	LN16S	WER16	ER16	SGC100150	1.04
-100	JT40	28	100	LN16S	WER16	ER16	SGC100150	1.02
-160	JT40	28	160	LN16S	WER16	ER16	SGC100150	1.52
JT40-ER20-70	JT40	34	70	LN20S	WER20	ER20	SGC120200	1.06
-100	JT40	34	100	LN20S	WER20	ER20	SGC120200	1.38
-160	JT40	34	160	LN20S	WER20	ER20	SGC120200	1.65
JT40-ER25-70	JT40	42	70	LN25	WER25	ER25	SGC160200	1.14
-100	JT40	42	100	LN25	WER25	ER25	SGC160200	1.43
-160	JT40	42	160	LN25	WER25	ER25	SGC160200	2.00
JT40-ER32-70	JT40	50	70	LN32	WER32	ER32	SGD220250	1.24
-100	JT40	50	100	LN32	WER32	ER32	SGD220250	1.67
-160	JT40	50	160	LN32	WER32	ER32	SGD220250	2.25
JT40-ER40-70	JT40	63	70	LN40	WER40	ER40	SGD280250	1.26
-100	JT40	63	100	LN40	WER40	ER40	SGD280250	1.60
-160	JT40	63	160	LN40	WER40	ER40	SGD280250	2.45

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

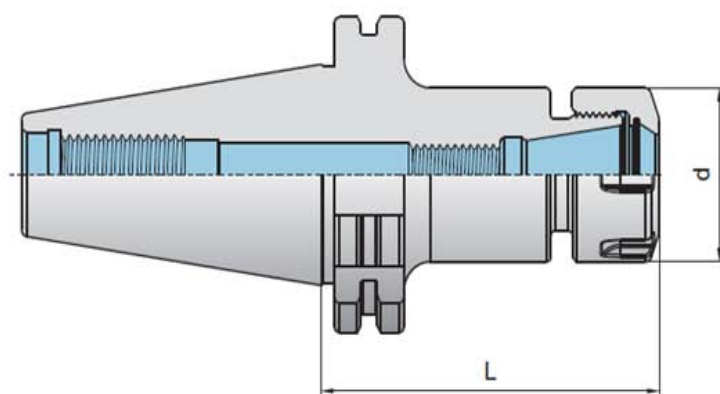
End Mill

Drill & Tap

Drilling & Boring

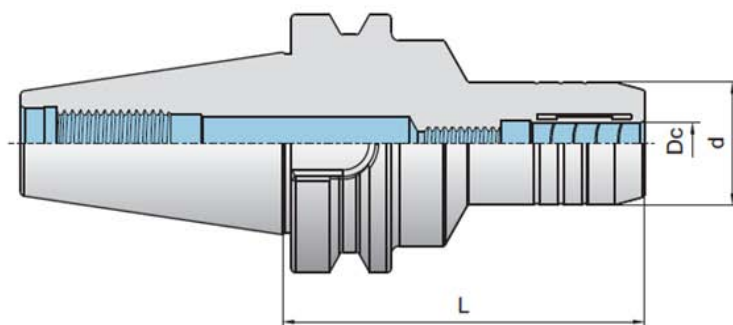
Tool Holder

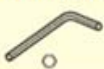
ER Collet Chucks -JT50



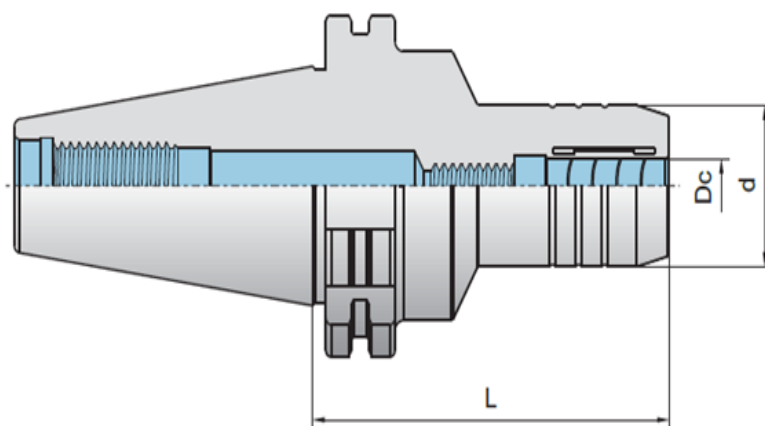
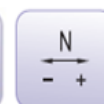
Type	Taper type	Dimension		Nut	Wrench	ERcollet	Screw	(kg)
		d	L					
JT50-ER11-70	JT50	19	70	LN11S	WER11	ER11	SGC060150	2.70
-100	JT50	19	100	LN11S	WER11	ER11	SGC060150	2.70
-160	JT50	19	160	LN11S	WER11	ER11	SGC060150	2.90
JT50-ER16-70	JT50	28	70	LN16S	WER16	ER16	SGC100150	2.75
-100	JT50	28	100	LN16S	WER16	ER16	SGC100150	3.00
-160	JT50	28	160	LN16S	WER16	ER16	SGC100150	3.30
JT50-ER20-70	JT50	34	70	LN20S	WER20	ER20	SGC120200	2.80
-100	JT50	34	100	LN20S	WER20	ER20	SGC120200	3.05
-160	JT50	34	160	LN20S	WER20	ER20	SGC120200	3.35
JT50-ER25-70	JT50	42	70	LN25	WER25	ER25	SGC160200	2.90
-100	JT50	42	100	LN25	WER25	ER25	SGC160200	3.20
-160	JT50	42	160	LN25	WER25	ER25	SGC160200	3.75
JT50-ER32-70	JT50	50	70	LN32	WER32	ER32	SGD220250	2.90
-100	JT50	50	100	LN32	WER32	ER32	SGD220250	3.35
-160	JT50	50	160	LN32	WER32	ER32	SGD220250	4.15
JT50-ER40-70	JT50	63	70	LN40	WER40	ER40	SGD280250	3.15
-100	JT50	63	100	LN40	WER40	ER40	SGD280250	3.80
-160	JT50	63	160	LN40	WER40	ER40	SGD280250	5.15

Hydraulic Chucks -BT30/BT40/BT50



Type	Taper type	Dimension			Wrench 
		Dc	d	L	
BT30-KHC06-70	BT30	6	28	70	TS4
BT30-KHC08-70	BT30	8	30	70	TS4
BT30-KHC10-75	BT30	10	32	75	TS4
BT30-KHC12-75	BT30	12	34	75	TS4
BT30-KHC16-90	BT30	16	38	90	TS4
BT30-KHC20-90	BT30	20	43	90	TS4
BT40-KHC06-90	BT40	6	28	90	TS4
BT40-KHC08-90	BT40	8	30	90	TS4
BT40-KHC10-90	BT40	10	32	90	TS4
BT40-KHC12-90	BT40	12	34	90	TS4
BT40-KHC16-90	BT40	16	38	90	TS4
BT40-KHC20-90	BT40	20	43	90	TS4
BT40-KHC25-100	BT40	25	57	100	TS5
BT40-KHC32-105	BT40	32	63	105	TS5
BT50-KHC12-90	BT50	12	34	90	TS4
BT50-KHC20-90	BT50	20	43	90	TS4
BT50-KHC32-115	BT50	32	63	115	TS5

Hydraulic Chucks -JT40/JT50



Type	Taper type	Dimension			Wrench 
		Dc	d	L	
JT40-KHC06-80	JT40	6	28	80	TS4
JT40-KHC08-80	JT40	8	30	80	TS4
JT40-KHC10-80	JT40	10	32	80	TS4
JT40-KHC12-80	JT40	12	34	80	TS4
JT40-KHC16-80	JT40	16	38	80	TS4
JT40-KHC20-80	JT40	20	43	80	TS4
JT40-KHC25-80	JT40	25	57	80	TS5
JT40-KHC32-80	JT40	32	63	80	TS5
JT50-KHC12-90	JT50	12	34	90	TS4
JT50-KHC20-90	JT50	20	43	90	TS4
JT50-KHC32-115	JT50	32	63	115	TS5

Side-Locked Holders -BT40

JIS B
6339


Turning Insert

External Turning Holder

Internal Turning Holder

Grooving &
Parting

Milling

Threading

End Mill

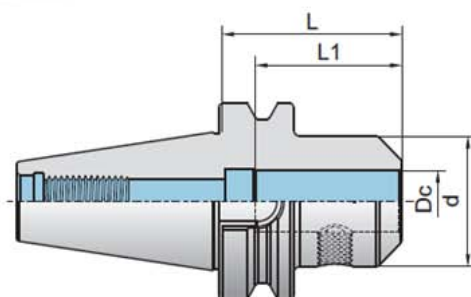
Drill & Tap

Drilling & Boring

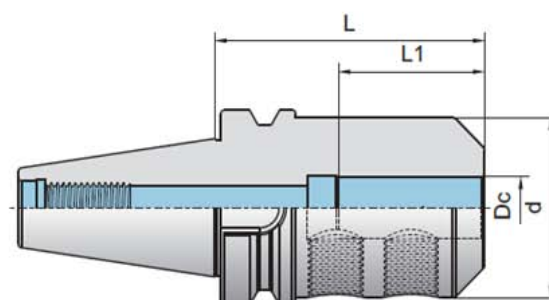
Tool Holder



Model I



Model II



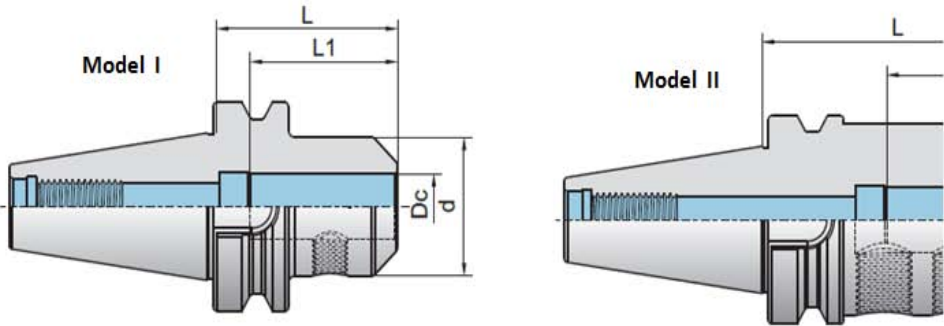
Type	Tapertype	Dimension				Screw 	Wrench 	Model	(kg)
		Dc	d	L1	L				
BT40-XP12-63	BT40	12	42	44	63	SXP12	S6	I	1.28
-100	BT40	12	42	44	100	SXP12	S6	I	1.35
BT40-XP16-63	BT40	16	48	47	63	SXP16	S6	I	1.38
-100	BT40	16	48	47	100	SXP16	S6	I	1.83
BT40-XP20-63	BT40	20	52	49	63	SXP20	S8	I	1.96
-100	BT40	20	52	49	100	SXP20	S8	I	2.21
BT40-XP25-90	BT40	25	65	54	90	SXP25	S8	II	2.62
-160	BT40	25	65	54	160	SXP25	S8	II	3.74
BT40-XP32-100	BT40	32	72	58	100	SXP32	S10	II	3.80
-160	BT40	32	72	58	160	SXP32	S10	II	3.96

Side-Locked Holders –BT50

JIS B
6339

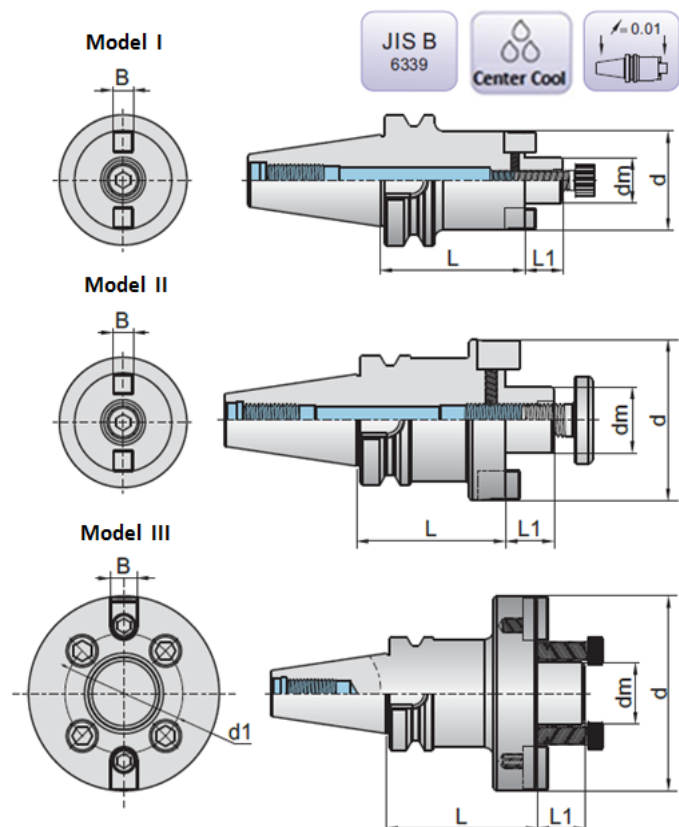
Ra 0.005

Center Cool



Type	Tapertype	Dimension				Screw 	Wrench 	Model	(kg)
		Dc	d	L1	L				
BT50-XP16-80	BT50	16	48	47	80	SXP16	S6	I	3.61
-100	BT50	16	48	47	100	SXP16	S6	I	3.83
BT50-XP20-80	BT50	20	52	49	80	SXP20	S8	I	3.75
-100	BT50	20	52	49	100	SXP20	S8	I	4.04
BT50-XP25-100	BT50	25	65	54	100	SXP25	S8	II	4.80
-160	BT50	25	65	54	160	SXP25	S8	II	6.21
BT50-XP32-105	BT50	32	72	58	105	SXP32	S10	II	5.13
-160	BT50	32	72	58	160	SXP32	S10	II	6.74
BT50-XP40-120	BT50	40	80	68	120	SXP40	S10	II	6.14
-160	BT50	40	80	68	160	SXP40	S10	II	7.80
BT50-XP50-120	BT50	50	90	77	125	SXP50	S12	II	6.06

Face Mill Holders- BT30/Bt40



Type	Taper type	Dimension						Screw	Wrench	Key	Model	(kg)
		dm	d	d1	B	L1	L					
BT30-XMA16-30	BT30	16	38	-	8	17	30	SCC080300	S6	KXMA16	I	0.48
-100	BT30	16	38	-	8	17	100	SCC080300	S6	KXMA16	I	1.07
BT30-XMA22-45	BT30	22	48	-	10	19	45	SCC100300	S8	KXMA22	I	0.08
-100	BT30	22	48	-	10	19	100	SCC100300	S8	KXMA22	I	1.35
BT30-XMA27-45	BT30	27	60	-	12	21	45	SCC120350	S10	KXMA27	I	0.94
-100	BT30	27	60	-	12	21	100	SCC120350	S10	KXMA27	I	1.55
BT40-XMA16-35	BT40	16	38	-	8	17	35	SCC080300	S6	KXMA16	I	1.11
-100	BT40	16	38	-	8	17	100	SCC080300	S6	KXMA16	I	1.62
-160	BT40	16	38	-	8	17	160	SCC080300	S6	KXMA16	I	2.10
BT40-XMA22-40	BT40	22	48	-	10	19	40	SCC100300	S8	KXMA22	I	1.20
-100	BT40	22	48	-	10	19	100	SCC100300	S8	KXMA22	I	2.02
-160	BT40	22	48	-	10	19	160	SCC100300	S8	KXMA22	I	2.80
BT40-XMA27-40	BT40	27	60	-	12	21	40	SCC120350	S10	KXMA27	I	1.34
-100	BT40	27	60	-	12	21	100	SCC120350	S10	KXMA27	I	2.60
-160	BT40	27	60	-	12	21	160	SCC120350	S10	KXMA27	I	3.88
BT40-XMB32-50	BT40	32	78	-	14	24	50	SXMB32	S12	KXMB32	II	1.95
-100	BT40	32	78	-	14	24	100	SXMB32	S12	KXMB32	II	3.01
-160	BT40	32	78	-	14	24	160	SXMB32	S12	KXMB32	II	4.25
BT40-XMB40-60	BT40	40	89	-	16	27	60	SXMB40	S14	KXMB40	II	2.56
-100	BT40	40	89	-	16	27	100	SXMB40	S14	KXMB40	II	3.42
BT40-XMC40-60	BT40	40	108	66.7	16	27	60	SCC120350	S10	KXMC40	III	3.01

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

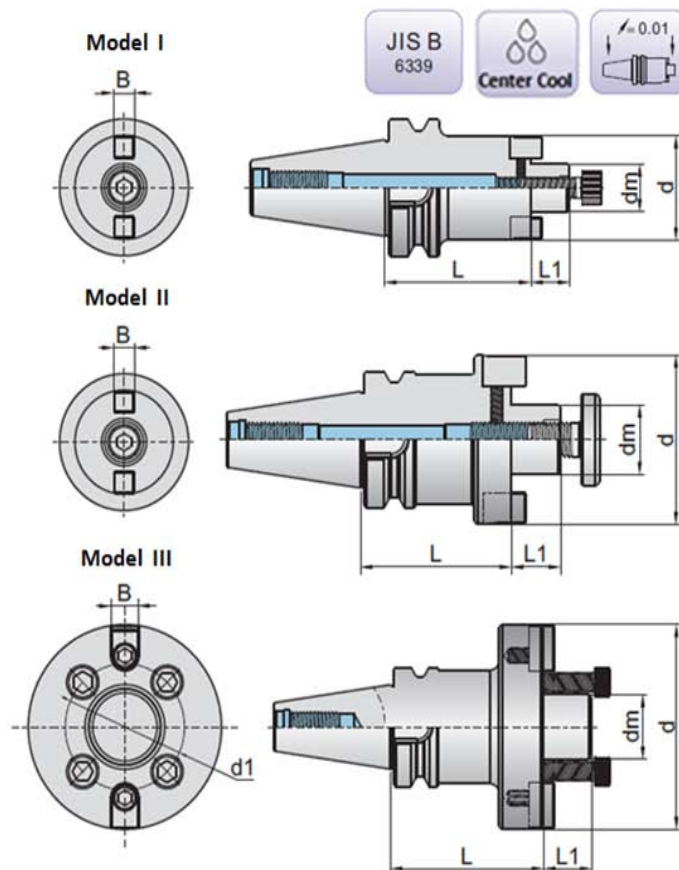
End Mill

Drill & Tap

Drilling & Boring

Tool Holder

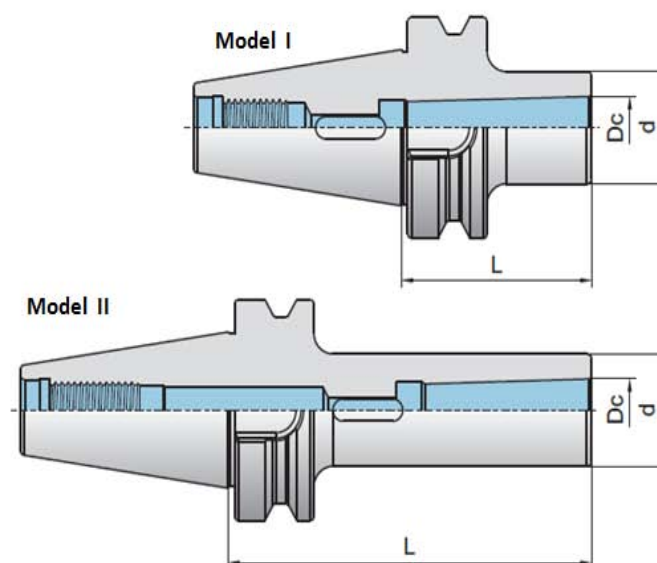
Face Mill Holders -BT50



Type	Taper type	Dimension						Screw	Wrench	Key	Model	(kg)
		dm	d	d1	B	L1	L					
BT50-XMA16-55	BT50	16	38	-	8	17	55	SCC080300	S6	KXMA16	I	3.65
-100	BT50	16	38	-	8	17	100	SCC080300	S6	KXMA16	I	4.06
-160	BT50	16	38	-	8	17	160	SCC080300	S6	KXMA16	I	4.62
BT50-XMA22-55	BT50	22	48	-	10	19	55	SCC100300	S8	KXMA22	I	3.83
-100	BT50	22	48	-	10	19	100	SCC100300	S8	KXMA22	I	4.45
-160	BT50	22	48	-	10	19	160	SCC100300	S8	KXMA22	I	5.36
BT50-XMA27-55	BT50	27	60	-	12	21	55	SCC120350	S10	KXMA27	I	4.10
-100	BT50	27	60	-	12	21	100	SCC120350	S10	KXMA27	I	5.15
-160	BT50	27	60	-	12	21	160	SCC120350	S10	KXMA27	I	6.20
BT50-XMB32-55	BT50	32	78	-	14	24	55	SXMB32	S12	KXMB32	II	4.36
-100	BT50	32	78	-	14	24	100	SXMB32	S12	KXMB32	II	5.96
-160	BT50	32	78	-	14	24	160	SXMB32	S12	KXMB32	II	7.98
BT50-XMB40-55	BT50	40	89	-	16	27	55	SXMB40	S14	KXMB40	II	4.71
-100	BT50	40	89	-	16	27	100	SXMB40	S14	KXMB40	II	5.65
-160	BT50	40	89	-	16	27	160	SXMB40	S14	KXMB40	II	9.59
BT50-XMC40-55	BT50	40	108	66.7	16	27	55	SCC120350	S10	KXMC40	III	4.75
BT50-XMC60-70	BT50	60	129	101.6	25.4	38	70	SCC160450	S14	KXMC60	III	7.74

Morse Taper Shank with Tang -BT30/BT40/BT50

-- For Drill Bit

DIN
69871

Type	Taper type	Morse taper	Dimension			Drill bit dia.	Model	(kg)
			Dc	d	L			
BT30-M1-45	BT30	MT1	12.065	25	45	3~14	I	0.43
BT30-M2-60	BT30	MT2	17.78	32	60	14.25~23	I	0.50
BT40-M1-50	BT40	MT1	12.065	25	50	3~14	I	1.02
-120	BT40	MT1	12.065	25	120	3~14	II	1.29
BT40-M2-50	BT40	MT2	17.78	32	50	14.25~23	I	1.01
-120	BT40	MT2	17.78	32	120	14.25~23	II	1.41
BT40-M3-70	BT40	MT3	23.825	40	70	23.25~31.75	I	1.15
-135	BT40	MT3	23.825	40	135	23.25~31.75	II	1.73
BT40-M4-95	BT40	MT4	31.267	50	95	32~50.5	I	1.43
-165	BT40	MT4	31.267	50	165	32~50.5	II	2.40
BT50-M1-45	BT50	MT1	12.065	25	45	3~14	I	3.60
-120	BT50	MT1	12.065	25	120	3~14	II	3.83
BT50-M2-60	BT50	MT2	17.78	32	60	14.25~23	I	3.63
-135	BT50	MT2	17.78	32	135	14.25~23	II	3.82
BT50-M3-65	BT50	MT3	23.825	40	65	23.25~31.75	I	3.40
-150	BT50	MT3	23.825	40	150	23.25~31.75	II	4.35
BT50-M4-95	BT50	MT4	31.267	50	95	32~50.5	I	3.85
-180	BT50	MT4	31.267	50	180	32~50.5	II	5.06
BT50-M5-110	BT50	MT5	44.399	70	110	51~76	I	4.17

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

End Mill

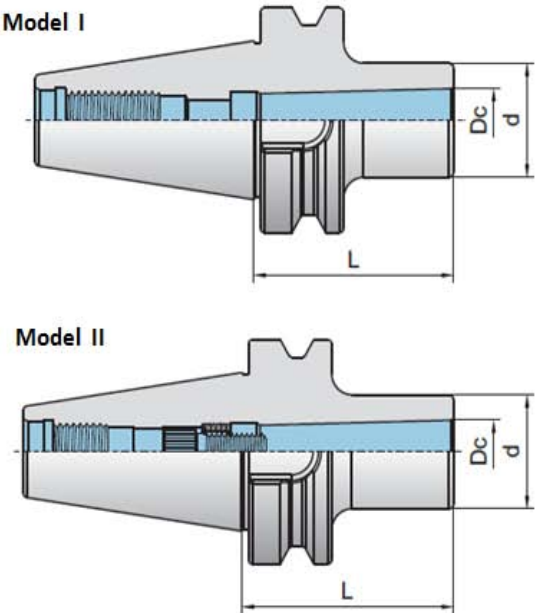
Drill & Tap

Drilling & Boring

Tool Holder

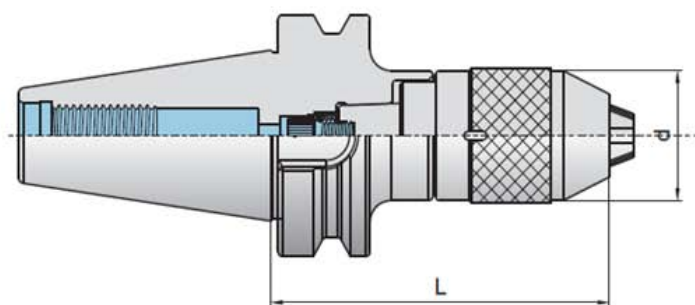
Morse Taper Shank without Tang-BT40/BT50

- For End Mills



Type	Taper type	Morse taper	Dimension			Screw	Wrench	Milling cutter dia.	Model	(kg)
			Dc	d	L					
BT40-MW1-50	BT40	MT1	12.065	27	50	SCC060250	S5	6~12	I	1.05
BT40-MW2-50	BT40	MT2	17.78	32	50	SCC100300A	S8	14~20	I	1.06
BT40-MW3-70	BT40	MT3	23.825	40	70	SCC120350A	S10	22~36	II	1.20
BT40-MW4-95	BT40	MT4	31.267	50	95	SCC160400B	S12	32~56	II	1.53
BT50-MW1-50	BT50	MT1	12.065	27	50	SCC060250	S5	6~12	I	3.62
BT50-MW2-60	BT50	MT2	17.78	32	60	SCC100300	S8	14~20	I	3.66
BT50-MW3-65	BT50	MT3	23.825	40	65	SCC120350	S10	22~36	I	3.80
BT50-MW4-70	BT50	MT4	31.267	50	70	SCC160400A	S14	32~56	I	3.71
BT50-MW5-105	BT50	MT5	44.399	78	105	SCC200450A	S17	40~71	II	4.86

Integral Drill Chucks -BT30/BT40/BT50

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Type	Taper type	Dimension		Holding range	Wrench 	(kg)
		d	L			
BT30-KPU08-75	BT30	37.5	75	0.5~8	WKPU08	0.89
BT40-KPU08-80	BT40	37.5	80	0.5~8	WKPU08	1.28
BT40-KPU13-95	BT40	50.5	95	0.5~13	WKPU13	1.75
-150	BT40	50.5	150	0.5~13	WKPU13	2.47
BT40-KPU16-100	BT40	57	100	3~16	WKPU16	2.02
-150	BT40	57	150	3~16	WKPU16	2.87
BT50-KPU08-90	BT50	37.5	90	0.5~8	WKPU08	3.79
BT50-KPU13-105	BT50	50.5	105	0.5~13	WKPU13	4.35
-180	BT50	50.5	180	0.5~13	WKPU13	5.25
BT50-KPU16-110	BT50	57	110	3~16	WKPU16	4.61
-180	BT50	57	180	3~16	WKPU16	5.73

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

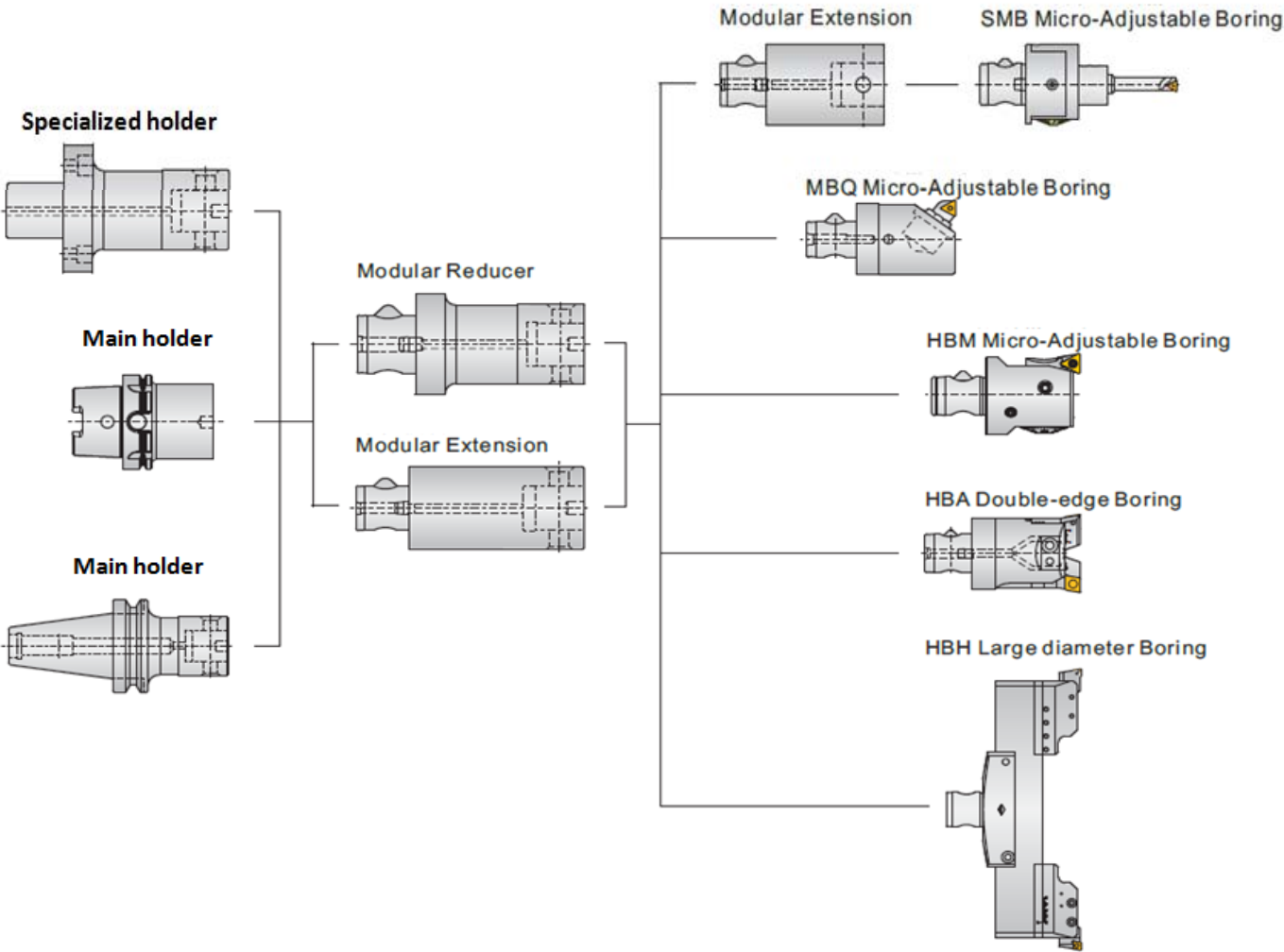
End Mill

Drill & Tap

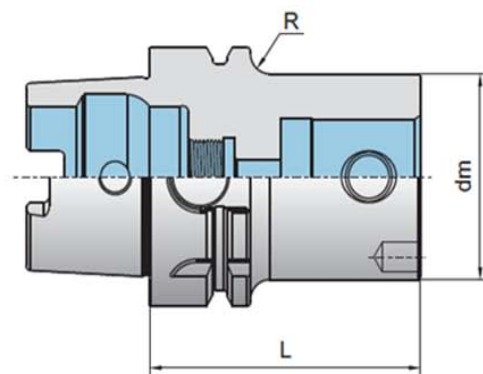
Drilling & Boring

Tool Holder

TMG21 Module Tool System Configuration Diagram



TMG21 Module Main Holder- HSK63A



Type	Taper type	Dimension			Outer taper screw	Wrench	Inner taper screw	Wrench
		dm	L	R				
21A.HSK63A.25-50	HSK63A	25	50	8	21A25-E1	S3	21A25-E2	S2
-100	HSK63A	25	100	8	21A25-E1	S3	21A25-E2	S2
-130	HSK63A	25	130	8	21A25-E1	S3	21A25-E2	S2
21A.HSK63A.32-50	HSK63A	32	50	4	21A32-E1	S4	21A32-E2	S2.5
-85	HSK63A	32	85	10	21A32-E1	S4	21A32-E2	S2.5
-110	HSK63A	32	110	8	21A32-E1	S4	21A32-E2	S2.5
-140	HSK63A	32	140	8	21A32-E1	S4	21A32-E2	S2.5
21A.HSK63A.40-60	HSK63A	40	60	6	21A40-E1	S5	21A40-E2	S3
-90	HSK63A	40	90	6	21A40-E1	S5	21A40-E2	S3
-120	HSK63A	40	120	6	21A40-E1	S5	21A40-E2	S3
-150	HSK63A	40	150	6	21A40-E1	S5	21A40-E2	S3
21A.HSK63A.50-70	HSK63A	50	70	-	21A50-E1	S6	21A50-E2	S4
-95	HSK63A	50	95	-	21A50-E1	S6	21A50-E2	S4
-125	HSK63A	50	125	-	21A50-E1	S6	21A50-E2	S4
-165	HSK63A	50	165	-	21A50-E1	S6	21A50-E2	S4
21A.HSK63A.63-80	HSK63A	63	80	-	21A63-E1	S8	21A63-E2	S5
-105	HSK63A	63	105	-	21A63-E1	S8	21A63-E2	S5
-145	HSK63A	63	145	-	21A63-E1	S8	21A63-E2	S5
-180	HSK63A	63	180	-	21A63-E1	S8	21A63-E2	S5
21A.HSK63A.80-100	HSK63A	80	100	-	21A80-E1	S10	21A80-E2	S6

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

End Mill

Drill & Tap

Drilling & Boring

Tool Holder

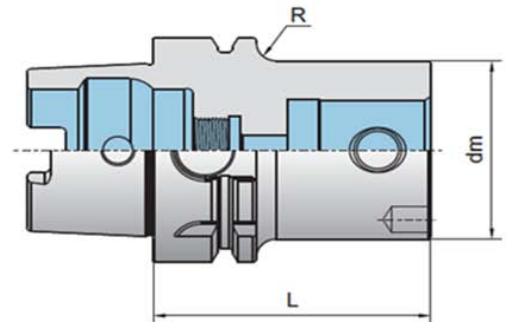
TMG21 Module Main Holder-HSK100A

DIN
69893

Form
A

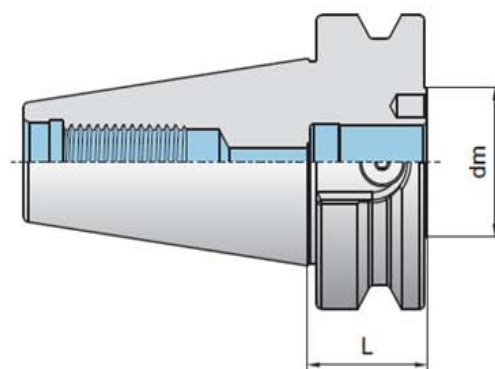
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Center Cool



Type	Taper type	Dimension			Outer taper screw 	Wrench 	Inner taper screw 	Wrench 
		dm	L	R				
21A.HSK100A.25-60	HSK100A	25	60	-	21A25-E1	S3	21A25-E2	S2
-100	HSK100A	25	100	-	21A25-E1	S3	21A25-E2	S2
-125	HSK100A	25	125	-	21A25-E1	S3	21A25-E2	S2
-150	HSK100A	25	150	-	21A25-E1	S3	21A25-E2	S2
21A.HSK100A.32-60	HSK100A	32	60	-	21A32-E1	S4	21A32-E2	S2.5
-100	HSK100A	32	100	-	21A32-E1	S4	21A32-E2	S2.5
-130	HSK100A	32	130	-	21A32-E1	S4	21A32-E2	S2.5
-160	HSK100A	32	160	-	21A32-E1	S4	21A32-E2	S2.5
-190	HSK100A	32	190	-	21A32-E1	S4	21A32-E2	S2.5
21A.HSK100A.40-80	HSK100A	40	80	12	21A40-E1	S5	21A40-E2	S3
-105	HSK100A	40	105	16	21A40-E1	S5	21A40-E2	S3
-140	HSK100A	40	140	16	21A40-E1	S5	21A40-E2	S3
-175	HSK100A	40	175	16	21A40-E1	S5	21A40-E2	S3
-210	HSK100A	40	210	16	21A40-E1	S5	21A40-E2	S3
21A.HSK100A.50-80	HSK100A	50	80	12	21A50-E1	S6	21A50-E2	S4
-105	HSK100A	50	105	16	21A50-E1	S6	21A50-E2	S4
-145	HSK100A	50	145	16	21A50-E1	S6	21A50-E2	S4
-185	HSK100A	50	185	16	21A50-E1	S6	21A50-E2	S4
-230	HSK100A	50	230	16	21A50-E1	S6	21A50-E2	S4
-280	HSK100A	50	280	16	21A50-E1	S6	21A50-E2	S4
21A.HSK100A.63-80	HSK100A	63	80	12	21A63-E1	S8	21A63-E2	S5
-120	HSK100A	63	120	12	21A63-E1	S8	21A63-E2	S5
-165	HSK100A	63	165	12	21A63-E1	S8	21A63-E2	S5
-210	HSK100A	63	210	12	21A63-E1	S8	21A63-E2	S5
-260	HSK100A	63	260	12	21A63-E1	S8	21A63-E2	S5
-310	HSK100A	63	310	12	21A63-E1	S8	21A63-E2	S5
-360	HSK100A	63	360	12	21A63-E1	S8	21A63-E2	S5
21A.HSK100A.80-90	HSK100A	80	90	4	21A80-E1	S10	21A80-E2	S6
-175	HSK100A	80	175	4	21A80-E1	S10	21A80-E2	S6
-235	HSK100A	80	235	4	21A80-E1	S10	21A80-E2	S6
-300	HSK100A	80	300	4	21A80-E1	S10	21A80-E2	S6
-380	HSK100A	80	380	4	21A80-E1	S10	21A80-E2	S6
21A.HSK100A.100-100	HSK100A	100	100	-	21A100-E1	S12	21A100-E2	S8
-200	HSK100A	100	200	-	21A100-E1	S12	21A100-E2	S8

TMG21 Module Main Holder- BT40/BT50

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Type	Taper type	Dimension		Outer taper screw 	Wrench 	Inner taper screw 	Wrench 	(kg)
		dm	L					
21A.BT40.25-27.5	BT40	25	27.5	21A25-E1	S3	21A25-E2	S2	0.96
21A.BT40.32-27.5	BT40	32	27.5	21A32-E1	S4	21A32-E2	S2.5	0.95
21A.BT40.40-27.5	BT40	40	27.5	21A40-E1	S5	21A40-E2	S3	0.9
21A.BT50.32-38.5	BT50	32	38.5	21A32-E1	S4	21A32-E2	S2.5	3.54
21A.BT50.40-38.5	BT50	40	38.5	21A40-E1	S5	21A40-E2	S3	3.5
21A.BT50.50-38.5	BT50	50	38.5	21A50-E1	S6	21A50-E2	S4	3.39
21A.BT50.63-38.5	BT50	63	38.5	21A63-E1	S8	21A63-E2	S5	3.28

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

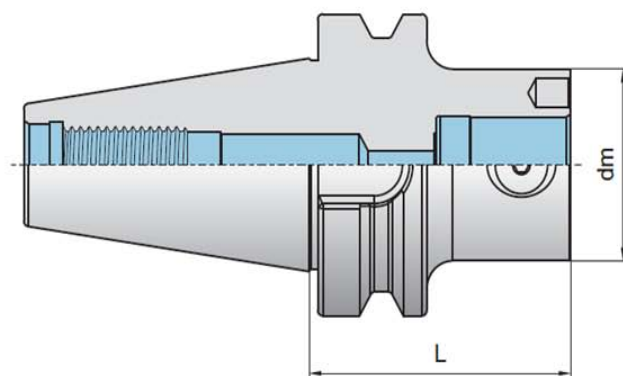
End Mill

Drill & Tap

Drilling & Boring

Tool Holder

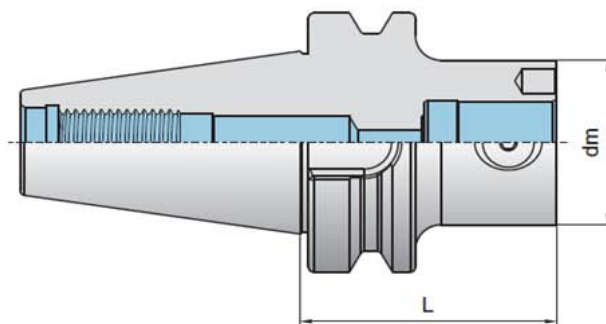
TMG21 Modular Main Holder- BT30/BT40



Type	Taper type	Dimension		Outer taper screw 	Wrench 	Inner taper screw 	Wrench 	(kg)
		dm	L					
21A.BT30.25-40	BT30	25	40	21A25-E1	S3	21A25-E2	S2	0.42
21A.BT30.32-50	BT30	32	50	21A32-E1	S4	21A32-E2	S2.5	0.51
21A.BT30.40-50	BT30	40	50	21A40-E1	S5	21A40-E2	S3	0.57
21A.BT40.25-60	BT40	25	60	21A25-E1	S3	21A25-E2	S2	1.05
-100	BT40	25	100	21A25-E1	S3	21A25-E2	S2	1.22
-130	BT40	25	130	21A25-E1	S3	21A25-E2	S2	1.38
21A.BT40.32-60	BT40	32	60	21A32-E1	S4	21A32-E2	S2.5	1.1
-85	BT40	32	85	21A32-E1	S4	21A32-E2	S2.5	1.24
-110	BT40	32	110	21A32-E1	S4	21A32-E2	S2.5	1.43
-140	BT40	32	140	21A32-E1	S4	21A32-E2	S2.5	1.61
21A.BT40.40-60	BT40	40	60	21A40-E1	S5	21A40-E2	S3	1.2
-90	BT40	40	90	21A40-E1	S5	21A40-E2	S3	1.47
-120	BT40	40	120	21A40-E1	S5	21A40-E2	S3	1.75
-150	BT40	40	150	21A40-E1	S5	21A40-E2	S3	2.02
21A.BT40.50-60	BT40	50	60	21A50-E1	S6	21A50-E2	S4	1.26
-95	BT40	50	95	21A50-E1	S6	21A50-E2	S4	1.74
-125	BT40	50	125	21A50-E1	S6	21A50-E2	S4	2.22
-165	BT40	50	165	21A50-E1	S6	21A50-E2	S4	2.7
21A.BT40.63-70	BT40	63	70	21A63-E1	S8	21A63-E2	S5	1.66
-105	BT40	63	105	21A63-E1	S8	21A63-E2	S5	2.41
-145	BT40	63	145	21A63-E1	S8	21A63-E2	S5	3.16
-180	BT40	63	180	21A63-E1	S8	21A63-E2	S5	3.97

TMG21Modular Main Holder- BT50

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Type	Taper type	Dimension		Outer taper screw 	Wrench 	Inner taper screw 	Wrench 	(kg)
		dm	L					
21A.BT50.25-70	BT50	25	70	21A25-E1	S3	21A25-E2	S2	3.6
-100	BT50	25	100	21A25-E1	S3	21A25-E2	S2	3.72
-125	BT50	25	125	21A25-E1	S3	21A25-E2	S2	3.87
-150	BT50	25	150	21A25-E1	S3	21A25-E2	S2	3.99
21A.BT50.32-70	BT50	32	70	21A32-E1	S4	21A32-E2	S2.5	3.67
-100	BT50	32	100	21A32-E1	S4	21A32-E2	S2.5	3.87
-130	BT50	32	130	21A32-E1	S4	21A32-E2	S2.5	4.07
-160	BT50	32	160	21A32-E1	S4	21A32-E2	S2.5	4.27
-190	BT50	32	190	21A32-E1	S4	21A32-E2	S2.5	4.47
21A.BT50.40-70	BT50	40	70	21A40-E1	S5	21A40-E2	S3	3.74
-105	BT50	40	105	21A40-E1	S5	21A40-E2	S3	4.09
-140	BT50	40	140	21A40-E1	S5	21A40-E2	S3	4.45
-175	BT50	40	175	21A40-E1	S5	21A40-E2	S3	4.8
-210	BT50	40	210	21A40-E1	S5	21A40-E2	S3	5.15
21A.BT50.50-70	BT50	50	70	21A50-E1	S6	21A50-E2	S4	4.7
-105	BT50	50	105	21A50-E1	S6	21A50-E2	S4	4.81
-145	BT50	50	145	21A50-E1	S6	21A50-E2	S4	4.92
-185	BT50	50	185	21A50-E1	S6	21A50-E2	S4	5.03
-230	BT50	50	230	21A50-E1	S6	21A50-E2	S4	5.14
-280	BT50	50	280	21A50-E1	S6	21A50-E2	S4	5.25
21A.BT50.63-80	BT50	63	80	21A63-E1	S8	21A63-E2	S5	4.22
-120	BT50	63	120	21A63-E1	S8	21A63-E2	S5	5.12
-165	BT50	63	165	21A63-E1	S8	21A63-E2	S5	6.17
-210	BT50	63	210	21A63-E1	S8	21A63-E2	S5	7.07
-260	BT50	63	260	21A63-E1	S8	21A63-E2	S5	7.92
-310	BT50	63	310	21A63-E1	S8	21A63-E2	S5	8.84
-360	BT50	63	360	21A63-E1	S8	21A63-E2	S5	9.71
21A.BT50.80-100	BT50	80	100	21A80-E1	S10	21A80-E2	S6	5.28
-175	BT50	80	175	21A80-E1	S10	21A80-E2	S6	8.03
-235	BT50	80	235	21A80-E1	S10	21A80-E2	S6	10.78
-300	BT50	80	300	21A80-E1	S10	21A80-E2	S6	13.53
-380	BT50	80	380	21A80-E1	S10	21A80-E2	S6	16.38
21A.BT50.100-110	BT50	100	110	21A100-E1	S12	21A100-E2	S8	6.54
-200	BT50	100	200	21A100-E1	S12	21A100-E2	S8	11.31

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

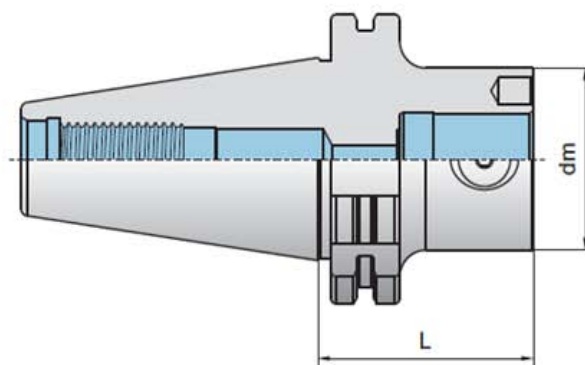
End Mill

Drill & Tap

Drilling & Boring

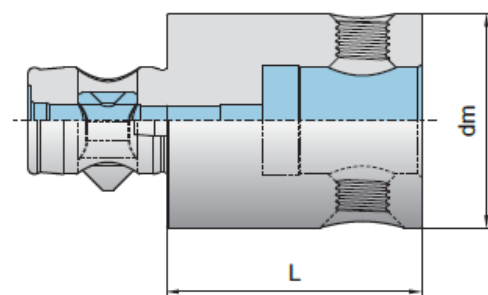
Tool Holder

TMG21 Modular Main Holder - JT40/JT50



Type	Taper type	Dimension		Outer taper screw 	Wrench 	Inner taper screw 	Wrench 	(kg)
		dm	L					
21A.JT40.25-50	JT40	25	50	21A25-E1	S3	21A25-E2	S2	0.88
-95	JT40	25	95	21A25-E1	S3	21A25-E2	S2	1.09
21A.JT40.32-50	JT40	32	50	21A32-E1	S4	21A32-E2	S2.5	0.94
-100	JT40	32	100	21A32-E1	S4	21A32-E2	S2.5	1.25
21A.JT40.40-50	JT40	40	50	21A40-E1	S5	21A40-E2	S3	1.01
-110	JT40	40	110	21A40-E1	S5	21A40-E2	S3	1.59
21A.JT40.50-50	JT40	50	50	21A50-E1	S6	21A50-E2	S4	1.1
-115	JT40	50	115	21A50-E1	S6	21A50-E2	S4	1.98
21A.JT40.63-90	JT40	63	90	21A63-E1	S8	21A63-E2	S5	2
-175	JT40	63	175	21A63-E1	S8	21A63-E2	S5	3.19
21A.JT50.25-60	JT50	25	60	21A25-E1	S3	21A25-E2	S2	2.67
-105	JT50	25	105	21A25-E1	S3	21A25-E2	S2	2.9
21A.JT50.32-60	JT50	32	60	21A32-E1	S4	21A32-E2	S2.5	2.76
-110	JT50	32	110	21A32-E1	S4	21A32-E2	S2.5	3.1
21A.JT50.40-60	JT50	40	60	21A40-E1	S5	21A40-E2	S3	2.86
-120	JT50	40	120	21A40-E1	S5	21A40-E2	S3	3.54
21A.JT50.50-60	JT50	50	60	21A50-E1	S6	21A50-E2	S4	3
-125	JT50	50	125	21A50-E1	S6	21A50-E2	S4	3.96
21A.JT50.63-60	JT50	63	60	21A63-E1	S8	21A63-E2	S5	3.24
-145	JT50	63	145	21A63-E1	S8	21A63-E2	S5	5.15
21A.JT50.80-70	JT50	80	70	21A80-E1	S10	21A80-E2	S6	3.86
-155	JT50	80	155	21A80-E1	S10	21A80-E2	S6	6.99
21A.JT50.100-115	JT50	100	115	21A100-E1	S12	21A100-E2	S8	6.59
-200	JT50	100	200	21A100-E1	S12	21A100-E2	S8	9.77
21A.JT50.125-145	JT50	125	145	21A125-E1	S14	21A125-E2	S10	7.62

Modular Extension



Dimension		Outertaperscrew	Wrench	Innertaperscrew	Wrench	Slide pin	Location pin	Coolanthose	
dm	L								(kg)
25	45	21A25-E1	S3	21A25-E2	S2	21A25-E3	21A25-E4	21A25-E6	0.19
25	60	21A25-E1	S3	21A25-E2	S2	21A25-E3	21A25-E4	21A25-E6	0.22
32	35	21A32-E1	S4	21A32-E2	S2.5	21A32-E3	21A32-E4	21A32-E6	0.21
32	50	21A32-E1	S4	21A32-E2	S2.5	21A32-E3	21A32-E4	21A32-E6	0.3
32	70	21A32-E1	S4	21A32-E2	S2.5	21A32-E3	21A32-E4	21A32-E6	0.42
40	40	21A40-E1	S5	21A40-E2	S3	21A40-E3	21A40-E4	21A40-E6	0.37
40	60	21A40-E1	S5	21A40-E2	S3	21A40-E3	21A40-E4	21A40-E6	0.56
40	90	21A40-E1	S5	21A40-E2	S3	21A40-E3	21A40-E4	21A40-E6	0.86
50	50	21A50-E1	S6	21A50-E2	S4	21A50-E3	21A50-E4	21A50-E6	0.72
50	65	21A50-E1	S6	21A50-E2	S4	21A50-E3	21A50-E4	21A50-E6	0.95
50	100	21A50-E1	S6	21A50-E2	S4	21A50-E3	21A50-E4	21A50-E6	1.47
50	150	21A50-E1	S6	21A50-E2	S4	21A50-E3	21A50-E4	21A50-E6	2.23
63	60	21A63-E1	S8	21A63-E2	S5	21A50-E3	21A63-E4	21A63-E6	1.38
63	85	21A63-E1	S8	21A63-E2	S5	21A63-E3	21A63-E4	21A63-E6	1.98
63	125	21A63-E1	S8	21A63-E2	S5	21A63-E3	21A63-E4	21A63-E6	2.93
63	190	21A63-E1	S8	21A63-E2	S5	21A63-E3	21A63-E4	21A63-E6	4.98
80	70	21A80-E1	S10	21A80-E2	S6	21A80-E3	21A80-E4	21A80-E6	2.59
80	85	21A80-E1	S10	21A80-E2	S6	21A80-E3	21A80-E4	21A80-E6	3.16
80	125	21A80-E1	S10	21A80-E2	S6	21A80-E3	21A80-E4	21A80-E6	4.69
80	240	21A80-E1	S10	21A80-E2	S6	21A80-E3	21A80-E4	21A80-E6	9.13
100	85	21A100-E1	S12	21A100-E2	S8	21A100-E3	21A100-E4	21A100-E6	4.91
100	125	21A100-E1	S12	21A100-E2	S8	21A100-E3	21A100-E4	21A100-E6	7.32
100	160	21A100-E1	S12	21A100-E2	S8	21A100-E3	21A100-E4	21A100-E6	9.43
125	160	21A125-E1	S14	21A125-E2	S10	21A125-E3	21A125-E4	21A125-E6	14.7
125	200	21A125-E1	S14	21A125-E2	S10	21A125-E3	21A125-E4	21A125-E6	18.46

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

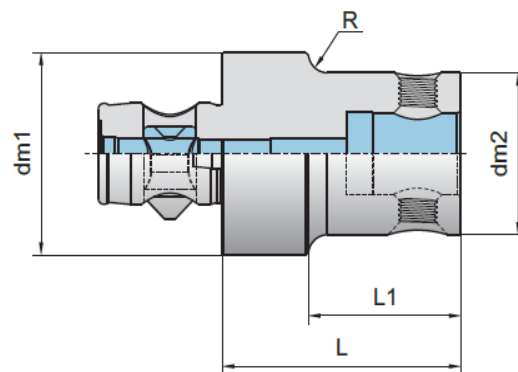
End Mill

Drill & Tap

Drilling & Boring

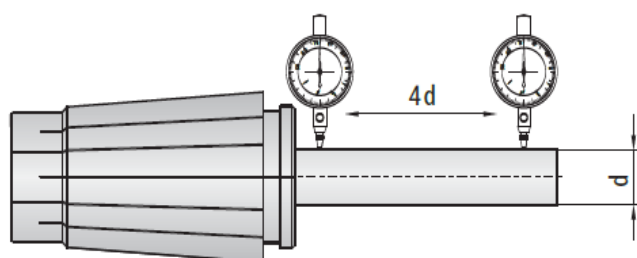
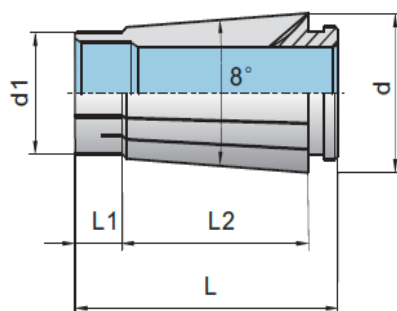
Tool Holder

Modular Reducer



Type	Dimension					Outer taper screw	Wrench	Inner taper screw	Wrench	Slide pin	Location pin	Coolant hose	(kg)
	dm1	dm2	L1	L	R								
21B.32/25-40	32	25	30	40	2	21A25-E1	S3	21A25-E2	S2	21A32-E3	21A32-E4	21A32-E6	0.18
21B.40/25-40	40	25	28	40	6	21A25-E1	S3	21A25-E2	S2	21A40-E3	21A40-E4	21A40-E6	0.26
21B.40/32-40	40	32	28	40	2	21A32-E1	S4	21A32-E2	S2.5	21A40-E3	21A40-E4	21A40-E6	0.3
21B.50/25-50	50	25	35	50	8	21A25-E1	S3	21A25-E2	S2	21A50-E3	21A50-E4	21A50-E6	0.49
21B.50/32-50	50	32	35	50	6	21A32-E1	S4	21A32-E2	S2.5	21A50-E3	21A50-E4	21A50-E6	0.54
21B.50/40-50	50	40	35	50	4	21A40-E1	S5	21A40-E2	S3	21A50-E3	21A50-E4	21A50-E6	0.63
21B.63/25-60	63	25	40	60	10	21A25-E1	S3	21A25-E2	S2	21A63-E3	21A63-E4	21A63-E6	0.88
21B.63/32-60	63	32	40	60	10	21A32-E1	S4	21A32-E2	S2.5	21A63-E3	21A63-E4	21A63-E6	0.96
21B.63/40-60	63	40	40	60	10	21A40-E1	S5	21A40-E2	S3	21A63-E3	21A63-E4	21A63-E6	1.05
21B.63/50-60	63	50	40	60	6	21A50-E1	S6	21A50-E2	S4	21A63-E3	21A63-E4	21A63-E6	1.17
21B.80/32-60	80	32	35	60	8	21A32-E1	S4	21A32-E2	S2.5	21A80-E3	21A80-E4	21A80-E6	1.56
21B.80/40-60	80	40	35	60	8	21A40-E1	S5	21A40-E2	S3	21A80-E3	21A80-E4	21A80-E6	1.67
21B.80/50-60	80	50	35	60	8	21A50-E1	S6	21A50-E2	S4	21A80-E3	21A80-E4	21A80-E6	1.78
21B.80/63-60	80	63	35	60	8	21A63-E1	S8	21A63-E2	S5	21A80-E3	21A80-E4	21A80-E6	1.98
21B.100/40-80	100	40	50	80	12	21A40-E1	S5	21A40-E2	S3	21A100-E3	21A100-E4	21A100-E6	2.99
21B.100/50-80	100	50	50	80	12	21A50-E1	S6	21A50-E2	S4	21A100-E3	21A100-E4	21A100-E6	3.18
21B.100/63-80	100	63	50	80	12	21A63-E1	S8	21A63-E2	S5	21A100-E3	21A100-E4	21A100-E6	3.58
21B.100/80-80	100	80	50	80	8	21A80-E1	S10	21A80-E2	S6	21A100-E3	21A100-E4	21A100-E6	4.03
21B.125/40-100	125	40	50	100	16	21A40-E1	S5	21A40-E2	S3	21A125-E3	21A125-E4	21A125-E6	5.6
21B.125/50-100	125	50	50	100	16	21A50-E1	S6	21A50-E2	S4	21A125-E3	21A125-E4	21A125-E6	5.88
21B.125/63-100	125	63	50	100	16	21A63-E1	S8	21A63-E2	S5	21A125-E3	21A125-E4	21A125-E6	6.37
21B.125/80-100	125	80	50	100	16	21A80-E1	S10	21A80-E2	S6	21A125-E3	21A125-E4	21A125-E6	7.07
21B.125/100-100	125	100	50	100	10	21A100-E1	S12	21A100-E2	S8	21A125-E3	21A125-E4	21A125-E6	7.91

SK Collet



Model	Holding Dia.	Radial Run Out			Dimension (mm)				
		Precision A	Precision B	Precision C	d	d1	L	L1	L2
SK06-2	1.8- 2.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK06-3	2.8- 3.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK06-4	3.5- 4.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK06-5	4.5- 5.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK06-6	5.5- 6.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK10-2	1.75- 2.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-3	2.75- 3.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-4	3.5- 4.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-5	4.5- 5.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-6	5.5- 6.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-8	7.5- 8.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-9	8.5- 9.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-10	9.5- 10.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK16-3	2.75- 3.0	0.01	0.005	0.003	24.6	18.8	45	8	32
Sk16-4	3.5- 4.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-5	4.5- 5.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-6	5.5- 6.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-8	7.5- 8.0	0.01	0.005	0.003	24.6	18.8	45	8	32
Sk16-9	8.5- 9.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-10	9.5- 10.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-12	11.5- 12.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-14	13.5- 14.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-15	14.5- 15.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-16	15.5- 16.0	0.01	0.005	0.003	24.6	18.8	45	8	32

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

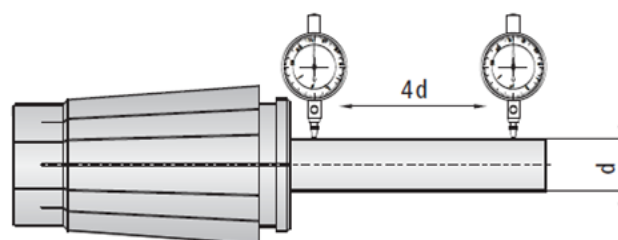
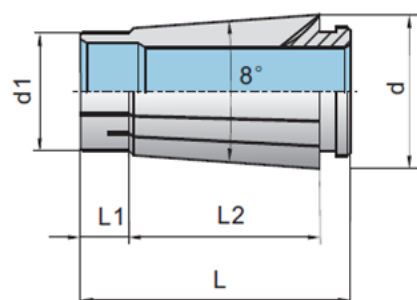
End Mill

Drill & Tap

Drilling & Boring

Tool Holder

SK Collet with Cooling



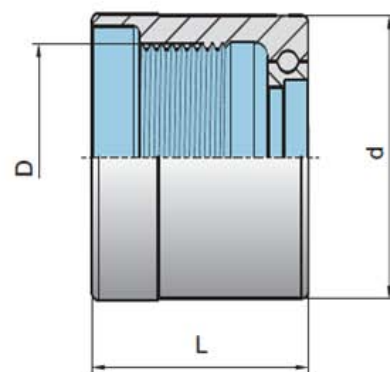
Model	Holding Dia.	Radial Run Out			Dimension (mm)				
		Precision A	Precision B	Precision C	d	d1	L	L1	L2
SK06-2C	1.8- 2.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK06-3C	2.8- 3.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK06-4C	3.5- 4.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK06-5C	4.5- 5.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK06-6C	5.5- 6.0	0.01	0.005	0.003	10.4	7.5	25	3.8	17.4
SK10-2C	1.75- 2.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-3C	2.75- 3.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-4C	3.5- 4.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-5C	4.5- 5.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-6C	5.5- 6.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-8C	7.5- 8.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-9C	8.5- 9.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK10-10C	9.5- 10.0	0.01	0.005	0.003	15.5	12	30.5	5	21.3
SK16-3C	2.75- 3.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-4C	3.5- 4.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-5C	4.5- 5.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-6C	5.5- 6.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-8C	7.5- 8.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-9C	8.5- 9.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-10C	9.5- 10.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-12C	11.5- 12.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-14C	13.5- 14.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-15C	14.5- 15.0	0.01	0.005	0.003	24.6	18.8	45	8	32
SK16-16C	15.5- 16.0	0.01	0.005	0.003	24.6	18.8	45	8	32

GSK Clamping Nut

High speed slotless GSK nut

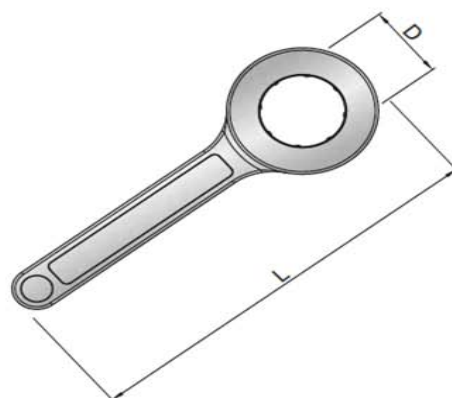
Precision machining, more stable accuracy

Smooth surface, comfortable feel, beautiful appearance



Model	Dimension(mm)			Collet
	D	d	L	
LN-GSK06	M 15.5x1	19.5	21.3	SK 06
LN-GSK10	M 22x1	27.1	25	SK 10
LN-GSK16	M 32x1.5	40	32	SK 16

GSK Wrench



Model	Dimension(mm)	
	D	L
WGSK06	19.5	120
WGSK10	27.1	135
WGSK16	40	180

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

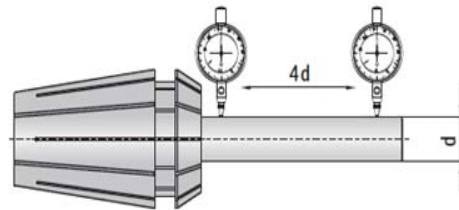
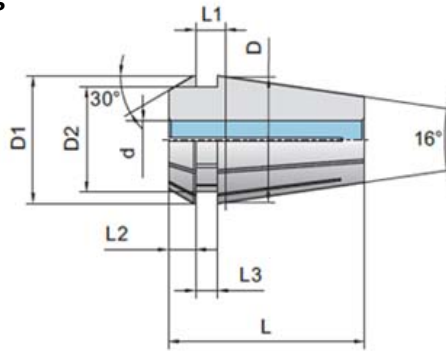
End Mill

Drill & Tap

Drilling & Boring

Tool Holder

ER Collet - Without Inner Cooling

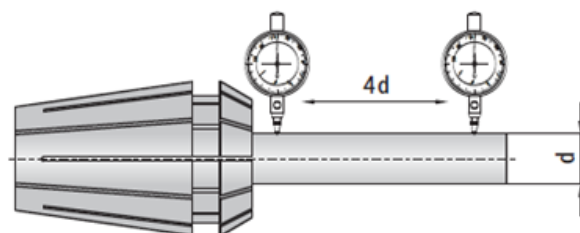
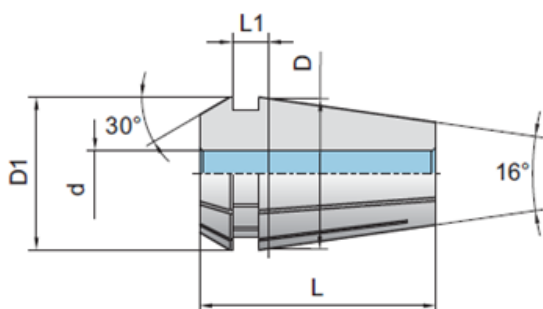


Chuckling dia.	Run out		
	Precision A	Precision B	Precision C
1.0~1.4	0.015	0.01	0.005
1.5~2.9	0.015	0.01	0.005
3.0~5.9	0.015	0.01	0.005
6.0~9.9	0.015	0.01	0.005
10.0~17.9	0.02	0.01	0.005
18.0~26.9	0.02	0.01	0.005
27.0~34.0	0.02	0.01	0.005

Type	d	D	D1	D2	L	L1	L2	L3	Elasticity range
ER11	1.0-7.0	11	11.5	9.5	18	3.8	2.5	2	0.5
ER16	1.0-2.5	16	17	13.8	27.5	6.26	4	2.7	0.5
	>2.5-10.0	16	17	13.8	27.5	6.26	4	2.7	1
ER20	1.0-2.5	20	21	17.4	31.5	6.36	4.8	2.8	0.5
	>2.5-13.0	20	21	17.4	31.5	6.36	4.8	2.8	1
ER25	1.0-2.5	25	26	22	34	6.66	5	3.1	0.5
	>2.5-16.0	25	26	22	34	6.66	5	3.1	1
ER32	2.0-2.5	32	33	29.2	40	7.16	5.5	3.6	0.5
	>2.5-10.0	32	33	29.2	40	7.16	5.5	3.6	1
ER40	3.0-26.0	40	41	36.2	46	7.66	7	4.1	1

ER11-*		ER16-*		ER20-*		ER25-*		ER32-*		ER40-*	
Type	Range	Type	Range	Type	Range	Type	Range	Type	Range	Type	Range
ER11-2	2-1.5	ER16-2	2-1.5	ER20-2	2-1.5	ER25-3	3-2	ER32-4	4-3	ER40-4	4-3
ER11-3	3-2.5	ER16-3	3-2	ER20-3	3-2	ER25-4	4-3	ER32-5	5-4	ER40-5	5-4
ER11-4	4-3.5	ER16-4	4-3	ER20-4	4-3	ER25-5	5-4	ER32-6	6-5	ER40-6	6-5
ER11-5	5-4.5	ER16-5	5-4	ER20-5	5-4	ER25-6	6-5	ER32-8	8-7	ER40-8	8-7
ER11-6	6-5.5	ER16-6	6-5	ER20-6	6-5	ER25-8	8-7	ER32-9	9-8	ER40-9	9-8
ER11-7	7-6.5	ER16-8	8-7	ER20-8	8-7	ER25-9	9-8	ER32-10	10-9	ER40-10	10-9
		ER16-9	9-8	ER20-9	9-8	ER25-10	10-9	ER32-12	12-11	ER40-12	12-11
		ER16-10	10-9	ER20-10	10-9	ER25-12	12-11	ER32-14	14-13	ER40-14	14-13
				ER20-12	12-11	ER25-14	14-13	ER32-15	15-14	ER40-15	15-14
						ER25-15	15-14	ER32-16	16-15	ER40-16	16-15
						ER25-16	16-15	ER32-18	18-17	ER40-18	18-17
								ER32-20	20-19	ER40-20	20-19
										ER40-21	21-20
										ER40-22	22-21
										ER40-24	24-23
										ER40-25	25-24
										ER40-26	26-25

ER Collet with Cooling



Type	d	D	D1	L	L1
ER11-°C	3~7	11	11.5	18	3.8
ER16-°C	3~6	16	17	27.5	6.26
	6~10	16	17	27.5	6.26
ER20-°C	3~6	20	21	31.5	6.36
	6~13	20	21	31.5	6.36
ER25-°C	3~6	25	26	34	6.66
	6~16	25	26	34	6.66
ER32-°C	3~8	32	33	40	7.16
	8~20	32	33	40	7.16
ER40-°C	4~10	40	41	46	7.66
	10~26	40	41	46	7.66

Chuckling dia.	Run out	
	General precision	High precision
1.0~1.4	0.015	0.01
1.5~2.9	0.015	0.01
3.0~5.9	0.015	0.01
6.0~9.9	0.015	0.01
10.0~17.9	0.02	0.01
18.0~26.9	0.02	0.01
27.0~34.0	0.02	0.01

ER11-°C		ER16-°C		ER20-°C		ER25-°C		ER32-°C		ER40-°C	
Type	Range	Type	Range	Type	Range	Type	Range	Type	Range	Type	Range
3C	3-2.9	3C	3-2.9	3C	3-2.9	3C	3-2.9	3C	3-2.9	4C	4-3.9
4C	4-3.9	4C	4-3.9	4C	4-3.9	4C	4-3.9	4C	4-3.9	5C	5-4.9
5C	5-4.9	5C	5-4.9	5C	5-4.9	5C	5-4.9	5C	5-4.9	6C	6-5.9
6C	6-5.9	6C	6-5.5	6C	6-5.5	6C	6-5.5	6C	6-5.9	8C	8-7.9
		8C	8-7.5	8C	8-7.5	8C	8-7.5	8C	8-7.5	9C	9-8.9
		9C	9-8.5	9C	9-8.5	9C	9-8.5	9C	9-8.5	10C	10-9.5
		10C	10-9.5	10C	10-9.5	10C	10-9.5	10C	10-9.5	12C	12-11.5
				12C	12-11.5	12C	12-11.5	12C	12-11.5	14C	14-13.5
						14C	14-13.5	14C	14-13.5	15C	15-14.5
						15C	15-14.5	15C	15-14.5	16C	16-15.5
						16C	16-15.5	16C	16-15.5	18C	18-17.5
								18C	18-17.5	20C	20-19.5
								20C	20-19.5	21C	21-20.5
										22C	22-21.5
										24C	24-23.5
										25C	25-24.5
										26C	26-25.5

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

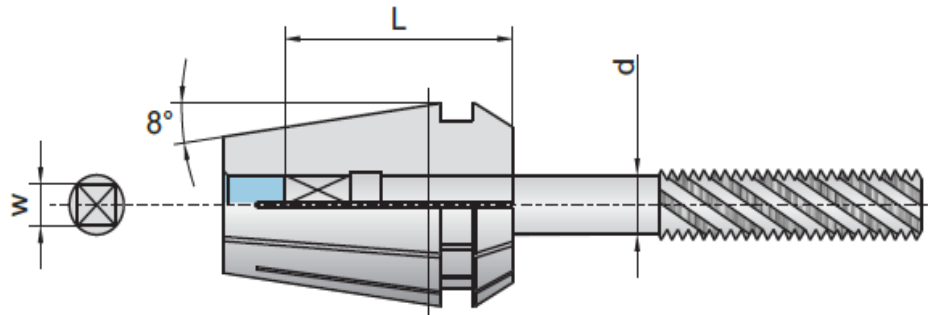
End Mill

Drill & Tap

Drilling & Boring

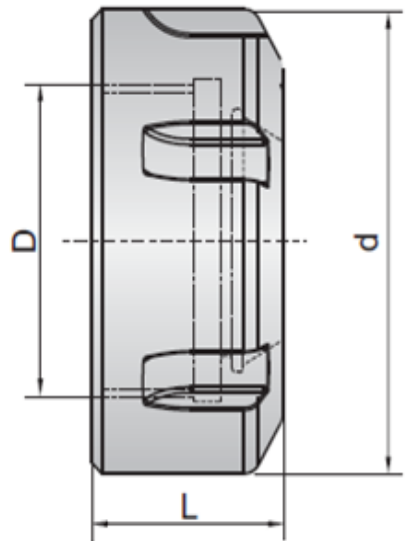
Tool Holder

ER Collet- Tapping



Type					d	W	L	TAP Standard	
ER16	ER20	ER25	ER32	ER40				ISO	JIS
ER16-2.24-B1.8	ER20-2.24-B1.8	ER25-2.24-B1.8	ER32-2.24-B1.8	ER40-2.24-B1.8	2.24	1.8	15	M3	
ER16-2.5-B2	ER20-2.5-B2	ER25-2.5-B2	ER32-2.5-B2	ER40-2.5-B2	2.5	2		M3.5	
ER16-3-B2.5	ER20-3-B2.5	ER25-3-B2.5	ER32-3-B2.5	ER40-3-B2.5	3	2.5			M2
ER16-3.15-B2.5	ER20-3.15-B2.5	ER25-3.15-B2.5	ER32-3.15-B2.5	ER40-3.15-B2.5	3.15	2.5	18	M3,M4	
ER16-3.55-B2.8	ER20-3.55-B2.8	ER25-3.55-B2.8	ER32-3.55-B2.8	ER40-3.55-B2.8	3.55	2.8		M3.5,M4.5	
ER16-4-B3.2	ER20-4-B3.2	ER25-4-B3.2	ER32-4-B3.2	ER40-4-B3.2	4	3.2			M3
ER16-4-B3.15	ER20-4-B3.15	ER25-4-B3.15	ER32-4-B3.15	ER40-4-B3.15	4	3.15		M4,M5	
ER16-4.5-B3.55	ER20-4.5-B3.55	ER25-4.5-B3.55	ER32-4.5-B3.55	ER40-4.5-B3.55	4.5	3.55		M6	
ER16-5-B4	ER20-5-B4	ER25-5-B4	ER32-5-B4	ER40-5-B4	5	4		M5	M4,M4.5
ER16-5.5-B4.5	ER20-5.5-B4.5	ER25-5.5-B4.5	ER32-5.5-B4.5	ER40-5.5-B4.5	5.5	4.5			M5,M5.5
ER16-6-B4.5	ER20-6-B4.5	ER25-6-B4.5	ER32-6-B4.5	ER40-6-B4.5	6	4.5			M6
ER16-6.2-B5	ER20-6.2-B5	ER25-6.2-B5	ER32-6.2-B5	ER40-6.2-B5	6.2	5			M7,M8
ER16-6.3-B5	ER20-6.3-B5	ER25-6.3-B5	ER32-6.3-B5	ER40-6.3-B5	6.3	5		M6,M8	
ER16-7-B5.5	ER20-7-B5.5	ER25-7-B5.5	ER32-7-B5.5	ER40-7-B5.5	7	5.5	22		M9,M10
ER16-8-B6	ER20-8-B6	ER25-8-B6	ER32-8-B6	ER40-8-B6	8	6			M11
ER16-8-B6.3	ER20-8-B6.3	ER25-8-B6.3	ER32-8-B6.3	ER40-8-B6.3	8	6.3		M8,M10	
ER16-8.5-B6.5	ER20-8.5-B6.5	ER25-8.5-B6.5	ER32-8.5-B6.5	ER40-8.5-B6.5	8.5	6.5			M12
ER16-9-B7.1	ER20-9-B7.1	ER25-9-B7.1	ER32-9-B7.1	ER40-9-B7.1	9	7.1	25	M12	
ER16-10-B8	ER20-10-B8	ER25-10-B8	ER32-10-B8	ER40-10-B8	10	8		M10	
	ER20-10.5-B8	ER25-10.5-B8	ER32-10.5-B8	ER40-10.5-B8	10.5	8			M14,M15
	ER20-11.2-B9	ER25-11.2-B9	ER32-11.2-B9	ER40-11.2-B9	11.2	9		M14	
	ER20-12.5-B10	ER25-12.5-B10	ER32-12.5-B10	ER40-12.5-B10	12.5	10	28	M16	M16
	ER20-13-B10	ER25-13-B10	ER32-13-B10	ER40-13-B10	13	10			M17
		ER25-14-B11	ER32-14-B11	ER40-14-B11	14	11			M18
		ER25-14-B11.2	ER32-14-B11.2	ER40-14-B11.2	14	11.2		M18,M20	
		ER25-15-B12	ER32-15-B12	ER40-15-B12	15	12	33		M20
		ER25-16-B12.5	ER32-16-B12.5	ER40-16-B12.5	16	12.5		M22	
			ER32-17-B13	ER40-17-B13	17	13			M22
			ER32-18-B14	ER40-18-B14	18	14		M24	
			ER32-19-B15	ER40-19-B15	19	15			M24,M25
			ER32-20-B15	ER40-20-B15	20	15			M26,M27

ER Nut



Type	Dimension			
	D	d	L	Apply for
LN11S	M14X0.75	19	11.3	ER11
LN16S	M22X1.5	28	17.5	ER16
LN20S	M25X1.5	34	19.0	ER20
LN25	M32X1.5	42	20.0	ER25
LN32	M40X1.5	50	22.5	ER32
LN40	M50X1.5	63	25.5	ER40
LN11M	M13X0.75	16	11.3	ER11
LN16M	M19X1.0	22	17.5	ER16
LN20M	M24X1.0	28	19	ER20

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

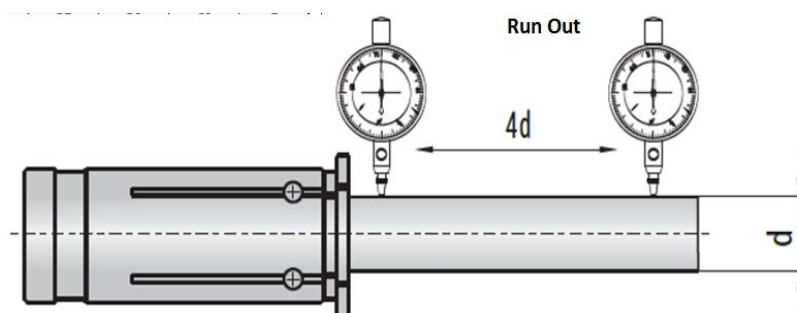
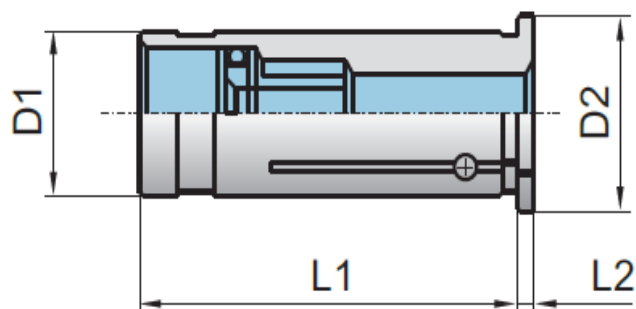
End Mill

Drill & Tap

Drilling & Boring

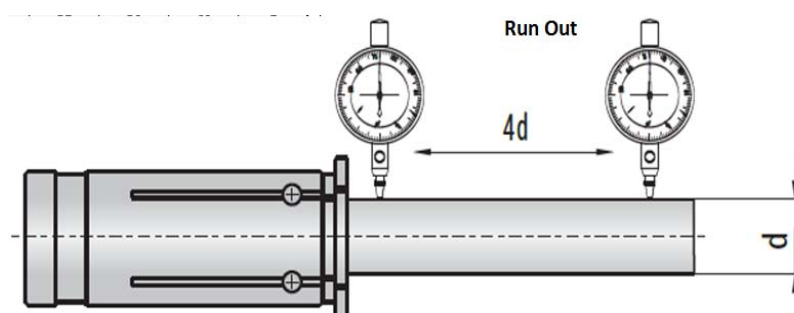
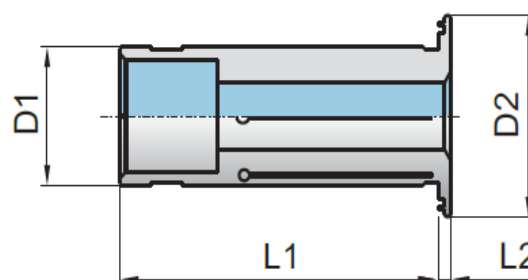
Tool Holder

Hydraulic Collet without cooling



Model	Holding Dia.	Radial Rou-out		D1	D2	L1	L2
		Presicion A	Presicion B				
HC12-3	3	0.005	0.003	12	16	45	2
HC12-4	4	0.005	0.003	12	16	45	2
HC12-5	5	0.005	0.003	12	16	45	2
HC12-6	6	0.005	0.003	12	16	45	2
HC12-7	7	0.005	0.003	12	16	45	2
HC12-8	8	0.005	0.003	12	16	45	2
HC20-3	3	0.005	0.003	20	24	50.5	2
HC20-4	4	0.005	0.003	20	24	50.5	2
HC20-5	5	0.005	0.003	20	24	50.5	2
HC20-6	6	0.005	0.003	20	24	50.5	2
HC20-7	7	0.005	0.003	20	24	50.5	2
HC20-8	8	0.005	0.003	20	24	50.5	2
HC20-9	9	0.005	0.003	20	24	50.5	2
HC20-10	10	0.005	0.003	20	24	50.5	2
HC20-11	11	0.005	0.003	20	24	50.5	2
HC20-12	12	0.005	0.003	20	24	50.5	2
HC20-13	13	0.005	0.003	20	24	50.5	2
HC20-14	14	0.005	0.003	20	24	50.5	2
HC20-15	15	0.005	0.003	20	24	50.5	2
HC20-16	16	0.005	0.003	20	24	50.5	2
HC32-6	6	0.005	0.003	32	36	60.5	3
HC32-8	8	0.005	0.003	32	36	60.5	3
HC32-10	10	0.005	0.003	32	36	60.5	3
HC32-12	12	0.005	0.003	32	36	60.5	3
HC32-14	14	0.005	0.003	32	36	60.5	3
HC32-16	16	0.005	0.003	32	36	60.5	3
HC32-18	18	0.005	0.003	32	36	60.5	3
HC32-20	20	0.005	0.003	32	36	60.5	3
HC32-25	25	0.005	0.003	32	36	60.5	3

Hydraulic Collet- With inner cooling



Model	Holding Dia.	Radial Run-out		D1	D2	L1	L2
		Precision A	Precision B				
HC12-3C	3	0.005	0.003	12	16	45	2
HC12-4C	4	0.005	0.003	12	16	45	2
HC12-5C	5	0.005	0.003	12	16	45	2
HC12-6C	6	0.005	0.003	12	16	45	2
HC12-7C	7	0.005	0.003	12	16	45	2
HC12-8C	8	0.005	0.003	12	16	45	2
HC20-3C	3	0.005	0.003	20	24	50.5	2
HC20-4C	4	0.005	0.003	20	24	50.5	2
HC20-5C	5	0.005	0.003	20	24	50.5	2
HC20-6C	6	0.005	0.003	20	24	50.5	2
HC20-7C	7	0.005	0.003	20	24	50.5	2
HC20-8C	8	0.005	0.003	20	24	50.5	2
HC20-9C	9	0.005	0.003	20	24	50.5	2
HC20-10C	10	0.005	0.003	20	24	50.5	2
HC20-11C	11	0.005	0.003	20	24	50.5	2
HC20-12C	12	0.005	0.003	20	24	50.5	2
HC20-13C	13	0.005	0.003	20	24	50.5	2
HC20-14C	14	0.005	0.003	20	24	50.5	2
HC20-15C	15	0.005	0.003	20	24	50.5	2
HC20-16C	16	0.005	0.003	20	24	50.5	2
HC32-6C	6	0.005	0.003	32	36	60.5	3
HC32-8C	8	0.005	0.003	32	36	60.5	3
HC32-10C	10	0.005	0.003	32	36	60.5	3
HC32-12C	12	0.005	0.003	32	36	60.5	3
HC32-14C	14	0.005	0.003	32	36	60.5	3
HC32-16C	16	0.005	0.003	32	36	60.5	3
HC32-18C	18	0.005	0.003	32	36	60.5	3
HC32-20C	20	0.005	0.003	32	36	60.5	3
HC32-25C	25	0.005	0.003	32	36	60.5	3

Turning Insert

External Turning Holder

Internal Turning Holder

Grooving & Parting

Milling

Threading

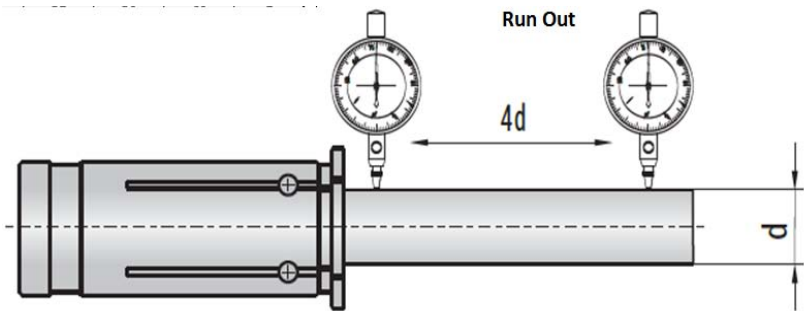
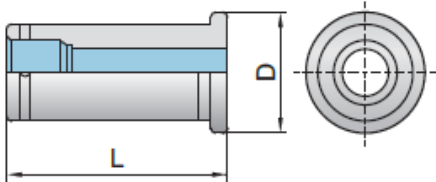
End Mill

Drill & Tap

Drilling & Boring

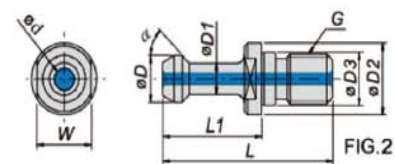
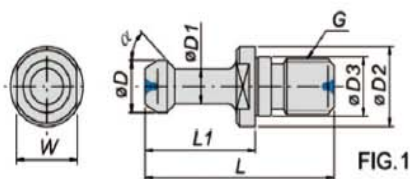
Tool Holder

Reinforced Collet



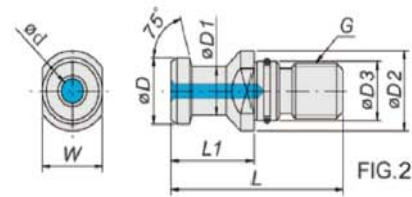
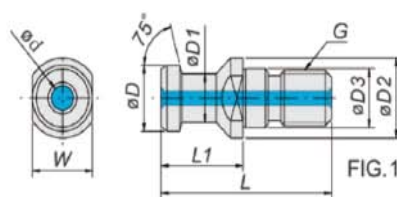
Model	Run Out (Presicion)	Holding Sizes (mm)	Dimension	
			D	L
C20-*	0.01	6,8,10,12,16	26	55.1
C25-*	0.01	6,8,10,12,16,20	30	63
C32-*	0.01	4,5,6,8,10,12,14,16,18,20,25	38	70
C42-*	0.01	6,8,10,12,16,20,25,32	48	75

BT Pull Studs



Ordering Code	Figure	D	D1	D2	D3	L	L1	a	G	W
BT30-45°	Fig.1	11	7	16.5	12.5	43	23	45°	M12	13
BT30-60°								60°		
BT40-45°		15	10	23	17	60	35	45°	M16	19
BT40-60°								60°		
BT40-90°								90°		
BT50-45°	Fig.2	23	17	38	25	85	45	45°	M24	30
BT50-60°								60°		
BT50-90°		15	10	23	17	60	35	45°	M16	19
BT40-45° -S								60°		
BT40-60° -S								90°		
BT40-90° -S	Fig.2	23	17	38	25	85	45	45°	M24	30
BT50-45° -S								60°		
BT50-60° -S								90°		
BT50-90° -S										

JT Pull Studs



Ordering Code	Figure	D	D1	D2	D3	d	L	L1	W	G
SK40-A	Fig.1	19	14	23	17	7	54	26	19	M16
SK50-A		28	21	36	25	11.5	74	34	30	M24
SK40-B	Fig.2	19	14	23	17	7	54	26	19	M16
SK50-B		28	21	36	25	11.5	74	34	30	M24