

Tooling System SERIES



CONTENTS

JIS B6339 BT

-----P1-P21



DIN69871 SK

-----P22-P35



DIN69893 HSK-A

-----P36-P54



ACCESSORY

-----P55-P84



Hydraulic Chuck



▶ **BT** P1-P4

▶ **SK** P22-P24

▶ **HSK** P36-P39

For drilling reaming, boring, milling and other cutting machining

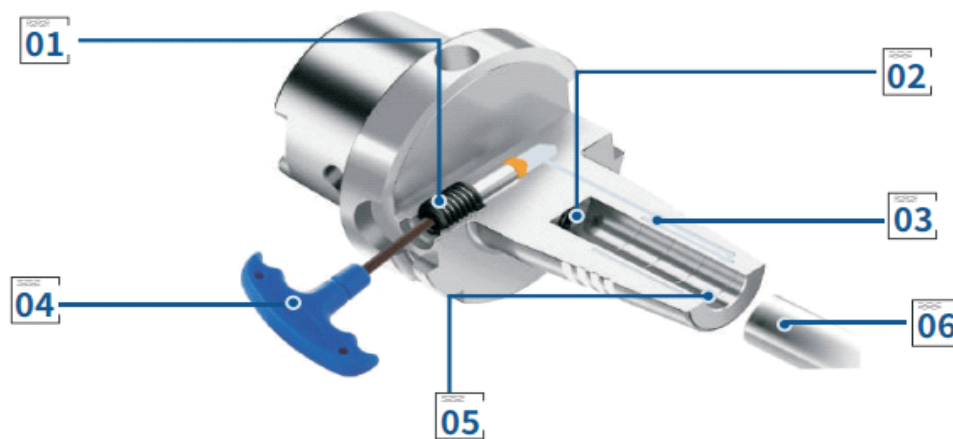
Coupling type: BT/HSK/SK

Runout $\leq 0.003\text{mm}$ at $2.5D$

Balancing Grade: G2.5 at 25,000 rpm or

$U_{\text{max}} < 1\text{g} \cdot \text{mm}$

Hydraulic Chuck Construction



01 Lock Screw

Tighten to locking screw to a dead stop.

04 Hex Key

To tighten locking screw for fast cutting tool change.

02 Adjust Screw

To preset cutting tools.

05 The Grooves

The large clamping pressure creates a displacement of oil, grease, or lubricant residues into the groove, so bore surfaces remains dry.

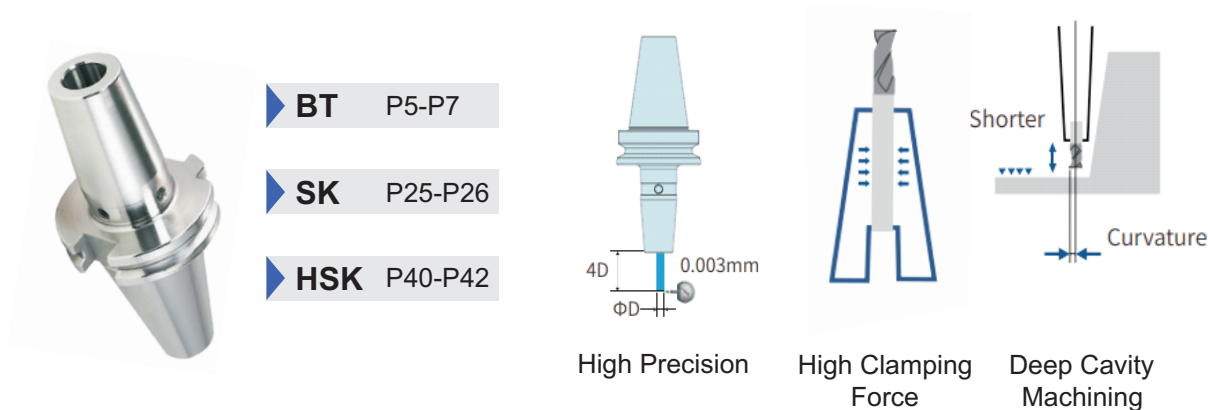
03 Expansion Sleeve and Chamber System

The chamber system fills with hydraulic fluid, exerting a damping effect on the clamped tool.

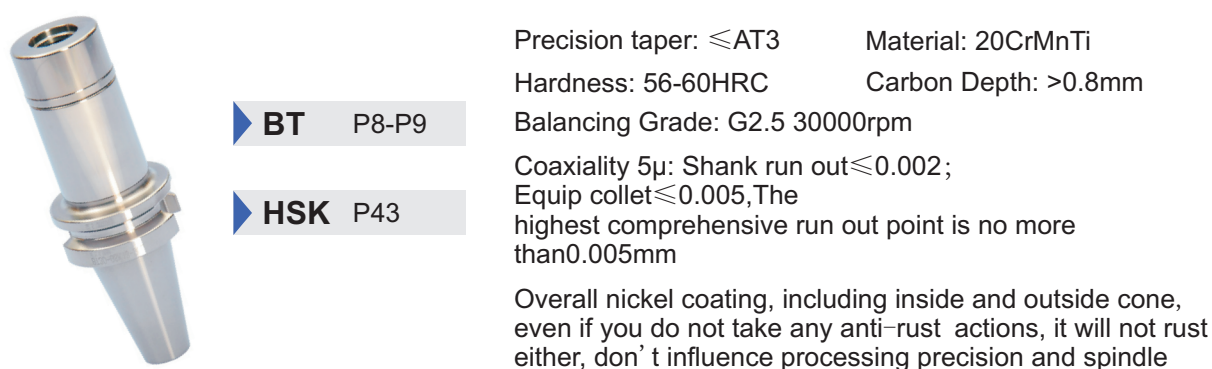
06 Cutting Tool

The cutting tool is clamped with high run-out.

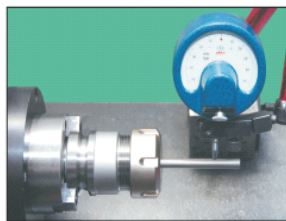
Shrink Fit Chuck



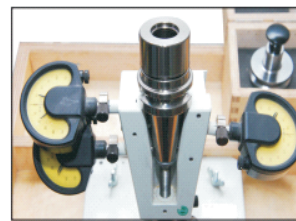
GSK High Speed Collet Chuck



Products Polish with chemical nickel coating



Inspection of coaxial degree (overall accuracy)



Picture of 7:24 taper inspection tool (German Diebold collet chuck inspection tool)



JIS B6339 BT

Hydraulic Chuck, Standard----- **P1-3**

Hydraulic Chuck, Power Design----- **P4**

Shrink Fit Chuck, 4.5° , Standard----- **P5-7**

BT-GSK High Speed Collet Chuck----- **P8-9**

BT-ER Collet Chuck----- **P10-12**

Power Milling Chuck----- **P13**

Face Mill Holder----- **P14-16**

Side Lock Holder----- **P17-18**

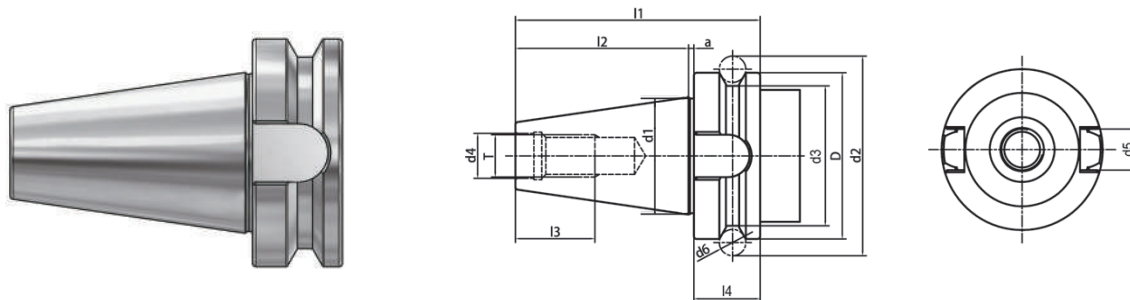
Morse Taper Adapter with Tang----- **P19**

APU Drill Chuck Holder----- **P20**

Precision Drill Chuck Holder----- **P20**

Runout Adjustable Flange Adapter----- **P21**

BT Taper Standard



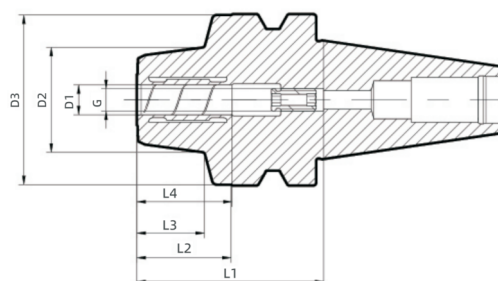
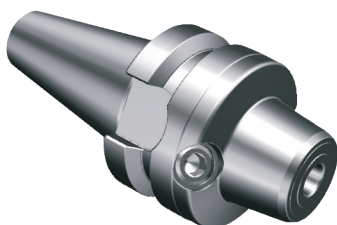
Unit:mm

Size	D	d1	d2	d3	d4	d5	d6	l1	l2	l3	l4	a	T
BT30	46	31.75	56.144	38	12.5	16.1	8	70.4	48.4	24	20	2	M12*1.75
BT40	63	44.45	75.679	53	17	16.1	10	92.4	65.4	30	25	2	M16*2.0
BT50	100	69.85	119.019	85	25	25.7	15	139.8	101.8	45	35	3	M24*3.0

Taper standard: JIS B 6339
 Material: Alloyed case hardened steel
 Surface Treatment: Blackening and Bright
 Taper tolerance:
 Hardness: HRC 56-60
 Carbon depth: 0.8 ± 0.2 mm
 Surface Roughness: $<0.2\mu\text{m}$
 Balancing: G6.3/15000: G2.5/25000
 Cooling: AD; AD/B can be made by request.

Hydraulic Chuck, Standard

A ↗ ≤ 0.003	RPM G2.5/25000	AD
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Unit:mm

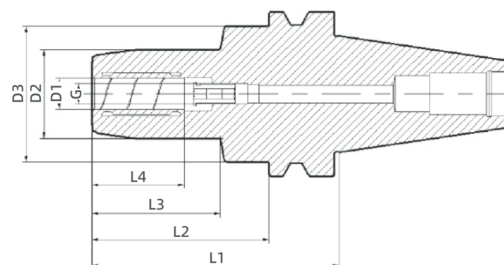
Size	D1	D2	D3	L1	L2	L3	L4	Wrench
BT30THY06050M	6	26	45.5	50	25.2	17.4	26	SW5
BT30THY06100M	6	26	45.5	100	75.2	58.8	26	SW5
BT30THY08050M	8	28	45.5	50	25.2	19	26	SW5
BT30THY08100M	8	28	45.5	100	75.2	59.1	26	SW5
BT30THY10050M	10	30	45.5	50	25.2	17.4	30	SW5
BT30THY10100M	10	30	45.5	100	75.2	59.3	30	SW5
BT30THY12050M	12	32	45.5	50	25.2	17.4	36	SW5
BT30THY12100M	12	32	45.5	100	75.2	59.6	36	SW5
BT30THY16090M	16	38	45.5	90	65.2	50.4	40	SW5
BT30THY20090M	20	42	45.5	90	65.2	50.9	41	SW5
BT30THY20100M	20	42	45.5	100	75.2	60.9	41	SW5

★Collet and Drive Key need to be ordered separately.

★Collet P55-P61, Drive Key P81

Hydraulic Chuck, Standard

A ↗ ≤ 0.003	RPM G2.5/25000	AD
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Unit:mm

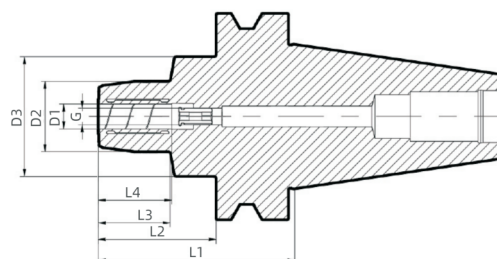
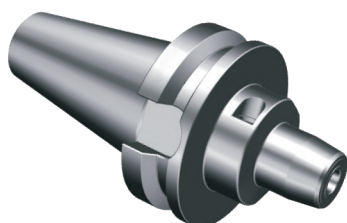
Size	D1	D2	D3	L1	L2	L3	L4	Wrench
BT40THY06090M	6	26	52	90	63	43.6	26	SW5
BT40THY06140M	6	26	52	140	113	93.6	26	SW5
BT40THY08090M	8	28	52	90	63	43.8	26	SW5
BT40THY08140M	8	28	52	140	113	93.8	26	SW5
BT40THY10090M	10	30	52	90	63	44	30	SW5
BT40THY10140M	10	30	52	140	113	94	30	SW5
BT40THY12090M	12	32	52	90	63	44.1	36	SW5
BT40THY12140M	12	32	52	140	113	94.1	36	SW5
BT40THY16090M	16	38	52	90	63	44.7	40	SW5
BT40THY16140M	16	38	52	140	113	94.7	40	SW5
BT40THY20090M	20	42	52	90	63	45	41	SW5
BT40THY20140M	20	42	52	140	113	95	41	SW5

★Collet and Drive Key need to be ordered separately.

★Collet P55-P61, Drive Key P81

Hydraulic Chuck, Standard

A ↗ ≤ 0.003	RPM G2.5/25000	AD
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Unit:mm

Size	D1	D2	D3	L1	L2	L3	L4	Wrench
BT50THY06090M	6	26	58	90	52	29.1	26	SW5
BT50THY06140M	6	26	58	140	102	79.1	26	SW5
BT50THY08090M	8	28	58	90	52	29.3	26	SW5
BT50THY08140M	8	28	58	140	102	79.3	26	SW5
BT50THY10090M	10	30	58	90	52	29.4	30	SW5
BT50THY10140M	10	30	58	140	102	79.4	30	SW5
BT50THY12090M	12	32	58	90	52	31	36	SW5
BT50THY12140M	12	32	58	140	102	79.6	36	SW5
BT50THY16090M	16	38	58	90	52	30.1	40	SW5
BT50THY16140M	16	38	58	140	102	80.1	40	SW5
BT50THY20090M	20	42	58	90	52	31	41	SW5
BT50THY20140M	20	42	58	140	102	80.5	41	SW5
BT50THY32120M	32	63	75	120	82	60.8	51	SW6

★ Collet and Drive Key need to be ordered separately.

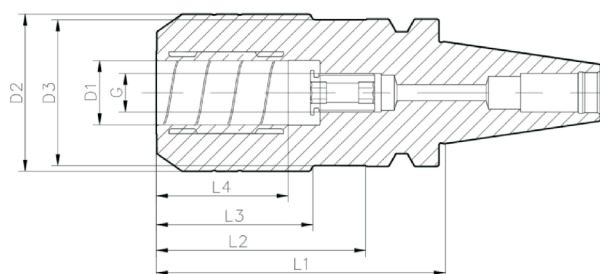
★ Collet P55-P61, Drive Key P81

Hydraulic Chuck, Power Design

A ↗
≤ 0.003

RPM
G2.5/25000

AD



Unit:mm

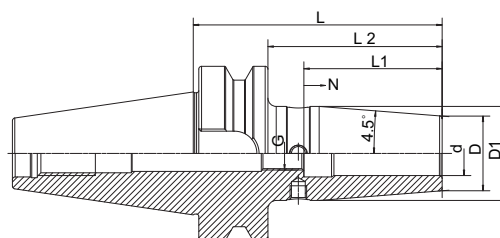
Size	D1	D2	D3	L1	L2	L3	L4	Wrench
HTBT30THY12069M	12	42	45.5	69	44.2	30	36	SW5
HTBT30THY20090M	20	49	45.5	90	65.2	47	41	SW5
HTBT40THY12058M	12	42	42	58	31	31	36	SW5
HTBT40THY16072M	16	49	49	72	45	45	40	SW5
HTBT40THY20072M	20	49	49	72	45	45	41	SW5
HTBT50THY12069M	12	42	42	69	31	31	36	SW5
HTBT50THY20083M	20	49	58	83	45	28	41	SW5
HTBT50THY32090M	32	72	72	90	52	52	51	SW6

★ Collet and Drive Key need to be ordered separately.

★ Collet P55-P61, Drive Key P81

Shrink Fit Chuck, 4.5° , Standard

A ↗ ≤0.003	RPM G2.5/25000	 AD
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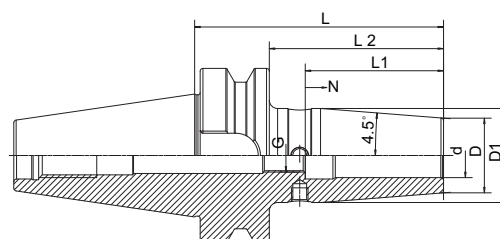


Unit:mm

Size	d	D	D1	L	L2	L1	N	G
BT30-SF04-80	4	15	20	80	58	-	-	-
BT30-SF06-80	6	21	27	80	58	36	10	M5
BT30-SF08-80	8	21	27	80	58	36	10	M6
BT30-SF10-80	10	24	30.5	80	58	42	10	M8x1
BT30-SF12-80	12	24	30.5	80	58	47	10	M10x1
BT30-SF14-80	14	27	33.5	80	58	47	10	M10x1
BT30-SF16-80	16	27	33.5	80	58	50	10	M12x1
BT30-SF18-80	18	33	39.5	80	58	50	10	M12x1
BT30-SF20-80	20	33	39.5	80	58	52	10	M16x1
BT40-SF04-80	4	15	20	80	53	-	-	-
BT40-SF06-90	6	21	27	90	63	36	10	M5
BT40-SF08-90	8	21	27	90	63	36	10	M6
BT40-SF10-90	10	24	31	90	63	42	10	M8x1
BT40-SF12-90	12	24	31	90	63	47	10	M10x1
BT40-SF14-90	14	27	34	90	63	47	10	M10x1
BT40-SF16-90	16	27	34	90	63	50	10	M12x1
BT40-SF18-90	18	33	40	90	63	50	10	M12x1
BT40-SF20-90	20	33	40	90	63	52	10	M16x1
BT40-SF25-100	25	44	53	100	73	58	10	M16x1
BT40-SF32-100	32	44	53	100	73	62	10	M16x1
BT40-SF04-120	4	15	20	120	93	-	-	-
BT40-SF06-120	6	21	27	120	93	36	10	M5

Shrink Fit Chuck, 4.5° , Standard

A ↗	RPM	
≤0.003	G2.5/25000	AD

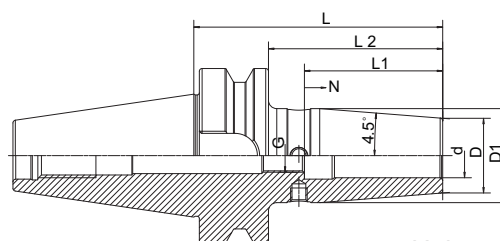


Unit:mm

Size	d	D	D1	L	L2	L1	N	G
BT40-SF08-120	8	21	27	120	93	36	10	M6
BT40-SF10-120	10	24	32	120	93	42	10	M8x1
BT40-SF12-120	12	24	32	120	93	47	10	M10x1
BT40-SF14-120	14	27	34	120	93	47	10	M10x1
BT40-SF16-120	16	27	34	120	93	50	10	M12x1
BT40-SF18-120	18	33	42	120	93	50	10	M12x1
BT40-SF20-120	20	33	42	120	93	52	10	M16x1
BT40-SF25-120	25	44	53	120	93	58	10	M16x1
BT40-SF32-120	32	44	53	120	93	62	10	M16x1
BT40-SF04-160	4	15	25	160	133	-	-	-
BT40-SF06-160	6	21	32	160	133	36	10	M5
BT40-SF08-160	8	21	32	160	133	36	10	M6
BT40-SF10-160	10	24	34	160	133	42	10	M8x1
BT40-SF12-160	12	24	34	160	133	47	10	M10x1
BT40-SF14-160	14	27	42	160	133	47	10	M10x1
BT40-SF16-160	16	27	42	160	133	50	10	M12x1
BT40-SF18-160	18	33	51	160	133	50	10	M12x1
BT40-SF20-160	20	33	51	160	133	52	10	M16x1
BT40-SF25-160	25	44	53	160	133	58	10	M16x1
BT40-SF32-160	32	44	60	160	133	62	10	M16x1

Shrink Fit Chuck, 4.5° , Standard

A ↗ ≤0.003	RPM G2.5/25000	AD
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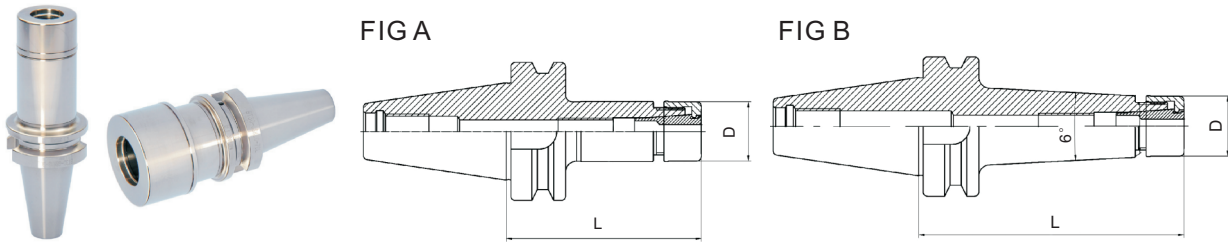


Unit:mm

Size	d	D	D1	L	L2	L1	N	G
BT50-SF06-100	6	21	27	100	62	36	10	M5
BT50-SF08-100	8	21	27	100	62	36	10	M6
BT50-SF10-100	10	24	30.5	100	62	42	10	M8x1
BT50-SF12-100	12	24	30.5	100	62	47	10	M10x1
BT50-SF14-100	14	27	34	100	62	47	10	M10x1
BT50-SF16-100	16	27	34	100	62	50	10	M12x1
BT50-SF18-100	18	33	40	100	62	50	10	M12x1
BT50-SF20-100	20	33	40	100	62	52	10	M16x1
BT50-SF06-120	6	21	27	120	82	36	10	M5
BT50-SF08-120	8	21	27	120	82	36	10	M6
BT50-SF10-120	10	24	32	120	82	42	10	M8x1
BT50-SF12-120	12	24	32	120	82	47	10	M10x1
BT50-SF14-120	14	27	34	120	82	47	10	M10x1
BT50-SF16-120	16	27	34	120	82	50	10	M12x1
BT50-SF18-120	18	33	42	120	82	50	10	M12x1
BT50-SF20-120	20	33	42	120	82	52	10	M16x1
BT50-SF25-120	25	44	53	120	82	58	10	M16x1
BT50-SF32-120	32	44	53	120	82	62	10	M16x1
BT50-SF06-160	6	21	32	160	122	36	10	M5
BT50-SF08-160	8	21	32	160	122	36	10	M6
BT50-SF10-160	10	24	34	160	122	42	10	M8x1
BT50-SF12-160	12	24	34	160	122	47	10	M10x1
BT50-SF14-160	14	27	42	160	122	47	10	M10x1
BT50-SF16-160	16	27	42	160	122	50	10	M12x1
BT50-SF18-160	18	33	49	160	122	50	10	M12x1
BT50-SF20-160	20	33	49	160	122	52	10	M16x1
BT50-SF25-160	25	44	60	160	122	58	10	M16x1
BT50-SF32-160	32	44	60	160	122	62	10	M16x1

BT-GSK High Speed Collet Chuck

A ↗	RPM	
≤0.003	G2.5/30000	AD



Unit:mm

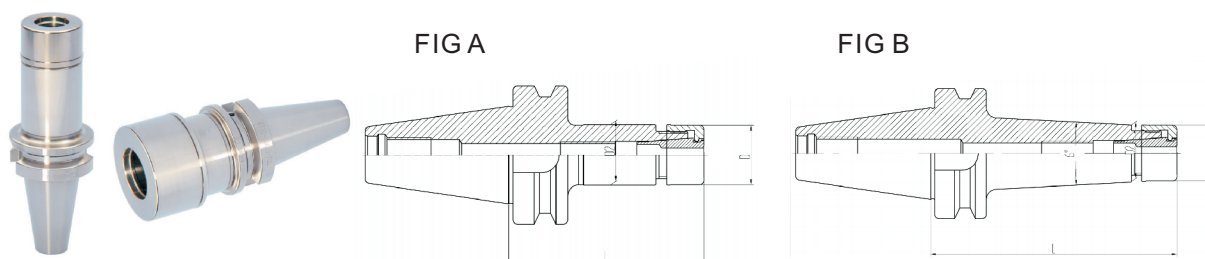
Size	Range	L	D	Collet	Nut	Wrench	FIG
BT30-GSK6T-60	1-6	60	19.5	CSK06	GSK06	GH19	A
BT30-GSK6T-90	1-6	90	19.5	CSK06	GSK06	GH19	A
BT30-GSK6T-120	1-6	120	19.5	CSK06	GSK06	GH19	B
BT30-GSK6T-165	1-6	165	19.5	CSK06	GSK06	GH19	B
BT30-GSK10T-60	1-10	60	27.1	CSK10	GSK10	GH27	A
BT30-GSK10T-75	1-10	75	27.1	CSK10	GSK10	GH27	A
BT30-GSK10T-90	1-10	90	27.1	CSK10	GSK10	GH27	A
BT30-GSK10T-120	1-10	120	27.1	CSK10	GSK10	GH27	A
BT30-GSK13T-60	2-13	60	33.0	CSK13	GSK13	GH33	A
BT30-GSK13T-90	2-13	90	33.0	CSK13	GSK13	GH33	A
BT30-GSK13T-120	2-13	120	33.0	CSK13	GSK13	GH33	B
BT30-GSK16T-60	2-16	60	40.0	CSK16	GSK16	GH40	A
BT30-GSK16T-75	2-16	75	40.0	CSK16	GSK16	GH40	A
BT30-GSK16T-90	2-16	90	40.0	CSK16	GSK16	GH40	A
BT30-GSK16T-120	2-16	120	40.0	CSK16	GSK16	GH40	A
BT30-GSK20T-60	3-20	60	48.0	CSK20	GSK20	GH48	A
BT30-GSK20T-70	3-20	70	48.0	CSK20	GSK20	GH48	A
BT30-GSK20T-90	3-20	90	48.0	CSK20	GSK20	GH48	A
BT40-GSK6T-100	1-6	100	19.5	CSK06	GSK06	GH19	A
BT40-GSK6T-120	1-6	120	19.5	CSK06	GSK06	GH19	B
BT40-GSK6T-150	1-6	150	19.5	CSK06	GSK06	GH19	B
BT40-GSK10T-60	1-10	60	27.1	CSK10	GSK10	GH27	A
BT40-GSK10T-90	1-10	90	27.1	CSK10	GSK10	GH27	A
BT40-GSK10T-100	1-10	100	27.1	CSK10	GSK10	GH27	A
BT40-GSK10T-120	1-10	120	27.1	CSK10	GSK10	GH27	B
BT40-GSK10T-150	1-10	150	27.1	CSK10	GSK10	GH27	B
BT40-GSK13T-60	2-13	60	33.0	CSK13	GSK13	GH33	A
BT40-GSK13T-90	2-13	90	33.0	CSK13	GSK13	GH33	A
BT40-GSK13T-120	2-13	120	33.0	CSK13	GSK13	GH33	B

★Collet and Wrench need to be ordered separately.

★Collet P74-P79,Wrench P80

BT-GSK High Speed Collet Chuck

A ↗	RPM	AD
≤0.003	G2.5/30000	



Unit:mm

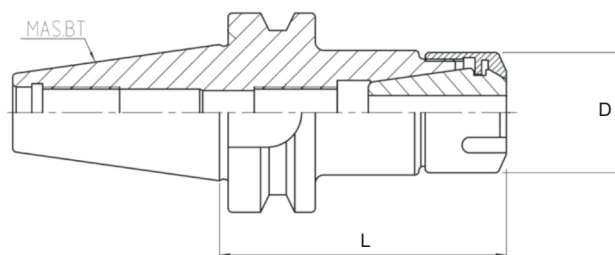
Size	Range	L	D	Collet	Nut	Wrench	FIG
BT40-GSK16T-60	2-16	60	40.0	CSK16	GSK16	GH40	A
BT40-GSK16T-90	2-16	90	40.0	CSK16	GSK16	GH40	A
BT40-GSK16T-100	2-16	100	40.0	CSK16	GSK16	GH40	A
BT40-GSK16T-120	2-16	120	40.0	CSK16	GSK16	GH40	A
BT40-GSK16T-150	2-16	150	40.0	CSK16	GSK16	GH40	A
BT40-GSK20T-60	3-20	60	48.0	CSK20	GSK20	GH48	A
BT40-GSK20T-90	3-20	90	48.0	CSK20	GSK20	GH48	A
BT40-GSK20T-120	3-20	120	48.0	CSK20	GSK20	GH48	A
BT40-GSK25T-75	4-25	75	55.0	CSK25	GSK25	GH55	A
BT40-GSK25T-90	4-25	90	55.0	CSK25	GSK25	GH55	A
BT40-GSK25T-120	4-25	120	55.0	CSK25	GSK25	GH55	A
BT50-GSK6T-105	1-6	105	19.5	CSK06	GSK06	GH19	A
BT50-GSK6T-135	1-6	135	19.5	CSK06	GSK06	GH19	B
BT50-GSK10T-105	1-10	105	27.1	CSK10	GSK10	GH27	A
BT50-GSK10T-135	1-10	135	27.1	CSK10	GSK10	GH27	A
BT50-GSK10T-165	1-10	165	27.1	CSK10	GSK10	GH27	B
BT50-GSK16T-105	2-16	105	40.0	CSK16	GSK16	GH40	A
BT50-GSK16T-135	2-16	135	40.0	CSK16	GSK16	GH40	A
BT50-GSK16T-165	2-16	165	40.0	CSK16	GSK16	GH40	B
BT50-GSK16T-200	2-16	200	40.0	CSK16	GSK16	GH40	B
BT50-GSK20T-135	3-20	135	48.0	CSK20	GSK20	GH48	A
BT50-GSK20T-165	3-20	165	48.0	CSK20	GSK20	GH48	A
BT50-GSK25T-135	4-25	135	55.0	CSK25	GSK25	GH55	A
BT50-GSK25T-165	4-25	165	55.0	CSK25	GSK25	GH55	A

★Collet and Wrench need to be ordered separately.

★Collet P74-P79,Wrench P80

BT-ER Collet Chuck

A ↗	RPM	
≤0.003	BT30/40 G2.5/25000	
	BT50 G2.5/20000	
		AD



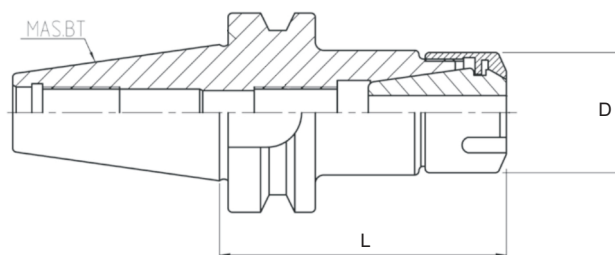
Unit:mm

Size	Range	L	D	Collet	Nut	Wrench
BT30-ER11-70	1-7	70	19	ER11	ER11A	WER11A
BT30-ER11-100	1-7	100	19	ER11	ER11A	WER11A
BT30-ER16-70	1-10	70	28	ER16	ER16A	WER16A
BT30-ER16-100	1-10	100	28	ER16	ER16A	WER16A
BT30-ER16-120	1-10	120	28	ER16	ER16A	WER16A
BT30-ER16-150	1-10	150	28	ER16	ER16A	WER16A
BT30-ER20-70	1-13	70	34	ER20	ER20A	WER20A
BT30-ER20-100	1-13	100	34	ER20	ER20A	WER20A
BT30-ER25-70	1-16	70	42	ER25	ER25UM	WER25UM
BT30-ER25-100	1-16	100	42	ER25	ER25UM	WER25UM
BT30-ER32-70	1-20	70	50	ER32	ER32UM	WER32UM
BT30-ER32-100	1-20	100	50	ER32	ER32UM	WER32UM
BT30-ER40-80	3-26	80	63	ER40	ER40UM	WER40UM
BT30-ER40-100	3-26	100	63	ER40	ER40UM	WER40UM
BT40-ER11-70	1-7	70	19	ER11	ER11A	WER11A
BT40-ER11-100	1-7	100	19	ER11	ER11A	WER11A
BT40-ER11-150	1-7	150	19	ER11	ER11A	WER11A
BT40-ER16-70	1-10	70	28	ER16	ER16A	WER16A
BT40-ER16-100	1-10	100	28	ER16	ER16A	WER16A
BT40-ER16-125	1-10	125	28	ER16	ER16A	WER16A
BT40-ER16-150	1-10	150	28	ER16	ER16A	WER16A
BT40-ER16-200	1-10	200	28	ER16	ER16A	WER16A
BT40-ER20-70	1-13	70	34	ER20	ER20A	WER20A
BT40-ER20-100	1-13	100	34	ER20	ER20A	WER20A
BT40-ER20-125	1-13	125	34	ER20	ER20A	WER20A
BT40-ER20-150	1-13	150	34	ER20	ER20A	WER20A
BT40-ER20-200	1-13	200	34	ER20	ER20A	WER20A
BT40-ER25-70	1-16	70	42	ER25	ER25UM	WER25UM
BT40-ER25-100	1-16	100	42	ER25	ER25UM	WER25UM

★Collet and Wrench need to be ordered separately.

★Collet P63-P71,Wrench P73

BT-ER Collet Chuck



Unit:mm

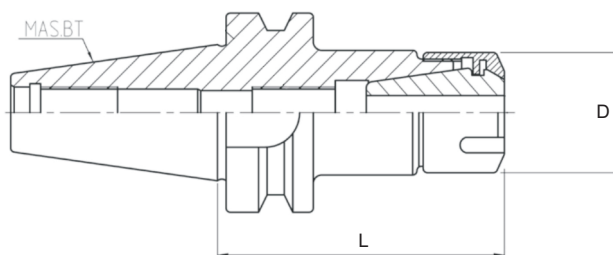
Size	Range	L	D	Collet	Nut	Wrench
BT40-ER25-125	1-16	125	42	ER25	ER25UM	WER25UM
BT40-ER25-150	1-16	150	42	ER25	ER25UM	WER25UM
BT40-ER25-200	1-16	200	42	ER25	ER25UM	WER25UM
BT40-ER32-70	1-20	70	50	ER32	ER32UM	WER32UM
BT40-ER32-100	1-20	100	50	ER32	ER32UM	WER32UM
BT40-ER32-125	1-20	125	50	ER32	ER32UM	WER32UM
BT40-ER32-150	1-20	150	50	ER32	ER32UM	WER32UM
BT40-ER32-200	1-20	200	50	ER32	ER32UM	WER32UM
BT40-ER40-70	3-26	70	63	ER40	ER40UM	WER40UM
BT40-ER40-80	3-26	80	63	ER40	ER40UM	WER40UM
BT40-ER40-100	3-26	100	63	ER40	ER40UM	WER40UM
BT40-ER40-150	3-26	150	63	ER40	ER40UM	WER40UM
BT50-ER16-70	1-10	70	28	ER16	ER16A	WER16A
BT50-ER16-100	1-10	100	28	ER16	ER16A	WER16A
BT50-ER16-135	1-10	135	28	ER16	ER16A	WER16A
BT50-ER16-150	1-10	150	28	ER16	ER16A	WER16A
BT50-ER16-200	1-10	200	28	ER16	ER16A	WER16A
BT50-ER16-250	1-10	250	28	ER16	ER16A	WER16A
BT50-ER20-70	1-13	70	34	ER20	ER20A	WER20A
BT50-ER20-100	1-13	100	34	ER20	ER20A	WER20A
BT50-ER20-135	1-13	135	34	ER20	ER20A	WER20A
BT50-ER20-150	1-13	150	34	ER20	ER20A	WER20A
BT50-ER20-165	1-13	165	34	ER20	ER20A	WER20A
BT50-ER20-200	1-13	200	34	ER20	ER20A	WER20A
BT50-ER25-70	1-16	70	42	ER25	ER25UM	WER25UM
BT50-ER25-100	1-16	105	42	ER25	ER25UM	WER25UM
BT50-ER25-135	1-16	135	42	ER25	ER25UM	WER25UM
BT50-ER25-150	1-16	150	42	ER25	ER25UM	WER25UM
BT50-ER25-165	1-16	165	42	ER25	ER25UM	WER25UM

★Collet and Wrench need to be ordered separately.

★Collet P63-P71,Wrench P73

BT-ER Collet Chuck

A ↗	RPM	
≤0.003	G2.5/20000	AD



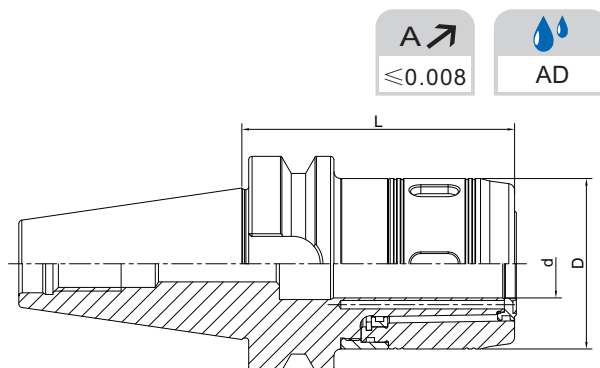
Unit:mm

Size	Range	L	D	Collet	Nut	Wrench
BT50-ER25-200	1-16	200	42	ER25	ER25UM	WER25UM
BT50-ER25-250	1-16	250	42	ER25	ER25UM	WER25UM
BT50-ER25-300	1-16	300	42	ER25	ER25UM	WER25UM
BT50-ER32-70	1-20	70	50	ER32	ER32UM	WER32UM
BT50-ER32-100	1-20	100	50	ER32	ER32UM	WER32UM
BT50-ER32-135	1-20	135	50	ER32	ER32UM	WER32UM
BT50-ER32-150	1-20	150	50	ER32	ER32UM	WER32UM
BT50-ER32-165	1-20	165	50	ER32	ER32UM	WER32UM
BT50-ER32-200	1-20	200	50	ER32	ER32UM	WER32UM
BT50-ER32-250	1-20	250	50	ER32	ER32UM	WER32UM
BT50-ER32-300	1-20	300	50	ER32	ER32UM	WER32UM
BT50-ER32-350	1-20	350	50	ER32	ER32UM	WER32UM
BT50-ER32-400	1-20	400	50	ER32	ER32UM	WER32UM
BT50-ER40-100	3-26	100	63	ER40	ER40UM	WER40UM
BT50-ER40-120	3-26	120	63	ER40	ER40UM	WER40UM
BT50-ER40-150	3-26	150	63	ER40	ER40UM	WER40UM
BT50-ER40-200	3-26	200	63	ER40	ER40UM	WER40UM
BT50-ER40-250	3-26	250	63	ER40	ER40UM	WER40UM
BT50-ER40-300	3-26	300	63	ER40	ER40UM	WER40UM
BT50-ER40-350	3-26	350	63	ER40	ER40UM	WER40UM
BT50-ER50-120	6-34	120	78	ER50	ER50UM	WER50UM

★Collet and Wrench need to be ordered separately.

★Collet P63-P71,Wrench P73

Power Milling Chuck



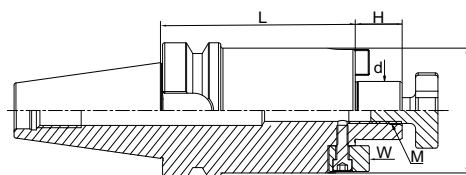
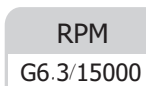
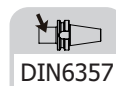
Unit:mm

Size	d	D	L	Capacity
BT30-HC20-80	20	50	80	3-16; 20
BT30-HC25-90	25	59	90	3-20; 25
BT30-HC32-110	32	72	110	3-25; 32
BT40-HC20-90	20	50	90	3-16; 20
BT40-HC25-100	25	59	100	3-20; 25
BT40-HC32-105	32	72	105	3-25; 32
BT50-HC20-105	20	50	105	3-16; 20
BT50-HC25-105	25	59	105	3-20; 25
BT50-HC32-110	32	72	110	3-25; 32
BT50-HC42-110	42	99	110	3-32; 42
BT50-HC32-165	32	72	165	3-25; 32
BT50-HC32-200	32	72	200	3-25; 32

★Collet and Wrench need to be ordered separately.

★Collet P62,Wrench P62

Face Mill Holder



Unit:mm

Size	d	L	D	H	M
BT30-FMB16-40	16	40	38	17	M8
BT30-FMB22-40	22	40	48	19	M10
BT30-FMB27-40	27	40	58	21	M12
BT30-FMB32-50	32	50	78	24	M16
BT40-FMB16-40	16	40	38	17	M8
BT40-FMB22-40	22	40	48	19	M10
BT40-FMB27-40	27	40	58	21	M12
BT40-FMB32-50	32	50	78	24	M16
BT40-FMB22-60	22	60	48	19	M10
BT40-FMB27-60	27	60	58	21	M12
BT40-FMB32-60	32	60	78	24	M16
BT40-FMB16-100	16	100	38	17	M8
BT40-FMB22-100	22	100	48	19	M10
BT40-FMB27-100	27	100	58	21	M12
BT40-FMB32-100	32	100	78	24	M16
BT40-FMB16-160	16	160	38	17	M8
BT40-FMB22-160	22	160	48	19	M10
BT40-FMB27-160	27	160	58	21	M12
BT40-FMB32-160	32	160	78	24	M16

Universal screw (image 1) for Chinese market.

Retaining screw (image 2) for the market out of China.

AD/B Customized

Face Mill Holder

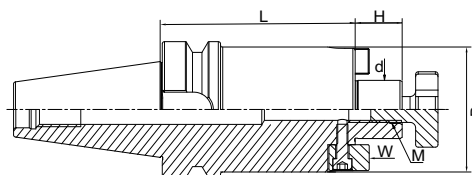
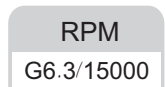
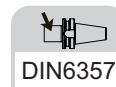


image 1



image 2

Unit:mm

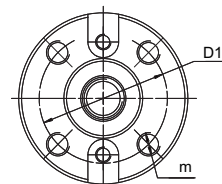
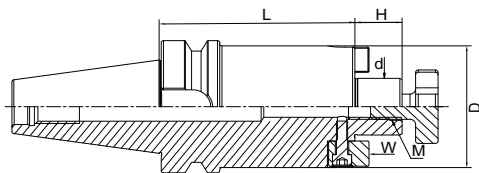
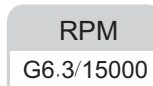
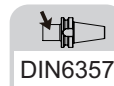
Size	d	L	D	H	M
BT50-FMB16-40	16	40	38	17	M8
BT50-FMB22-40	22	40	48	19	M10
BT50-FMB27-40	27	40	58	21	M12
BT50-FMB32-50	32	50	78	24	M16
BT50-FMB22-60	22	60	48	19	M10
BT50-FMB27-60	27	60	58	21	M12
BT50-FMB32-60	32	60	78	24	M16
BT50-FMB16-100	16	100	38	17	M8
BT50-FMB22-100	22	100	48	19	M10
BT50-FMB27-100	27	100	58	21	M12
BT50-FMB32-100	32	100	78	24	M16
BT50-FMB22-160	22	160	48	19	M10
BT50-FMB27-160	27	160	58	21	M12
BT50-FMB32-160	32	160	78	24	M16

Universal screw (image 1) for Chinese market.

Retaining screw (image 2) for the market out of China.

AD/B Customized

Face Mill Holder



Unit:mm

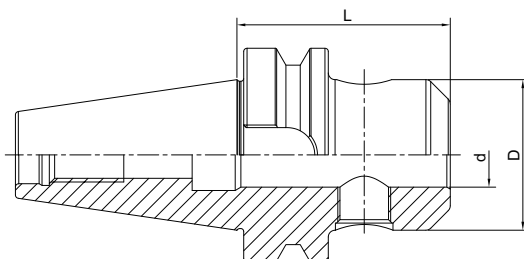
Size	d	L	D	D1	H	M	m
BT40-FMB40-50	40	50	88	66.7	27	M20	M12
BT40-FMB40-60	40	60	88	66.7	27	M20	M12
BT40-FMB40-100	40	100	88	66.7	27	M20	M12
BT50-FMB40-50	40	50	88	66.7	27	M20	M12
BT50-FMB40-60	40	60	88	66.7	27	M20	M12
BT50-FMB40-100	40	100	88	66.7	27	M20	M12
BT50-FMB40-160	40	160	88	66.7	27	M20	M12

One universal screw (image 1) and 4 cap screws for Chinese market.

One retaining screw (image 2) and 4 cap screws for the market out of China.

AD/B Customized

Side Lock Holder

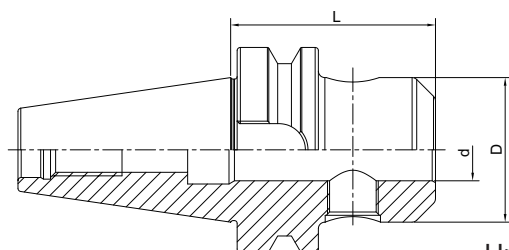


Unit:mm

Size	d	D	L	M	Screw Quantity
BT30-SLA06-50	6	25	50	M6	1
BT30-SLA08-50	8	28	50	M8	1
BT30-SLA10-50	10	35	50	M10	1
BT30-SLA12-50	12	42	50	M12	1
BT30-SLA14-50	14	44	50	M12	1
BT30-SLA16-63	16	48	63	M14	1
BT30-SLA18-63	18	50	63	M14	1
BT30-SLA20-63	20	52	63	M16	1
BT30-SLA25-90	25	65	90	M18*2	2
BT40-SLA06-50	6	25	50	M6	1
BT40-SLA08-50	8	28	50	M8	1
BT40-SLA10-63	10	35	63	M10	1
BT40-SLA12-63	12	42	63	M12	1
BT40-SLA14-63	14	44	63	M12	1
BT40-SLA16-63	16	48	63	M14	1
BT40-SLA18-63	18	50	63	M14	1
BT40-SLA20-63	20	52	63	M16	1
BT40-SLA25-90	25	65	90	M18*2	2
BT40-SLA06-100	6	25	100	M6	1
BT40-SLA08-100	8	28	100	M8	1
BT40-SLA10-100	10	35	100	M10	1
BT40-SLA12-100	12	42	100	M12	1
BT40-SLA14-100	14	44	100	M12	1
BT40-SLA16-100	16	48	100	M14	1
BT40-SLA18-100	18	50	100	M14	1
BT40-SLA20-100	20	52	100	M16	1
BT40-SLA32-100	32	72	100	M20*2	2
BT40-SLA40-120	40	80	120	M20*2	2

AD/B Customized

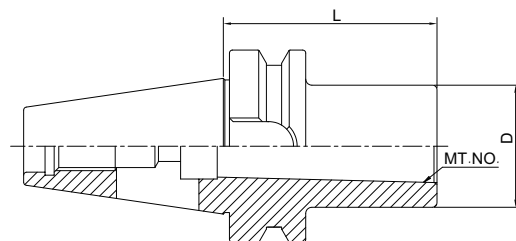
Side Lock Holder



Unit:mm

Size	d	D	L	M	Screw Quantity
BT40-SLA06-160	6	25	160	M6	1
BT40-SLA08-160	8	28	160	M8	1
BT40-SLA10-160	10	35	160	M10	1
BT40-SLA12-160	12	42	160	M12	1
BT40-SLA14-160	14	44	160	M12	1
BT40-SLA16-160	16	48	160	M14	1
BT40-SLA18-160	18	50	160	M14	1
BT40-SLA20-160	20	52	160	M16	1
BT40-SLA25-160	25	65	160	M18*2	2
BT40-SLA32-160	32	72	160	M20*2	2
BT40-SLA40-160	40	80	160	M20*2	2
BT50-SLA06-63	6	25	63	M6	1
BT50-SLA08-63	8	28	63	M8	1
BT50-SLA10-63	10	35	63	M10	1
BT50-SLA12-80	12	42	80	M12	1
BT50-SLA14-80	14	44	80	M12	1
BT50-SLA16-80	16	48	80	M14	1
BT50-SLA18-80	18	50	80	M14	1
BT50-SLA20-80	20	52	80	M16	1
BT50-SLA25-100	25	65	100	M18*2	2
BT50-SLA32-105	32	72	105	M20*2	2
BT50-SLA40-110	40	80	110	M20*2	2
BT50-SLA50-125	50	98	125	M24*2	2
BT50-SLA06-160	6	25	160	M6	1
BT50-SLA08-160	8	28	160	M8	1
BT50-SLA10-160	10	35	160	M10	1
BT50-SLA12-160	12	42	160	M12	1
BT50-SLA14-160	14	44	160	M12	1
BT50-SLA16-160	16	48	160	M14	1
BT50-SLA18-160	18	50	160	M14	1
BT50-SLA20-160	20	52	160	M16	1
BT50-SLA25-160	25	65	160	M18*2	2
BT50-SLA32-160	32	72	160	M20*2	2
BT50-SLA40-160	40	80	160	M20*2	2

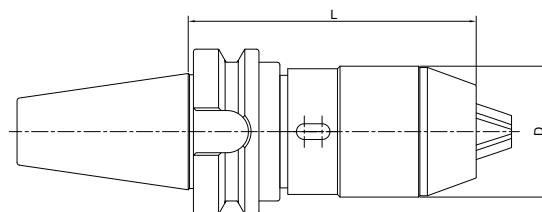
Morse Taper Adapter with Tang



Unit:mm

Size	MT.NO.	D	L
BT30-MTA1-45	1	25	45
BT30-MTA2-60	2	32	60
BT30-MTA3-75	3	40	75
BT40-MTA1-50	1	25	50
BT40-MTA2-50	2	32	50
BT40-MTA3-70	3	40	70
BT40-MTA4-95	4	48	95
BT50-MTA1-45	1	25	45
BT50-MTA2-60	2	32	60
BT50-MTA3-65	3	40	65
BT50-MTA3-180	3	40	180
BT50-MTA4-95	4	48	95
BT50-MTA4-180	4	48	180
BT50-MTA5-105	5	63	105

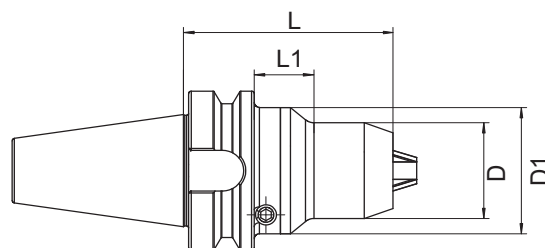
APU Drill Chuck Holder



Unit:mm

Size	D	L	Capacity
BT30-APU08-80	36	80	1-8
BT30-APU13-110	48	110	1-13
BT40-APU08-85	36	85	1-8
BT40-APU13-105	48	105	1-13
BT40-APU16-110	53	110	3-16
BT50-APU08-90	36	90	1-8
BT50-APU13-105	48	105	1-13
BT50-APU16-115	53	115	3-16

Precision Drill Chuck Holder

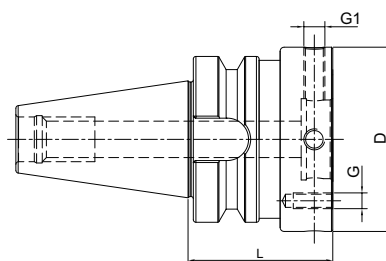


Unit:mm

Size	D	D1	L	L1	Capacity
BT40-CPU13-90	50	-	90	-	1-13
BT40-CPU16-90	50	-	90	-	1-16
BT50-CPU13-100	50	-	100	-	1-13
BT50-CPU16-100	50	-	100	-	1-16

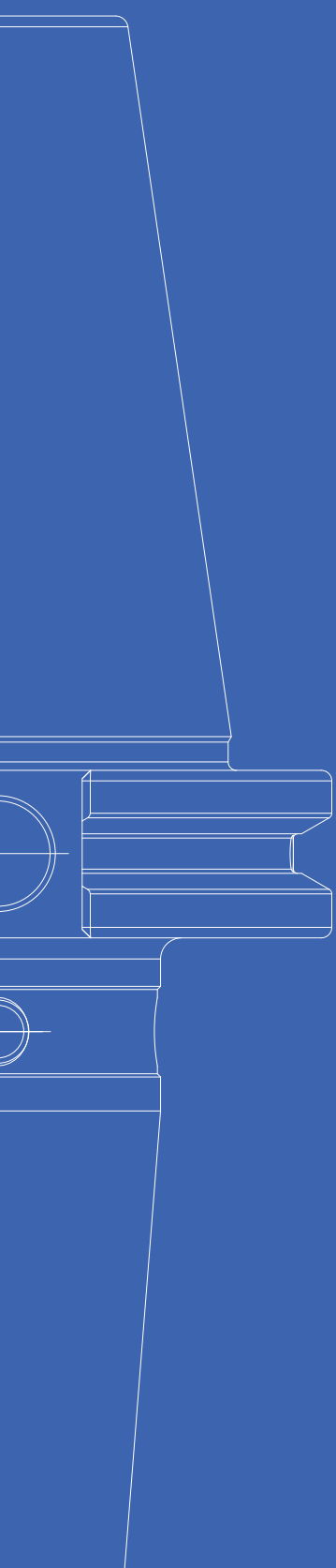
Runout Adjustable Flange Adapter

A ↗ ≤0.002	RPM G2.5/25000	AD
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Unit:mm

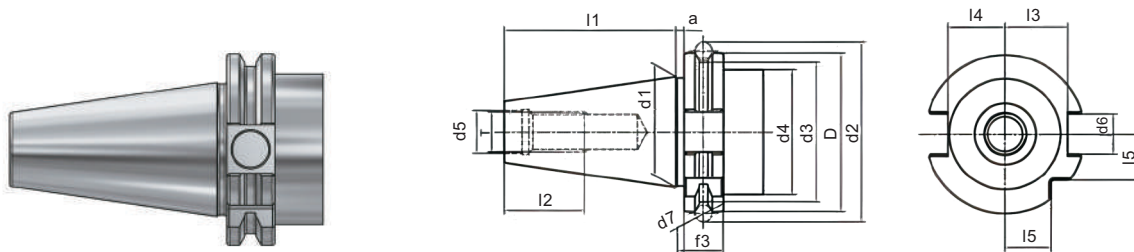
Size	D	L	G	G1
BT30-MOD060-050	60	50	M5	M8x1
BT30-MOD070-050	70	50	M6	M8x1
BT40-MOD060-050	60	50	M5	M8x1
BT40-MOD070-050	70	50	M6	M8x1
BT40-MOD080-050	80	50	M6	M8x1
BT40-MOD100-070	100	70	M8	M10x1
BT50-MOD060-070	60	70	M5	M8x1
BT50-MOD070-070	70	70	M6	M8x1
BT50-MOD080-070	80	70	M6	M8x1
BT50-MOD100-070	100	70	M8	M10x1
BT50-MOD117-080	117	80	M8	M10x1
BT50-MOD140-080	140	80	M10	M10x1



DIN69871 SK

Hydraulic Chuck, Standard-----	P22-24
Shrink Fit Chuck, 4.5° , Standard-----	P25-26
SK-ER Collet Chuck-----	P27
Power Milling Chuck-----	P28
Face Mill Holder-----	P29-31
Side Lock Holder-----	P32-33
Morse Taper Adapter with Tang-----	P34
APU Drill Chuck Holder-----	P35
Precision Drill Chuck Holder-----	P35

SK Taper Standard



Unit:mm

Size	D	d1	d2	d3	d4	d5	d6	d7	l1	l2	l3	l4	l5	e1	e2
SK30	50	31.75	59.3	44.3	45	13	16.1	7	47.8	24	18.8	16.3	15	21	5
SK40	63.55	44.45	72.3	56.25	50	17	16.1	7	58.4	32	25	22.7	18.5	27	5
SK50	97.5	69.85	107.36	91.25	80	25	25.7	7	101.8	47	37.7	35.5	30	42	7

Taper standard: DIN 69871

Material: Alloyed case hardened steel

Surface Treatment: Blackening and Bright

Taper tolerance: <AT3

Hardness: HRC 56-60

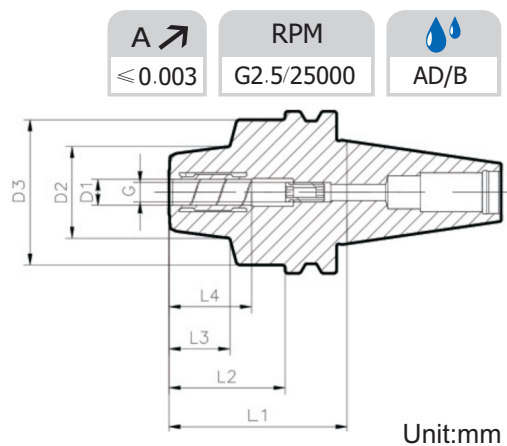
Carbon depth: 0.8 ± 0.2 mm

Surface Roughness: $Ra < 0.2 \mu m$

Balancing: G6.3/15000; G2.5/25000

Cooling: AD; AD/B can be made by request.

Hydraulic Chuck, Standard

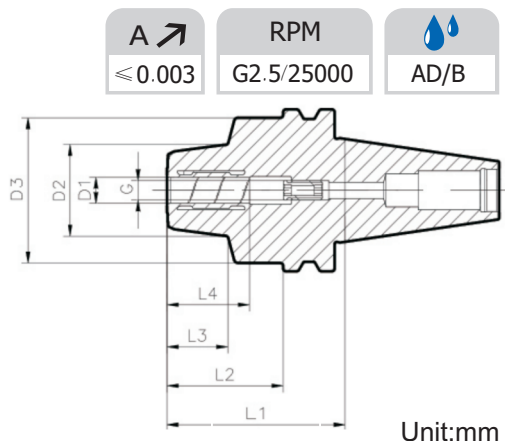


Size	D1	D2	D3	L1	L2	L3	L4	Wrench
SK30THY06055M	6	26	44.8	55	35.9	18.5	26	SW5
SK30THY08055M	8	28	44.8	55	35.9	18.7	26	SW5
SK30THY10055M	10	30	44.8	55	35.9	19	30	SW5
SK30THY12055M	12	32	44.8	55	35.9	19.3	36	SW5
SK30THY16090M	16	38	44.8	90	70.9	48	40	SW5
SK30THY20090M	20	42	44.8	90	70.9	48.7	41	SW5

★Collet and Drive Key need to be ordered separately.

★Collet P55-P61, Drive Key P81

Hydraulic Chuck, Standard

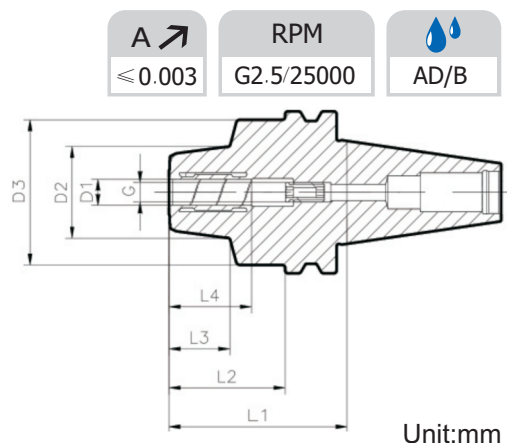


Size	D1	D2	D3	L1	L2	L3	L4	Wrench
SK40THY06080M	6	26	49.8	80	60.9	41.7	26	SW5
SK40THY06110M	6	26	49.8	110	90.9	71.7	26	SW5
SK40THY06120M	6	26	49.8	120	100.9	81.7	26	SW5
SK40THY08080M	8	28	49.8	80	60.9	41.9	26	SW5
SK40THY08110M	8	28	49.8	110	90.9	71.9	26	SW5
SK40THY08120M	8	28	49.8	120	100.9	81.9	26	SW5
SK40THY10080M	10	30	49.8	80	60.9	42.1	30	SW5
SK40THY10110M	10	30	49.8	110	90.9	72.1	30	SW5
SK40THY10120M	10	30	49.8	120	100.9	82.1	30	SW5
SK40THY12080M	12	32	49.8	80	60.9	42.2	36	SW5
SK40THY12110M	12	32	49.8	110	90.9	72.2	36	SW5
SK40THY12120M	12	32	49.8	120	100.9	82.2	36	SW5
SK40THY14080M	14	34	49.8	80	60.9	42.4	36	SW5
SK40THY14120M	14	34	49.8	120	100.9	82.4	36	SW5
SK40THY16080M	16	38	49.8	80	60.9	42.8	40	SW5
SK40THY16110M	16	38	49.8	110	90.9	72.8	40	SW5
SK40THY16120M	16	38	49.8	120	100.9	82.8	40	SW5
SK40THY18080M	18	40	49.8	80	60.9	42.9	41	SW5
SK40THY18120M	18	40	49.8	120	100.9	82.9	41	SW5
SK40THY20080M	20	42	49.8	80	60.9	43.1	41	SW5
SK40THY20110M	20	42	49.8	110	90.9	73.1	41	SW5
SK40THY20120M	20	42	49.8	120	100.9	83.1	41	SW5
SK40THY25080M	25	57	64.8	80	60.9	27.2	47	SW5
SK40THY25100M	25	57	64.8	100	80.9	47.2	47	SW5
SK40THY25120M	25	57	64.8	120	100.9	67.2	47	SW5
SK40THY32080M	32	63	74.8	80	60.9	31	51	SW6
SK40THY32100M	32	63	74.8	100	80.9	43.8	51	SW6
SK40THY32120M	32	63	74.8	120	100.9	63.8	51	SW6

★ Collet and Drive Key need to be ordered separately.

★ Collet P55-P61, Drive Key P81

Hydraulic Chuck, Standard



Size	D1	D2	D3	L1	L2	L3	L4	Wrench
SK50THY06110M	6	26	57.8	110	90.9	68	26	SW5
SK50THY06150M	6	26	57.8	150	130.9	108	26	SW5
SK50THY08110M	8	28	57.8	110	90.9	68.2	27	SW5
SK50THY08150M	8	28	57.8	150	130.9	108.2	26	SW5
SK50THY10110M	10	30	57.8	110	90.9	68.3	30	SW5
SK50THY10150M	10	30	57.8	150	130.9	108.3	30	SW5
SK50THY12110M	12	32	57.8	110	90.9	68.5	36	SW5
SK50THY12150M	12	32	57.8	150	130.9	108.5	36	SW5
SK50THY14110M	14	34	57.8	110	90.9	68.7	36	SW5
SK50THY14150M	14	34	57.8	150	130.9	108.7	36	SW5
SK50THY16110M	16	38	57.8	110	90.9	69.1	40	SW5
SK50THY16150M	16	38	57.8	150	130.9	109.1	40	SW5
SK50THY18110M	18	40	57.8	110	90.9	69.2	41	SW5
SK50THY18150M	18	40	57.8	150	130.9	109.2	41	SW5
SK50THY20080M	20	42	57.8	80	60.9	39.4	41	SW5
SK50THY20110M	20	42	57.8	110	90.9	69.4	41	SW5
SK50THY20150M	20	42	57.8	150	130.9	109.4	41	SW5
SK50THY32110M	32	63	70.8	110	90.9	70.1	51	SW6

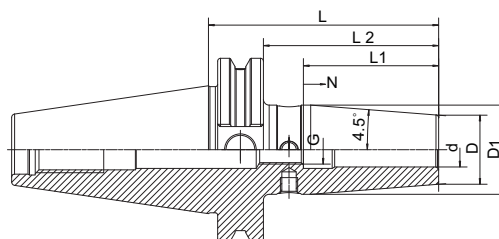
★ Collet and Drive Key need to be ordered separately.

★ Collet P55-P61, Drive Key P81

Shrink Fit Chuck, 4.5° , Standard



A ↗	RPM	
≤0.003	G2.5/25000	AD/B



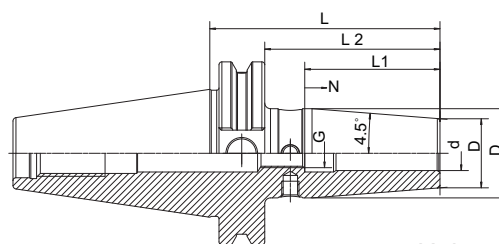
Unit:mm

Size	d	D	D1	L	L2	L1	N	G
SK40-SF04-80	4	15	20	80	60.9	-	-	-
SK40-SF05-80	5	15	20	80	60.9	-	-	-
SK40-SF06-80	6	21	27	80	60.9	36	10	M5
SK40-SF08-80	8	21	27	80	60.9	36	10	M6
SK40-SF10-80	10	24	31	80	60.9	42	10	M8x1
SK40-SF12-80	12	24	31	80	60.9	47	10	M10x1
SK40-SF14-80	14	27	34	80	60.9	47	10	M10x1
SK40-SF16-80	16	27	34	80	60.9	50	10	M12x1
SK40-SF18-80	18	33	40	80	60.9	50	10	M12x1
SK40-SF20-80	20	33	40	80	60.9	52	10	M16x1
SK40-SF25-100	25	44	50	100	80.9	58	10	M16x1
SK40-SF32-100	32	44	50	100	80.9	62	10	M16x1
SK40-SF04-120	4	15	20	120	100.9	-	-	-
SK40-SF06-120	6	21	27	120	100.9	36	10	M5
SK40-SF08-120	8	21	27	120	100.9	36	10	M6
SK40-SF10-120	10	24	32	120	100.9	42	10	M8x1
SK40-SF12-120	12	24	32	120	100.9	47	10	M10x1
SK40-SF14-120	14	27	34	120	100.9	47	10	M10x1
SK40-SF16-120	16	27	34	120	100.9	50	10	M12x1
SK40-SF18-120	18	31	42	120	100.9	50	10	M12x1
SK40-SF20-120	20	31	42	120	100.9	52	10	M16x1
SK40-SF25-120	25	44	50	120	100.9	58	10	M16x1
SK40-SF04-160	4	15	20	160	140.9	-	-	-
SK40-SF06-160	6	21	32	160	140.9	36	10	M5
SK40-SF08-160	8	21	32	160	140.9	36	10	M6
SK40-SF10-160	10	24	34	160	140.9	42	10	M8x1
SK40-SF12-160	12	24	34	160	140.9	47	10	M10x1
SK40-SF14-160	14	27	42	160	140.9	47	10	M10x1
SK40-SF16-160	16	27	42	160	140.9	50	10	M12x1
SK40-SF18-160	18	33	50	160	140.9	50	10	M12x1
SK40-SF20-160	20	33	50	160	140.9	52	10	M16x1
SK40-SF25-160	25	44	50	160	140.9	58	10	M16x1
SK40-SF32-160	32	44	50	160	140.9	62	10	M16x1

Shrink Fit Chuck, 4.5° , Standard



A ↗	RPM	
≤0.003	G2.5/25000	AD/B

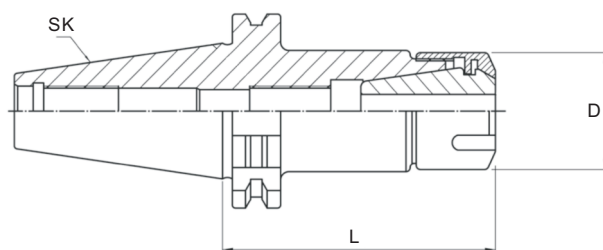
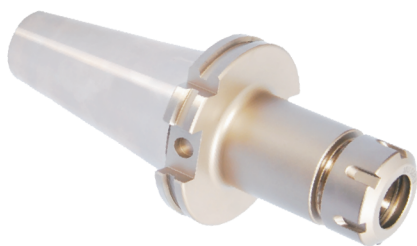


Unit:mm

Size	d	D	D1	L	L2	L1	N	G
SK50-SF06-80	6	21	27	80	60.9	36	10	M5
SK50-SF08-80	8	21	27	80	60.9	36	10	M6
SK50-SF10-80	10	24	31	80	60.9	42	10	M8x1
SK50-SF12-80	12	24	31	80	60.9	47	10	M10x1
SK50-SF14-80	14	27	34	80	60.9	47	10	M10x1
SK50-SF16-80	16	27	34	80	60.9	50	10	M12x1
SK50-SF18-80	18	33	40	80	60.9	50	10	M12x1
SK50-SF20-80	20	33	39.5	80	60.9	52	10	M16x1
SK50-SF25-90	25	44	52.5	90	70.9	58	10	M16x1
SK50-SF32-90	32	44	52.5	90	70.9	62	10	M16x1
SK50-SF06-120	6	21	27	120	100.9	36	10	M5
SK50-SF08-120	8	21	27	120	100.9	36	10	M6
SK50-SF10-120	10	24	32	120	100.9	42	10	M8x1
SK50-SF12-120	12	24	32	120	100.9	47	10	M10x1
SK50-SF14-120	14	27	34	120	100.9	47	10	M10x1
SK50-SF16-120	16	27	34	120	100.9	50	10	M12x1
SK50-SF18-120	18	33	42	120	100.9	50	10	M12x1
SK50-SF20-120	20	33	42	120	100.9	52	10	M16x1
SK50-SF25-120	25	44	53	120	100.9	58	10	M16x1
SK50-SF32-120	32	44	53	120	100.9	62	10	M16x1
SK50-SF06-160	6	21	32	160	140.9	36	10	M5
SK50-SF08-160	8	21	32	160	140.9	36	10	M6
SK50-SF10-160	10	24	34	160	140.9	42	10	M8x1
SK50-SF12-160	12	24	34	160	140.9	47	10	M10x1
SK50-SF14-160	14	27	42	160	140.9	47	10	M10x1
SK50-SF16-160	16	27	42	160	140.9	50	10	M12x1
SK50-SF18-160	18	33	51	160	140.9	50	10	M12x1
SK50-SF20-160	20	33	51	160	140.9	52	10	M16x1
SK50-SF25-160	25	44	60	160	140.9	58	10	M16x1
SK50-SF32-160	32	44	60	160	140.9	62	10	M16x1

SK-ER Collet Chuck

A ↗	RPM	
≤0.003	SK30/40 G2.5/25000 SK50 G2.5/20000	AD



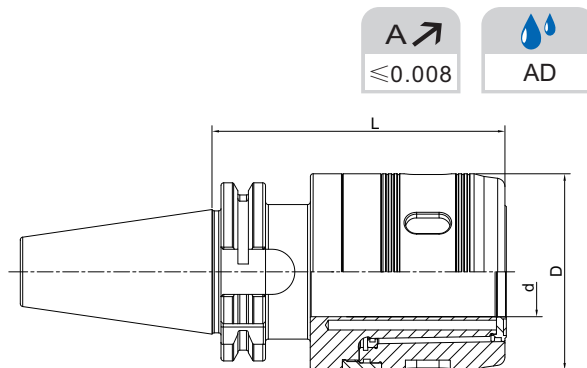
Unit:mm

Size	Range	L	D	Collet	Nut	Wrench
SK30-ER16-100	1-10	100	28	ER16	ER16A	WER16A
SK30-ER20-100	1-13	100	34	ER20	ER20A	WER20A
SK30-ER25-100	1-16	100	42	ER25	ER25UM	WER25UM
SK40-ER11-100	1-7	100	19	ER11	ER11A	WER11A
SK40-ER16-70	1-10	70	28	ER16	ER16A	WER16A
SK40-ER20-70	1-13	70	34	ER20	ER20A	WER20A
SK40-ER25-70	1-16	70	42	ER25	ER25UM	WER25UM
SK40-ER32-70	1-20	70	50	ER32	ER32UM	WER32UM
SK40-ER32-100	1-20	100	50	ER32	ER32UM	WER32UM
SK40-ER40-70	3-26	70	63	ER40	ER40UM	WER40UM
SK40-ER50-100	6-34	100	78	ER50	ER50UM	WER50UM
SK50-ER16-100	1-10	100	28	ER16	ER16A	WER16A
SK50-ER20-100	1-13	100	34	ER20	ER20A	WER20A
SK50-ER25-100	1-16	100	42	ER25	ER25UM	WER25UM
SK50-ER32-100	1-20	100	50	ER32	ER32UM	WER32UM
SK50-ER40-80	3-26	80	63	ER40	ER40UM	WER40UM

★Collet and Wrench need to be ordered separately.

★Collet P63-P71,Wrench P73

Power Milling Chuck



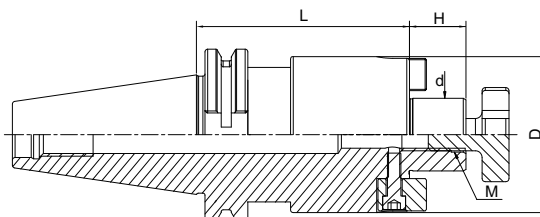
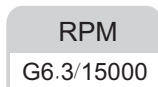
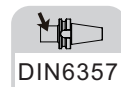
Unit:mm

Size	d	D	L	Capacity
SK40-HC20-85	20	50	85	3-16; 20
SK40-HC25-100	25	59	100	3-20; 25
SK40-HC32-105	32	72	105	3-25; 32
SK50-HC20-105	20	50	105	3-16; 20
SK50-HC25-100	25	59	100	3-20; 25
SK50-HC32-110	32	72	110	3-25; 32

★Collet and Wrench need to be ordered separately.

★Collet P62,Wrench P62

Face Mill Holder



Unit:mm

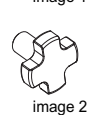
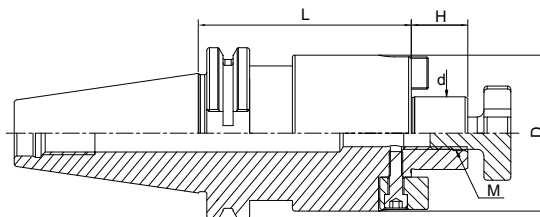
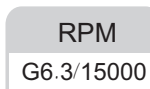
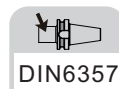
Size	d	D	L	H	M
SK40-FMB16-35	16	38	35	17	M8
SK40-FMB22-35	22	48	35	19	M10
SK40-FMB27-40	27	58	40	21	M12
SK40-FMB32-50	32	78	50	24	M16
SK40-FMB16-100	16	38	100	17	M8
SK40-FMB22-100	22	48	100	19	M10
SK40-FMB27-100	27	58	100	21	M12
SK40-FMB32-100	32	78	100	24	M16
SK40-FMB16-160	16	38	160	17	M8
SK40-FMB22-160	22	48	160	19	M10
SK40-FMB27-160	27	58	160	21	M12
SK40-FMB32-160	32	78	160	24	M16

Universal screw (image 1) for Chinese market.

Retaining screw (image 2) for the market out of China.

AD/B Customized

Face Mill Holder



Unit:mm

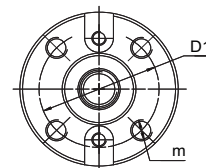
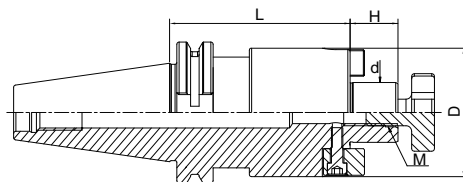
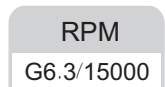
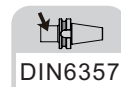
Size	d	D	L	H	M
SK50-FMB16-35	16	38	35	17	M8
SK50-FMB22-35	22	48	35	19	M10
SK50-FMB27-40	27	58	40	21	M12
SK50-FMB32-50	32	78	50	24	M16
SK50-FMB16-100	16	38	100	17	M8
SK50-FMB22-100	22	48	100	19	M10
SK50-FMB27-100	27	58	100	21	M12
SK50-FMB32-100	32	78	100	24	M16
SK50-FMB16-160	16	38	160	17	M8
SK50-FMB22-160	22	48	160	19	M10
SK50-FMB27-160	27	58	160	21	M12
SK50-FMB32-160	32	78	160	24	M16

Universal screw (image 1) for Chinese market.

Retaining screw (image 2) for the market out of China.

AD/B Customized

Face Mill Holder



Unit:mm

Size	d	D	D1	L	H	M	m
SK40-FMB40-50	40	88	66.7	50	27	M20	M12
SK40-FMB40-100	40	88	66.7	100	27	M20	M12
SK40-FMB40-160	40	88	66.7	160	27	M20	M12
SK50-FMB40-50	40	88	66.7	50	27	M20	M12
SK50-FMB40-100	40	88	66.7	100	27	M20	M12
SK50-FMB40-160	40	88	66.7	160	27	M20	M12

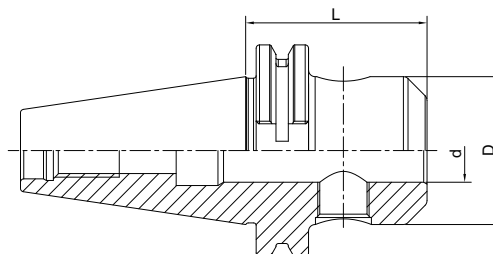
One universal screw (image 1) and 4 cap screws for Chinese market.

One retaining screw (image 2) and 4 cap screws for the market out of China.

Side Lock Holder



			
DIN6359/1835B	≤ 0.005	RPM G6.3/15000	AD

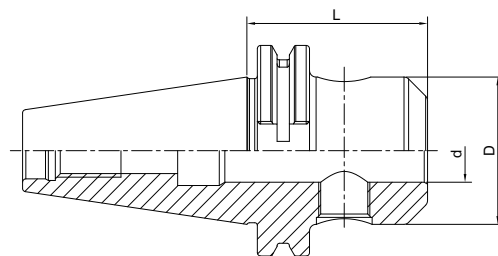


Unit:mm

Size	d	D	L	M	Screw Quantity
SK40-SLA06-50	6	25	50	M6	1
SK40-SLA08-50	8	28	50	M8	1
SK40-SLA10-50	10	35	50	M10	1
SK40-SLA12-50	12	42	50	M12	1
SK40-SLA14-50	14	44	50	M12	1
SK40-SLA16-63	16	48	63	M14	1
SK40-SLA18-63	18	50	63	M14	1
SK40-SLA20-63	20	52	63	M16	1
SK40-SLA06-100	6	25	100	M6	1
SK40-SLA08-100	8	28	100	M8	1
SK40-SLA10-100	10	35	100	M10	1
SK40-SLA12-100	12	42	100	M12	1
SK40-SLA14-100	14	44	100	M12	1
SK40-SLA16-100	16	48	100	M14	1
SK40-SLA18-100	18	50	100	M14	1
SK40-SLA20-100	20	52	100	M16	1
SK40-SLA25-100	25	65	100	M18*2	2
SK40-SLA32-100	32	72	100	M20*2	2
SK40-SLA40-120	40	80	120	M20*2	2
SK40-SLA06-160	6	25	160	M6	1
SK40-SLA08-160	8	28	160	M8	1
SK40-SLA10-160	10	35	160	M10	1
SK40-SLA12-160	12	42	160	M12	1
SK40-SLA14-160	14	44	160	M12	1
SK40-SLA16-160	16	48	160	M14	1
SK40-SLA18-160	18	50	160	M14	1
SK40-SLA20-160	20	52	160	M16	1
SK40-SLA25-160	25	65	160	M18*2	2
SK40-SLA32-160	32	72	160	M20*2	2
SK40-SLA40-160	40	80	160	M20*2	2

AD/B Customized

Side Lock Holder



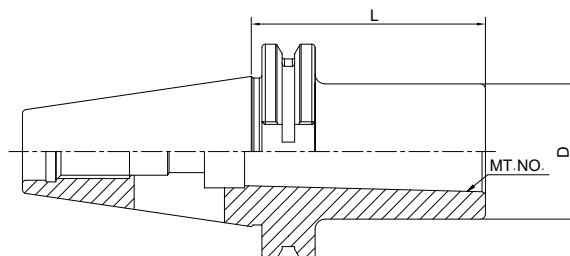
Unit:mm

Size	d	D	L	M	Screw Quantity
SK50-SLA06-63	6	25	63	M6	1
SK50-SLA08-63	8	28	63	M8	1
SK50-SLA10-63	10	35	63	M10	1
SK50-SLA12-63	12	42	63	M12	1
SK50-SLA14-63	14	44	63	M12	1
SK50-SLA16-63	16	48	63	M14	1
SK50-SLA18-63	18	50	63	M14	1
SK50-SLA20-63	20	52	63	M16	1
SK50-SLA25-80	25	65	80	M18*2	2
SK50-SLA06-100	6	25	100	M6	1
SK50-SLA08-100	8	28	100	M8	1
SK50-SLA10-100	10	35	100	M10	1
SK50-SLA12-100	12	42	100	M12	1
SK50-SLA14-100	14	44	100	M12	1
SK50-SLA16-100	16	48	100	M14	1
SK50-SLA18-100	18	50	100	M14	1
SK50-SLA20-100	20	52	100	M16	1
SK50-SLA32-100	32	72	100	M20*2	2
SK50-SLA40-100	40	80	100	M20*2	2
SK50-SLA25-120	25	65	120	M18*2	2
SK50-SLA50-120	50	100	120	M24*2	2
SK50-SLA06-160	6	25	160	M6	1
SK50-SLA08-160	8	28	160	M8	1
SK50-SLA10-160	10	35	160	M10	1
SK50-SLA12-160	12	42	160	M12	1
SK50-SLA14-160	14	44	160	M12	1
SK50-SLA16-160	16	48	160	M14	1
SK50-SLA18-160	18	50	160	M14	1
SK50-SLA20-160	20	52	160	M16	1
SK50-SLA25-160	25	65	160	M18*2	2
SK50-SLA32-160	32	72	160	M20*2	2
SK50-SLA40-160	40	80	160	M20*2	2

Morse Taper Adapter with Tang



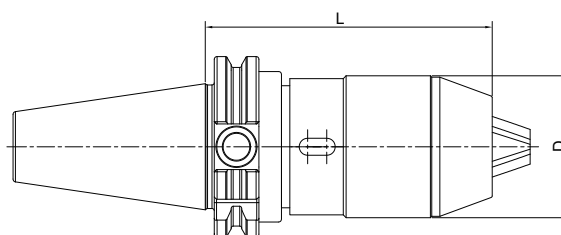
		
DIN6383	≤0.005	G6.3/15000



Unit:mm

Size	MT. NO.	D	L
SK40-MTA1-50	1	25	50
SK40-MTA2-50	2	32	50
SK40-MTA3-70	3	40	70
SK40-MTA4-95	4	48	95
SK50-MTA1-45	1	25	45
SK50-MTA2-60	2	32	60
SK50-MTA3-65	3	40	65
SK50-MTA4-95	4	48	95
SK50-MTA4-105	5	63	105

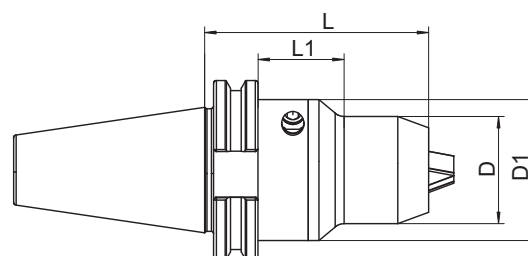
APU Drill Chuck Holder



Unit:mm

Size	D	L	Capacity
SK40-APU08-85	38	85	1-8
SK40-APU13-100	48	100	1-13
SK40-APU16-110	53	110	3-16
SK50-AP08-75	38	75	1-8
SK50-APU13-100	48	100	1-13
SK50-APU16-100	53	100	3-16

Precision Drill Chuck Holder



A ↗
≤0.03

Unit:mm

Size	D	D1	L	L1	Capacity
SK40-CPU13-90	50	-	90	-	1-13
SK40-CPU16-90	50	-	90	-	1-16
SK50-CPU13-100	50	-	100	-	1-13
SK50-CPU16-100	50	-	100	-	1-16



DIN69893 HSK-A

Hydraulic Chuck, Standard----- **P36–38**

Hydraulic Chuck, Power Design----- **P39**

Shrink Fit Chuck, 4.5° , Standard----- **P40–42**

HSK-GSK High Speed Collet Chuck----- **P43**

HSK-ER Collet Chuck----- **P44–45**

Power Milling Chuck----- **P46**

Face Mill Holder----- **P47–49**

Side Lock Holder----- **P50–51**

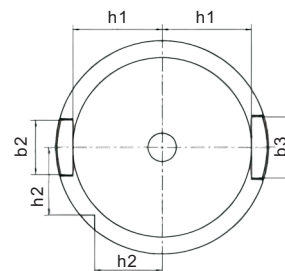
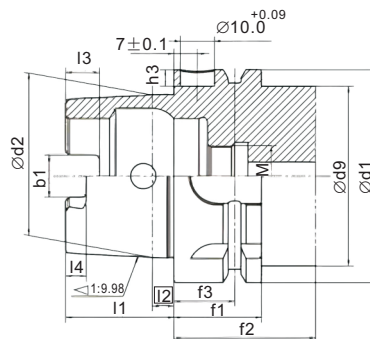
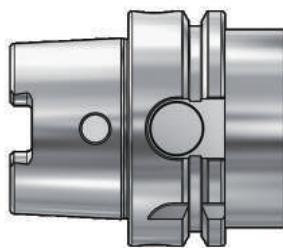
Morse Taper Adapter with Tang----- **P52**

APU Drill Chuck Holder----- **P53**

Precision Drill Chuck Holder----- **P53**

Runout Adjustable Flange Adapter----- **P54**

HSK-A Taper Standard



Unit:mm

Size	d1	d2	d9	l1	l2	l3	l4	f1	f2	f3	h1	h2	h3	b1	b2	b3
HSK25A	25	19.006	20	13	2.5	4	2	10	20	4.5	10	7.5	-	6.05	6	7
HSK32A	32	24.007	26	16	3.2	5	3	20	35	16	13	9.5	5.4	7.05	7	9
HSK40A	40	30.007	34	20	4	6	3.5	20	35	16	17	12	5.2	8.05	9	11
HSK50A	50	38.009	42	25	5	7.5	4.5	26	42	18	21	15.5	5.1	10.54	12	14
HSK63A	63	48.010	53	32	6.3	10	6	26	42	18	26.5	20	5.0	12.54	16	18
HSK80A	80	60.012	68	40	8	12	8	26	42	18	34	25	4.9	16.04	18	20
HSK100A	100	75.013	88	50	10	15	10	29	45	20	44	31.5	4.9	20.02	20	22

Taper standard: DIN 69893; ISO 12164

Material: Alloyed case hardened steel

Surface Treatment: Blackening and Bright

Taper tolerance: < AT3

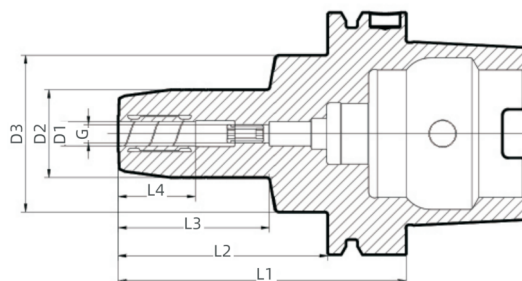
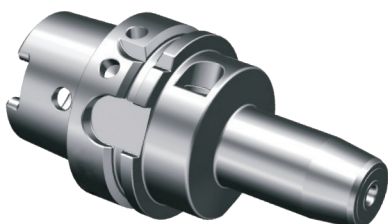
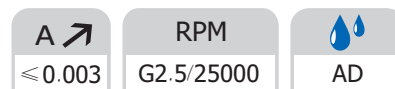
Hardness: HRC 56-60

Carbon depth: 0.8 ± 0.2 mm

Surface Roughness: $Ra < 0.2 \mu m$

Balancing: G6.3/15000; G2.5/25000

Hydraulic Chuck, Standard



Unit:mm

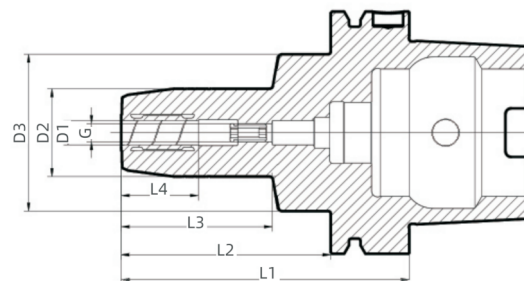
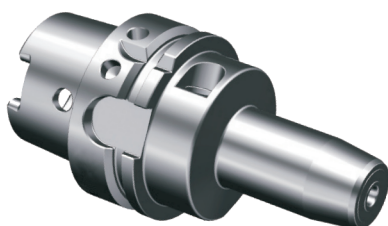
Size	D1	D2	D3	L1	L2	L3	L4	Wrench
HSK63THY06070M	6	26	51.8	70	44	24.7	26	SW5
HSK63THY06080M	6	26	51.8	80	54	34.7	26	SW5
HSK63THY06120M	6	26	51.8	120	94	74.7	26	SW5
HSK63THY06125M	6	26	51.8	125	99	79.7	26	SW5
HSK63THY06200M	6	26	51.8	200	174	154.7	26	SW5
HSK63THY08070M	8	28	51.8	70	44	24.9	27	SW5
HSK63THY08080M	8	28	51.8	80	54	34.9	27	SW5
HSK63THY08120M	8	28	51.8	120	94	74.9	27	SW5
HSK63THY08125M	8	28	51.8	125	99	79.9	27	SW5
HSK63THY08200M	8	28	51.8	200	174	154.9	27	SW5
HSK63THY10080M	10	30	51.8	80	54	35	30	SW5
HSK63THY10085M	10	30	51.8	85	59	40	30	SW5
HSK63THY10120M	10	30	51.8	120	94	75	30	SW5
HSK63THY10125M	10	30	51.8	125	99	80	30	SW5
HSK63THY10200M	10	30	51.8	200	174	155	30	SW5
HSK63THY12085M	12	32	51.8	85	59	40.2	36	SW5
HSK63THY12090M	12	32	51.8	90	64	45.2	36	SW5
HSK63THY12120M	12	32	51.8	120	94	75.2	36	SW5
HSK63THY12200M	12	32	51.8	200	174	155.2	36	SW5
HSK63THY14085M	14	34	51.8	85	59	40.4	39	SW5
HSK63THY14090M	14	34	51.8	90	64	45.4	39	SW5
HSK63THY14120M	14	34	51.8	120	94	75.4	39	SW5
HSK63THY14200M	14	34	51.8	200	174	155.4	39	SW5
HSK63THY16090M	16	38	51.8	90	64	45.7	40	SW5
HSK63THY16120M	16	38	51.8	120	94	75.7	40	SW5
HSK63THY16200M	16	38	51.8	200	174	155.7	40	SW5

★ Collet and Drive Key need to be ordered separately.

★ Collet P55-P61, Drive Key P81

Hydraulic Chuck, Standard

A ↗ ≤ 0.003	RPM G2.5/25000	 AD
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Unit:mm

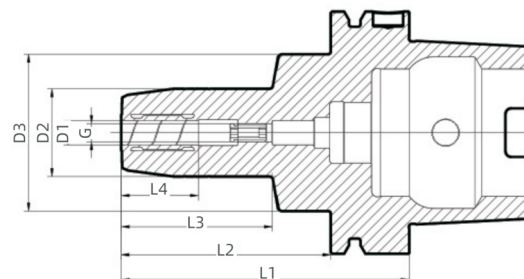
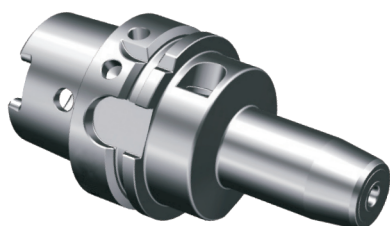
Size	D1	D2	D3	L1	L2	L3	L4	Wrench
HSK63THY18090M	18	40	51.8	90	64	45.9	41	SW5
HSK63THY18120M	18	40	51.8	120	94	75.9	41	SW5
HSK63THY18200M	18	40	51.8	200	174	155.9	41	SW5
HSK63THY20090M	20	42	51.8	90	64	46.1	41	SW5
HSK63THY20100M	20	42	51.8	100	74	56.1	41	SW5
HSK63THY20120M	20	42	51.8	120	94	76.1	41	SW5
HSK63THY20125M	20	42	51.8	125	99	81.1	41	SW5
HSK63THY20200M	20	42	51.8	200	174	156.1	41	SW5
HSK63THY25115M	25	57	64.8	115	89	55.9	47	SW5
HSK63THY25120M	25	57	64.8	120	94	60.9	47	SW5
HSK63THY32120M	32	63	74.8	120	94	59.8	51	SW6
HSK63THY32125M	32	63	74.8	125	99	64.8	51	SW6

★ Collet and Drive Key need to be ordered separately.

★ Collet P55-P61, Drive Key P81

Hydraulic Chuck, Standard

A ↗ ≤ 0.003	RPM G2.5/25000	 AD
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Unit:mm

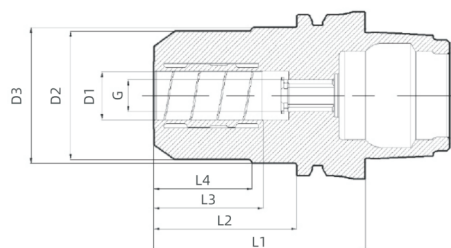
Size	D1	D2	D3	L1	L2	L3	L4	Wrench
HSK100THY06075M	6	26	57.8	75	46	23.1	26	SW5
HSK100THY06110M	6	26	57.8	110	81	58.1	26	SW5
HSK100THY06150M	6	26	57.8	150	121	98.1	26	SW5
HSK100THY08075M	8	28	57.8	75	46	23.3	26	SW5
HSK100THY08110M	8	28	57.8	110	81	58.3	26	SW5
HSK100THY08150M	8	28	57.8	150	121	98.3	26	SW5
HSK100THY10090M	10	30	57.8	90	61	38.5	30	SW5
HSK100THY10110M	10	30	57.8	110	81	58.5	30	SW5
HSK100THY10150M	10	30	57.8	150	121	98.5	30	SW5
HSK100THY12095M	12	32	57.8	95	66	43.7	36	SW5
HSK100THY12110M	12	32	57.8	110	81	58.7	36	SW5
HSK100THY12150M	12	32	57.8	150	121	98.7	36	SW5
HSK100THY14095M	14	34	57.8	95	66	43.9	36	SW5
HSK100THY14150M	14	34	57.8	150	121	98.9	36	SW5
HSK100THY16100M	16	38	57.8	100	71	49.2	40	SW5
HSK100THY16150M	16	38	57.8	150	121	99.2	40	SW5
HSK100THY18100M	18	40	57.8	100	71	49.4	41	SW5
HSK100THY18150M	18	40	57.8	150	121	99.4	41	SW5
HSK100THY20105M	20	42	57.8	105	76	54.6	41	SW5
HSK100THY20150M	20	42	57.8	150	121	99.6	41	SW5
HSK100THY25110M	25	57	64.8	110	81	60.3	47	SW5
HSK100THY32110M	32	63	74.8	110	81	59.9	51	SW6

★Collet and Drive Key need to be ordered separately.

★Collet P55-P61, Drive Key P81

Hydraulic Chuck, Power Design

A ↗ ≤ 0.003	RPM G2.5/25000	AD
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Unit:mm

Size	D1	D2	D3	L1	L2	L3	L4	Wrench
HTHSK63THY12080M	12	42	51.8	80	54	36.1	36	SW5
HTHSK63THY16080M	16	49	51.8	80	54	36.8	40	SW5
HTHSK63THY20080M	20	49	51.8	80	54	36.8	41	SW5

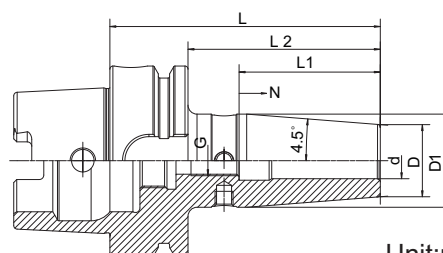
★ Collet and Drive Key need to be ordered separately.

★ Collet P55-P61, Drive Key P81

Shrink Fit Chuck, 4.5° , Standard



A ↗	RPM	
≤0.003	G2.5/25000	AD



Unit:mm

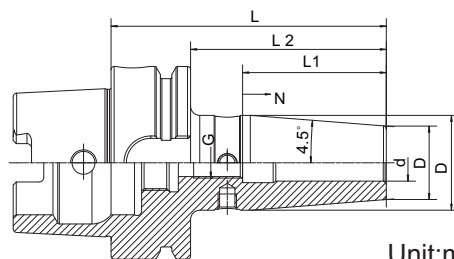
Size	d	D	D1	L	L2	L1	N	G
HSK63A-SF06-80	6	21	26.5	80	54	36	10	M5
HSK63A-SF08-80	8	21	26.5	80	54	36	10	M6
HSK63A-SF10-85	10	24	30.5	85	59	42	10	M8x1
HSK63A-SF12-90	12	24	31	90	64	47	10	M10x1
HSK63A-SF14-90	14	27	34	90	64	47	10	M10x1
HSK63A-SF16-95	16	27	34	95	69	50	10	M12x1
HSK63A-SF18-95	18	33	41	95	69	50	10	M12x1
HSK63A-SF20-100	20	33	42	100	74	52	10	M16x1
HSK63A-SF25-115	25	44	52.5	115	89	58	10	M16x1
HSK63A-SF04-120	4	15	20	120	94	-	-	-
HSK63A-SF05-120	5	15	20	120	94	-	-	-
HSK63A-SF06-120	6	21	27	120	94	36	10	M5
HSK63A-SF08-120	8	21	27	120	94	36	10	M6
HSK63A-SF10-120	10	24	32	120	94	42	10	M8x1
HSK63A-SF12-120	12	24	32	120	94	47	10	M10x1
HSK63A-SF14-120	14	27	34	120	94	47	10	M10x1
HSK63A-SF16-120	16	27	34	120	94	50	10	M12x1
HSK63A-SF18-120	18	33	42	120	94	50	10	M12x1
HSK63A-SF20-120	20	33	42	120	94	52	10	M16x1
HSK63A-SF25-120	25	44	52.5	120	94	58	10	M16x1
HSK63A-SF32-120	32	44	52.5	120	94	62	10	M16x1

Shrink Fit Chuck, 4.5° , Standard

A ↗
≤0.003

RPM
G2.5/25000

AD

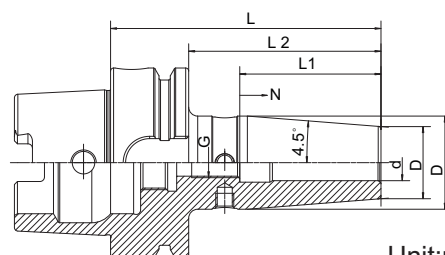


Unit:mm

Size	d	D	D1	L	L2	L1	N	G
HSK63A-SF04-160	4	15	25	160	134	-	-	-
HSK63A-SF05-160	5	15	25	160	134	-	-	-
HSK63A-SF06-160	6	21	32	160	134	36	10	M5
HSK63A-SF08-160	8	21	32	160	134	36	10	M6
HSK63A-SF10-160	10	24	34	160	134	42	10	M8x1
HSK63A-SF12-160	12	24	34	160	134	47	10	M10x1
HSK63A-SF14-160	14	27	42	160	134	47	10	M10x1
HSK63A-SF16-160	16	27	42	160	134	50	10	M12x1
HSK63A-SF18-160	18	33	51	160	134	50	10	M12x1
HSK63A-SF20-160	20	33	51	160	134	52	10	M16x1
HSK63A-SF25-160	25	44	52.5	160	134	58	10	M16x1
HSK63A-SF32-160	32	44	52.5	160	134	62	10	M16x1

Shrink Fit Chuck, 4.5° , Standard

A ↗	RPM	
≤0.003	G2.5/25000	AD

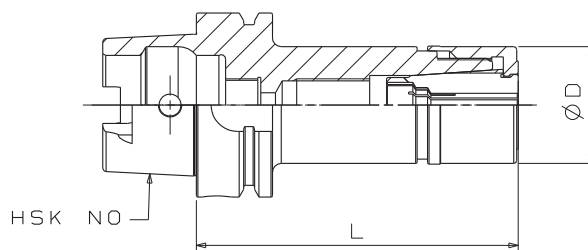
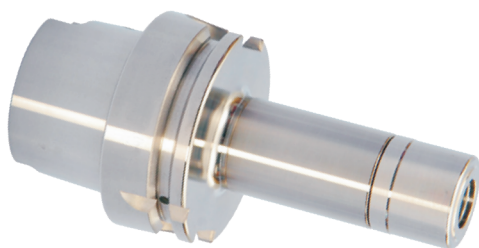


Unit:mm

Size	d	D	D1	L	L2	L1	N	G
HSK100A-SF06-85	6	21	26.5	85	56	36	10	M5
HSK100A-SF08-85	8	21	26.5	85	56	36	10	M6
HSK100A-SF10-90	10	24	30.5	90	61	42	10	M8x1
HSK100A-SF12-95	12	24	31	95	66	47	10	M10x1
HSK100A-SF14-95	14	27	34	95	66	47	10	M10x1
HSK100A-SF16-100	16	27	34	100	71	50	10	M12x1
HSK100A-SF18-100	18	33	41	100	71	50	10	M12x1
HSK100A-SF20-105	20	33	42	105	76	52	10	M16x1
HSK100A-SF25-115	25	44	53	115	86	58	10	M16x1
HSK100A-SF06-120	6	21	27	120	91	36	10	M5
HSK100A-SF08-120	8	21	27	120	91	36	10	M6
HSK100A-SF10-120	10	24	32	120	91	42	10	M8x1
HSK100A-SF12-120	12	24	32	120	91	47	10	M10x1
HSK100A-SF14-120	14	27	34	120	91	47	10	M10x1
HSK100A-SF16-120	16	27	34	120	91	50	10	M12x1
HSK100A-SF18-120	18	33	42	120	91	50	10	M12x1
HSK100A-SF20-120	20	33	42	120	91	52	10	M16x1
HSK100A-SF25-120	25	44	53	120	91	58	10	M16x1
HSK100A-SF32-120	32	44	53	120	91	62	10	M16x1
HSK100A-SF06-160	6	21	32	160	131	36	10	M5
HSK100A-SF08-160	8	21	32	160	131	36	10	M6
HSK100A-SF10-160	10	24	34	160	131	42	10	M8x1
HSK100A-SF12-160	12	24	34	160	131	47	10	M10x1
HSK100A-SF14-160	14	27	42	160	131	47	10	M10x1
HSK100A-SF16-160	16	27	42	160	131	50	10	M12x1
HSK100A-SF18-160	18	33	50.5	160	131	50	10	M12x1
HSK100A-SF20-160	20	33	50.5	160	131	52	10	M16x1
HSK100A-SF25-160	25	44	60	160	131	58	10	M16x1
HSK100A-SF32-160	32	44	60	160	131	62	10	M16x1

HSK-GSK High Speed Collet Chuck

A ↗	RPM	
≤0.003	G2.5/30000	AD



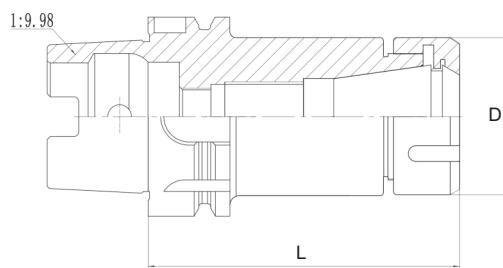
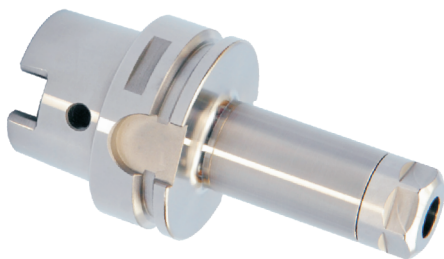
Unit:mm

Size	Range	L	D	Collet	Nut	Wrench
HSK63A-GSK06T-100	1-6	100	19.5	CSK06	GSK06	GH19
HSK63A-GSK06T-120	1-6	120	19.5	CSK06	GSK06	GH19
HSK63A-GSK10T-60	1-10	60	27.1	CSK10	GSK10	GH27
HSK63A-GSK10T-80	1-10	80	27.1	CSK10	GSK10	GH27
HSK63A-GSK10T-100	1-10	100	27.1	CSK10	GSK10	GH27
HSK63A-GSK10T-120	1-10	120	27.1	CSK10	GSK10	GH27
HSK63A-GSK13T-90	2-13	90	33.0	CSK13	GSK13	GH33
HSK63A-GSK13T-120	2-13	120	33.0	CSK13	GSK13	GH33
HSK63A-GSK16T-80	2-16	80	40.0	CSK16	GSK16	GH40
HSK63A-GSK16T-100	2-16	100	40.0	CSK16	GSK16	GH40
HSK63A-GSK16T-120	2-16	120	40.0	CSK16	GSK16	GH40
HSK63A-GSK20T-100	3-20	100	48.0	CSK20	GSK20	GH48
HSK63A-GSK20T-120	3-20	120	48.0	CSK20	GSK20	GH48
HSK63A-GSK25T-100	4-25	100	55.0	CSK25	GSK25	GH55
HSK63A-GSK25T-120	4-25	120	55.0	CSK25	GSK25	GH55
HSK100A-GSK06T-120	1-6	120	19.5	CSK06	GSK06	GH19
HSK100A-GSK10T-120	1-10	120	27.1	CSK10	GSK10	GH27
HSK100A-GSK10T-135	1-10	135	27.1	CSK10	GSK10	GH27
HSK100A-GSK10T-165	1-10	165	27.1	CSK10	GSK10	GH27
HSK100A-GSK10T-250	1-10	250	27.1	CSK10	GSK10	GH27
HSK100A-GSK13T-135	2-13	135	33.0	CSK13	GSK13	GH33
HSK100A-GSK13T-250	2-13	250	33.0	CSK13	GSK13	GH33
HSK100A-GSK16T-120	2-16	120	40.0	CSK16	GSK16	GH40
HSK100A-GSK16T-160	2-16	160	40.0	CSK16	GSK16	GH40
HSK100A-GSK16T-250	2-16	250	40.0	CSK16	GSK16	GH40

★Collet and Wrench need to be ordered separately.

★Collet P74-P79,Wrench P80

HSK-ER Collet Chuck



A ↗	RPM	AD
≤0.003	G2.5/30000	

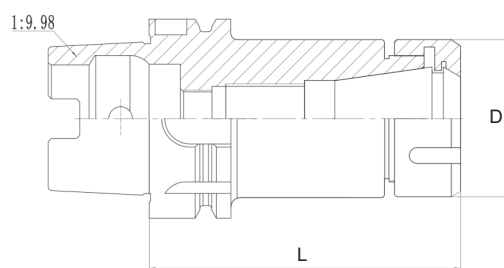
Unit:mm

Size	Range	L	D	Collet	Nut	Wrench
HSK63A-ER11-100	1-7	100	19	ER11	ER11A	WER11A
HSK63A-ER16-70	1-10	70	28	ER16	ER16A	WER16A
HSK63A-ER16-80	1-10	80	28	ER16	ER16A	WER16A
HSK63A-ER16-100	1-10	100	28	ER16	ER16A	WER16A
HSK63A-ER16-125	1-10	125	28	ER16	ER16A	WER16A
HSK63A-ER16-160	1-10	160	28	ER16	ER16A	WER16A
HSK63A-ER20-80	1-13	80	34	ER20	ER20A	WER20A
HSK63A-ER20-100	1-13	100	34	ER20	ER20A	WER20A
HSK63A-ER20-125	1-13	125	34	ER20	ER20A	WER20A
HSK63A-ER20-160	1-13	160	34	ER20	ER20A	WER20A
HSK63A-ER25-70	1-16	70	42	ER25	ER25UM	WER25UM
HSK63A-ER25-80	1-16	80	42	ER25	ER25UM	WER25UM
HSK63A-ER25-100	1-16	100	42	ER25	ER25UM	WER25UM
HSK63A-ER25-125	1-16	125	42	ER25	ER25UM	WER25UM
HSK63A-ER25-160	1-16	160	42	ER25	ER25UM	WER25UM
HSK63A-ER25-300	1-16	300	42	ER25	ER25UM	WER25UM
HSK63A-ER32-80	1-20	80	50	ER32	ER32UM	WER32UM
HSK63A-ER32-100	1-20	100	50	ER32	ER32UM	WER32UM
HSK63A-ER32-125	1-20	125	50	ER32	ER32UM	WER32UM
HSK63A-ER32-160	1-20	160	50	ER32	ER32UM	WER32UM
HSK63A-ER32-250	1-20	250	50	ER32	ER32UM	WER32UM
HSK63A-ER40-100	3-26	100	63	ER40	ER40UM	WER40UM
HSK63A-ER40-120	3-26	120	63	ER40	ER40UM	WER40UM
HSK63A-ER40-160	3-26	160	63	ER40	ER40UM	WER40UM

★Collet and Wrench need to be ordered separately.

★Collet P63-P71,Wrench P73

HSK-ER Collet Chuck



A ↗	RPM	
≤0.003	G2.5/30000	AD

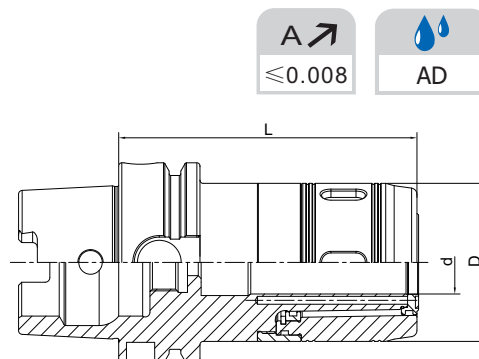
Unit:mm

Size	Range	L	D	Collet	Nut	Wrench
HSK100A-ER16-100	1-10	100	28	ER16	ER16A	WER16A
HSK100A-ER16-125	1-10	125	28	ER16	ER16A	WER16A
HSK100A-ER16-160	1-10	160	28	ER16	ER16A	WER16A
HSK100A-ER16-200	1-10	200	28	ER16	ER16A	WER16A
HSK100A-ER16-250	1-10	250	28	ER16	ER16A	WER16A
HSK100A-ER20-100	1-13	100	34	ER20	ER20A	WER20A
HSK100A-ER20-125	1-13	125	34	ER20	ER20A	WER20A
HSK100A-ER20-160	1-13	160	34	ER20	ER20A	WER20A
HSK100A-ER20-200	1-13	200	34	ER20	ER20A	WER20A
HSK100A-ER20-250	1-13	250	34	ER20	ER20A	WER20A
HSK100A-ER25-100	1-16	100	42	ER25	ER25UM	WER25UM
HSK100A-ER25-125	1-16	125	42	ER25	ER25UM	WER25UM
HSK100A-ER25-160	1-16	160	42	ER25	ER25UM	WER25UM
HSK100A-ER25-200	1-16	200	42	ER25	ER25UM	WER25UM
HSK100A-ER25-250	1-16	250	42	ER25	ER25UM	WER25UM
HSK100A-ER32-100	1-20	100	50	ER32	ER32UM	WER32UM
HSK100A-ER32-125	1-20	125	50	ER32	ER32UM	WER32UM
HSK100A-ER32-160	1-20	160	50	ER32	ER32UM	WER32UM
HSK100A-ER32-250	1-20	250	50	ER32	ER32UM	WER32UM
HSK100A-ER40-100	3-26	100	63	ER40	ER40UM	WER40UM
HSK100A-ER40-125	3-26	125	63	ER40	ER40UM	WER40UM
HSK100A-ER40-200	3-26	200	63	ER40	ER40UM	WER40UM
HSK100A-ER40-250	3-26	250	63	ER40	ER40UM	WER40UM
HSK100A-ER40-300	3-26	300	63	ER40	ER40UM	WER40UM

★Collet and Wrench need to be ordered separately.

★Collet P63-P71,Wrench P73

Power Milling Chuck



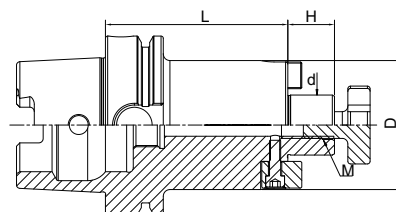
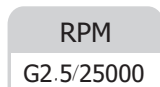
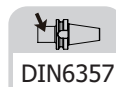
Unit:mm

Size	d	D	L	Capacity
HSK63A-HC20-100	20	50	100	3-16; 20
HSK63A-HC25-100	25	59	100	3-20; 25
HSK63A-HC32-120	32	72	120	3-25; 32
HSK100A-HC20-105	20	50	105	3-16; 20
HSK100A-HC25-105	25	59	105	3-20; 25
HSK100A-HC32-120	32	72	120	3-25; 32

★Collet and Wrench need to be ordered separately.

★Collet P62,Wrench P62

Face Mill Holder

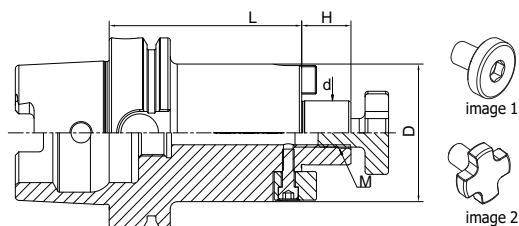
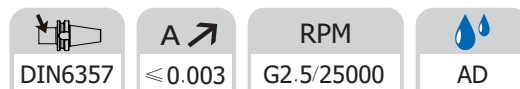


Unit:mm

Size	d	D	H	L	M
HSK63A-FMB16-50	16	38	17	50	M8
HSK63A-FMB22-50	22	48	19	50	M10
HSK63A-FMB27-60	27	58	21	60	M12
HSK63A-FMB32-60	32	78	24	60	M16
HSK63A-FMB16-100	16	38	17	100	M8
HSK63A-FMB22-100	22	48	19	100	M10
HSK63A-FMB27-100	27	58	21	100	M12
HSK63A-FMB32-100	32	78	24	100	M16
HSK63A-FMB16-160	16	38	17	160	M8
HSK63A-FMB22-160	22	48	19	160	M10
HSK63A-FMB27-160	27	58	21	160	M12
HSK63A-FMB32-160	32	78	24	160	M16

Face mill holder is with retaining screw (image 2) except China, it is with universal screw (image 1) in China.
AD/B Customized

Face Mill Holder



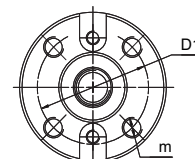
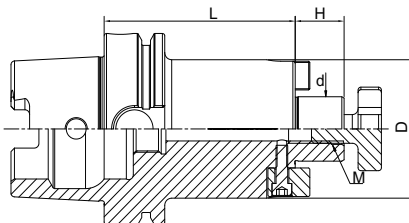
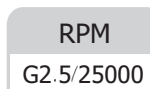
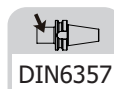
Unit:mm

Size	d	D	H	L	M
HSK100A-FMB22-50	22	48	19	50	M10
HSK100A-FMB27-50	27	58	21	50	M12
HSK100A-FMB32-60	32	78	24	60	M16
HSK100A-FMB22-100	22	48	19	100	M10
HSK100A-FMB27-100	27	58	21	100	M12
HSK100A-FMB32-100	32	78	24	100	M16
HSK100A-FMB22-160	22	48	19	160	M10
HSK100A-FMB27-160	27	58	21	160	M12
HSK100A-FMB32-160	32	78	24	160	M16

Universal screw (image 1) for Chinese market.

Retaining screw (image 2) for the market out of China.

Face Mill Holder



Unit:mm

Size	d	D	D1	H	L	M	m
HSK63A-FMB40-60	40	88	66.7	27	60	M20	M12
HSK63A-FMB40-100	40	88	66.7	27	100	M20	M12
HSK63A-FMB40-160	40	88	66.7	27	160	M20	M12
HSK100A-FMB40-60	40	88	66.7	27	60	M20	M12
HSK100A-FMB40-100	40	88	66.7	27	100	M20	M12
HSK100A-FMB40-160	40	88	66.7	27	160	M20	M12

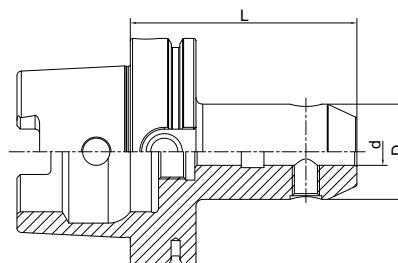
One universal screw (image 1) and 4 cap screws for Chinese market.

One retaining screw (image 2) and 4 cap screws for the market out of China.

Side Lock Holder



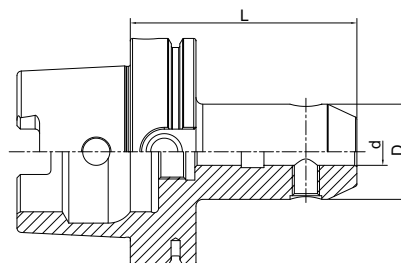
 DIN6359/1835B	 A ≤ 0.005	 RPM G2.5/25000	 AD
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Unit:mm

Size	d	D	L	M	Screw Quantity
HSK63A-SLA06-65	6	25	65	M6	1
HSK63A-SLA08-65	8	28	65	M8	1
HSK63A-SLA10-65	10	35	65	M10	1
HSK63A-SLA12-80	12	42	80	M12	1
HSK63A-SLA14-80	14	44	80	M12	1
HSK63A-SLA16-80	16	48	80	M14	1
HSK63A-SLA20-80	20	52	80	M16	1
HSK63A-SLA25-110	25	65	110	M18*2	2
HSK63A-SLA32-110	32	72	110	M20*2	2
HSK63A-SLA40-125	40	80	125	M20*2	2
HSK63A-SLA06-100	6	25	100	M6	1
HSK63A-SLA08-100	8	28	100	M8	1
HSK63A-SLA10-100	10	35	100	M10	1
HSK63A-SLA14-100	14	44	100	M12	1
HSK63A-SLA16-100	16	48	100	M12	1
HSK63A-SLA18-100	18	50	100	M14	1
HSK63A-SLA20-100	20	52	100	M16	1
HSK63A-SLA06-160	6	25	160	M6	1
HSK63A-SLA08-160	8	28	160	M8	1
HSK63A-SLA10-160	10	35	160	M10	1
HSK63A-SLA12-160	12	42	160	M12	1
HSK63A-SLA14-160	14	44	160	M12	1
HSK63A-SLA16-160	16	48	160	M14	1
HSK63A-SLA18-160	18	50	160	M14	1
HSK63A-SLA20-160	20	52	160	M16	1
HSK63A-SLA25-160	25	65	160	M18*2	2
HSK63A-SLA32-160	32	72	160	M20*2	2

Side Lock Holder



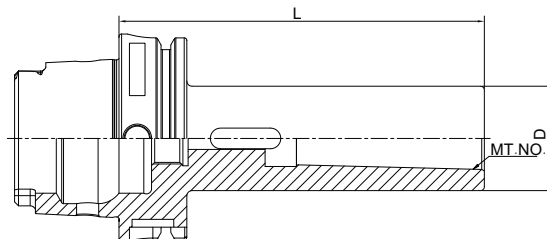
Unit:mm

Size	d	D	L	M	Screw Quantity
HSK100A-SLA08-80	8	28	80	M8	1
HSK100A-SLA10-80	10	35	80	M10	1
HSK100A-SLA12-80	12	42	80	M12	1
HSK100A-SLA14-80	14	44	80	M12	1
HSK100A-SLA16-100	16	48	100	M14	1
HSK100A-SLA18-100	18	50	100	M14	1
HSK100A-SLA20-100	20	52	100	M16	1
HSK100A-SLA25-100	25	65	100	M18*2	2
HSK100A-SLA32-100	32	72	100	M20*2	2
HSK100A-SLA40-105	40	80	105	M20*2	2
HSK100A-SLA50-130	50	100	130	M24*2	2
HSK100A-SLA08-160	8	28	160	M8	1
HSK100A-SLA10-160	10	35	160	M10	1
HSK100A-SLA12-160	12	42	160	M12	1
HSK100A-SLA14-160	14	44	160	M12	1
HSK100A-SLA16-160	16	48	160	M14	1
HSK100A-SLA18-160	18	50	160	M14	1
HSK100A-SLA20-160	20	52	160	M16	1
HSK100A-SLA25-160	25	65	160	M18*2	2
HSK100A-SLA32-160	32	72	160	M20*2	2
HSK100A-SLA40-160	40	80	160	M20*2	2

Morse Taper Adapter with Tang



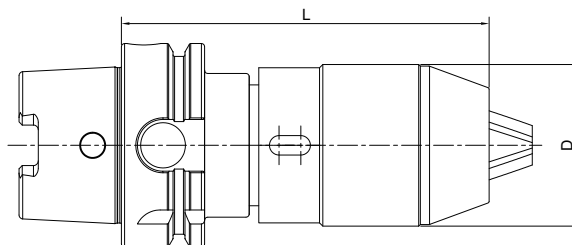
 DIN6383	 A ≤ 0.005	RPM G2.5/25000
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Unit:mm

Size	MT. NO.	D	L
HSK63A-MTA1-100	1	25	100
HSK63A-MTA2-120	2	32	120
HSK63A-MTA3-140	3	40	140
HSK63A-MTA4-160	4	48	160
HSK100A-MTA1-110	1	25	110
HSK100A-MTA2-120	2	32	120
HSK100A-MTA3-150	3	40	150
HSK100A-MTA4-170	4	48	170
HSK100A-MTA5-200	5	63	200

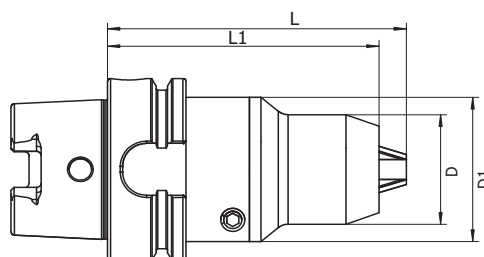
APU Drill Chuck Holder



Unit:mm

Size	D	L	Clamping Range
HSK63A-APU13-130	48	130	1-13
HSK63A-APU16-140	53	140	3-16
HSK100A-APU13-140	48	140	1-13
HSK100A-APU16-150	53	150	3-16

Precision Drill Chuck Holder



A ↗
≤ 0.03

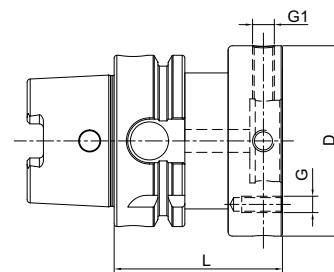
Unit:mm

Size	D	D1	L	L1	Clamping Range
HSK63A-CPU13-100	50	-	100	-	1-13
HSK63A-CPU16-100	50	-	100	-	1-16
HSK100A-CPU13-105	50	-	105	-	1-13
HSK100A-CPU16-105	50	-	105	-	1-16

Runout Adjustable Flange Adapter



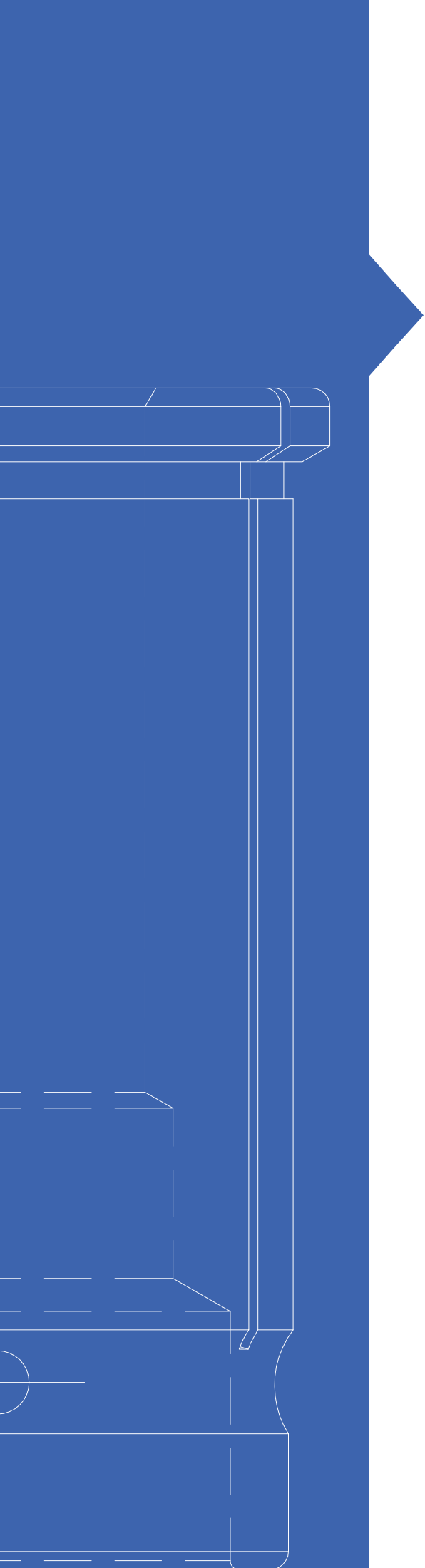
A ↗ ≤ 0.002	RPM G2.5/25000	AD
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Unit:mm

Size	HSK-A	D	L	G	G1
HSK63A-MOD060-060	63	60	60	M5	M8x1
HSK63A-MOD070-060	63	70	60	M6	M8x1
HSK63A-MOD080-060	63	80	60	M6	M8x1
HSK63A-MOD100-065	63	100	65	M8	M10x1
HSK63A-MOD117-065	63	117	65	M8	M10x1
HSK100A-MOD070-055	100	70	55	M6	M8x1
HSK100A-MOD080-055	100	80	55	M6	M8x1
HSK100A-MOD100-065	100	100	65	M8	M10x1
HSK100A-MOD117-065	100	117	65	M8	M10x1

HSK

A technical line drawing on the left side of the page shows a detailed view of a collet assembly. It includes a cross-section of a collet body, a straight shank collet, and various internal components like a hook wrench, ER collet nut, and drive key. The drawing is rendered in white lines on a dark blue background.

ACCESSORY

Hydraulic Sealed Collet (Internal cooling)----- **P55-58**

Hydraulic Sealed Collet (End-face cooling)--- **P59-61**

Straight Shank Collet----- **P62**

Hook Wrench----- **P62**

ER Collet DIN6499B----- **P63-66**

ER/C Collet (Oil Hole Type)----- **P67-71**

ER Collet Nut----- **P72**

ER Wrench----- **P73**

CSK High Speed Collet----- **P74-76**

CSK/C High Speed Collet (Oil Hole Type)--- **P77-79**

GSK High Speed Nut----- **P80**

GSK Ball Wrench----- **P80**

Nozzle----- **P81**

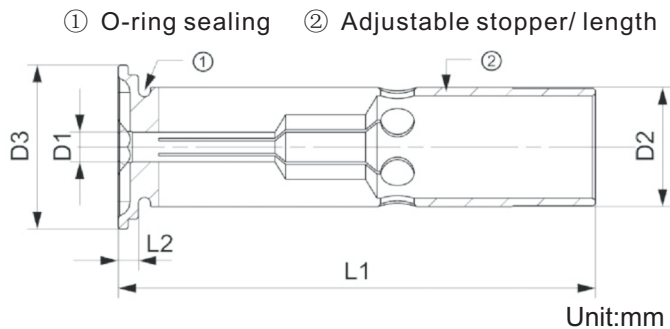
Nozzle Key----- **P81**

Drive Key----- **P81**

Pull Stud----- **P82-84**

Hydraulic Sealed Collet (Internal cooling)

A ↗
≤ 0.003



Size	D1	D2	D3	L1	L2	Accuracy grade
HY01200030IC-AA	3	12	16.5	47	2	AA
HY01200040IC-AA	4	12	16.5	47	2	AA
HY01200050IC-AA	5	12	16.5	47	2	AA
HY01200060IC-AA	6	12	16.5	47	2	AA
HY01200080IC-AA	8	12	16.5	47	2	AA
HY01200100IC-AA	10	12	16.5	47	2	AA

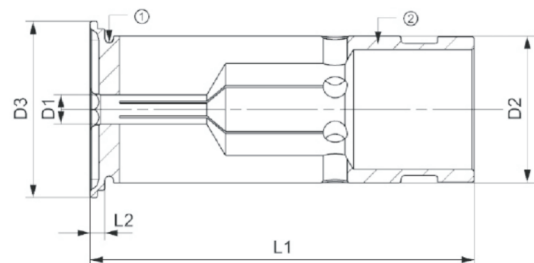
- Accuracy grade: $1\mu\text{m} < \text{AA} \leq 3\mu\text{m}$

Hydraulic Sealed Collet (Internal cooling)

A ↗
≤ 0.003



① O-ring sealing ② Adjustable stopper/ length



Unit:mm

Size	D1	D2	D3	L1	L2	Accuracy grade
HY02000030IC-AA	3	20	24	52.5	2	AA
HY02000040IC-AA	4	20	24	52.5	2	AA
HY02000050IC-AA	5	20	24	52.5	2	AA
HY02000060IC-AA	6	20	24	52.5	2	AA
HY02000070IC-AA	7	20	24	52.5	2	AA
HY02000080IC-AA	8	20	24	52.5	2	AA
HY02000090IC-AA	9	20	24	52.5	2	AA
HY02000100IC-AA	10	20	24	52.5	2	AA
HY02000110IC-AA	11	20	24	52.5	2	AA
HY02000120IC-AA	12	20	24	52.5	2	AA
HY02000130IC-AA	13	20	24	52.5	2	AA
HY02000140IC-AA	14	20	24	52.5	2	AA
HY02000150IC-AA	15	20	24	52.5	2	AA
HY02000160IC-AA	16	20	24	52.5	2	AA

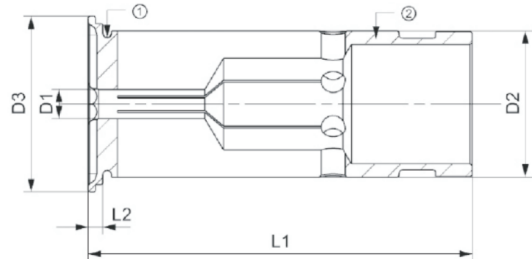
- Accuracy grade: $1\mu\text{m} < \text{AA} \leq 3\mu\text{m}$

Hydraulic Sealed Collet (Internal cooling)

A ↗
≤ 0.003



① O-ring sealing ② Adjustable stopper/ length



Unit:mm

Size	D1	D2	D3	L1	L2	Accuracy grade
HY02500060IC-AA	6	25	29	56.5	2	AA
HY02500080IC-AA	8	25	29	56.5	2	AA
HY02500100IC-AA	10	25	29	56.5	2	AA
HY02500120IC-AA	12	25	29	56.5	2	AA
HY02500140IC-AA	14	25	29	56.5	2	AA
HY02500160IC-AA	16	25	29	56.5	2	AA
HY02500180IC-AA	18	25	29	56.5	2	AA
HY02500200IC-AA	20	25	29	56.5	2	AA

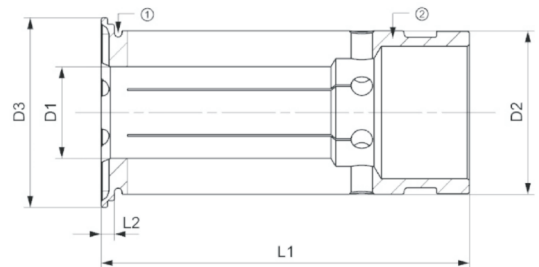
- Accuracy grade: $1\mu\text{m} < \text{AA} \leq 3\mu\text{m}$

Hydraulic Sealed Collet (Internal cooling)

A ↗
≤ 0.003



① O-ring sealing ② Adjustable stopper/ length



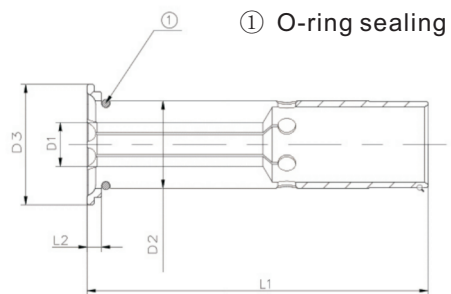
Unit:mm

Size	D1	D2	D3	L1	L2	Accuracy grade
HY03200060IC-AA	6	32	35.5	62.5	2	AA
HY03200080IC-AA	8	32	35.5	62.5	2	AA
HY03200100IC-AA	10	32	35.5	62.5	2	AA
HY03200120IC-AA	12	32	35.5	62.5	2	AA
HY03200140IC-AA	14	32	35.5	62.5	2	AA
HY03200160IC-AA	16	32	35.5	62.5	2	AA
HY03200180IC-AA	18	32	35.5	62.5	2	AA
HY03200200IC-AA	20	32	35.5	62.5	2	AA

- Accuracy grade: $1\mu\text{m} < \text{AA} \leq 3\mu\text{m}$

Hydraulic Sealed Collet (End-face cooling)

A ↗
≤ 0.003



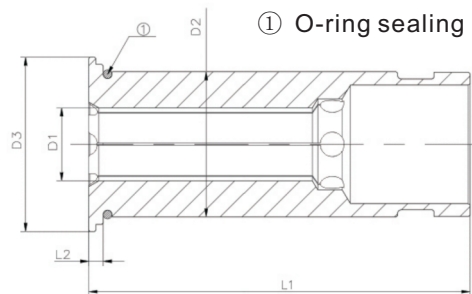
Unit:mm

Size	D1	D2	D3	L1	L2	Accuracy grade
HY01200030PC-AA	3	12	16.5	47	2	AA
HY01200040PC-AA	4	12	16.5	47	2	AA
HY01200050PC-AA	5	12	16.5	47	2	AA
HY01200060PC-AA	6	12	16.5	47	2	AA
HY01200080PC-AA	8	12	16.5	47	2	AA

- Accuracy grade: $1\mu\text{m} < \text{AA} \leq 3\mu\text{m}$

Hydraulic Sealed Collet (End-face cooling)

A ↗
≤ 0.003



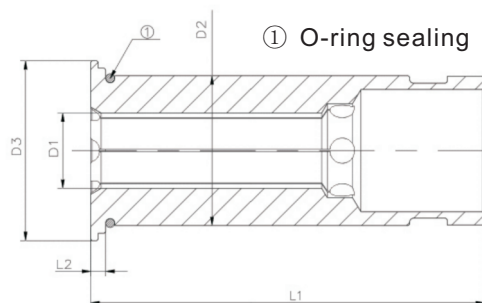
Unit:mm

Size	D1	D2	D3	L1	L2	Accuracy grade
HY02000030PC-AA	3	20	24	52.5	2	AA
HY02000040PC-AA	4	20	24	52.5	2	AA
HY02000050PC-AA	5	20	24	52.5	2	AA
HY02000060PC-AA	6	20	24	52.5	2	AA
HY02000070PC-AA	7	20	24	52.5	2	AA
HY02000080PC-AA	8	20	24	52.5	2	AA
HY02000090PC-AA	9	20	24	52.5	2	AA
HY02000100PC-AA	10	20	24	52.5	2	AA
HY02000110PC-AA	11	20	24	52.5	2	AA
HY02000120PC-AA	12	20	24	52.5	2	AA
HY02000130PC-AA	13	20	24	52.5	2	AA
HY02000140PC-AA	14	20	24	52.5	2	AA
HY02000150PC-AA	15	20	24	52.5	2	AA
HY02000160PC-AA	16	20	24	52.5	2	AA

- Accuracy grade: $1\mu\text{m} < \text{AA} \leq 3\mu\text{m}$

Hydraulic Sealed Collet (End-face cooling)

A ↗
≤ 0.003

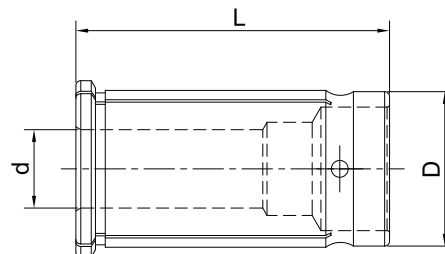


Unit:mm

Size	D1	D2	D3	L1	L2	Accuracy grade
HY03200060PC-AA	6	32	35.5	62.5	2	AA
HY03200080PC-AA	8	32	35.5	62.5	2	AA
HY03200100PC-AA	10	32	35.5	62.5	2	AA
HY03200120PC-AA	12	32	35.5	62.5	2	AA
HY03200140PC-AA	14	32	35.5	62.5	2	AA
HY03200160PC-AA	16	32	35.5	62.5	2	AA
HY03200180PC-AA	18	32	35.5	62.5	2	AA
HY03200200PC-AA	20	32	35.5	62.5	2	AA
HY03200250PC-AA	25	32	35.5	62.5	2	AA

- Accuracy grade: $1\mu\text{m} < \text{AA} \leq 3\mu\text{m}$

Straight Shank Collet



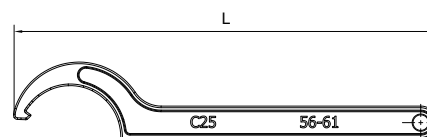
Metric

Unit:mm

Size	d	D	L
SC20-03	3	20	50
SC20-04	4	20	50
SC20-05	5	20	50
SC20-06	6	20	50
SC20-08	8	20	50
SC20-10	10	20	50
SC20-12	12	20	50
SC20-14	14	20	50
SC20-16	16	20	50
SC25-03	3	25	60
SC25-04	4	25	60
SC25-05	5	25	60
SC25-06	6	25	60
SC25-08	8	25	60
SC25-10	10	25	60
SC25-12	12	25	60

Size	d	D	L
SC25-14	14	25	60
SC25-16	16	25	60
SC25-18	18	25	60
SC25-20	20	25	60
SC32-03	3	32	64
SC32-04	4	32	64
SC32-05	5	32	64
SC32-06	6	32	64
SC32-08	8	32	64
SC32-10	10	32	64
SC32-12	12	32	64
SC32-14	14	32	64
SC32-16	16	32	64
SC32-18	18	32	64
SC32-20	20	32	64
SC32-25	25	32	64

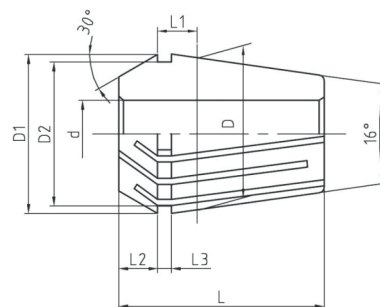
Hook Wrench



Unit:mm

Size	L	Range
C20	214	50-55
C25	214	56-61
C32	235	68-73
C42	261	88-96

ER Collet DIN6499B



Unit:mm

Size	dh7	D	D1	D2	L	L1	L2	L3	Capacity
ER11	1.0-7.0	11	11.5	9.5	18.0	3.80	2.5	2.0	0.5
ER16	1.0-2.5	16	17.0	13.8	27.5	6.26	4.0	2.7	0.5
	>2.5-10.0	16	17.0	13.8	27.5	6.26	4.0	2.7	1.0
ER20	1.0-2.5	20	21.0	17.4	31.5	6.36	4.8	2.8	0.5
	>2.5-13.0	20	21.0	17.4	31.5	6.36	4.8	2.8	1.0
ER25	1.0-2.5	25	26.0	22.0	34.0	6.66	5.0	3.1	0.5
	>2.5-16.0	25	26.0	22.0	34.0	6.66	5.0	3.1	1.0
ER32	2.0-2.5	32	33.0	29.2	40.0	7.16	5.5	3.6	0.5
	>2.5-20.0	32	33.0	29.2	40.0	7.16	5.5	3.6	1.0
ER40	3.0-26.0	40	41.0	36.2	46.0	7.66	7.0	4.1	1.0
ER50	6.0-10.0	50	52.0	46.0	60.0	12.60	8.5	5.5	1.0
	>10.0-34.0	50	52.0	46.0	60.0	12.60	8.5	5.5	2.0

Accuracy grade: A $\leq$ 0.008mm
AA $\leq$ 0.005mm

Ordering Example: ER16-5-AA

ER Collet DIN6499B

Unit:mm

ER11		ER16		ER20		ER25	
Size	Range	Size	Range	Size	Range	Size	Range
ER11-1	1.0-0.5	ER16-1	1.0-0.5	ER20-1	1.0-0.5	ER25-1	1.0-0.5
ER11-1.5	1.5-1.0	ER16-1.5	1.5-1.0	ER20-1.5	1.5-1.0	ER25-1.5	1.5-1.0
ER11-2	2.0-1.5	ER16-2	2.0-1.5	ER20-2	2.0-1.5	ER25-2	2.0-1.5
ER11-2.5	2.5-2.0	ER16-2.5	2.5-2.0	ER20-2.5	2.5-2.0	ER25-2.5	2.5-2.0
ER11-3	3.0-2.5	ER16-3	3.0-2.5	ER20-3	3.0-2.5	ER25-3	3.0-2.5
ER11-3.5	3.5-3.0	ER16-4	4.0-3.0	ER20-4	4.0-3.0	ER25-4	4.0-3.0
ER11-4	4.0-3.5	ER16-5	5.0-4.0	ER20-5	5.0-4.0	ER25-5	5.0-4.0
ER11-4.5	4.5-4.0	ER16-6	6.0-5.0	ER20-6	6.0-5.0	ER25-6	6.0-5.0
ER11-5	5.0-4.5	ER16-7	7.0-6.0	ER20-7	7.0-6.0	ER25-7	7.0-6.0
ER11-5.5	5.5-5.0	ER16-8	8.0-7.0	ER20-8	8.0-7.0	ER25-8	8.0-7.0
ER11-6	6.0-5.5	ER16-9	9.0-8.0	ER20-9	9.0-8.0	ER25-9	9.0-8.0
ER11-6.5	6.5-6.0	ER16-10	10.0-9.0	ER20-10	10.0-9.0	ER25-10	10.0-9.0
ER11-7	7.0-6.5			ER20-11	11.0-10.0	ER25-11	11.0-10.0
				ER20-12	12.0-11.0	ER25-12	12.0-11.0
				ER20-13	13.0-12.0	ER25-13	13.0-12.0
						ER25-14	14.0-13.0
						ER25-15	15.0-14.0
						ER25-16	16.0-15.0

ER Collet DIN6499B

Unit:mm

ER32		ER40		ER50	
Size	Range	Size	Range	Size	Range
ER32-1	1.0-0.5	ER40-3	3.0-2.5	ER50-6	6.0-5.0
ER32-1.5	1.5-1.0	ER40-4	4.0-3.0	ER50-7	7.0-6.0
ER32-2	2.0-1.5	ER40-5	5.0-4.0	ER50-8	8.0-7.0
ER32-2.5	2.5-2.0	ER40-6	6.0-5.0	ER50-9	9.0-8.0
ER32-3	3.0-2.5	ER40-7	7.0-6.0	ER50-10	10.0-9.0
ER32-4	4.0-3.0	ER40-8	8.0-7.0	ER50-11	11.0-9.0
ER32-5	5.0-4.0	ER40-9	9.0-8.0	ER50-12	12.0-10.0
ER32-6	6.0-5.0	ER40-10	10.0-9.0	ER50-13	13.0-11.0
ER32-7	7.0-6.0	ER40-11	11.0-10.0	ER50-14	14.0-12.0
ER32-8	8.0-7.0	ER40-12	12.0-11.0	ER50-15	15.0-13.0
ER32-9	9.0-8.0	ER40-13	13.0-12.0	ER50-16	16.0-14.0
ER32-10	10.0-9.0	ER40-14	14.0-13.0	ER50-17	17.0-15.0
ER32-11	11.0-10.0	ER40-15	15.0-14.0	ER50-18	18.0-16.0
ER32-12	12.0-11.0	ER40-16	16.0-15.0	ER50-19	19.0-17.0
ER32-13	13.0-12.0	ER40-17	17.0-16.0	ER50-20	20.0-18.0
ER32-14	14.0-13.0	ER40-18	18.0-17.0	ER50-21	21.0-19.0
ER32-15	15.0-14.0	ER40-19	19.0-18.0	ER50-22	22.0-20.0
ER32-16	16.0-15.0	ER40-20	20.0-19.0	ER50-23	23.0-21.0
ER32-17	17.0-16.0	ER40-21	21.0-20.0	ER50-24	24.0-22.0
ER32-18	18.0-17.0	ER40-22	22.0-21.0	ER50-25	25.0-23.0
ER32-19	19.0-18.0	ER40-23	23.0-22.0	ER50-26	26.0-24.0
ER32-20	20.0-19.0	ER40-24	24.0-23.0	ER50-27	27.0-25.0
		ER40-25	25.0-24.0	ER50-28	28.0-26.0
		ER40-26	26.0-25.0	ER50-29	29.0-27.0
				ER50-30	30.0-28.0
				ER50-31	31.0-29.0
				ER50-32	32.0-30.0
				ER50-33	33.0-31.0
				ER50-34	34.0-32.0

ER Collet Set



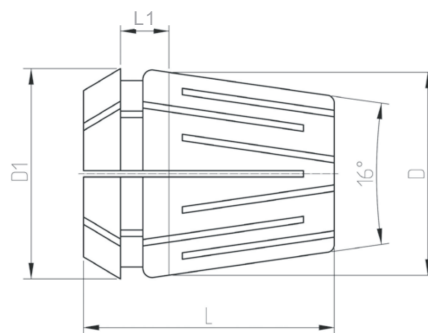
Unit:mm

Size	Type	PCS/SET
ER11-7PCS	1,2,3,4,5,6,7	7
ER11-9PCS	3,3.5,4,4.5,5.5,5.6,6.5,7	9
ER11-13PCS	1,1.5,2,2.5,3,3.5,4,4.5,5.5,5.6,6.5,7	13
ER16-8PCS	3,4,5,6,7,8,9,10	8
ER16-10PCS	1,2,3,4,5,6,7,8,9,10	10
ER16-12PCS	1,1.5,2,2.5,3,4,5,6,7,8,9,10	12
ER20-11PCS	3,4,5,6,7,8,9,10,11,12,13	11
ER20-12PCS	2,3,4,5,6,7,8,9,10,11,12,13	12
ER20-13PCS	1,2,3,4,5,6,7,8,9,10,11,12,13	13
ER20-14PCS	1,1.5,2,3,4,5,6,7,8,9,10,11,12,13	14
ER25-14PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16	14
ER25-15PCS	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	15
ER25-18PCS	1,1.5,2,2.5,3,4,5,6,7,8,9,10,11,12,13,14,15,16	18
ER32-18PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18
ER32-19PCS	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	19
ER32-21PCS	1.1.5,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	21
ER40-8PCS	4,6,8,10,12,16,20,25	8
ER40-15PCS	4,5,6,8,10,12,14,15,16,18,20,22,24,25,26	15
ER40-18PCS	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,25	18
ER40-23PCS	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	23
ER40-24PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	24
ER50-15PCS	6,8,10,12,14,16,18,20,22,24,26,28,30,32,34	15
ER50-29PCS	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34	29

Accuracy grade:A≤0.008mm
AA≤0.005mm

Ordering Example:ER16-10PCS-AA

ER/C Collet (Oil Hole Type)



Unit:mm

Size	d	Range	D	D1	L	L1
ER11C	3-7	0.1	11	11.5	18.0	3.80
ER16C	3-10	0.1	16	17.0	27.5	6.26
ER20C	3-13	0.1	20	21.0	31.5	6.36
ER25C	3-16	0.1	25	26.0	34.0	6.66
ER32C	3-20	0.1	32	33.0	40.0	7.16
ER40C	4-26	0.1	40	41.0	46.0	7.66
ER50C	12-34	0.1	50	52.0	60.0	12.6

Accuracy grade: $A \leq 0.008\text{mm}$
 $AA \leq 0.005\text{mm}$

Ordering Example: ER16C-5-AA

ER/C Collet (Oil Hole Type)

Unit:mm

ER11		ER16		ER20		ER25	
Size	Range	Size	Range	Size	Range	Size	Range
ER11C-3	3.0-2.9	ER16C-3	3.0-2.9	ER20C-3	3.0-2.9	ER25C-3	3.0-2.9
ER11C-4	4.0-3.9	ER16C-4	4.0-3.9	ER20C-3.5	3.5-3.4	ER25C-3.5	3.5-3.4
ER11C-4.5	4.5-4.4	ER16C-4.5	4.5-4.4	ER20C-4	4.0-3.9	ER25C-4	4.0-3.9
ER11C-5	5.0-4.9	ER16C-5	5.0-4.9	ER20C-4.5	4.5-4.4	ER25C-4.5	4.5-4.4
ER11C-5.5	5.5-5.4	ER16C-5.5	5.5-5.4	ER20C-5	5.0-4.9	ER25C-5	5.0-4.9
ER11C-6	6.0-5.9	ER16C-6	6.0-5.9	ER20C-5.5	5.5-5.4	ER25C-5.5	5.5-5.4
ER11C-6.5	6.5-6.4	ER16C-6.5	6.5-6.4	ER20C-6	6.0-5.9	ER25C-6	6.0-5.9
ER11C-7	7.0-6.9	ER16C-7	7.0-6.9	ER20C-6.5	6.5-6.4	ER25C-6.5	6.5-6.4
		ER16C-7.5	7.5-7.4	ER20C-7	7.0-6.9	ER25C-7	7.0-6.9
		ER16C-8	8.0-7.9	ER20C-7.5	7.5-7.4	ER25C-7.5	7.5-7.4
		ER16C-8.5	8.5-8.4	ER20C-8	8.0-7.9	ER25C-8	8.0-7.9
		ER16C-9	9.0-8.9	ER20C-8.5	8.5-8.4	ER25C-8.5	8.5-8.4
		ER16C-9.5	9.5-9.4	ER20C-9	9.0-8.9	ER25C-9	9.0-8.9
		ER16C-10	10.0-9.9	ER20C-9.5	9.5-9.4	ER25C-9.5	9.5-9.4
				ER20C-10	10.0-9.9	ER25C-10	10.0-9.9
				ER20C-10.5	10.5-10.4	ER25C-10.5	10.5-10.4
				ER20C-11	11.0-10.9	ER25C-11	11.0-10.9
				ER20C-11.5	11.5-11.4	ER25C-11.5	11.5-11.4
				ER20C-12	12.0-11.9	ER25C-12	12.0-11.9
				ER20C-12.5	12.5-12.4	ER25C-12.5	12.5-12.4
				ER20C-13	13.0-12.9	ER25C-13	13.0-12.9
						ER25C-13.5	13.5-13.4
						ER25C-14	14.0-13.9
						ER25C-14.5	14.5-14.4
						ER25C-15	15.0-14.9
						ER25C-15.5	15.5-15.4
						ER25C-16	16.0-15.9

ER/C Collet (Oil Hole Type)

Unit:mm

ER32		ER40		ER50	
Size	Range	Size	Range	Size	Range
ER32C-3	3.0-2.9	ER40C-4	4.0-3.9	ER50C-12	12.0-11.9
ER32C-3.5	3.5-3.4	ER40C-4.5	4.5-4.4	ER50C-14	14.0-13.9
ER32C-4	4.0-3.9	ER40C-5	5.0-4.9	ER50C-16	16.0-15.9
ER32C-4.5	4.5-4.4	ER40C-5.5	5.5-5.4	ER50C-16.5	16.5-16.4
ER32C-5	5.0-4.9	ER40C-6	6.0-5.9	ER50C-17	17.0-16.9
ER32C-5.5	5.5-5.4	ER40C-6.5	6.5-6.4	ER50C-17.5	17.5-17.4
ER32C-6	6.0-5.9	ER40C-7	7.0-6.9	ER50C-18	18.0-17.9
ER32C-6.5	6.5-6.4	ER40C-7.5	7.5-7.4	ER50C-18.5	18.5-18.4
ER32C-7	7.0-6.9	ER40C-8	8.0-7.9	ER50C-19	19.0-18.9
ER32C-7.5	7.5-7.4	ER40C-8.5	8.5-8.4	ER50C-19.5	19.5-19.4
ER32C-8	8.0-7.9	ER40C-9	9.0-8.9	ER50C-20	20.0-19.9
ER32C-8.5	8.5-8.4	ER40C-9.5	9.5-9.4	ER50C-20.5	20.5-20.4
ER32C-9	9.0-8.9	ER40C-10	10.0-9.9	ER50C-21	21.0-20.9
ER32C-9.5	9.5-9.4	ER40C-10.5	10.5-10.4	ER50C-21.5	21.5-21.4
ER32C-10	10.0-9.9	ER40C-11	11.0-10.9	ER50C-22	22.0-21.9
ER32C-10.5	10.5-10.4	ER40C-11.5	11.5-11.4	ER50C-22.5	22.5-22.4
ER32C-11	11.0-10.9	ER40C-12	12.0-11.9	ER50C-23	23.0-22.9
ER32C-11.5	11.5-11.4	ER40C-12.5	12.5-12.4	ER50C-23.5	23.5-23.4
ER32C-12	12.0-11.9	ER40C-13	13.0-12.9	ER50C-24	24.0-23.9
ER32C-12.5	12.5-12.4	ER40C-13.5	13.5-13.4	ER50C-24.5	24.5-24.4
ER32C-13	13.0-12.9	ER40C-14	14.0-13.9	ER50C-25	25.0-24.9
ER32C-13.5	13.5-13.4	ER40C-14.5	14.5-14.4	ER50C-25.5	25.5-25.4
ER32C-14	14.0-13.9	ER40C-15	15.0-14.9	ER50C-26	26.0-25.9
ER32C-14.5	14.5-14.4	ER40C-15.5	15.5-15.4	ER50C-26.5	26.5-26.4
ER32C-15	15.0-14.9	ER40C-16	16.0-15.9	ER50C-27	27.0-26.9
ER32C-15.5	15.5-15.4	ER40C-16.5	16.5-16.4	ER50C-27.5	27.5-27.4
ER32C-16	16.0-15.9	ER40C-17	17.0-16.9	ER50C-28	28.0-27.9
ER32C-16.5	16.5-16.4	ER40C-17.5	17.5-17.4	ER50C-28.5	28.5-28.4

ER/C Collet (Oil Hole Type)

Unit:mm

ER32		ER40		ER50	
Size	Range	Size	Range	Size	Range
ER32C-17	17.0-16.9	ER40C-18	18.0-17.9	ER50C-29	29.0-28.9
ER32C-17.5	17.5-17.4	ER40C-18.5	18.5-18.4	ER50C-29.5	29.5-29.4
ER32C-18	18.0-17.9	ER40C-19	19.0-18.9	ER50C-30	30.0-29.9
ER32C-18.5	18.5-18.4	ER40C-19.5	19.5-19.4	ER50C-30.5	30.5-30.4
ER32C-19	19.0-18.9	ER40C-20	20.0-19.9	ER50C-31	31.0-30.9
ER32C-19.5	19.5-19.4	ER40C-20.5	20.5-20.4	ER50C-31.5	31.5-31.4
ER32C-20	20.0-19.9	ER40C-21	21.0-20.9	ER50C-32	32.0-31.9
		ER40C-21.5	21.5-21.4	ER50C-32.5	32.5-32.4
		ER40C-22	22.0-21.9	ER50C-33	33.0-32.9
		ER40C-22.5	22.5-22.4	ER50C-33.5	33.5-33.4
		ER40C-23	23.0-22.9	ER50C-34	34.0-33.9
		ER40C-23.5	23.5-23.4		
		ER40C-24	24.0-23.9		
		ER40C-24.5	24.5-24.4		
		ER40C-25	25.0-24.9		
		ER40C-25.5	25.5-25.4		
		ER40C-26	26.0-25.9		

ER/C Collet (Oil Hole Type) Set



		Unit:mm
Size	Type	PCS/SET
ER11C-8PCS	3,4,4.5,5,5.5,6,6.5,7	8
ER16C-8PCS	3,4,5,6,7,8,9,10	8
ER20C-11PCS	3,4,5,6,7,8,9,10,11,12,13	11
ER25C-14PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16	14
ER32C-18PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18
ER40C-23PCS	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	23
ER50C-12PCS	12,14,16,18,20,22,24,26,28,30,32,34	12

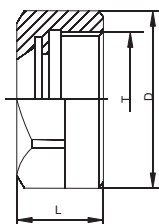
Accuracy grade:A $\leq$ 0.008mm
AA $\leq$ 0.005mm

Ordering Example:ER16C-8PCS-AA

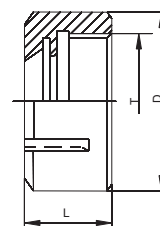
ER Collet Nut



A Type



UM Type

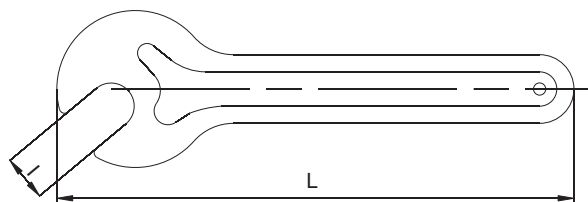


Unit:mm

Type	Size	D	L	T
A	ER11A	19	11.3	M14x0.75
	ER16A	28	17.5	M22x1.5
	ER20A	34	19.0	M25x1.5
UM	ER16UM	32	17.0	M22x1.5
	ER20UM	35	19.0	M25x1.5
	ER25UM	42	20.0	M32x1.5
	ER32UM	50	22.5	M40x1.5
	ER40UM	63	25.5	M50x1.5
	ER50UM	78	35.5	M64x2.0

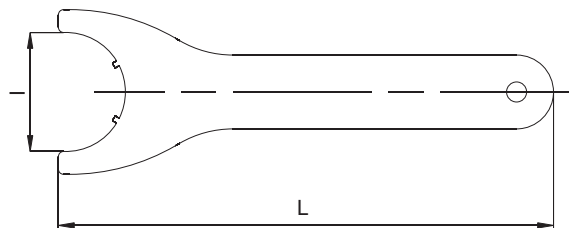
ER Wrench

A Type



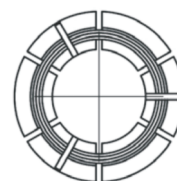
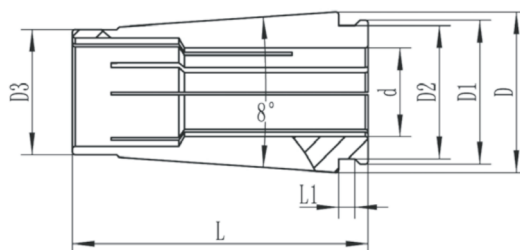
Type	Size	I	L	Nut
A	WER11A	17	110	ER11A
	WER16A	25	120	ER16A
	WER20A	30	130	ER20A

UM Type



Type	Size	I	L	Nut
UM	WER16UM	26	180	ER16UM
	WER20UM	30	190	ER20UM
	WER25UM	37	210	ER25UM
	WER32UM	46.5	250	ER32UM
	WER40UM	58	290	ER40UM
	WER50UM	74	350	ER50UM

CSK High Speed Collet



Unit:mm

Size	d	D	D1	D2	D3	L	L1
CSK06	<3	10.25	8.60	7.6	7.5	25.0	2.2
	3-6	10.40	8.90	7.6	7.5	25.0	2.2
CSK10	<3	15.30	13.00	11.9	12.0	30.5	2.4
	3-10	15.46	13.40	11.9	12.0	30.5	2.4
CSK13	3-13	19.97	17.05	15.1	15.5	39.0	2.4
CSK16	2-16	24.54	20.75	19.0	18.8	45.0	2.5
CSK20	3-20	29.10	24.95	23.0	22.6	54.0	2.9
CSK25	4-25	35.70	30.20	28.5	28.9	57.0	3.0

Accuracy grade: $A \leq 0.008\text{mm}$
 $AA \leq 0.005\text{mm}$

Ordering Example: CSK10-6-AA

CSK High Speed Collet

Unit:mm

CSK06		CSK10		CSK13	
Size	Range	Size	Range	Size	Range
CSK06-1	1.00-0.75	CSK10-1	1.00-0.75	CSK13-2	2.00-1.75
CSK06-1.5	1.50-1.25	CSK10-1.5	1.50-1.25	CSK13-2.5	2.50-2.25
CSK06-2	2.00-1.75	CSK10-2	2.00-1.75	CSK13-3	3.00-2.75
CSK06-2.5	2.50-2.25	CSK10-2.5	2.50-2.25	CSK13-3.5	3.50-3.00
CSK06-3	3.00-2.75	CSK10-3	3.00-2.75	CSK13-4	4.00-3.50
CSK06-3.5	3.50-3.00	CSK10-3.5	3.50-3.00	CSK13-4.5	4.50-4.00
CSK06-4	4.00-3.50	CSK10-4	4.00-3.50	CSK13-5	5.00-4.50
CSK06-4.5	4.50-4.00	CSK10-4.5	4.50-4.00	CSK13-5.5	5.50-5.00
CSK06-5	5.00-4.50	CSK10-5	5.00-4.50	CSK13-6	6.00-5.50
CSK06-5.5	5.50-5.00	CSK10-5.5	5.50-5.00	CSK13-6.5	6.50-6.00
CSK06-6	6.00-5.50	CSK10-6	6.00-5.50	CSK13-7	7.00-6.50
		CSK10-6.5	6.50-6.00	CSK13-7.5	7.50-7.00
		CSK10-7	7.00-6.50	CSK13-8	8.00-7.50
		CSK10-7.5	7.50-7.00	CSK13-8.5	8.50-8.00
		CSK10-8	8.00-7.50	CSK13-9	9.00-8.50
		CSK10-8.5	8.50-8.00	CSK13-9.5	9.50-9.00
		CSK10-9	9.00-8.50	CSK13-10	10.00-9.50
		CSK10-9.5	9.50-9.00	CSK13-10.5	10.50-10.00
		CSK10-10	10.00-9.50	CSK13-11	11.00-10.50
				CSK13-11.5	11.50-11.00
				CSK13-12	12.00-11.50
				CSK13-12.5	12.50-12.00
				CSK13-13	13.00-12.50

CSK High Speed Collet

Unit:mm

CSK16		CSK20		CSK25	
Size	Range	Size	Range	Size	Range
CSK16-2	2.00-1.75	CSK20-3	3.00-2.50	CSK25-4	4.00-3.50
CSK16-2.5	2.50-2.25	CSK20-3.5	3.50-3.00	CSK25-6	6.00-6.50
CSK16-3	3.00-2.75	CSK20-4	4.00-3.50	CSK25-8	8.00-7.50
CSK16-3.5	3.50-3.00	CSK20-4.5	4.50-4.00	CSK25-10	10.00-9.50
CSK16-4	4.00-3.50	CSK20-5	5.00-4.50	CSK25-12	12.00-11.50
CSK16-4.5	4.50-4.00	CSK20-5.5	5.50-5.00	CSK25-14	14.00-13.50
CSK16-5	5.00-4.50	CSK20-6	6.00-5.50	CSK25-16	16.00-15.50
CSK16-5.5	5.50-5.00	CSK20-6.5	6.50-6.00	CSK25-16.5	16.50-16.00
CSK16-6	6.00-5.50	CSK20-7	7.00-6.50	CSK25-17	17.00-16.50
CSK16-6.5	6.50-6.00	CSK20-7.5	7.50-7.00	CSK25-17.5	17.50-17.00
CSK16-7	7.00-6.50	CSK20-8	8.00-7.50	CSK25-18	18.00-17.50
CSK16-7.5	7.50-7.00	CSK20-8.5	8.50-8.00	CSK25-18.5	18.50-18.00
CSK16-8	8.00-7.50	CSK20-9	9.00-8.50	CSK25-19	19.00-18.50
CSK16-8.5	8.50-8.00	CSK20-9.5	9.50-9.00	CSK25-19.5	19.50-19.00
CSK16-9	9.00-8.50	CSK20-10	10.00-9.50	CSK25-20	20.00-19.50
CSK16-9.5	9.50-9.00	CSK20-10.5	10.50-10.00	CSK25-20.5	20.50-20.00
CSK16-10	10.00-9.50	CSK20-11	11.00-10.50	CSK25-21	21.00-20.50
CSK16-10.5	10.50-10.00	CSK20-11.5	11.50-11.00	CSK25-21.5	21.50-21.00
CSK16-11	11.00-10.50	CSK20-12	12.00-11.50	CSK25-22	22.00-21.50
CSK16-11.5	11.50-11.00	CSK20-12.5	12.50-12.00	CSK25-22.5	22.50-22.00
CSK16-12	12.00-11.50	CSK20-13	13.00-12.50	CSK25-23	23.00-22.50
CSK16-12.5	12.50-12.00	CSK20-13.5	13.50-13.00	CSK25-23.5	23.50-23.00
CSK16-13	13.00-12.50	CSK20-14	14.00-13.50	CSK25-24	24.00-23.50
CSK16-13.5	13.50-13.00	CSK20-14.5	14.50-14.00	CSK25-24.5	24.50-24.00
CSK16-14	14.00-13.50	CSK20-15	15.00-14.50	CSK25-25	25.00-24.50
CSK16-14.5	14.50-14.00	CSK20-15.5	15.50-15.00		
CSK16-15	15.00-14.50	CSK20-16	16.00-15.50		
CSK16-15.5	15.50-15.00	CSK20-16.5	16.50-16.00		
CSK16-16	16.00-15.50	CSK20-17	17.00-16.50		
		CSK20-17.5	17.50-17.00		
		CSK20-18	18.00-17.50		
		CSK20-18.5	18.50-18.00		
		CSK20-19	19.00-18.50		
		CSK20-19.5	19.50-19.00		
		CSK20-20	20.00-19.50		

CSK/C High Speed Collet (Oil Hole Type)



Unit:mm

Size	d	D	D1	D2	L	L1
CSK10C	3-10	15.27	11.8	11.7	30.5	2.4
CSK13C	4-13	19.70	15.1	15.3	39.0	2.4
CSK16C	4-16	24.17	18.7	18.7	45.0	2.5
CSK20C	6-20	28.75	23.0	22.6	54.0	2.9
CSK25C	10-25	35.30	28.4	28.5	57.0	3.0

Accuracy grade: $A \leq 0.008\text{mm}$
 $AA \leq 0.005\text{mm}$

Ordering Example: CSK13C-5-AA

CSK/C High Speed Collet (Oil Hole Type)

Unit:mm

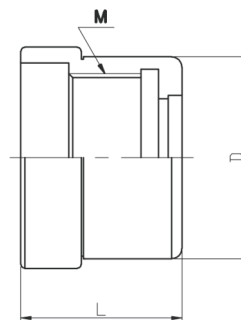
CSK10C		CSK13C		CSK16C	
Size	Range	Size	Range	Size	Range
CSK10C-3	3.0	CSK13C-4	4.0	CSK16C-4	4.0
CSK10C-3.5	3.5	CSK13C-4.5	4.5	CSK16C-4.5	4.5
CSK10C-4	4.0	CSK13C-5	5.0	CSK16C-5	5.0
CSK10C-4.5	4.5	CSK13C-5.5	5.5	CSK16C-5.5	5.5
CSK10C-5	5.0	CSK13C-6	6.0	CSK16C-6	6.0
CSK10C-5.5	5.5	CSK13C-6.5	6.5	CSK16C-6.5	6.5
CSK10C-6	6.0	CSK13C-7	7.0	CSK16C-7	7.0
CSK10C-6.5	6.5	CSK13C-7.5	7.5	CSK16C-7.5	7.5
CSK10C-7	7.0	CSK13C-8	8.0	CSK16C-8	8.0
CSK10C-7.5	7.5	CSK13C-8.5	8.5	CSK16C-8.5	8.5
CSK10C-8	8.0	CSK13C-9	9.0	CSK16C-9	9.0
CSK10C-8.5	8.5	CSK13C-9.5	9.5	CSK16C-9.5	9.5
CSK10C-9	9.0	CSK13C-10	10.0	CSK16C-10	10.0
CSK10C-9.5	9.5	CSK13C-10.5	10.5	CSK16C-10.5	10.5
CSK10C-10	10.0	CSK13C-11	11.0	CSK16C-11	11.0
		CSK13C-11.5	11.5	CSK16C-11.5	11.5
		CSK13C-12	12.0	CSK16C-12	12.0
		CSK13C-12.5	12.5	CSK16C-12.5	12.5
		CSK13C-13	13.0	CSK16C-13	13.0
				CSK16C-13.5	13.5
				CSK16C-14	14.0
				CSK16C-14.5	14.5
				CSK16C-15	15.0
				CSK16C-15.5	15.5
				CSK16C-16	16.0

CSK/C High Speed Collet (Oil Hole Type)

Unit:mm

CSK20C		CSK25C	
Size	Range	Size	Range
CSK20C-6	6.0	CSK25C-10	10.0
CSK20C-6.5	6.5	CSK25C-10.5	10.5
CSK20C-7	7.0	CSK25C-11	11.0
CSK20C-7.5	7.5	CSK25C-11.5	11.5
CSK20C-8	8.0	CSK25C-12	12.0
CSK20C-8.5	8.5	CSK25C-12.5	12.5
CSK20C-9	9.0	CSK25C-13	13.0
CSK20C-9.5	9.5	CSK25C-13.5	13.5
CSK20C-10	10.0	CSK25C-14	14.0
CSK20C-10.5	10.5	CSK25C-14.5	14.5
CSK20C-11	11.0	CSK25C-15	15.0
CSK20C-11.5	11.5	CSK25C-15.5	15.5
CSK20C-12	12.0	CSK25C-16	16.0
CSK20C-12.5	12.5	CSK25C-16.5	16.5
CSK20C-13	13.0	CSK25C-17	17.0
CSK20C-13.5	13.5	CSK25C-17.5	17.5
CSK20C-14	14.0	CSK25C-18	18.0
CSK20C-14.5	14.5	CSK25C-18.5	18.5
CSK20C-15	15.0	CSK25C-19	19.0
CSK20C-15.5	15.5	CSK25C-19.5	19.5
CSK20C-16	16.0	CSK25C-20	20.0
CSK20C-16.5	16.5	CSK25C-20.5	20.5
CSK20C-17	17.0	CSK25C-21	21.0
CSK20C-17.5	17.5	CSK25C-21.5	21.5
CSK20C-18	18.0	CSK25C-22	22.0
CSK20C-18.5	18.5	CSK25C-22.5	22.5
CSK20C-19	19.0	CSK25C-23	23.0
CSK20C-19.5	19.5	CSK25C-23.5	23.5
CSK20C-20	20.0	CSK25C-24	24.0
		CSK25C-24.5	24.5
		CSK25C-25	25.0

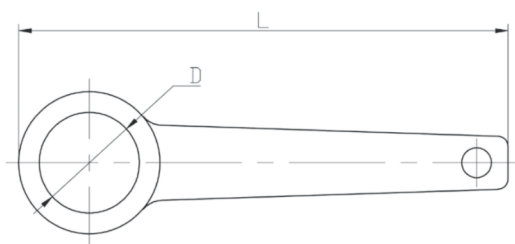
GSK High Speed Nut



Unit:mm

Size	L	D	M
GSK6	21	19.5	M15.5X1
GSK10	24	27.1	M21.5X1
GSK13	28	33	M28X1
GSK16	31	40	M32X1
GSK20	35	48	M40X1
GSK25	37	55	M45X1

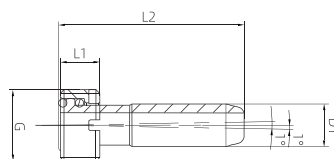
GSK Ball Wrench



Unit:mm

Model No.	L	D	NUT
GH19	120	19.5	GSK06
GH27	130	27.1	GSK10
GH33	140	33.0	GSK13
GH40	193	40.0	GSK16
GH48	200	48.0	GSK20
GH55	210	55.0	GSK25

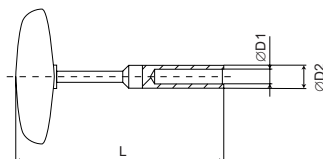
Nozzle



Unit:mm

Size	Apply	D1	L1	L2	G
CG63	HSK63	12	11.5	36.5	M18*1
CG100	HSK100	16	15	43.5	M24*1.5

Nozzle Key



Unit:mm

Size	Apply	D1	D2	L
CPT63	HSK63	12	17	122
CPT100	HSK100	16	22	141

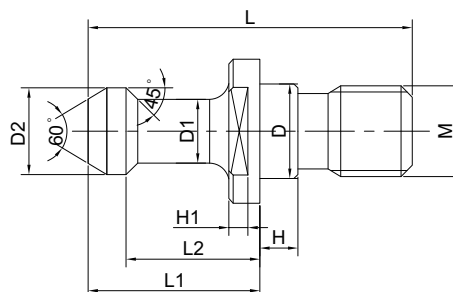
Drive Key



Unit:mm

Size	Dimension
SW5	5.0*100mm
SW6	6.0*100mm

BT Pull Stud



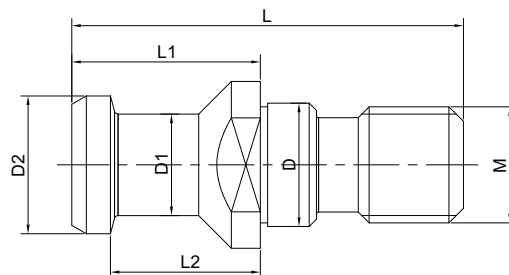
Unit:mm

Size	D	D1	D2	M	L	L1	L2	H	H1	Ø
BT30-45	12.5	7	11	M12	43	23	18	4	3.5	45
BT30-60	12.5	7	11	M12	43	23	18	4	3.5	60
BT30-90	12.5	7	11	M12	43	23	18	4	3.5	90
BT40-45	17	10	15	M16	60	35	28	5	4	45
BT40-60	17	10	15	M16	60	35	28	5	4	60
BT40-90	17	10	15	M16	60	35	28	5	4	90
BT50-45	25	17	23	M24	85	45	35	8	8	45
BT50-60	25	17	23	M24	85	45	35	8	8	60
BT50-90	25	17	23	M24	85	45	35	8	8	90
BT30C-45	12.5	7	11	M12	43	23	18	4	3.5	45
BT30C-60	12.5	7	11	M12	43	23	18	4	3.5	60
BT30C-90	12.5	7	11	M12	43	23	18	4	3.5	90
BT40C-45	17	10	15	M16	60	35	28	5	4	45
BT40C-60	17	10	15	M16	60	35	28	5	4	60
BT40C-90	17	10	15	M16	60	35	28	5	4	90
BT50C-45	25	17	23	M24	85	45	35	8	8	45
BT50C-60	25	17	23	M24	85	45	35	8	8	60
BT50C-90	25	17	23	M24	85	45	35	8	8	90

C: Through Hole

Other sizes can be made by request.

SK Pull Stud



Unit:mm

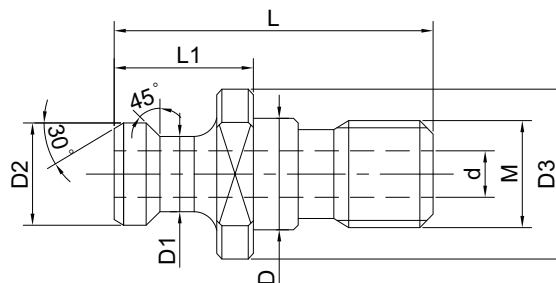
Size	D	D1	D2	M	L	L1	L2
SK-40A	17	14	19	M16	54	26	20
SK-50A	25	21	28	M24	74	34	25
SK-40AO	17	14	19	M16	54	26	20
SK-50AO	25	21	28	M24	74	34	25

A: Through Hole

O: with O-Ring

Other sizes can be made by request.

Mazak Pull Stud



Unit:mm

Size	L	L1	D2	D1	D3	D	d	M
Mazak-BT40C	44.1	19.1	18.8	12.45	22	17	7	M16
Mazak-BT50C	65.2	25.2	29	20.83	37	25	10	M24
Mazak-BT40CO	44.1	19.1	18.8	12.45	22	17	7	M16
Mazak-BT50CO	65.2	25.2	29	20.83	37	25	10	M24

C: Through Hole

O: with O-Ring

Other sizes can be made by request.

MEMO



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