

BRISLOY VISION *TOP LEADER OF THE WORLD TOOL HOLDER INDUSTRY*



Brisloy's 3P SPRIT is the basis for realization of its vision and customer satisfaction.



Brisloy's COMPETITIVENESS assures impeccable products, unparalleled quality and highest price performance ratio.

- Apr. 1, 1982 Founded SSK Tool Co., Ltd.
- Aug. 4, 1983 Authorized as an "Excellent Quality Management Enterprise" by Ministry of Commerce & Industry
- May 29, 1984 Licensed for # International Trading Enterprise
- Oct. 20, 1990 Awarded 馬 Super Precision Machining Technology Enterprise 馬 by Ministry of Commerce & Industry
- May 30, 2000 Launched full range of tool holders for highly balanced tools.
- Apr. 2001 Certified ISO 9001 by TÜV
- July 2003 Designated as an "Exemplary International Marketing Enterprise" by Incheon City Government
- Apr. 5, 2004 Founded Super Century Tool Company at QingDao, China
- Mar. 2006 Awarded "Tower of Export" from the President of Korea
- Oct. 2007 Launched full range of Boring System
- Sept. 2008 Completed revolutionary Factory Automation
- May 2009 Acquired a patent for Hydraulic Chuck clamping unit
- Jan. 2010 Launched radial tool length pre-setting type Hydraulic Chuck
- Nov. 2011 Launched Fine Boring Bar for Boring System
- Nov. 2011 Designated as a "Exemplary Vision Enterprise of Technology Revolution" by Incheon City Government
- Apr. 2013 Classified products into two groups and launched "SUPREME" & "POP" line.
- June 2013 Certified ISO 14001 by BCR
- June 2013 Contracted Sales Distributionship of Fine Boring System with Swiss Tool System AG, Switzerland
- Aug. 2013 Launched Synchronized Tap Chuck
- Oct. 2013 Contracted Exclusive Sales Distributionship with Gewitex AG Switzerland for all Asian countries
- Dec. 2013 Launched CBT(BT Dual Contact) products



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Hydraulic
Chuck

Shrink Fit
Holder

ER Collet
Chuck

End Mill Holder &
Side Lock Arbor

Shell Mill Arbor &
Combi Shell Mill
Arbor

Milling
Chuck

Morse Taper
Arbor

SK Slim
Chuck

Tapping ER
Chuck

Tap Chuck

Face Mill
System

NC Drill
Chuck

Boring
System

Angle
Head

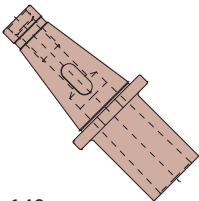
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR

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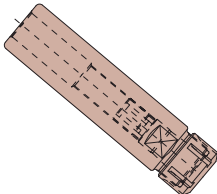
MILLING CHUCK

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Hydraulic
Chuck

Shrink Fit
Holder

ER Collet
Chuck

End Mill Holder &
Side Lock Arbor

Shell Mill Arbor &
Combi Shell Mill
Arbor

Milling
Chuck

Morse Taper
Arbor

SK Slim
Chuck

Tapping ER
Chuck

Tap Chuck

Face Mill
System

NC Drill
Chuck

Boring
System

Angle
Head

TAP CHUCK

DIN 228-MTA



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TAP ADAPTER

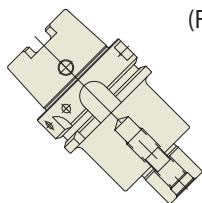
(JIS & DIN)



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JIS B6339/MAS 403-BT & CBT

(FMB)



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JIS B6339/MAS 403-BT & CBT

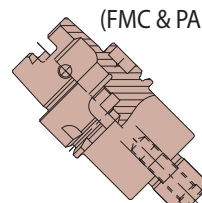
(FMC)



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(FMC & PARTS)



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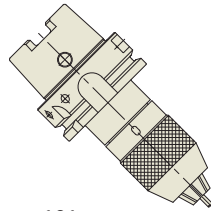
NC DRILL CHUCK

JIS B6339/MAS 403-BT & CBT



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PULL STUD BOLT



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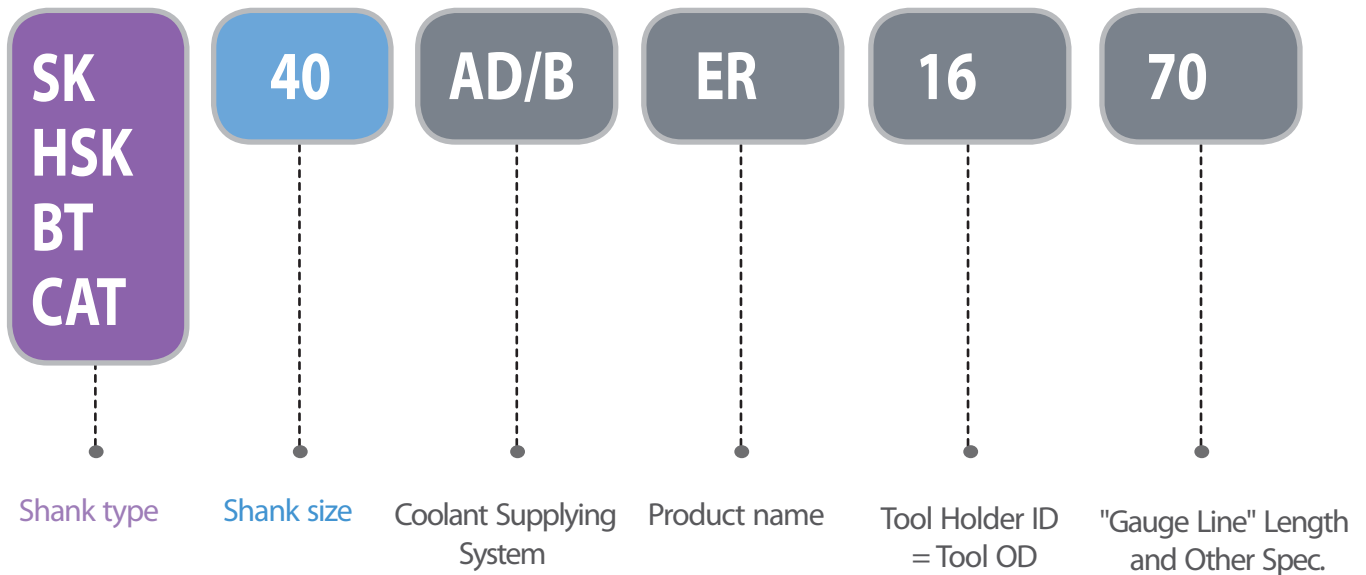
HEIGHT PRESETTER



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MODEL NUMBERING SYSTEM& FINISH

MODEL NUMBERING SYSTEM



SURFACE FINISH

AVAILABLE SURFACE FINISH

- SHOT PEENING
- BRIGHT FINISH
- BLACK OXIDIZATION
- ANTI-RUST TREATED FINISH

BALANCING & UNBALANCING

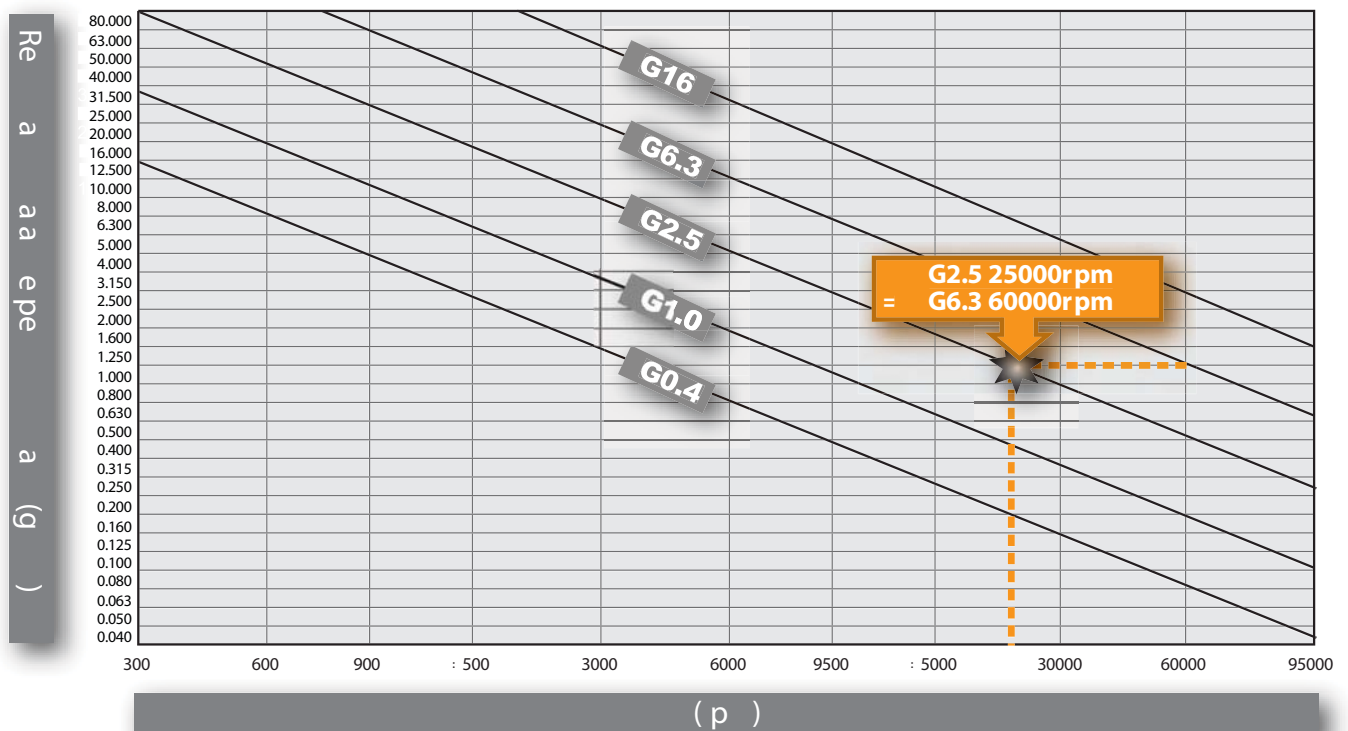
1. Definition of Balancing and Unbalanceing

If the rotor (tool holder) is rotated around the axis, centrifugal forces generate in all parts. If these centrifugal forces are distributed symmetrically against the rotation axis, the centrifugal forces generating in the opposite direction are offset by one another, resulting in no forces to the rotation axis eventually. Therefore bearings are not vibrated. In this case tool holder is in the balanced state.

On the contrary, if centrifugal forces are distributed asymmetrically against the rotation axis, or if the added to the rotation axis, causing the rotor(tool holder) to vibrate. The imbalance of distribution of rotor mass is called "Unbalance" in other words, "Unbalance" is mass existing unevenly in the rotor (tool holder).

2. Balancing Grade Quality According To ISO 1940

(DIN ISO 1940)



$$\text{Calculation of } G = \frac{G \times m}{\text{rpm}} \times 9549 = U$$

G : Balancing grade or circumference speed

m : Rotor (Holder) weight <- - Unit : kg

9549 : Conversion constant

U : Degree of unbalance (Permissible unbalance) <- - Unit : g.mm

rpm : Revolutions Per Minute

BALANCING & UNBALANCING

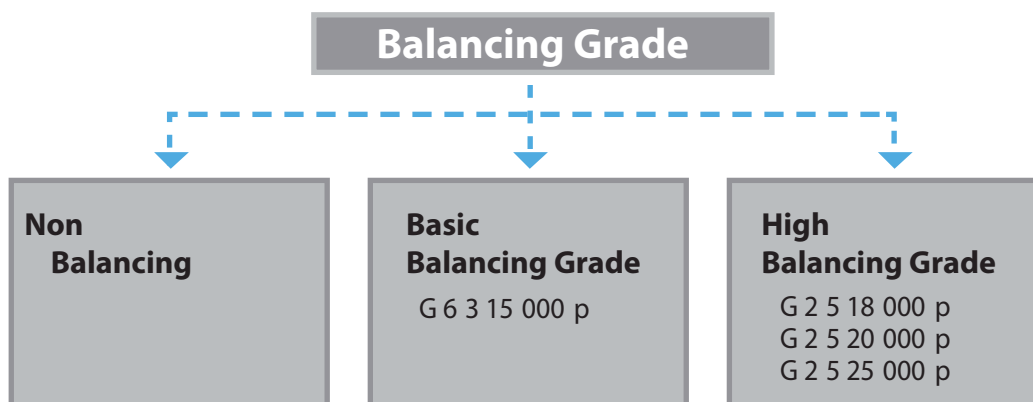
1. Merits of Balanced Machining

Recently, rotation machines are more sophisticated and operated at high speed with the technical advance. Also, they require more efficiency and more stable functions which are stricter conditions than ever before. In high speed machining, one of the largest factors which degrade performance of machines is chattering.

It causes workers to suffer displeasure, noise, and fatigue which are main problems affecting productivity. Balancing of the rotor (tool holder) is the essential and effective factor in order to prevent vibration of the machine. It is widely recognized as the indispensable process in manufacturing rotation machinery.

Brisloy manufactures tool holders with various balancing grades meeting the needs of users.

4. Brisloy Balancing Grade Standard

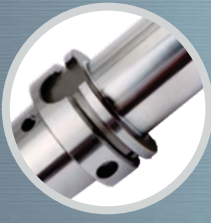


5. Brisloy Balancing Specification (for Balancing Design Products)

PRODUCT	SHANK	GRADE	RPM	Conversion to G6.3
HYDRAULIC CHUCK	BT CBT 30 40 50	G2 5	25 000	G6 3 63 000 p
	S 30 40 50			
	HS 32 40 50 63 100			
SHRINK FIT HOLDER	BT CBT 30 40 50	G2 5	25 000	G6 3 63 000 p
	S 30 40 50			
	HS 40 50 63 100			
OTHER CHUCKS & TOOL HOLDERS	CAPTO	G6 3	15 000	
	BT CBT 30 40 50	G6 3	15 000	
	S 30 40 50	G6 3	20 000	
	HS 40 50 63 100	G2 5	25 000	
	CAPTO	G6 3	15 000	

* HIGHER BALANCING GRADE PRODUCT COULD BE SUPPLIED UPON CUSTOMER'S REQUEST.

The Top Leader of World Toolholder Industry



HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM • NC DRILL CHUCK • BORING SYSTEM



HYDRAULIC CHUCK

DIN 69871-SK
RADIAL TOOL LENGTH PRE-SETTING TYPE / STANDARD TYPE

DIN 69893/ISO 12164-1-HSK
RADIAL TOOL LENGTH PRE-SETTING TYPE / STANDARD TYPE

CBT(BT DUAL CONTACT)
RADIAL TOOL LENGTH PRE-SETTING TYPE / STANDARD TYPE

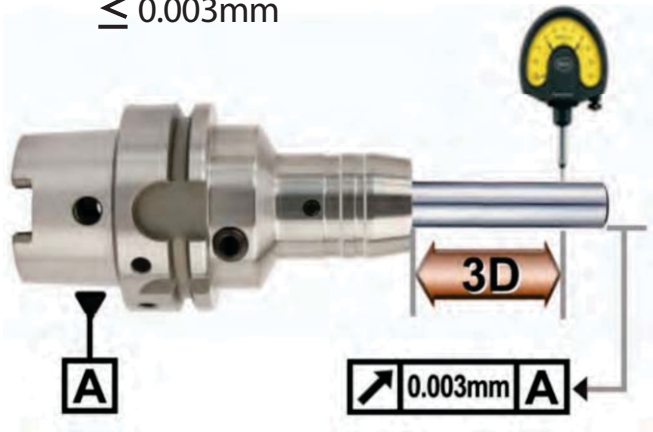
JIS B6339/MAS 403-BT
RADIAL TOOL LENGTH PRE-SETTING TYPE / STANDARD TYPE

HYDRAULIC CHUCK(For MOULD and GRINDER)
JIS B6339 (MAS 403)-BT, DIN 69871-SK, DIN 69893/ISO12164-1-HSK ,DIN228-MTB

ACCESSORY
HYDRAULIC CHUCK COLLET (HK, HS)
T-WRENCH

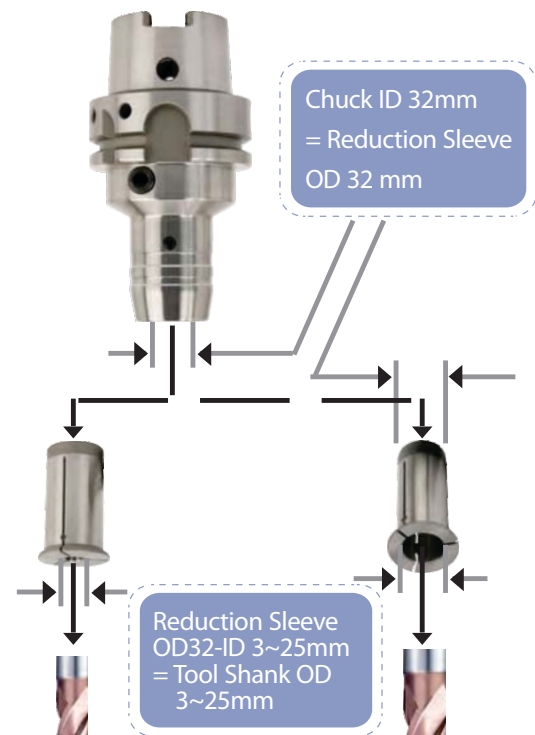
HYDRAULIC CHUCK

- High precision T.I.R:
 $\leq 0.003\text{mm}$

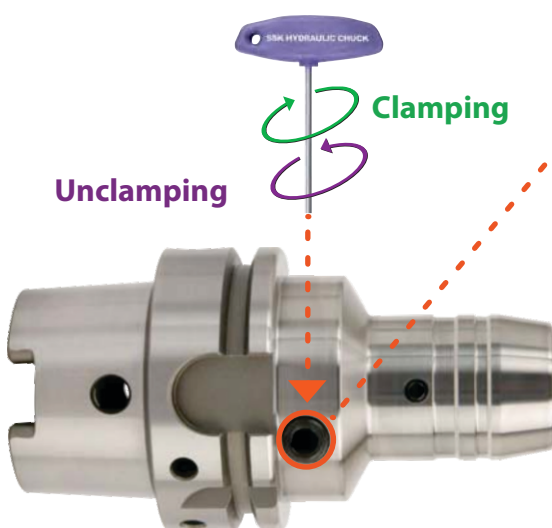


- Less than 0.003mm T.I.R
=> Suitable for high-speed precision machining

- Flexible use of cutting tools
by using of reduction sleeves

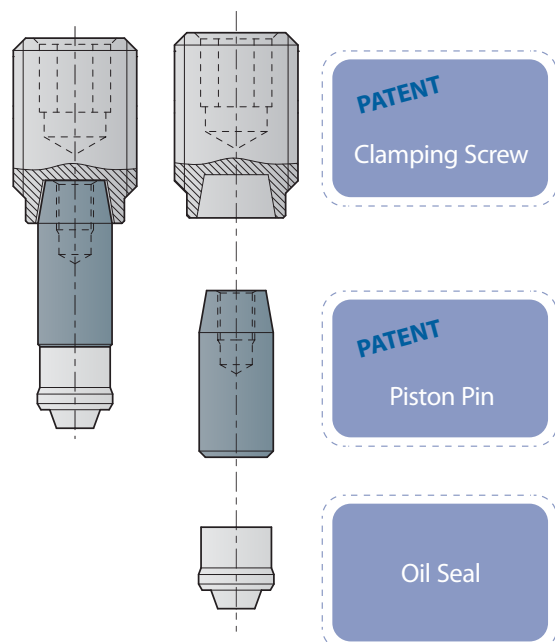


- Easy Tool Change



- Easy clamping and unclamping by
use of T wrench
=> Reducing tool change time

CLAMPING SCREW



HYDRAULIC CHUCK

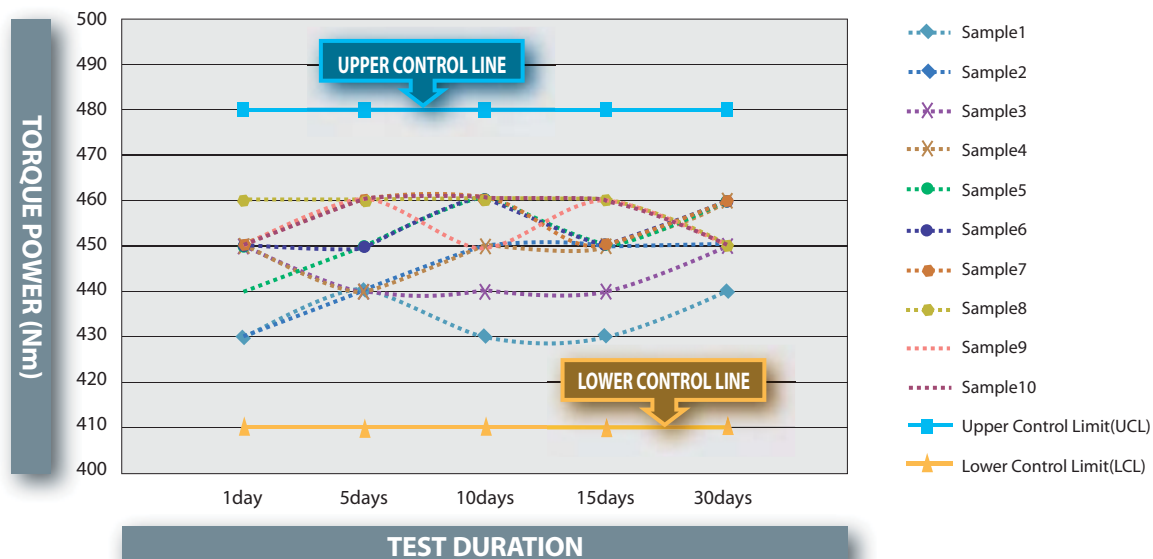
Strong Torque Power

Hydraulic Chuck ID (mm)	Tool Shank OD (mm)	Applicable RPM	Minimum clamping depth (mm)	Torque power (Nm)
6	6	40,000	27	8
8	8	40,000	27	15
10	10	40,000	32	30
12	12	40,000	27	45
14	14	40,000	37	75
16	16	40,000	42	120
18	18	40,000	42	170
20	20	40,000	42	230
25	25	25,000	48	300
32	32	25,000	55	400

- Tool holder ID Tolerance: H6
- Operating Temperature: 20~50 °C
- Maximum oil pressure of coolant oil



Test of torque power and hydraulic oil leakage

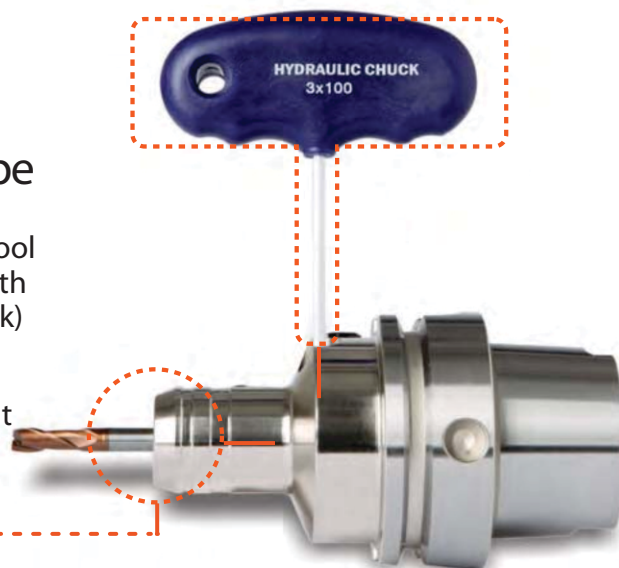


- TEST Model : BT40AD/B-HC20S-72.5
- No oil leakage for long period => Maintaining stable torque power

HYDRAULIC CHUCK

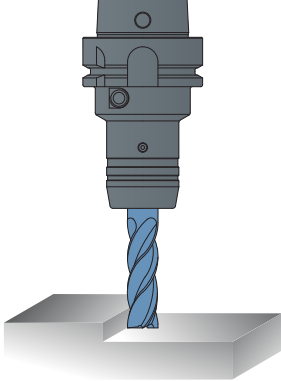
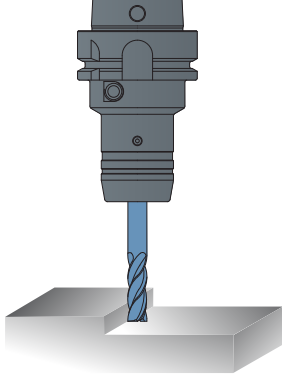
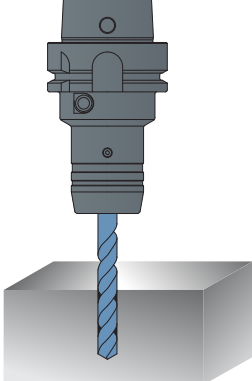
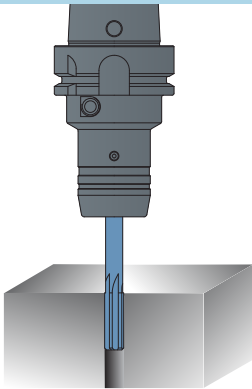
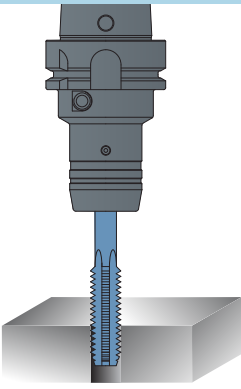
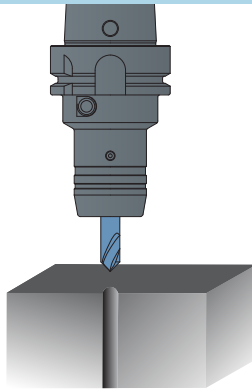
Radial tool length pre-setting type

- Easy to adjust pre-setting length of cutting tool
(Saving time to pre-set cutting tool to one fifth compared with conventional Hydraulic Chuck)
- Precise adjustment of cutting tool length
- Designed to separate tool length adjustment screw from clamping screw

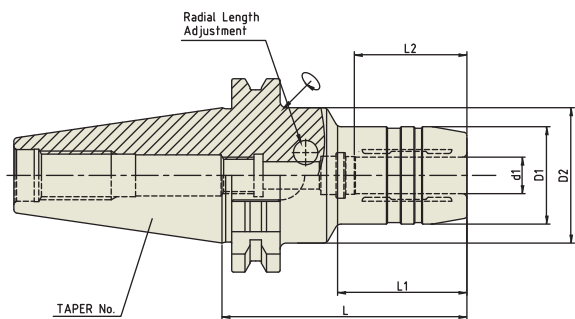


Adjustable range of cutting tool length : 0~10mm

APPLICATION

Milling	High Speed Cutting	Fine Drilling
		
Reaming	Tapping & Thread Milling	Chamfering
		

HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)



DIN 69871
- SK

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Run-Out
(at 3d1)
≤3Um

Coolant
System
AD/B

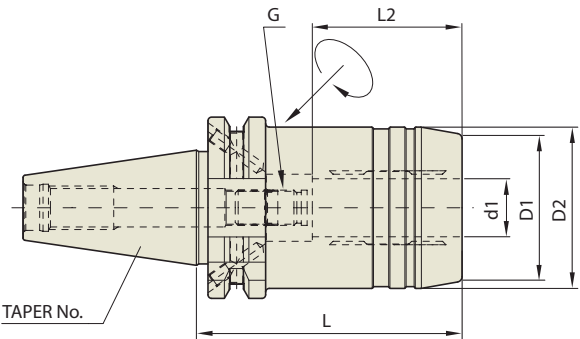
DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L 1	L 2	Weight (kg)	Stock
30	SK30AD/B-HCR12-85	12	32	44.5	85	40	37	0.90	●
	SK30AD/B-HCR20-85	20	42	44.5	85	-	42	1.00	
40	SK40AD/B-HCR12-80.5	12	32	49.5	80.5	31.5	37	1.50	●
	SK40AD/B-HCR20-80.5	20	42	49.5	80.5	34	42	1.60	●
	SK40AD/B-HCR32-110	32	63	80	110	50	55	2.20	
50	SK50AD/B-HCR12-80.5	12	32	49.5	80.5	31.5	37	3.90	
	SK50AD/B-HCR20-80.5	20	42	49.5	80.5	34	42	4.00	
	SK50AD/B-HCR32-100	32	60	60	100	-	55	4.70	●

- CAT(ANSI B5.50) taper and Inch type products are available.

HYDRAULIC CHUCK (SHORT & RIGID)



DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD/B
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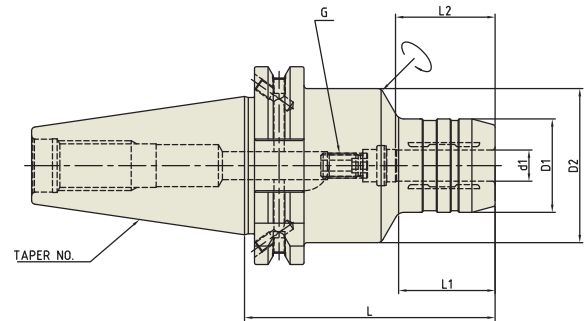
DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L 2	G	Weight (kg)	Stock
30	SK30AD/B-HC20S-85	20	41	44	85	42	M10x1.0	0.53	●
40	SK40AD/B-HC12S-50	12	32	42	50	37	M8x1.0	1.1	●
	SK40AD/B-HC20S-64.5	20	38	49.25	64.5	42	M16x1.0	1.26	●
50	SK50AD/B-HC12S-50	12	32	42	50	37	M8x1.0	2.8	
	SK50AD/B-HC20S-64.5	20	38	49.5	64.5	42	M16x1.0	3.1	
	SK50AD/B-HC32S-81	32	55	72	81	55	M16x1.0	4.1	●

- CAT(ANSI B5.50) taper and Inch type products are available.

HYDRAULIC CHUCK (SLIM)

DIN 69871
- SKTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD/B

DIN 69871-SK

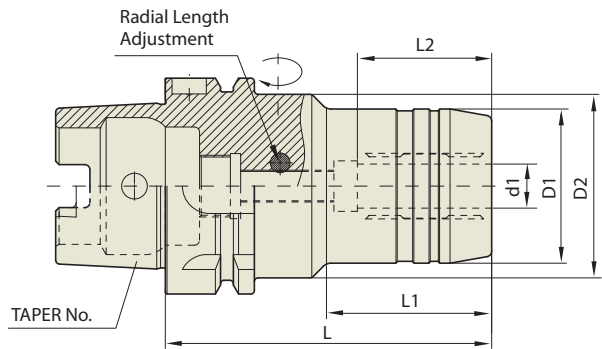
Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L 2	G	Weight (kg)	Stock
30	SK30AD/B-HC6-70	6	26	45	70	20	27	M5x0.8	0.65	●
	SK30AD/B-HC8-70	8	28	45	70	20	27	M6x1.0	0.65	
	SK30AD/B-HC10-75	10	30	45	75	21	32	M8x1.0	0.73	●
	SK30AD/B-HC12-85	12	32	45	85	22	37	M10x1.0	0.80	
	SK30AD/B-HC14-85	14	34	45	85	22	37	M10x1.0	0.80	
	SK30AD/B-HC16-90	16	38	45	90	50	42	M6x1.0	0.90	
	SK30AD/B-HC18-90	18	40	45	90	50	42	M6x1.0	0.90	
	SK30AD/B-HC20-90	20	42	45	90	50	42	M6x1.0	0.90	
40	SK40AD/B-HC6-80.5	6	26	49.5	80.5	29.5	27	M5x0.8	1.31	●
	SK40AD/B-HC6-110	6	26	49.5	110	29.5	27	M5x0.8	1.76	
	SK40AD/B-HC8-80.5	8	28	49.5	80.5	30	27	M12x1.0	1.34	●
	SK40AD/B-HC8-110	8	28	49.5	110	30	27	M6x1.0	1.76	
	SK40AD/B-HC10-80.5	10	30	49.5	80.5	31	32	M8x1.0	1.34	●
	SK40AD/B-HC10-110	10	30	49.5	110	31	32	M8x1.0	1.76	
	SK40AD/B-HC12-80.5	12	32	49.5	80.5	31.5	37	M10x1.0	1.34	●
	SK40AD/B-HC12-110	12	32	49.5	110	31.5	37	M10x1.0	1.76	
	SK40AD/B-HC16-80.5	16	38	49.5	80.5	33	42	M12x1.0	1.34	●
	SK40AD/B-HC16-110	16	38	49.5	110	33	42	M12x1.0	1.76	
	SK40AD/B-HC20-80.5	20	42	49.5	80.5	34	42	M16x1.0	1.35	●
	SK40AD/B-HC20-110	20	42	49.5	110	34	42	M16x1.0	1.78	
	SK40AD/B-HC25-80.5	25	55	66	80.5	22	48	M16x1.0	1.75	
	SK40AD/B-HC32-80.5	32	63	80.5	110	25.5	55	M16x1.0	2.60	
50	SK50AD/B-HC6-80.5	6	26	49.5	80.5	30	27	M5x0.8	3.00	
	SK50AD/B-HC8-80.5	8	28	49.5	80.5	30	27	M6x1.0	3.00	
	SK50AD/B-HC10-80.5	10	30	49.5	80.5	32	32	M8x1.0	3.00	
	SK50AD/B-HC12-80.5	12	32	49.5	80.5	35	37	M10x1.0	3.05	
	SK50AD/B-HC16-80.5	16	38	49.5	80.5	40	42	M12x1.0	3.10	
	SK50AD/B-HC20-80.5	20	42	49.5	80.5	40	42	M16x1.0	3.15	

• CAT(ANSI B5.50) taper and Inch type products are available.

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HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)



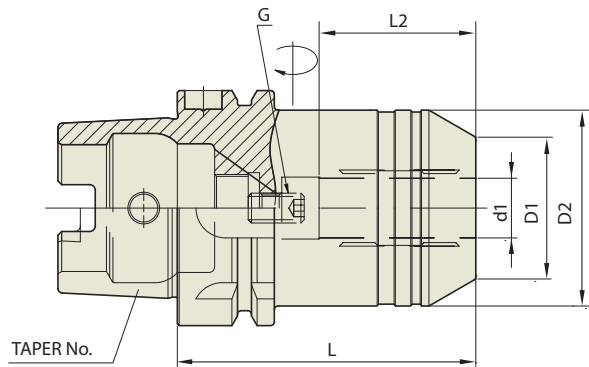
DIN 69893 - HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L 2	Weight (kg)	Stock
40A	HSK40A-HCR6-80	6	26	34	80	36	27	0.55	
	HSK40A-HCR8-80	8	28	34	80	36	27	0.55	
	HSK40A-HCR10-85	10	30	34	85	43	32	0.65	
	HSK40A-HCR12-90	12	32	34	90	48	37	0.70	
50A	HSK50A-HCR6-80	6	26	50	80	35	27	0.70	
	HSK50A-HCR8-80	8	28	50	80	35	27	0.70	
	HSK50A-HCR10-85	10	30	50	85	38	32	0.73	
	HSK50A-HCR12-90	12	32	50	90	40	37	0.80	
	HSK50A-HCR14-90	14	34	50	90	40	37	0.80	
	HSK50A-HCR16-95	16	38	53	95	34	42	1.00	
	HSK50A-HCR18-95	18	40	57	95	34	42	1.00	
	HSK50A-HCR20-100	20	42	60	100	34	42	1.10	
63A	HSK63A-HCR6-80	6	26	50	80	33	27	0.96	
	HSK63A-HCR8-80	8	28	50	80	33	27	0.98	
	HSK63A-HCR10-85	10	30	50	85	38	32	1.04	
	HSK63A-HCR12-90	12	32	50	90	40	37	1.06	
	HSK63A-HCR14-90	14	34	50	90	46	37	1.08	
	HSK63A-HCR16-95	16	38	50	95	51	42	1.18	
	HSK63A-HCR18-95	18	40	50	95	52	42	1.20	
	HSK63A-HCR20-100	20	42	50	100	51	42	1.22	●
	HSK63A-HCR25-120	25	57	63	120	54.5	48	2.20	
	HSK63A-HCR32-125	32	64	75	125	57.5	55	2.60	●
100A	HSK100A-HCR6-85	6	26	63	85	33	27	3.60	
	HSK100A-HCR8-85	8	28	63	85	33	27	3.60	
	HSK100A-HCR10-90	10	30	63	90	36	32	3.80	
	HSK100A-HCR12-95	12	32	63	95	40	37	3.80	
	HSK100A-HCR14-95	14	34	63	95	41	37	3.80	
	HSK100A-HCR16-100	16	38	63	100	46	42	3.90	
	HSK100A-HCR18-100	18	40	63	100	46	42	3.90	
	HSK100A-HCR20-105	20	42	75	105	51	42	4.20	
	HSK100A-HCR25-115	25	57	75	115	55.5	48	4.40	
	HSK100A-HCR32-120	32	64	75	120	63.5	55	4.60	

HYDRAULIC CHUCK (SHORT & RIGID)



DIN69893-
HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

Run-Out
(at 3d1)
≤3Um

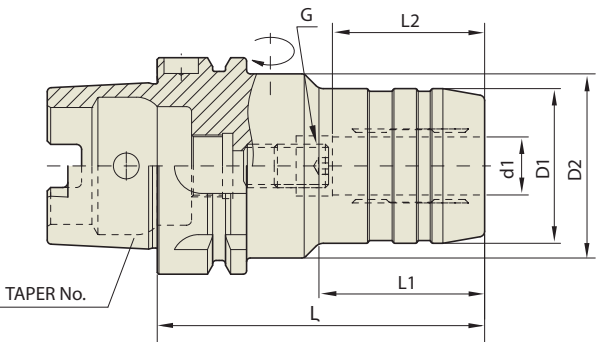
Coolant
System
AD

DIN 69893/ISO12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L 2	G	Weight (kg)	Stock
63A	HSK63A-HC12S-80	12	32	42	80	37	M8x1.0		•
	HSK63A-HC20S-80	20	38	52.5	80	42	M8x1.0		•

HYDRAULIC CHUCK (SLIM)



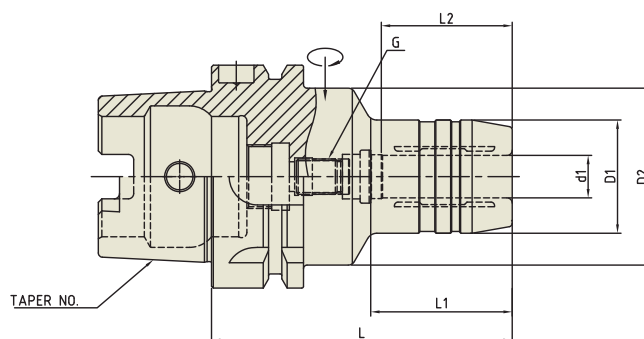
DIN 69893 - HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L 2	G	Weight (kg)	Stock
32A	HSK32A-HC6-80	6	26	40	80	29	27	M5x0.8	0.30	
	HSK32A-HC8-80	8	28	40	80	29	27	M6x1.0	0.30	
	HSK32A-HC10-85	10	30	40	85	35	32	M6x1.0	0.30	
	HSK32A-HC12-90	12	32	40	90	40	37	M6x1.0	0.30	
40A	HSK40A-HC6-70	6	26	34	70	36	27	M5x0.8	0.50	●
	HSK40A-HC8-70	8	28	34	70	36	27	M6x1.0	0.50	●
	HSK40A-HC10-75	10	30	34	75	42	32	M6x1.0	0.60	●
	HSK40A-HC12-80	12	32	34	80	48	37	M6x1.0	0.65	
50A	HSK50A-HC6-70	6	26	50	70	28	27	M5x0.8	0.65	●
	HSK50A-HC8-70	8	28	50	70	28	27	M6x1.0	0.65	●
	HSK50A-HC10-75	10	30	50	75	34	32	M8x1.0	0.70	●
	HSK50A-HC12-85	12	32	50	85	44	37	M10x1.0	0.75	●
	HSK50A-HC14-85	14	34	50	85	44	37	M10x1.0	0.75	●
	HSK50A-HC16-90	16	38	53	90	30	42	M12x1.0	0.90	●
	HSK50A-HC18-90	18	40	57	90	30	42	M12x1.0	0.90	
	HSK50A-HC20-90	20	42	60	90	34	42	M16x1.0	1.00	
63A	HSK63A-HC6-70	6	26	50	70	24	27	M5x0.8	0.53	●
	HSK63A-HC8-70	8	28	50	70	24	27	M6x1.0	0.55	●
	HSK63A-HC10-80	10	30	50	80	35	32	M8x1.0	1.00	●
	HSK63A-HC12-85	12	32	50	85	40	37	M10x1.0	1.03	●
	HSK63A-HC14-85	14	34	50	85	40	37	M10x1.0	1.05	
	HSK63A-HC16-90	16	38	50	90	46	42	M12x1.0	1.15	●
	HSK63A-HC18-90	18	40	50	90	46	42	M12x1.0	1.15	
	HSK63A-HC20-90	20	42	50	90	48	42	M16x1.0	1.20	●
	HSK63A-HC25-120	25	57	63	120	59	48	M16x1.0	2.20	●
100A	HSK63A-HC32-125	32	64	75	125	63	55	M16x1.0	2.40	●
	HSK100A-HC6-75	6	26	50	75	24	27	M5x0.8	3.20	
	HSK100A-HC8-75	8	28	50	75	24	27	M6x1.0	3.20	
	HSK100A-HC10-90	10	30	50	90	35	32	M8x1.0	3.40	
	HSK100A-HC12-95	12	32	50	95	40	37	M10x1.0	3.40	
	HSK100A-HC14-95	14	34	50	95	40	37	M10x1.0	3.40	
	HSK100A-HC16-100	16	38	50	100	46	42	M12x1.0	3.50	
	HSK100A-HC18-100	18	40	50	100	46	42	M12x1.0	3.60	
	HSK100A-HC20-105	20	42	50	105	48	42	M16x1.0	4.00	
	HSK100A-HC25-110	25	57	63	110	59	48	M16x1.0	4.20	
	HSK100A-HC32-110	32	64	75	110	63	55	M16x1.0	4.30	

HYDRAULIC CHUCK (SLIM)

DIN 69893
- HSKTaper
AccuracyG Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD

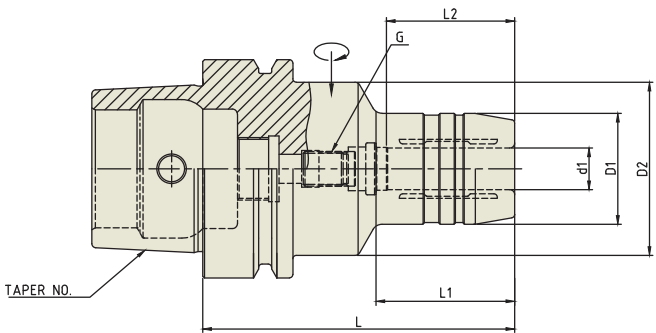
DIN69893/ISO12164-1-HSK FORM C

Unit : mm

TAPER No .	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
32 C	HSK32C-HC6-65	6	22	26	65	33	27	M5x0.8		
	HSK32C-HC8-70	8	24	28	70	34	27	M6x1.0		
	HSK32C-HC10-75	10	26	30	75	39	32	M6x1.0		
	HSK32C-HC12-80	12	28	32	80	45	37	M6x1.0		
40 C	HSK40C-HC6-60	6	22	26	60	35	27	M5x0.8		
	HSK40C-HC8-60	8	24	28	60	36	27	M6x1.0		
	HSK40C-HC10-65	10	26	30	65	41	32	M6x1.0		
	HSK40C-HC12-70	12	28	32	70	47	37	M6x1.0		
50 C	HSK50C-HC6-60	6	22	26	60	30	27	M5x0.8		
	HSK50C-HC8-60	8	24	28	60	30	27	M6x1.0		
	HSK50C-HC10-65	10	26	30	65	35	32	M8x1.0		
	HSK50C-HC12-75	12	28	32	75	44	37	M10x1.0		
	HSK50C-HC14-75	14	30	34	75	46	37	M10x1.0		
	HSK50C-HC16-80	16	34	38	80	51	42	M12x1.0		
	HSK50C-HC18-80	18	36	40	80	51	42	M12x1.0		
	HSK50C-HC20-80	20	38	42	80	52	42	M16x1.0		
63 C	HSK63C-HC6-60	6	22	26	60	25	27	M5x0.8		
	HSK63C-HC8-60	8	24	28	60	25	27	M6x1.0		
	HSK63C-HC10-65	10	26	30	65	31	32	M8x1.0		
	HSK63C-HC12-75	12	28	32	75	41	37	M10x1.0		
	HSK63C-HC14-75	14	30	34	75	42	37	M10x1.0		
	HSK63C-HC16-80	16	34	38	80	48	42	M12x1.0		
	HSK63C-HC18-80	18	36	40	80	48	42	M12x1.0		
	HSK63C-HC20-80	20	38	42	80	49	42	M16x1.0		
	HSK63C-HC25-95	25	53	57	95	63	48	M16x1.0		
	HSK63C-HC32-100	32	59	63	100		55	M12x1.0		

- For applicable Hydraulic Chuck collet, please refer to page 37 and 38.

HYDRAULIC CHUCK (SLIM)



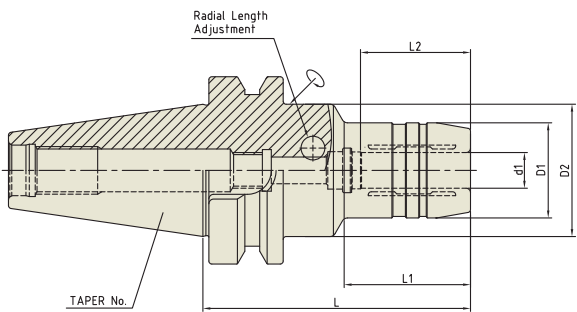
DIN 69893 - HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD
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DIN69893/ISO12164-1-HSK FORM E & F

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
40 E	HSK40E-HC6-70	6	26	33.5	70	36	27	M5x0.8		
	HSK40E-HC8-70	8	28	33.5	70	36	27	M6x1.0		
	HSK40E-HC10-75	10	30	33.5	75	42	32	M6x1.0		
	HSK40E-HC12-80	12	32	33.5	80	48	37	M6x1.0		
50 E	HSK50E-HC6-70	6	26	40	70	28	27	M5x1.0		
	HSK50E-HC8-70	8	28	40	70	28	27	M6x1.0		
	HSK50E-HC10-75	10	30	40	75	34	32	M8x1.0		
	HSK50E-HC12-85	12	32	40	85	44	37	M10x1.0		
	HSK50E-HC16-90	16	38	53	90	30	42	M12x1.0		
	HSK50E-HC20-90	20	42	60	90	29	42	M16x1.0		
63 F	HSK63F-HC20-85	20	42	50	85	48	42	M12x1.0		
	HSK63F-HC25-85	25	50		85		48			

HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD/B
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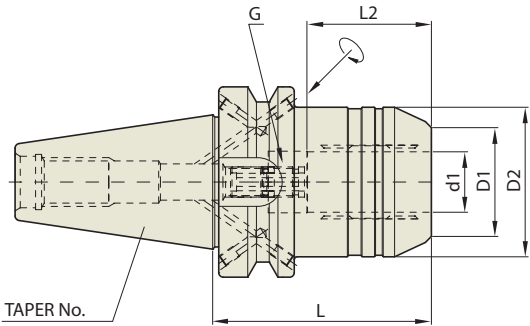
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d 1	D1	D2	L	L1	L2	Weight (kg)	Stock
30	BT30AD/B-HCR12-85	12	32	44.5	85	40	37	0.90	●
	BT30AD/B-HCR20-85	20	44	44.5	85	-	42	1.00	●
40	BT40AD/B-HCR12-90	12	32	44.5	90	42.5	37	1.50	●
	BT40AD/B-HCR20-90	20	42	44.5	90	42.5	42	1.60	●
	BT40AD/B-HCR32-105	32	60	60	105	-	55	2.20	●
50	BT50AD/B-HCR12-95	12	32	44.5	95	34	37	3.90	●
	BT50AD/B-HCR20-100	20	42	44.5	100	44	42	4.00	●
	BT50AD/B-HCR32-115	32	60	60	115	-	55	4.10	●

• CAT(ANSI B5.50) taper and Inch type products are available.

HYDRAULIC CHUCK (SHORT & RIGID)



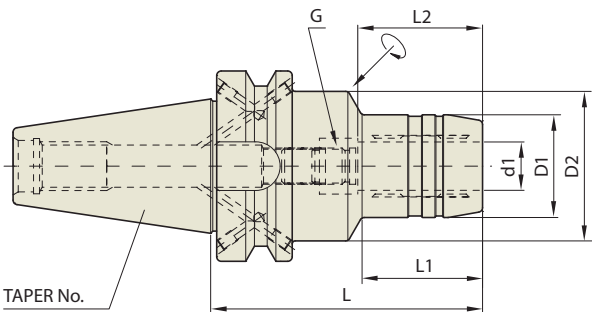
JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD/B
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JIS B6339/MAS 403-BT

Unit : mm									
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
30	BT30AD/B-HC20S-85	20	41	44	85	42	M6x1.0	0.93	●
40	BT40AD/B-HC12S-58	12	32	42	58	37	M8x1.0		●
	BT40AD/B-HC20S-72.5	20	38	49.25	72.5	42	M8x1.0	1.40	●
50	BT50AD/B-HC12S-69	12	32	42	69	37	M8x1.0		●
	BT50AD/B-HC20S-90	20	38	49.25	90	42	M8x1.0	3.85	●
	BT50AD/B-HC32S-90	32	58.5	72	90	55	M8x1.0	4.53	●

- CAT(ANSI B5.50) taper and Inch type products are available.

HYDRAULIC CHUCK (SLIM)



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD/B
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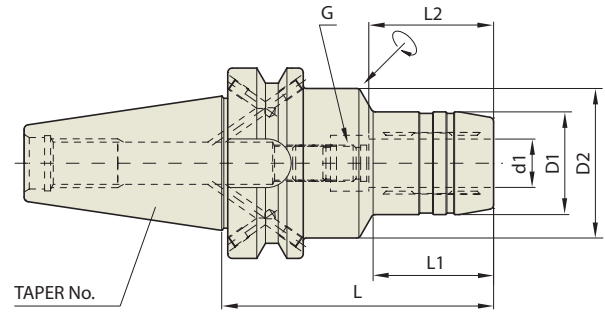
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
30	BT30AD/B-HC6-70	6	26	44.5	70	29.5	27	M5x0.8	0.65	●
	BT30AD/B-HC8-70	8	28	44.5	70	30	27	M6x1.0	0.65	●
	BT30AD/B-HC10-75	10	30	44.5	75	31	32	M8x1.0	0.73	●
	BT30AD/B-HC12-85	12	32	45	85	40	37	M10x1.0	0.80	●
	BT30AD/B-HC14-85	14	34	45	85	40	37	M10x1.0	0.80	
	BT30AD/B-HC16-90	16	38	45	90	46	42	M10x1.0	0.90	●
	BT30AD/B-HC18-90	18	40	45	90	46	42	M10x1.0	0.90	
	BT30AD/B-HC20-90	20	42	45	90	48	42	M6x1.0	0.90	●
40	BT40AD/B-HC6-90	6	26	43	90	30	27	M5x0.8	1.30	●
	BT40AD/B-HC8-90	8	28	44.5	90	30	27	M6x1.0	1.30	●
	BT40AD/B-HC10-90	10	30	44.5	90	32	32	M8x1.0	1.35	●
	BT40AD/B-HC12-90	12	32	44.5	90	35	37	M10x1.0	1.35	●
	BT40AD/B-HC14-90	14	34	44.5	90	35	37	M10x1.0	1.35	
	BT40AD/B-HC16-90	16	38	47.5	90	40	42	M12x1.0	1.40	●
	BT40AD/B-HC18-90	18	40	47.5	90	40	42	M12x1.0	1.45	
	BT40AD/B-HC20-90	20	42	47.5	90	40	42	M16x1.0	1.50	●
	BT40AD/B-HC25-100	25	50	47.5	100	45	48	M16x1.0	1.70	●
	BT40AD/B-HC32-105	32	60		105	50	55	M16x1.0	2.10	●

- CAT(ANSI B5.50) taper and Inch type products are available.

HYDRAULIC CHUCK (SLIM)



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD/B
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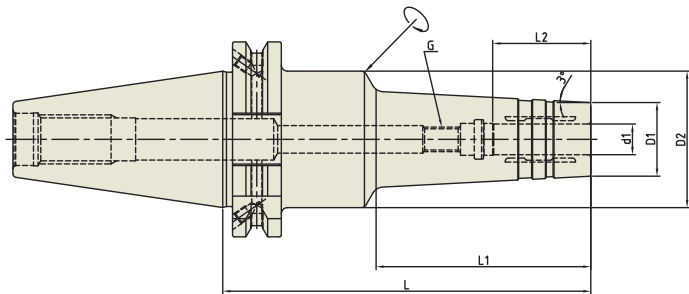
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
50	BT50AD/B-HC6-90	6	26	44.5	90	34	27	M5×0.8	3.75	●
	BT50AD/B-HC6-120	6	26	44.5	120	34	27	M5×0.8	4.10	
	BT50AD/B-HC6-150	6	26	44.5	150	34	27	M5×0.8	4.70	
	BT50AD/B-HC8-90	8	28	44.5	90	34	27	M6×1.0	3.75	●
	BT50AD/B-HC8-120	8	28	44.5	120	34	27	M6×1.0	4.10	
	BT50AD/B-HC8-150	8	28	44.5	150	34	27	M6×1.0	4.10	
	BT50AD/B-HC10-90	10	30	44.5	90	34	32	M8×1.0	3.90	●
	BT50AD/B-HC10-120	10	30	44.5	120	34	32	M8×1.0	4.30	
	BT50AD/B-HC10-150	10	30	44.5	150	34	32	M8×1.0	4.90	
	BT50AD/B-HC12-90	12	32	44.5	90	34	37	M10×1.0	3.90	●
	BT50AD/B-HC12-120	12	32	44.5	120	34	37	M10×1.0	4.30	
	BT50AD/B-HC12-150	12	32	44.5	150	34	37	M10×1.0	4.90	
	BT50AD/B-HC14-90	14	34	44.5	90	34	37	M10×1.0	3.90	
	BT50AD/B-HC14-120	14	34	44.5	120	34	37	M10×1.0	4.30	
	BT50AD/B-HC14-150	14	34	44.5	150	34	37	M10×1.0	4.90	
	BT50AD/B-HC16-90	16	38	44.5	90	34	42	M12×1.0	4.00	●
	BT50AD/B-HC16-120	16	38	44.5	120	34	42	M12×1.0	4.40	
	BT50AD/B-HC16-150	16	38	44.5	150	34	42	M12×1.0	5.00	
	BT50AD/B-HC18-90	18	40	44.5	90	34	42	M12×1.0	4.00	
	BT50AD/B-HC18-120	18	40	44.5	120	34	42	M12×1.0	4.40	
	BT50AD/B-HC18-150	18	40	44.5	150	34	42	M12×1.0	5.00	
	BT50AD/B-HC20-90	20	42	44.5	90	34	42	M16×1.0	4.00	●
	BT50AD/B-HC20-120	20	42	44.5	120	34	42	M16×1.0	4.40	
	BT50AD/B-HC20-150	20	42	44.5	150	34	42	M16×1.0	5.00	
	BT50AD/B-HC25-105	25	57	63	105	52	48	M16×1.0	4.40	●
	BT50AD/B-HC25-150	25	57	63	150	97	48	M16×1.0	5.60	
	BT50AD/B-HC32-115	32	64	75	115	62	55	M16×1.0	4.70	●
	BT50AD/B-HC32-150	32	64	75	150	97	55	M16×1.0	6.00	

- CAT(ANSI B5.50) taper and Inch type products are available.

HYDRAULIC CHUCK (For MOULD)



DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD/B
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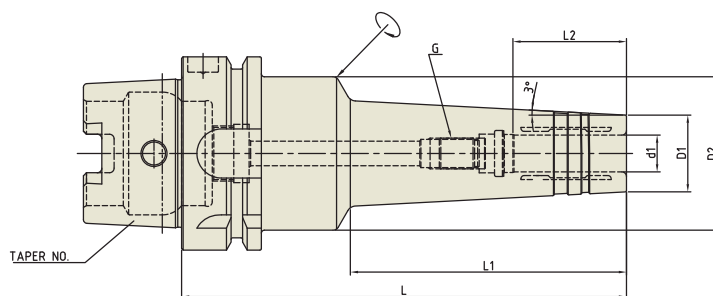
DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
40	SK40AD/B-HMC6-120	6	20	49.5	120	70	27	M5 x 0.8	1.40	
	SK40AD/B-HMC6-150	6	20	49.5	150	100	27	M5 x 0.8	1.65	●
	SK40AD/B-HMC8-120	8	22	49.5	120	70	27	M6 x 1.0	1.40	
	SK40AD/B-HMC8-150	8	22	49.5	150	100	27	M6 x 1.0	1.65	●
	SK40AD/B-HMC10-120	10	24	49.5	120	70	32	M8 x 1.0	1.40	
	SK40AD/B-HMC10-150	10	24	49.5	150	100	32	M8 x 1.0	1.65	●
	SK40AD/B-HMC12-120	12	25	49.5	120	70	37	M10 x 1.0	1.40	
	SK40AD/B-HMC12-150	12	25	49.5	150	100	37	M10 x 1.0	1.65	
	SK40AD/B-HMC16-120	16	32	49.5	120	70	42	M12 x 1.0	1.45	
	SK40AD/B-HMC16-150	16	32	49.5	150	100	42	M12 x 1.0	1.70	●
	SK40AD/B-HMC20-120	20	36	49.5	120	70	42	M16 x 1.0	1.50	
	SK40AD/B-HMC20-150	20	36	49.5	150	100	42	M16 x 1.0	1.70	
50	SK50AD/B-HMC6-150	6	20	44.5	150	100	27	M5 x 0.8	4.50	
	SK50AD/B-HMC8-150	8	22	44.5	150	100	27	M6 x 1.0	4.50	
	SK50AD/B-HMC10-150	10	24	44.5	150	100	32	M8 x 1.0	4.50	
	SK50AD/B-HMC12-150	12	25	44.5	150	100	37	M10 x 1.0	4.50	
	SK50AD/B-HMC16-150	16	32	44.5	150	100	42	M12 x 1.0	4.70	
	SK50AD/B-HMC20-150	20	36	44.5	150	100	42	M16 x 1.0	5.00	

• CAT(ANSI B5.50) taper and Inch type products are available.

HYDRAULIC CHUCK (For MOULD)



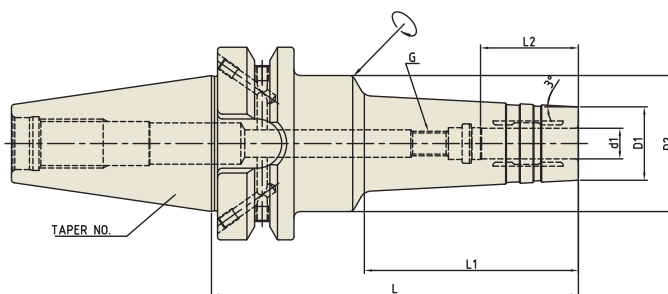
DIN 69893 - HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
63A	HSK63A-HMC6-145	6	20	50	145	90	27	M5 x 0.8	1.40	•
	HSK63A-HMC8-145	8	22	50	145	90	27	M6 x 1.0	1.40	•
	HSK63A-HMC10-145	10	24	50	145	90	32	M8 x 1.0	1.40	•
	HSK63A-HMC12-145	12	25	50	145	90	37	M10 x 1.0	1.40	•
	HSK63A-HMC16-145	16	32	50	145	90	42	M12 x 1.0	1.45	•
	HSK63A-HMC20-145	20	36	50	145	90	42	M16 x 1.0	1.50	•
100A	HSK100A-HMC6-150	6	20	50	150	90	27	M5 x 0.8	4.50	
	HSK100A-HMC8-150	8	22	50	150	90	27	M6 x 1.0	4.50	
	HSK100A-HMC10-150	10	24	50	150	90	32	M8 x 1.0	4.50	
	HSK100A-HMC12-150	12	25	50	150	90	37	M10 x 1.0	4.50	•
	HSK100A-HMC16-150	16	32	50	150	90	42	M12 x 1.0	4.70	
	HSK100A-HMC20-150	20	36	50	150	90	42	M16 x 1.0	5.00	•

HYDRAULIC CHUCK (For MOULD)

JIS B6339
- BTTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD/B

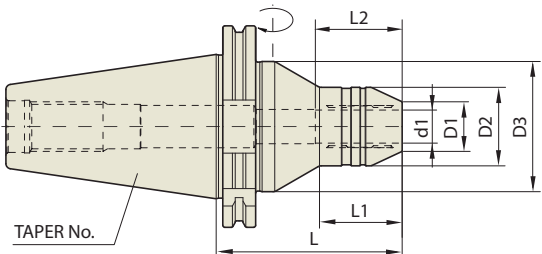
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
40	BT40AD/B-HMC6-120	6	20	44.5	120	70	27	M5 x 0.8	1.40	
	BT40AD/B-HMC6-150	6	20	44.5	150	100	27	M5 x 0.8	1.65	
	BT40AD/B-HMC8-120	8	22	44.5	120	70	27	M6 x 1.0	1.40	
	BT40AD/B-HMC8-150	8	22	44.5	150	100	27	M6 x 1.0	1.65	
	BT40AD/B-HMC10-120	10	24	44.5	120	70	32	M8 x 1.0	1.40	
	BT40AD/B-HMC10-150	10	24	44.5	150	100	32	M8 x 1.0	1.65	
	BT40AD/B-HMC12-120	12	25	44.5	120	70	37	M10 x 1.0	1.40	●
	BT40AD/B-HMC12-150	12	25	44.5	150	100	37	M10 x 1.0	1.65	
	BT40AD/B-HMC16-120	16	32	44.5	120	70	42	M12 x 1.0	1.45	
	BT40AD/B-HMC16-150	16	32	44.5	150	100	42	M12 x 1.0	1.70	
	BT40AD/B-HMC20-120	20	34	43.75	120	-	42	M16 x 1.0	1.50	●
	BT40AD/B-HMC20-150	20	34	47	150	-	42	M16 x 1.0	1.80	
50	BT50AD/B-HMC6-150	6	20	50	150	90	27	M5 x 0.8	4.70	
	BT50AD/B-HMC8-150	8	22	50	150	90	27	M6 x 1.0	4.70	
	BT50AD/B-HMC10-150	10	24	50	150	90	32	M8 x 1.0	4.70	
	BT50AD/B-HMC12-150	12	25	50	150	90	37	M10 x 1.0	4.70	●
	BT50AD/B-HMC16-150	16	32	50	150	90	42	M12 x 1.0	4.90	
	BT50AD/B-HMC20-150	20	34	50	150	90	42	M16 x 1.0	5.00	●

- CAT(ANSI B5.50) taper and Inch type products are available.

HYDRAULIC CHUCK (For GRINDER)

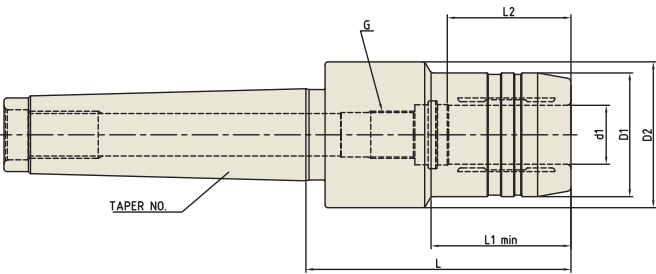


DIN 69871 - SK	Taper Accuracy AT3	G Value	RPM	Run-Out (at 3d1) ≤3Um	Coolant System AD
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DIN 69871 - SK

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	D3	L	L1	L2	Weight (kg)	Stock
50	SK50-HC6G-90	6	14	30	63	90	30	27	3.00	●
	SK50-HC8G-90	8	16	30	63	90	30	27	3.00	●
	SK50-HC10G-90	10	18	30	63	90	30	32	3.00	●
	SK50-HC12G-90	12	21	33	63	90	35	37	3.05	●
	SK50-HC14G-90	14	22	35	63	90	35	37	3.10	
	SK50-HC16G-90	16	24	38	63	90	40	42	3.10	●
	SK50-HC18G-90	18	26	40	63	90	40	42	3.10	
	SK50-HC20G-110	20	29	42	63	110	40	42	3.30	●
	SK50-HC25G-110	25	34	50	70	110	45	48	3.60	●
	SK50-HC32G-110	32	42	56	80	110	50	55	4.20	●

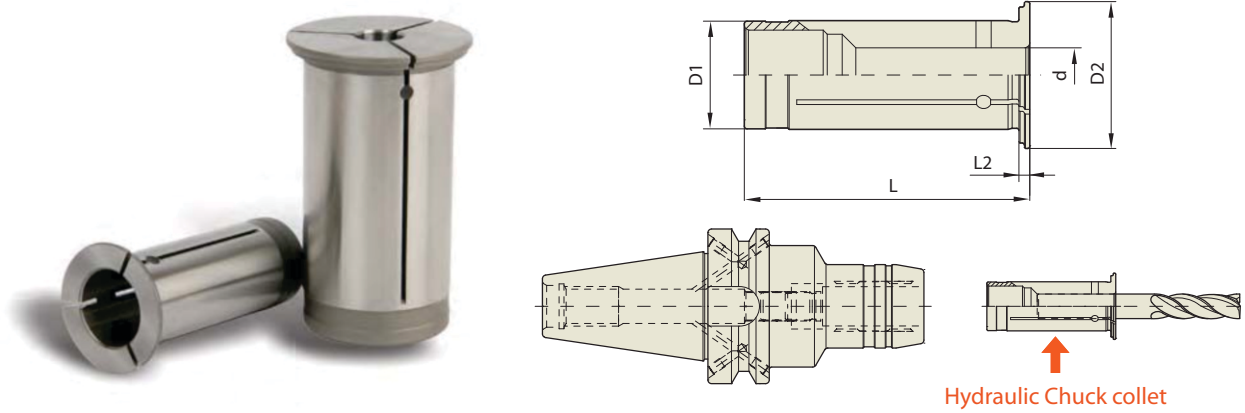


DIN 228-MTB

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
4	MTB4-HC20-90	20	42	49.5	90	47.5	53	M6 x 1.0	1.30	●
	MTB4-HC32-90	32	72	72	90	-	75	-	1.40	●
5	MTB5-HC20-90	20	42	49.5	90	47.5	53	-	2.20	●
	MTB5-HC32-90	32	72	72	90	-	100	-	2.40	●

HYDRAULIC CHUCK COLLET (REDUCTION SLEEVE : OPEN TYPE)



Unit : mm

MODEL No.		d	D1	D2	L	L2
HK12	3	3	12	19	47	2
	4	4	12	19	47	2
	5	5	12	19	47	2
	6	6	12	19	47	2
	7	7	12	19	47	2
	8	8	12	19	47	2
HK20	3	3	20	24	50.5	2
	4	4	20	24	50.5	2
	5	5	20	24	50.5	2
	6	6	20	24	50.5	2
	7	7	20	24	50.5	2
	8	8	20	24	50.5	2
	9	9	20	24	50.5	2
	10	10	20	24	50.5	2
	11	11	20	24	50.5	2
	12	12	20	24	50.5	2
	13	13	20	24	50.5	2
	14	14	20	24	50.5	2
HK32	15	15	20	24	50.5	2
	16	16	20	24	50.5	2
	6	6	32	36	60.5	3
	8	8	32	36	60.5	3
	10	10	32	36	60.5	3
	12	12	32	36	60.5	3
	14	14	32	36	60.5	3
	16	16	32	36	60.5	3
	18	18	32	36	60.5	3
	20	20	32	36	60.5	3
	25	25	32	36	60.5	3

- **Stock Control Item**
- **Inch type products are available.**
- **Other special sizes of Hydraulic Chuck collets could be produced and supplied**

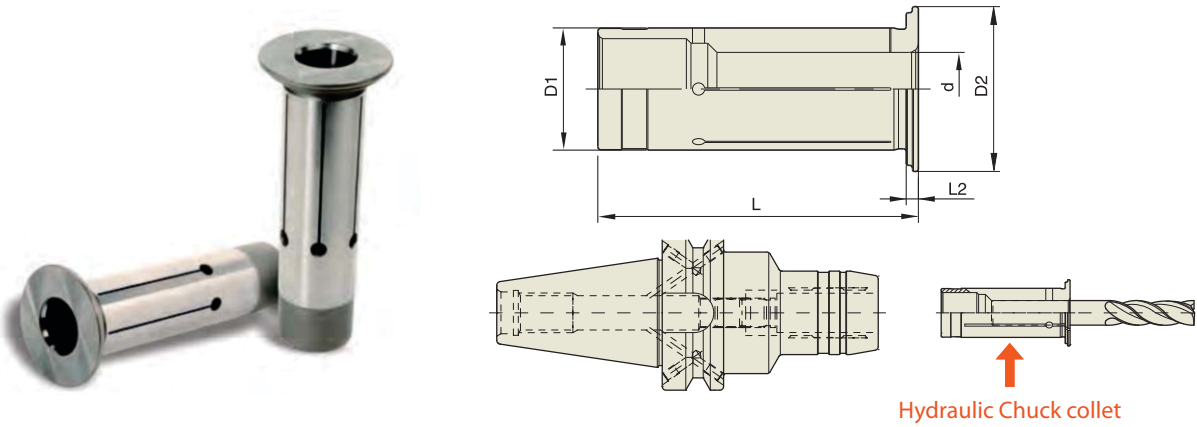
• Feature

Hydraulic Chuck collet (reduction sleeve) is cut into trisection by high precision cutting to guarantee precise I.D and strong clamping power.

• Chucking Method

Please assemble cutting tool with collet firstly, and then insert collet into Hydraulic Chuck.

HYDRAULIC CHUCK COLLET (REDUCTION SLEEVE : CLOSED TYPE)



Unit : mm

MODEL No.		d	D1	D2	L	L2
HS12	3	3	12	19	47	2
	4	4	12	19	47	2
	5	5	12	19	47	2
	6	6	12	19	47	2
	7	7	12	19	47	2
	8	8	12	19	47	2
HS20	3	3	20	24	50.5	2
	4	4	20	24	50.5	2
	5	5	20	24	50.5	2
	6	6	20	24	50.5	2
	7	7	20	24	50.5	2
	8	8	20	24	50.5	2
	9	9	20	24	50.5	2
	10	10	20	24	50.5	2
	11	11	20	24	50.5	2
	12	12	20	24	50.5	2
	13	13	20	24	50.5	2
	14	14	20	24	50.5	2
	15	15	20	24	50.5	2
	16	16	20	24	50.5	2
	17	17	20	24	50.5	2
HS32	6	6	32	36	60.5	3
	8	8	32	36	60.5	3
	10	10	32	36	60.5	3
	12	12	32	36	60.5	3
	14	14	32	36	60.5	3
	16	16	32	36	60.5	3
	18	18	32	36	60.5	3
	20	20	32	36	60.5	3
	25	25	32	36	60.5	3

- **Stock Control Item**
- **Inch type products are available.**
- **Other special sizes of Hydraulic Chuck collets could be produced and supplied**

• Feature

The wall of Hydraulic Chuck collet (reduction sleeve) is cut by high precision wire-cutting to guarantee precise I.D and strong clamping power.

• Chucking Method

Please assemble cutting tool with collet firstly, and then insert collet into Hydraulic Chuck.



SHRINK FIT HOLDER

DIN 69871 - SK

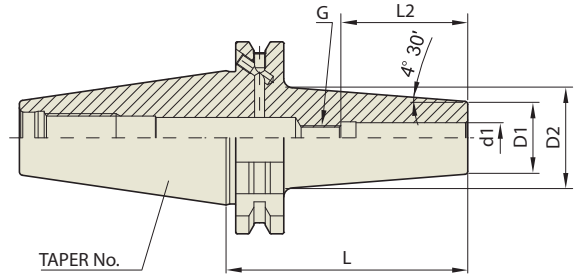
DIN 69893/ISO 12164-1 - HSK

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT

ISO 26623-CAPTO

SHRINK FIT HOLDER



DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3Um	Coolant System
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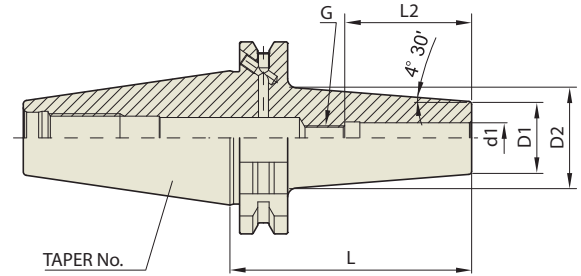
DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
30	SK30AD/B-SFH3-60	3	11	21	60	14	-	0.40	
	SK30AD/B-SFH4-60	4	11	21	60	17	-	0.40	
	SK30AD/B-SFH5-60	5	13	23	60	23	-	0.40	
	SK30AD/B-SFH6-60	6	21	27	60	36	M5 x 0.8	0.40	
	SK30AD/B-SFH8-60	8	21	27	60	36	M6 x 1.0	0.40	
	SK30AD/B-SFH10-80	10	24	32	80	42	M8 x 1.0	0.40	
	SK30AD/B-SFH12-80	12	24	32	80	47	M10 x 1.0	0.42	
	SK30AD/B-SFH14-80	14	27	34	80	47	M10 x 1.0		
	SK30AD/B-SFH16-80	16	27	34	80	50	M12 x 1.0	0.42	
	SK30AD/B-SFH18-80	18	33	42	80	50	M12 x 1.0		
40	SK30AD/B-SFH20-90	20	33	42	90	52	M16 x 1.0	0.44	
	SK40AD/B-SFH3-80	3	11	21	80	14	-	1.00	
	SK40AD/B-SFH4-80	4	11	21	80	17	-	1.00	
	SK40AD/B-SFH5-80	5	13	23	80	23	-	1.00	
	SK40AD/B-SFH6-80	6	21	27	80	36	M5 x 0.8	1.10	
	SK40AD/B-SFH6-160	6	21	27	160	36	M5 x 0.8	1.15	•
	SK40AD/B-SFH8-80	8	21	27	80	36	M6 x 1.0	1.11	•
	SK40AD/B-SFH8-160	8	21	27	160	36	M6 x 1.0	1.15	
	SK40AD/B-SFH10-80	10	24	32	80	42	M8 x 1.0	1.10	•
	SK40AD/B-SFH10-160	10	24	32	160	42	M8 x 1.0	1.15	•
	SK40AD/B-SFH12-80	12	24	32	80	47	M10 x 1.0	1.10	
	SK40AD/B-SFH12-160	12	24	32	160	47	M10 x 1.0	1.15	
	SK40AD/B-SFH14-80	14	27	34	80	47	M10 x 1.0	1.20	
	SK40AD/B-SFH14-160	14	27	34	160	47	M10 x 1.0	1.50	
	SK40AD/B-SFH16-80	16	27	34	80	50	M12 x 1.0	1.20	•
	SK40AD/B-SFH16-160	16	27	34	160	50	M12 x 1.0	1.50	•
	SK40AD/B-SFH18-80	18	33	42	80	50	M12 x 1.0	1.30	
	SK40AD/B-SFH18-160	18	33	42	160	50	M12 x 1.0	1.60	
	SK40AD/B-SFH20-80	20	33	42	80	52	M16 x 1.0	1.40	
	SK40AD/B-SFH20-160	20	33	42	160	52	M16 x 1.0	1.70	•
	SK40AD/B-SFH25-90	25	44	53	90	58	M16 x 1.0	1.70	
	SK40AD/B-SFH25-160	25	44	53	160	58	M16 x 1.0	2.00	

- CAT(ANSI B5.50) taper and Inch type products are available.
- Without balancing screw.

SHRINK FIT HOLDER



DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3Um	Coolant System AD/B
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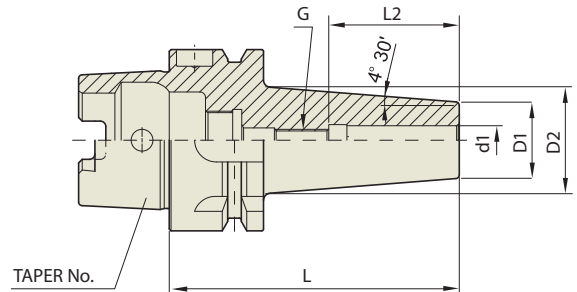
DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
50	SK50AD/B-SFH3-80	3	11	21	80	14	-	1.50	
	SK50AD/B-SFH4-80	4	11	21	80	17	-	1.50	
	SK50AD/B-SFH5-80	5	13	23	80	23	-	1.50	
	SK50AD/B-SFH6-80	6	21	27	80	36	M5×0.8	1.50	
	SK50AD/B-SFH6-160	6	21	27	160	36	M5×0.8	2.00	
	SK50AD/B-SFH8-80	8	21	27	80	36	M6×1.0	1.50	
	SK50AD/B-SFH8-160	8	21	27	160	36	M6×1.0	2.00	
	SK50AD/B-SFH10-80	10	24	32	80	42	M8×1.0	1.50	
	SK50AD/B-SFH10-160	10	24	32	160	42	M8×1.0	2.00	
	SK50AD/B-SFH12-80	12	24	32	80	47	M10×1.0	1.50	
	SK50AD/B-SFH12-160	12	24	32	160	47	M10×1.0	2.00	
	SK50AD/B-SFH14-80	14	27	34	80	47	M10×1.0	1.60	
	SK50AD/B-SFH14-160	14	27	34	160	47	M10×1.0	2.10	
	SK50AD/B-SFH16-80	16	27	34	80	50	M12×1.0	1.60	
	SK50AD/B-SFH16-160	16	27	34	160	50	M12×1.0	2.10	
	SK50AD/B-SFH18-80	18	33	42	80	50	M12×1.0	1.60	
	SK50AD/B-SFH18-160	18	33	42	160	50	M12×1.0	2.00	
	SK50AD/B-SFH20-80	20	33	42	80	52	M16×1.0	1.80	
	SK50AD/B-SFH20-160	20	33	42	160	52	M16×1.0	2.20	
	SK50AD/B-SFH25-90	25	44	53	90	58	M16×1.0	2.00	
	SK50AD/B-SFH25-160	25	44	53	160	58	M16×1.0	2.40	

- CAT(ANSI B5.50) taper and Inch type products are available.
- Without balancing screw.

SHRINK FIT HOLDER



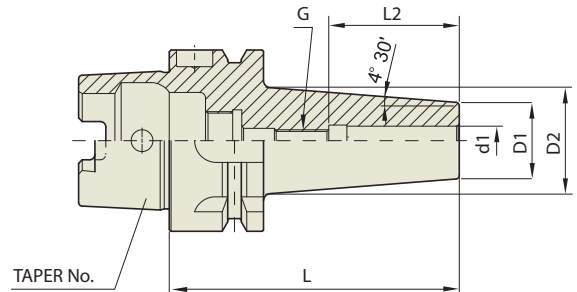
DIN 69893 - HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3Uμm	Coolant System AD
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
40A	HSK40A-SFH3-60	3	11	21	60	14	-	0.30	•
	HSK40A-SFH3-80	3	11	21	80	14	-	0.40	
	HSK40A-SFH4-60	4	11	21	60	17	-	0.30	•
	HSK40A-SFH4-80	4	11	21	80	17	-	0.40	
	HSK40A-SFH5-60	5	13	23	60	23	-	0.30	
	HSK40A-SFH5-80	5	13	23	80	23	-	0.40	
	HSK40A-SFH6-60	6	21	27	60	36	M5x0.8	0.40	
	HSK40A-SFH6-80	6	21	27	80	36	M5x0.8	0.50	•
	HSK40A-SFH8-70	8	21	27	70	36	M6x1.0	0.40	
	HSK40A-SFH8-90	8	21	27	90	36	M6x1.0	0.50	
	HSK40A-SFH10-70	10	24	32	70	42	M8x1.0	0.50	•
	HSK40A-SFH10-90	10	24	32	90	42	M8x1.0	0.60	

- Without balancing screw.

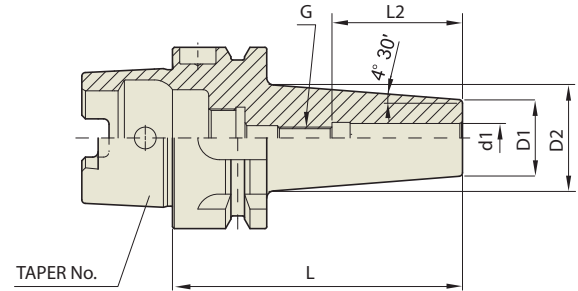


DIN 69893/ISO 12164-1-HSK FORM E

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
40E	HSK40E-SFH3-50	3	11	21	50	14	-	0.30	•
	HSK40E-SFH3-70	3	11	21	70	14	-	0.40	
	HSK40E-SFH4-50	4	11	21	50	17	-	0.30	•
	HSK40E-SFH4-70	4	11	21	70	17	-	0.40	
	HSK40E-SFH5-50	5	13	23	50	23	-	0.30	
	HSK40E-SFH5-70	5	13	23	70	23	-	0.40	
	HSK40E-SFH6-50	6	21	27	50	36	M5 x 0.8	0.40	•
	HSK40E-SFH6-70	6	21	27	70	36	M5 x 0.8	0.50	
	HSK40E-SFH8-60	8	21	27	60	36	M6 x 1.0	0.40	•
	HSK40E-SFH8-80	8	21	27	80	36	M6 x 1.0	0.50	
	HSK40E-SFH10-60	10	24	32	60	42	M8 x 1.0	0.50	•
	HSK40E-SFH10-80	10	24	32	80	42	M8 x 1.0	0.60	•

SHRINK FIT HOLDER


DIN 69893
- HSK

Taper
Accuracy

G Value

2.5

RPM

25,000

Run-Out
(I.D)

≤3Um

Coolant
System

AD

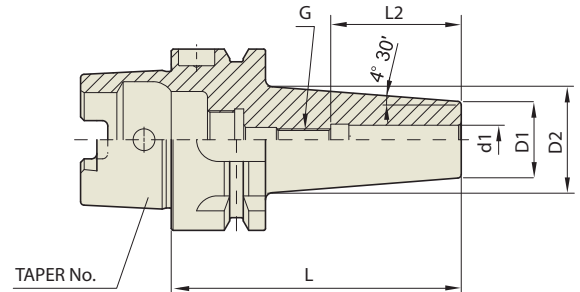
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
50A	HSK50A-SFH3-80	3	11	21	80	14	-	0.54	
	HSK50A-SFH4-80	4	11	21	80	17	-	0.55	
	HSK50A-SFH5-80	5	13	23	80	23	-	0.56	
	HSK50A-SFH6-80	6	21	27	80	36	M5 x 0.8	0.57	
	HSK50A-SFH8-80	8	21	27	80	36	M6 x 1.0	0.58	
	HSK50A-SFH10-85	10	24	32	85	42	M8 x 1.0	0.65	
	HSK50A-SFH12-90	12	24	32	90	47	M10 x 1.0	0.67	
	HSK50A-SFH14-90	14	27	34	90	47	M10 x 1.0	0.72	
	HSK50A-SFH16-95	16	27	34	95	50	M12 x 1.0	0.73	
	HSK50A-SFH18-95	18	33	42	95	50	M12 x 1.0	0.90	
	HSK50A-SFH20-100	20	33	42	100	52	M16 x 1.0	0.92	
63A	HSK63A-SFH3-80	3	11	21	80	14	-	0.70	•
	HSK63A-SFH4-80	4	11	21	80	17	-	0.70	•
	HSK63A-SFH5-80	5	13	23	80	23	-	0.70	•
	HSK63A-SFH6-80	6	21	27	80	36	M5 x 0.8	0.83	•
	HSK63A-SFH6-160	6	21	27	160	36	M5 x 0.8	1.00	
	HSK63A-SFH8-80	8	21	27	80	36	M6 x 1.0	0.83	•
	HSK63A-SFH8-160	8	21	27	160	36	M6 x 1.0	1.00	
	HSK63A-SFH10-85	10	24	32	85	42	M8 x 1.0	0.83	•
	HSK63A-SFH10-160	10	24	32	160	42	M8 x 1.0	1.00	
	HSK63A-SFH12-90	12	24	32	90	47	M10 x 1.0	0.83	
	HSK63A-SFH12-160	12	24	32	160	47	M10 x 1.0	1.00	
	HSK63A-SFH14-90	14	27	34	90	47	M10 x 1.0	0.91	
	HSK63A-SFH14-160	14	27	34	160	47	M10 x 1.0	1.30	
	HSK63A-SFH16-95	16	27	34	95	50	M12 x 1.0	0.98	•
	HSK63A-SFH16-160	16	27	34	160	50	M12 x 1.0	1.40	
	HSK63A-SFH18-95	18	33	42	95	50	M12 x 1.0	0.98	
	HSK63A-SFH18-160	18	33	42	160	50	M12 x 1.0	1.40	
	HSK63A-SFH20-100	20	33	42	100	52	M16 x 1.0	1.00	
	HSK63A-SFH20-160	20	33	42	160	52	M16 x 1.0	1.40	
	HSK63A-SFH25-115	25	44	53	115	58	M16 x 1.0	1.40	
	HSK63A-SFH25-160	25	44	53	160	58	M16 x 1.0	1.80	

- Without balancing screw.

SHRINK FIT HOLDER



DIN 69893 - HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3Um	Coolant System AD
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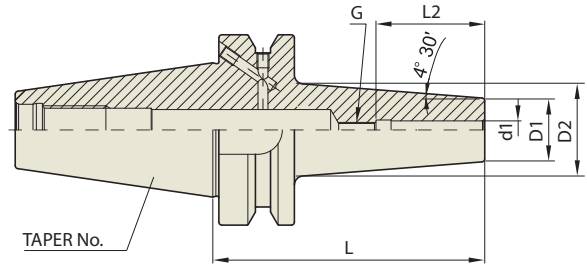
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
100A	HSK100A-SFH3-85	3	11	21	85	14	-	1.30	
	HSK100A-SFH4-85	4	11	21	85	17	-	1.30	
	HSK100A-SFH5-85	5	13	23	85	23	-	1.30	
	HSK100A-SFH6-85	6	21	27	85	36	M5×0.8	1.30	•
	HSK100A-SFH6-160	6	21	27	160	36	M5×0.8	1.80	
	HSK100A-SFH8-85	8	21	27	85	36	M6×1.0	1.30	•
	HSK100A-SFH8-160	8	21	27	160	36	M6×1.0	1.80	
	HSK100A-SFH10-90	10	24	32	90	42	M8×1.0	1.30	•
	HSK100A-SFH10-160	10	24	32	160	42	M8×1.0	1.80	
	HSK100A-SFH12-95	12	24	32	95	47	M10×1.0	1.30	
	HSK100A-SFH12-160	12	24	32	160	47	M10×1.0	1.80	
	HSK100A-SFH14-95	14	27	34	95	47	M10×1.0	1.40	
	HSK100A-SFH14-160	14	27	34	160	47	M10×1.0	1.90	
	HSK100A-SFH16-100	16	27	34	100	50	M12×1.0	1.40	•
	HSK100A-SFH16-160	16	27	34	160	50	M12×1.0	1.90	•
	HSK100A-SFH18-100	18	33	42	100	50	M12×1.0	1.50	
	HSK100A-SFH18-160	18	33	42	160	50	M12×1.0	2.00	
	HSK100A-SFH20-100	20	33	42	100	52	M16×1.0	1.50	•
	HSK100A-SFH20-160	20	33	42	160	52	M16×1.0	2.00	•
	HSK100A-SFH25-115	25	44	53	115	58	M16×1.0	1.80	
	HSK100A-SFH25-160	25	44	53	160	58	M16×1.0	2.30	

- Without balancing screw.

SHRINK FIT HOLDER

JIS B6339
- BTTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(I.D)
≤3UmCoolant
System
AD/B

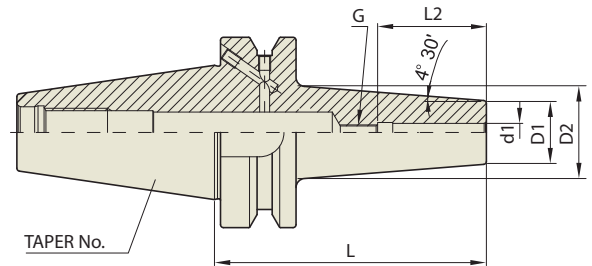
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
30	BT30AD/B-SFH3-60	3	11	21	60	14	-	0.40	
	BT30AD/B-SFH4-60	4	11	21	60	17	-	0.40	
	BT30AD/B-SFH5-60	5	13	23	60	23	-	0.40	
	BT30AD/B-SFH6-60	6	21	27	60	36	M5 x 0.8	0.40	
	BT30AD/B-SFH8-60	8	21	27	60	36	M6 x 1.0	0.40	
	BT30AD/B-SFH10-80	10	24	32	80	42	M8 x 1.0	0.40	
	BT30AD/B-SFH12-80	12	24	32	80	47	M10 x 1.0	0.42	
	BT30AD/B-SFH14-80	14	27	34	80	47	M10 x 1.0		
	BT30AD/B-SFH16-80	16	27	34	80	50	M12 x 1.0	0.42	
	BT30AD/B-SFH18-80	18	33	42	80	50	M12 x 1.0		
	BT30AD/B-SFH20-90	20	33	42	90	52	M16 x 1.0	0.44	
40	BT40AD/B-SFH3-90	3	11	21	90	14	-	1.00	●
	BT40AD/B-SFH4-90	4	11	21	90	17	-	1.00	●
	BT40AD/B-SFH5-90	5	13	23	90	23	-	1.00	●
	BT40AD/B-SFH6-90	6	21	27	90	36	M5 x 0.8	1.10	●
	BT40AD/B-SFH6-160	6	21	27	160	36	M5 x 0.8	1.15	
	BT40AD/B-SFH8-90	8	21	27	90	36	M6 x 1.0	1.11	●
	BT40AD/B-SFH8-160	8	21	27	160	36	M6 x 1.0	1.15	
	BT40AD/B-SFH10-90	10	24	32	90	42	M8 x 1.0	1.10	●
	BT40AD/B-SFH10-160	10	24	32	160	42	M8 x 1.0	1.15	
	BT40AD/B-SFH12-90	12	24	32	90	47	M10 x 1.0	1.10	
	BT40AD/B-SFH12-160	12	24	32	160	47	M10 x 1.0	1.15	
	BT40AD/B-SFH14-90	14	27	34	90	47	M10 x 1.0	1.20	
	BT40AD/B-SFH14-160	14	27	34	160	47	M10 x 1.0	1.50	
	BT40AD/B-SFH16-90	16	27	34	90	50	M12 x 1.0	1.20	●
	BT40AD/B-SFH16-160	16	27	34	160	50	M12 x 1.0	1.50	
	BT40AD/B-SFH18-90	18	33	42	90	50	M12 x 1.0	1.30	
	BT40AD/B-SFH18-160	18	33	42	160	50	M12 x 1.0	1.60	
	BT40AD/B-SFH20-90	20	33	42	90	52	M16 x 1.0	1.40	●
	BT40AD/B-SFH20-160	20	33	42	160	52	M16 x 1.0	1.70	
	BT40AD/B-SFH25-100	25	44	53	100	58	M16 x 1.0	1.70	●
	BT40AD/B-SFH25-160	25	44	53	160	58	M16 x 1.0	2.00	

- CAT(ANSI B5.50) taper and Inch type products are available.
- Without balancing screw.

SHRINK FIT HOLDER



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3Um	Coolant System AD/B
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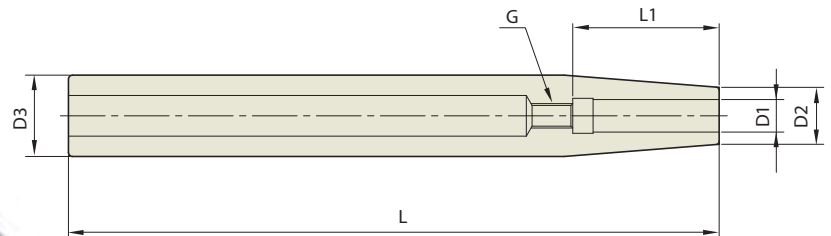
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
50	BT50AD/B-SFH3-100	3	11	21	100	14	-	1.50	
	BT50AD/B-SFH4-100	4	11	21	100	17	-	1.50	
	BT50AD/B-SFH5-100	5	13	23	100	23	-	1.50	
	BT50AD/B-SFH6-100	6	21	27	100	36	M5×0.8	1.50	
	BT50AD/B-SFH6-160	6	21	27	160	36	M5×0.8	2.00	
	BT50AD/B-SFH8-100	8	21	27	100	36	M6×1.0	1.50	
	BT50AD/B-SFH8-160	8	21	27	160	36	M6×1.0	2.00	
	BT50AD/B-SFH10-100	10	24	32	100	42	M8×1.0	1.50	
	BT50AD/B-SFH10-160	10	24	32	160	42	M8×1.0	2.00	
	BT50AD/B-SFH12-100	12	24	32	100	47	M10×1.0	1.50	
	BT50AD/B-SFH12-160	12	24	32	160	47	M10×1.0	2.00	
	BT50AD/B-SFH14-100	14	27	34	100	47	M10×1.0	1.60	
	BT50AD/B-SFH14-160	14	27	34	160	47	M10×1.0	2.10	
	BT50AD/B-SFH16-100	16	27	34	100	50	M12×1.0	1.60	
	BT50AD/B-SFH16-160	16	27	34	160	50	M12×1.0	2.10	
	BT50AD/B-SFH18-100	18	33	42	100	50	M12×1.0	1.60	
	BT50AD/B-SFH18-160	18	33	42	160	50	M12×1.0	2.00	
	BT50AD/B-SFH20-100	20	33	42	100	52	M16×1.0	1.80	
	BT50AD/B-SFH20-160	20	33	42	160	52	M16×1.0	2.20	
	BT50AD/B-SFH25-100	25	44	53	100	58	M16×1.0	2.00	
	BT50AD/B-SFH25-160	25	44	53	160	58	M16×1.0	2.40	

- CAT(ANSI B5.50) taper and Inch type products are available.
- Without balancing screw.

SHRINK FIT HOLDER (EXTENSION)



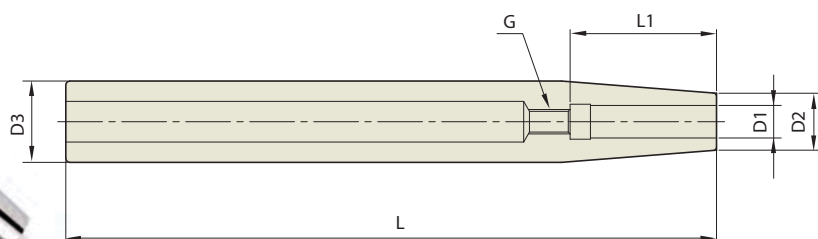
STANDARD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L1	L	G	Weight (kg)	Stock
12	ST12-SFH3-120	12	3	8	19	120	-		●
	ST12-SFH4-120	12	4	8	22	120	-		●
	ST12-SFH5-120	12	5	10	28	120	-		●
	ST12-SFH6-120	12	6	10	36	120	M5 x 0.8		●
16	ST16-SFH3-120	16	3	10	19	120	-		●
	ST16-SFH4-120	16	4	10	22	120	-		●
	ST16-SFH5-120	16	5	10	28	120	-		●
	ST16-SFH6-120	16	6	10	36	120	M5 x 0.8		●
	ST16-SFH8-120	16	8	12	36	120	M6 x 1.0		●
20	ST20-SFH3-120	20	3	10	19	120	-		●
	ST20-SFH4-120	20	4	10	22	120	-		●
	ST20-SFH5-120	20	5	10	28	120	-		●
	ST20-SFH6-120	20	6	10	36	120	M5 x 0.8		●
	ST20-SFH8-120	20	8	12	36	120	M6 x 1.0		●
	ST20-SFH10-120	20	10	14	42	120	M8 x 1.0		●
	ST20-SFH12-120	20	12	16	47	120	M10 x 1.0		●

- Inch type products are available.

SHRINK FIT HOLDER (EXTENSION)



■ EXTENDED

Unit : mm

TAPER No.	MODEL No.	D3	D1	D2	L1	L	G	Weight (kg)	Stock
12	ST12-SFH3-160	12	3	8	19	160	-		●
	ST12-SFH4-160	12	4	8	22	160	-		●
	ST12-SFH5-160	12	5	10	28	160	-		●
	ST12-SFH6-160	12	6	10	36	160	M5 x 0.8		●
16	ST16-SFH3-160	16	3	10	19	160	-		●
	ST16-SFH4-160	16	4	10	22	160	-		●
	ST16-SFH5-160	16	5	10	28	160	-		●
	ST16-SFH6-160	16	6	10	36	160	M5 x 0.8		●
	ST16-SFH8-160	16	8	12	36	160	M6 x 1.0		●
20	ST20-SFH3-160	20	3	10	19	160	-		●
	ST20-SFH4-160	20	4	10	22	160	-		●
	ST20-SFH5-160	20	5	10	28	160	-		●
	ST20-SFH6-160	20	6	10	36	160	M5 x 0.8		●
	ST20-SFH8-160	20	8	12	36	160	M6 x 1.0		●
	ST20-SFH10-160	20	10	14	42	160	M8 x 1.0		●
	ST20-SFH12-160	20	12	16	47	160	M10 x 1.0		●
25	ST25-SFH3-160	25	3	10	19	160	-		●
	ST25-SFH4-160	25	4	10	22	160	-		●
	ST25-SFH5-160	25	5	15	28	160	-		●
	ST25-SFH6-160	25	6	20	36	160	M5 x 0.8		●
	ST25-SFH8-160	25	8	20	36	160	M6 x 1.0		●
	ST25-SFH10-160	25	10	20	42	160	M8 x 1.0		●
	ST25-SFH12-160	25	12	20	47	160	M10 x 1.0		●
	ST25-SFH14-160	25	14	20	47	160	M10 x 1.0		●
	ST25-SFH16-160	25	16	22	50	160	M12 x 1.0		●
32	ST32-SFH6-160	32	6	20	36	160	M5 x 0.8		●
	ST32-SFH8-160	32	8	20	36	160	M6 x 1.0		●
	ST32-SFH10-160	32	10	24	42	160	M8 x 1.0		●
	ST32-SFH12-160	32	12	24	47	160	M10 x 1.0		●
	ST32-SFH14-160	32	14	27	47	160	M10 x 1.0		●
	ST32-SFH16-160	32	16	27	50	160	M12 x 1.0		●
	ST32-SFH18-160	32	18	27	50	160	M12 x 1.0		●
	ST32-SFH20-160	32	20	27	52	160	M16 x 1.0		●

• Inch type products are available.



ER COLLET CHUCK

DIN 69871-SK

DIN 69893/ISO 12164-1-HSK

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT

ISO 26623 - CAPTO

DIN 228-MTA/MTB

STRAIGHT-K

NC and R8

ACCESSORY & PART

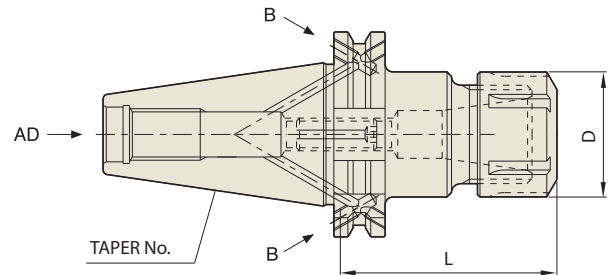
ER COLLET

TAP ER COLLET

ER NUT & SEALING DISK

SPANNER

ER COLLET CHUCK



ER Collet Chuck

DIN 69871-SK

■ STANDARD

DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
30	SK30AD/B-ER11-55	0.5~7.0	19	55	ER11		
	SK30AD/B-ER16-55	0.5~10.0	28	55	ER16		
	SK30AD/B-ER20-55	1.0~13.0	34	55	ER20		
	SK30AD/B-ER25-55	1.0~16.0	42	55	ER25		
	SK30AD/B-ER32-60	2.0~20.0	50	60	ER32		
40	SK40AD/B-ER11-70	0.5~7.0	19	70	ER11		
	SK40AD/B-ER16-70	0.5~10.0	28	70	ER16		
	SK40AD/B-ER20-70	1.0~13.0	34	70	ER20		
	SK40AD/B-ER25-70	1.0~16.0	42	70	ER25		
	SK40AD/B-ER32-70	2.0~20.0	50	70	ER32		
	SK40AD/B-ER40-80	3.0~30.0	63	80	ER40		
50	SK50AD/B-ER16-70	0.5~10.0	28	70	ER16		
	SK50AD/B-ER20-70	1.0~13.0	34	70	ER20		
	SK50AD/B-ER25-70	1.0~16.0	42	70	ER25		
	SK50AD/B-ER32-70	2.0~20.0	50	70	ER32		
	SK50AD/B-ER40-80	3.0~30.0	63	80	ER40		

■ EXTENDED

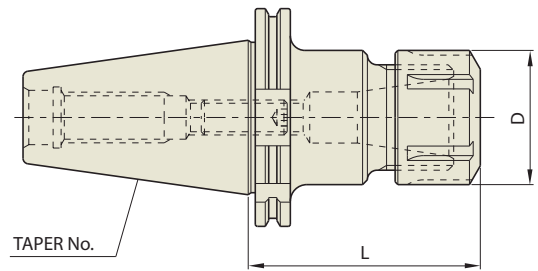
Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
30	SK40AD/B-ER16-100	0.5~10.0	28	100	ER16		
	SK40AD/B-ER20-100	1.0~13.0	34	100	ER20		
	SK40AD/B-ER25-100	1.0~16.0	42	100	ER25		
	SK40AD/B-ER32-100	2.0~20.0	50	100	ER32		
40	SK50AD/B-ER16-100	0.5~10.0	28	100	ER16		
	SK50AD/B-ER20-100	1.0~13.0	34	100	ER20		
	SK50AD/B-ER25-100	1.0~16.0	42	100	ER25		
	SK50AD/B-ER32-100	2.0~20.0	50	100	ER32		
	SK50AD/B-ER40-100	3.0~30.0	63	100	ER40		

- CAT(ANSI B5.50) taper and Inch type products are available.

ER COLLET CHUCK

ER Collet
Chuck



DIN 69871-SK

■ STANDARD

DIN 69871 - SK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
30	SK30-ER11-55	0.5~7.0	19	55	ER11		
	SK30-ER16-55	0.5~10.0	28	55	ER16		●
	SK30-ER20-55	1.0~13.0	34	55	ER20		●
	SK30-ER25-55	1.0~16.0	42	55	ER25		
	SK30-ER32-60	2.0~20.0	50	60	ER32		●
40	SK40-ER11-70	0.5~7.0	19	70	ER11		
	SK40-ER16-70	0.5~10.0	28	70	ER16		●
	SK40-ER20-70	1.0~13.0	34	70	ER20		●
	SK40-ER25-70	1.0~16.0	42	70	ER25		●
	SK40-ER32-70	2.0~20.0	50	70	ER32		●
	SK40-ER40-80	3.0~30.0	63	80	ER40		
50	SK50-ER16-70	0.5~10.0	28	70	ER16		
	SK50-ER20-70	1.0~13.0	34	70	ER20		●
	SK50-ER25-70	1.0~16.0	42	70	ER25		●
	SK50-ER32-70	2.0~20.0	50	70	ER32		●
	SK50-ER40-80	3.0~30.0	63	80	ER40		

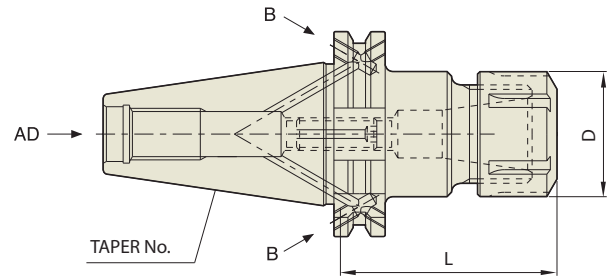
■ EXTENDED

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
40	SK40-ER16-100	0.5~10.0	28	100	ER16		●
	SK40-ER20-100	1.0~13.0	34	100	ER20		●
	SK40-ER25-100	1.0~16.0	42	100	ER25		●
	SK40-ER32-100	2.0~20.0	50	100	ER32		●
50	SK50-ER16-100	0.5~10.0	28	100	ER16		●
	SK50-ER20-100	1.0~13.0	34	100	ER20		●
	SK50-ER25-100	1.0~16.0	42	100	ER25		●
	SK50-ER32-100	2.0~20.0	50	100	ER32		●
	SK50-ER40-100	3.0~30.0	63	100	ER40		

- CAT(ANSI B5.50) taper and Inch type products are available.

ER COLLET CHUCK



ER Collet Chuck

DIN 69871-SK

■ STANDARD

DIN 69871 - SK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
40	SK40AD/B-ER11-70	0.5~7.0	19	70	ER11	0.80	●
	SK40AD/B-ER16-70	0.5~10.0	28	70	ER16	0.90	●
	SK40AD/B-ER20-70	1.0~13.0	34	70	ER20	1.20	●
	SK40AD/B-ER25-70	1.0~16.0	42	70	ER25	1.30	●
	SK40AD/B-ER32-70	2.0~20.0	50	70	ER32	1.50	●
	SK40AD/B-ER40-80	3.0~30.0	63	80	ER40	1.70	●
50	SK50AD/B-ER16-70	0.5~10.0	28	70	ER16	2.80	●
	SK50AD/B-ER20-70	1.0~13.0	34	70	ER20	2.90	●
	SK50AD/B-ER25-70	1.0~16.0	42	70	ER25	3.10	●
	SK50AD/B-ER32-70	2.0~20.0	50	70	ER32	3.30	●
	SK50AD/B-ER40-80	3.0~30.0	63	80	ER40	3.50	●

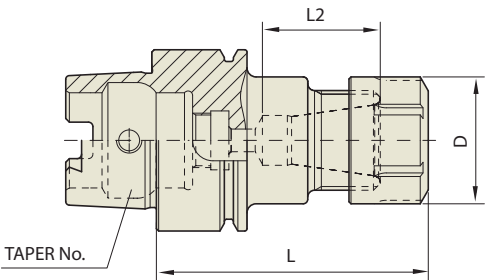
■ EXTENDED

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
40	SK40AD/B-ER16-100	0.5~10.0	28	100	ER16	1.05	●
	SK40AD/B-ER20-100	1.0~13.0	34	100	ER20	1.13	●
	SK40AD/B-ER25-100	1.0~16.0	42	100	ER25	1.35	●
	SK40AD/B-ER32-100	2.0~20.0	50	100	ER32	1.43	●
50	SK50AD/B-ER16-100	0.5~10.0	28	100	ER16	2.90	●
	SK50AD/B-ER20-100	1.0~13.0	34	100	ER20	3.10	●
	SK50AD/B-ER25-100	1.0~16.0	42	100	ER25	3.30	●
	SK50AD/B-ER32-100	2.0~20.0	50	100	ER32	3.50	●
	SK50AD/B-ER40-100	3.0~30.0	63	100	ER40	3.80	●

- CAT(ANSI B5.50) taper and Inch type products are available.

ER COLLET CHUCK



DIN 69893/ISO 12164-1-HSK FORM A

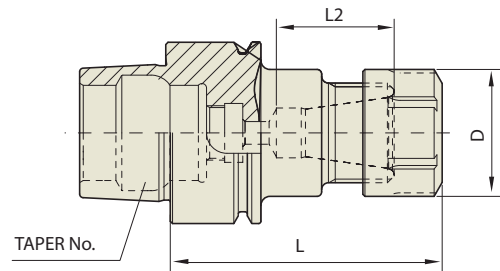
■ Standard Type

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
32A	HSK32A-ER11-50	0.5 ~ 7.0	19	50	22	ER11		
	HSK32A-ER16-60	0.5 ~ 10.0	28	60	26	ER16		
40A	HSK40A-ER11-60	0.5 ~ 7.0	19	60	22	ER 11	0.40	
	HSK40A-ER16-60	0.5 ~ 10.0	28	60	26	ER 16	0.50	
	HSK40A-ER20-70	1.0 ~ 13.0	34	70	33	ER 20	0.80	

■ Slim Type

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
32A	HSK32A-ER8M-40	0.5 ~ 5.0	12	40	13	ERM8/ER8		
	HSK32A-ER11M-40	0.5 ~ 7.0	16	40	22	ERM11/ER11		
	HSK32A-ER16M-60	0.5 ~ 10.0	22	60	26	ERM16/ER16		
	HSK32A-ER20M-60	1.0 ~ 13.0	28	60	33	ERM20/ER20		
40A	HSK40A-ER11M-75	0.5 ~ 7.0	16	75	22	ERM11/ER11	0.40	
	HSK40A-ER16M-80	0.5 ~ 10.0	22	80	26	ERM16/ER16	0.50	
	HSK40A-ER20M-80	1.0 ~ 13.0	28	80	33	ERM20/ER20	0.70	
	HSK40A-ER25M-80	1.0 ~ 16.0	35	80	40	ERM25/ER25	0.80	

ER COLLET CHUCK



DIN 69893
- HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

Coolant
System
AD

DIN 69893/ISO 12164-1-HSK FORM E

■ Standard Type

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
25E	HSK25E-ER11-40	0.5-7.0	19	40	20	ER11		
	HSK25E-ER16-50	0.5-10.0	22	50	26	ER16		
32E	HSK32E-ER11-50	0.5 ~ 7.0	19	50	22	ER11		
	HSK32E-ER16-60	0.5 ~ 10.0	28	60	26	ER16		
40E	HSK40E-ER11-60	0.5 ~ 7.0	19	60	22	ER11	0.40	
	HSK40E-ER16-60	0.5 ~ 10.0	28	60	26	ER16	0.50	
	HSK40E-ER20-70	1.0 ~ 13.0	34	70	33	ER20	0.80	

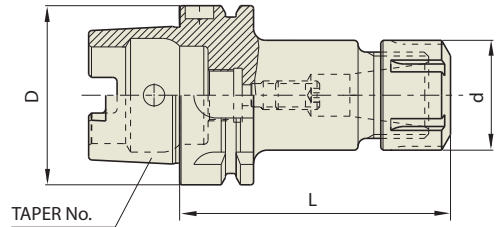
■ Slim Type

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
25E	HSK25E-ER8M-35	0.5-5.0	12	35	13	ER8M/ER8		
	HSK25E-ER11M-40	0.5-7.0	16	40	20	ER11M/ER11		
32E	HSK32E-ER8M-40	0.5 ~ 5.0	12	40	13	ERM8/ER8		
	HSK32E-ER11M-40	0.5 ~ 7.0	16	40	22	ERM11/ER11		
	HSK32E-ER16M-60	0.5 ~ 10.0	22	60	26	ERM16/ER16		
	HSK32E-ER20M-60	1.0 ~ 13.0	28	60	33	ERM20/ER20		
40E	HSK40E-ER11M-75	0.5 ~ 7.0	16	75	22	ERM11/ER11	0.40	
	HSK40E-ER16M-80	0.5 ~ 10.0	22	80	26	ERM16/ER16	0.50	
	HSK40E-ER20M-80	1.0 ~ 13.0	28	80	33	ERM20/ER20	0.70	
	HSK40E-ER25M-80	1.0 ~ 16.0	35	80	40	ERM25/ER25	0.80	

ER COLLET CHUCK

ER Collet
Chuck



DIN 69893
- HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

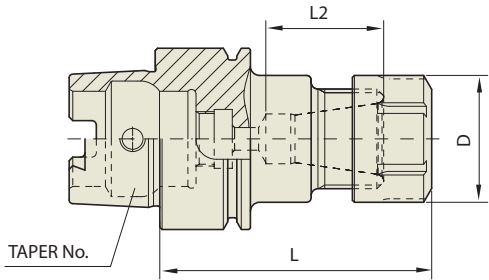
Coolant
System
AD

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm								
TAPER No.	MODEL No.	CLAMPING RANGE	d	D	L	NUT / COLLET	Weight (kg)	Stock
50A	HSK 50A-ER16-100	0.5-10	28	50	100	ER16	0.70	
	HSK 50A-ER20-100	1-13	35	50	100	ER20	0.90	
	HSK 50A-ER25-100	1-16	42	50	100	ER25	1.20	
	HSK 50A-ER32-100	2-20	50	50	100	ER32	1.50	
63A	HSK 63A-ER16-100	0.5-10	28	63	100	ER16	1.20	
	HSK 63A-ER20-100	1-13	35	63	100	ER20	1.50	
	HSK 63A-ER25-100	1-16	42	63	100	ER25	1.80	
	HSK 63A-ER32-100	2-20	50	63	100	ER32	2.00	
	HSK 63A-ER40-120	3-26	63	63	120	ER40	2.30	
100A	HSK100A-ER16-100	0.5-10	28	100	100	ER16	2.60	
	HSK100A-ER20-100	1-13	35	100	100	ER20	2.70	
	HSK100A-ER25-100	1-16	42	100	100	ER25	2.90	
	HSK100A-ER32-100	2-20	50	100	100	ER32	3.10	
	HSK100A-ER40-100	3-26	63	100	120	ER40	3.30	

ER COLLET CHUCK

ER Collet
Chuck



DIN 69893/ISO 12164-1-HSK FORM A

DIN 69893 - HSK	Taper Accuracy	G Value 6.3	RPM 15,000	Coolant System AD
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■ Standard Type

Unit : mm

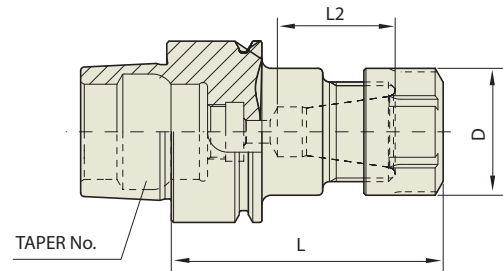
TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
32A	HSK32A-ER11-50	0.5 ~ 7.0	19	50	22	ER11		
	HSK32A-ER16-60	0.5 ~ 10.0	28	60	26	ER16		
40A	HSK40A-ER11-60	0.5 ~ 7.0	19	60	22	ER 11	0.40	●
	HSK40A-ER16-60	0.5 ~ 10.0	28	60	26	ER 16	0.50	●
	HSK40A-ER20-70	1.0 ~ 13.0	34	70	33	ER 20	0.80	●

■ Slim Type

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
32A	HSK32A-ER8M-40	0.5 ~ 5.0	12	40	13	ERM8/ER8		
	HSK32A-ER11M-40	0.5 ~ 7.0	16	40	22	ERM11/ER11		
	HSK32A-ER16M-60	0.5 ~ 10.0	22	60	26	ERM16/ER16		
	HSK32A-ER20M-60	1.0 ~ 13.0	28	60	33	ERM20/ER20		
40A	HSK40A-ER11M-75	0.5 ~ 7.0	16	75	22	ERM11/ER11	0.40	●
	HSK40A-ER16M-80	0.5 ~ 10.0	22	80	26	ERM16/ER16	0.50	●
	HSK40A-ER20M-80	1.0 ~ 13.0	28	80	33	ERM20/ER20	0.70	●
	HSK40A-ER25M-80	1.0 ~ 16.0	35	80	40	ERM25/ER25	0.80	●

ER COLLET CHUCK



DIN 69893/ISO 12164-1-HSK FORM E

■ Standard Type

DIN 69893 - HSK	Taper Accuracy	G Value 6.3	RPM 15,000	Coolant System AD
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Unit : mm

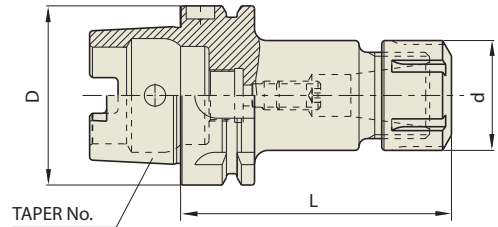
TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
32E	HSK32E-ER11-50	0.5 ~ 7.0	19	50	22	ER 11		
	HSK32E-ER16-60	0.5 ~ 10.0	28	60	26	ER 16		
40E	HSK40E-ER11-60	0.5 ~ 7.0	19	60	22	ER 11	0.40	●
	HSK40E-ER16-60	0.5 ~ 10.0	28	60	26	ER 16	0.50	●
	HSK40E-ER20-70	1.0 ~ 13.0	34	70	33	ER 20	0.80	●

■ Slim Type

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
32E	HSK32E-ER8M-40	0.5 ~ 5.0	12	40	13	ERM8/ER8		
	HSK32E-ER11M-40	0.5 ~ 7.0	16	40	22	ERM11/ER11		
	HSK32E-ER16M-60	0.5 ~ 10.0	22	60	26	ERM16/ER16		
	HSK32E-ER20M-60	1.0 ~ 13.0	28	60	33	ERM20/ER20		
40E	HSK40E-ER11M-75	0.5 ~ 7.0	16	75	22	ERM11/ER11	0.40	●
	HSK40E-ER16M-80	0.5 ~ 10.0	22	80	26	ERM16/ER16	0.50	●
	HSK40E-ER20M-80	1.0 ~ 13.0	28	80	33	ERM20/ER20	0.70	●
	HSK40E-ER25M-80	1.0 ~ 16.0	35	80	40	ERM25/ER25	0.80	●

ER COLLET CHUCK



ER Collet
Chuck

DIN 69893
- HSK

Taper
Accuracy

G Value
6.3

RPM
15,000

Coolant
System
AD

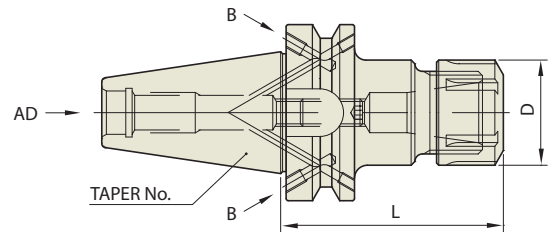
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	d	D	L	NUT / COLLET	Weight (kg)	Stock
50A	HSK 50A-ER16-100	0.5-10	28	50	100	ER16	0.70	
	HSK 50A-ER20-100	1-13	35	50	100	ER20	0.90	
	HSK 50A-ER25-100	1-16	42	50	100	ER25	1.20	
	HSK 50A-ER32-100	2-20	50	50	100	ER32	1.50	
63A	HSK 63A-ER16-100	0.5-10	28	63	100	ER16	1.20	●
	HSK 63A-ER20-100	1-13	35	63	100	ER20	1.50	●
	HSK 63A-ER25-100	1-16	42	63	100	ER25	1.80	●
	HSK 63A-ER32-100	2-20	50	63	100	ER32	2.00	●
	HSK 63A-ER40-120	3-26	63	63	120	ER40	2.30	●
100A	HSK100A-ER16-100	0.5-10	28	100	100	ER16	2.60	
	HSK100A-ER20-100	1-13	35	100	100	ER20	2.70	
	HSK100A-ER25-100	1-16	42	100	100	ER25	2.90	
	HSK100A-ER32-100	2-20	50	100	100	ER32	3.10	
	HSK100A-ER40-100	3-26	63	100	120	ER40	3.30	

ER COLLET CHUCK

ER Collet
Chuck



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant
System
AD/B

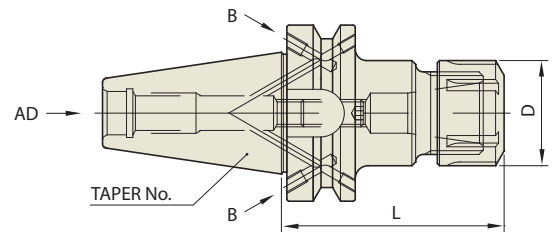
JIS B6339 (MAS 403)-BT

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
20	BT20AD/B-ER11-50	0.5 ~ 7.0	19	50	ER11		
	BT20AD/B-ER16-50	0.5 ~ 10.0	28	50	ER16		
25	BT25AD/B-ER11-50	0.5 ~ 7.0	19	50	ER11		
	BT25AD/B-ER16-50	0.5 ~ 10.0	28	50	ER16		
30	BT30AD/B-ER11-70	0.5~7.0	19	70	ER11	0.5	
	BT30AD/B-ER11-100	0.5~7.0	19	100	ER11	0.5	
	BT30AD/B-ER16-70	0.5~10.0	28	70	ER16	1.0	
	BT30AD/B-ER16-100	0.5~10.0	28	100	ER16	1.1	
	BT30AD/B-ER20-80	1.0~13.0	34	80	ER20	1.2	
	BT30AD/B-ER20-100	1.0~13.0	34	100	ER20	1.3	
	BT30AD/B-ER25-70	1.0~16.0	42	70	ER25	1.2	
	BT30AD/B-ER25-100	1.0~16.0	42	100	ER25	1.3	
	BT30AD/B-ER32-60	2.0~20.0	50	60	ER32	1.4	
40	BT30AD/B-ER32-90	2.0~20.0	50	90	ER32	1.9	
	BT40AD/B-ER11-75	0.5~7.0	19	75	ER11	1.0	
	BT40AD/B-ER11-100	0.5~7.0	19	100	ER11	1.1	
	BT40AD/B-ER16-75	0.5~10.0	28	75	ER16	1.1	
	BT40AD/B-ER16-100	0.5~10.0	28	100	ER16	1.2	
	BT40AD/B-ER16-120	0.5~10.0	28	120	ER16	1.4	
	BT40AD/B-ER20-75	1.0~13.0	34	75	ER20	1.4	
	BT40AD/B-ER20-100	1.0~13.0	34	100	ER20	1.8	
	BT40AD/B-ER20-135	1.0~13.0	34	135	ER20	2.2	
	BT40AD/B-ER25-75	1.0~16.0	42	75	ER25	1.4	
	BT40AD/B-ER25-100	1.0~16.0	42	100	ER25	1.8	
	BT40AD/B-ER25-135	1.0~16.0	42	135	ER25	2.2	
	BT40AD/B-ER25-150	1.0~16.0	42	150	ER25	2.4	
	BT40AD/B-ER32-60	2.0~20.0	50	60	ER32	1.8	
	BT40AD/B-ER32-100	2.0~20.0	50	100	ER32	2.2	
	BT40AD/B-ER32-120	2.0~20.0	50	120	ER32	2.4	
	BT40AD/B-ER32-150	2.0~20.0	50	150	ER32	2.6	
	BT40AD/B-ER40-80	3.0~30.0	63	80	ER40	1.5	

- CAT(ANSI B5.50) taper and Inch type products are available.

ER COLLET CHUCK



ER Collet
Chuck

JIS B6339
- BT

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant
System
AD/B

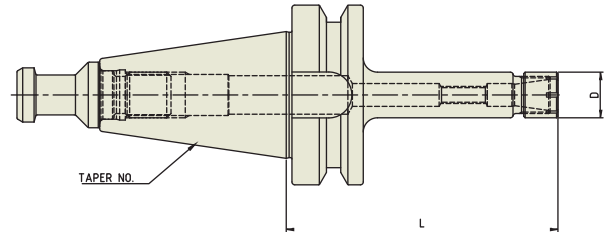
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
50	BT50AD/B-ER16-100	0.5~10.0	28	100	ER16	4.2	
	BT50AD/B-ER16-120	0.5~10.0	28	120	ER16	4.4	
	BT50AD/B-ER16-165	0.5~10.0	28	165	ER16	4.6	
	BT50AD/B-ER20-100	1.0~13.0	34	100	ER20	4.6	
	BT50AD/B-ER20-135	1.0~13.0	34	135	ER20	4.8	
	BT50AD/B-ER20-165	1.0~13.0	34	165	ER20	5.0	
	BT50AD/B-ER25-100	1.0~16.0	42	100	ER25	4.7	
	BT50AD/B-ER25-135	1.0~16.0	42	135	ER25	4.8	
	BT50AD/B-ER25-165	1.0~16.0	42	165	ER25	5.0	
	BT50AD/B-ER32-100	2.0~20.0	50	100	ER32	5.2	
	BT50AD/B-ER32-135	2.0~20.0	50	135	ER32	5.7	
	BT50AD/B-ER32-165	2.0~20.0	50	165	ER32	5.8	
	BT50AD/B-ER40-100	3.0~30.0	63	100	ER40	5.6	
	BT50AD/B-ER40-150	3.0~30.0	63	150	ER40	6.1	
	BT50AD/B-ER50-100	12.0~34.0	78	100	ER50	5.8	
	BT50AD/B-ER50-150	12.0~34.0	78	150	ER50	6.3	

- CAT(ANSI B5.50) taper and Inch type products are available.

ER COLLET CHUCK



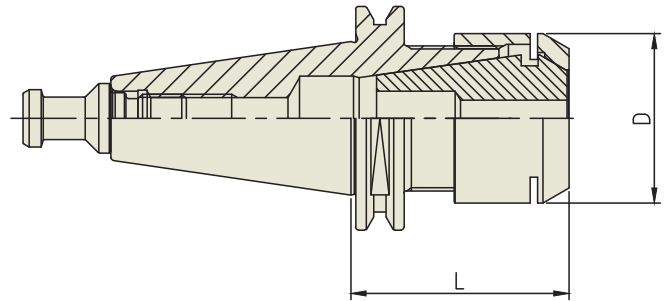
JIS B6339 - BT	Taper Accuracy At3	G Value TBD	RPM TBD	Coolant System AD
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JBS 4002-TP (SLIM TYPE)

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
20	TP20-ER8M-50	0.5 ~ 5.0	12	50	ERM8/ER8		
	TP20-ER11M-50	0.5 ~ 7.0	16	50	ERM11/ER11		
	TP20-ER16M-50	0.5 ~ 10.0	22	50	ERM16/ER16		
25	TP25-ER8M-50	0.5 ~ 5.0	12	50	ERM8/ER8		
	TP25-ER11M-50	0.5 ~ 7.0	16	50	ERM11/ER11		
	TP25-ER16M-50	0.5 ~ 10.0	22	50	ERM16/ER16		

- To be supplied with assembling of pull stud bolt.
- For determining balancing grade to be applied, separate discussion is needed.



ISO20/25	Taper Accuracy At3	G Value 2.5	RPM 40,000	Coolant System AD
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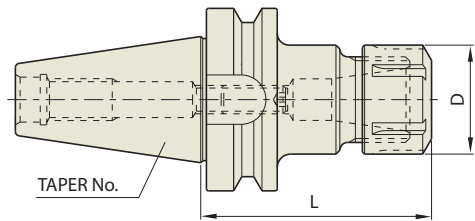
ISO20/25 (SLIM TYPE)

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
20	ISO20-ER16M-35	0.5~10.0	22	3	ERM16/ER16		
25	ISO25-ER16M-35	0.5~10.0	22	4	ERM16/ER16		
	ISO25-ER20M-36	1.0~13.0	28	5	ERM20/ER20		

- To be supplied with assembling of pull stud bolt.

ER COLLET CHUCK



ER Collet Chuck

JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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JIS B6339/MAS 403-BT

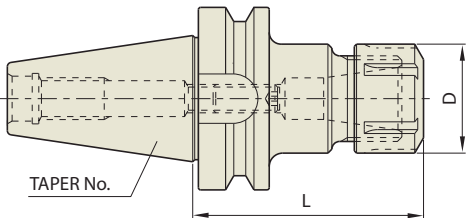
Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
30	BT30-ER11-70	0.5~7.0	19	70	ER11	0.5	
	BT30-ER11-100	0.5~7.0	19	100	ER11	0.5	
	BT30-ER16-70	0.5~10.0	28	70	ER16	1.0	●
	BT30-ER16-100	0.5~10.0	28	100	ER16	1.1	●
	BT30-ER20-80	1.0~13.0	34	80	ER20	1.2	●
	BT30-ER20-100	1.0~13.0	34	100	ER20	1.3	●
	BT30-ER25-70	1.0~16.0	42	70	ER25	1.2	●
	BT30-ER25-100	1.0~16.0	42	100	ER25	1.3	●
	BT30-ER32-60	2.0~20.0	50	60	ER32	1.4	●
	BT30-ER32-90	2.0~20.0	50	90	ER32	1.9	●
40	BT40-ER11-75	0.5~7.0	19	75	ER11	1.0	
	BT40-ER11-100	0.5~7.0	19	100	ER11	1.1	
	BT40-ER16-75	0.5~10.0	28	75	ER16	1.1	●
	BT40-ER16-100	0.5~10.0	28	100	ER16	1.2	●
	BT40-ER16-120	0.5~10.0	28	120	ER16	1.4	
	BT40-ER20-75	1.0~13.0	34	75	ER20	1.4	
	BT40-ER20-100	1.0~13.0	34	100	ER20	1.8	●
	BT40-ER20-135	1.0~13.0	34	135	ER20	2.2	
	BT40-ER25-75	1.0~16.0	42	75	ER25	1.4	
	BT40-ER25-100	1.0~16.0	42	100	ER25	1.8	●
	BT40-ER25-135	1.0~16.0	42	135	ER25	2.2	
	BT40-ER25-150	1.0~16.0	42	150	ER25	2.4	
	BT40-ER32-60	2.0~20.0	50	60	ER32	1.8	●
	BT40-ER32-100	2.0~20.0	50	100	ER32	2.2	●
	BT40-ER32-120	2.0~20.0	50	120	ER32	2.4	●
	BT40-ER32-150	2.0~20.0	50	150	ER32	2.6	
	BT40-ER40-80	3.0~30.0	63	80	ER40	1.5	

- CAT(ANSI B5.50) taper and Inch type products are available.

ER COLLET CHUCK

ER Collet
Chuck



JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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JIS B6339/MAS 403-BT

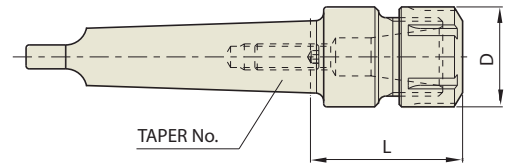
Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
50	BT50-ER16-100	0.5~10.0	28	100	ER16	4.2	
	BT50-ER16-120	0.5~10.0	28	120	ER16	4.4	●
	BT50-ER16-165	0.5~10.0	28	165	ER16	4.6	
	BT50-ER20-100	1.0~13.0	34	100	ER20	4.6	●
	BT50-ER20-135	1.0~13.0	34	135	ER20	4.8	●
	BT50-ER20-165	1.0~13.0	34	165	ER20	5.0	
	BT50-ER25-100	1.0~16.0	42	100	ER25	4.7	
	BT50-ER25-135	1.0~16.0	42	135	ER25	4.8	●
	BT50-ER25-165	1.0~16.0	42	165	ER25	5.0	●
	BT50-ER32-100	2.0~20.0	50	100	ER32	5.2	●
	BT50-ER32-135	2.0~20.0	50	135	ER32	5.7	●
	BT50-ER32-165	2.0~20.0	50	165	ER32	5.8	●
	BT50-ER40-100	3.0~30.0	63	100	ER40	5.6	
	BT50-ER40-150	3.0~30.0	63	150	ER40	6.1	●
	BT50-ER50-100	12.0~34.0	78	100	ER50	5.8	
	BT50-ER50-150	12.0~34.0	78	150	ER50	6.3	●

- CAT(ANSI B5.50) taper and Inch type products are available.

ER COLLET CHUCK

ER Collet
Chuck

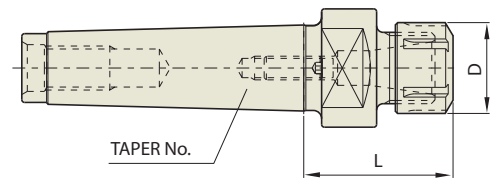


DIN 228-MTA

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
1	MTA1-ER11	0.5-7.0	19	35	ER11	0.30	
	MTA1-ER16	0.5-10	28	40	ER16	0.35	
2	MTA2-ER20	1-13	34	50	ER20	0.50	
	MTA2-ER25	1-16	42	50	ER25	0.60	
3	MTA3-ER25	1-16	42	60	ER25	0.60	
	MTA3-ER32	2-20	50	70	ER32	0.65	
4	MTA4-ER20	1-13	34	60	ER20	1.00	
	MTA4-ER25	1-16	42	60	ER25	1.10	
	MTA4-ER32	2-20	50	65	ER32	1.30	●
	MTA4-ER40	3-30	63	80	ER40	1.50	
5	MTA5-ER32	2-20	50	70	ER32	2.20	●
	MTA5-ER40	3-30	63	80	ER40	2.40	●
	MTA5-ER50	6-34	78	80	ER50	2.80	

ER COLLET CHUCK



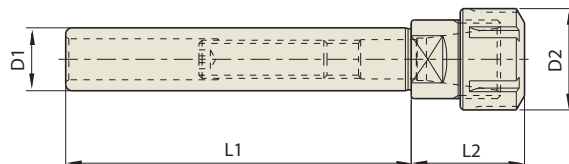
DIN 228-MTB

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
1	MTB1-ER16	1.0-10.0	28	40	ER16	0.35	
2	MTB2-ER20	1.0-13.0	34	50	ER20	0.50	
	MTB2-ER25	1.0-16.0	42	50	ER25	0.60	
3	MTB3-ER25	1.0-16.0	42	60	ER25	0.60	
	MTB3-ER32	2.0-20.0	50	70	ER32	0.65	
4	MTB4-ER32	2.0-20.0	50	70	ER32	1.10	●
	MTB4-ER40	3.0-30.0	63	80	ER40	1.30	
5	MTB5-ER32	2.0-20.0	50	70	ER32	2.00	●
	MTB5-ER40	3.0-30.0	63	80	ER40	2.20	●
	MTB5-ER50	6.0-34.0	78	80	ER50	2.60	●

ER COLLET CHUCK

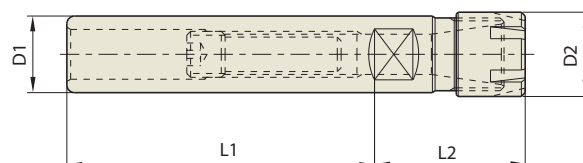
ER Collet
Chuck



STRAIGHT-K

Unit : mm									
TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L1	L2	NUT / COLLET	Weight (kg)	Stock
16	K16-ER11-100	0.5-7.0	16	19	100	32	ER11	0.15	●
	K16-ER16-100	0.5-10.0	16	28	100	36	ER16	0.18	
20	K20-ER16-100	0.5-10.0	20	28	100	36	ER16	0.25	●
	K20-ER20-100	1.0-13.0	20	34	100	40	ER20	0.29	●
	K20-ER25-100	1.0-16.0	20	42	100	50	ER25	0.35	
25	K25-ER20-100	1.0-13.0	25	34	100	40	ER20	0.40	●
	K25-ER25-100	1.0-16.0	25	42	100	50	ER25	0.45	●
32	K32-ER16-100	0.5-10.0	32	28	100	36	ER16	0.50	●
	K32-ER20-100	1.0-13.0	32	34	100	40	ER20	0.66	●
	K32-ER25-100	1.0-16.0	32	42	100	50	ER25	0.75	●
	K32-ER32-100	2.0-20.0	32	50	100	58	ER32	1.00	●

EXTENSION ER COLLET CHUCK



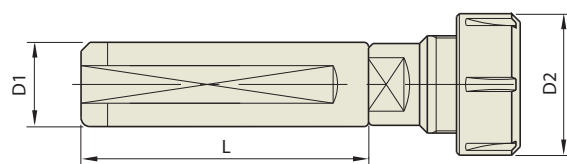
ER Collet
Chuck

■ STRAIGHT-K (SLIM TYPE)

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L1	L2	NUT / COLLET	Weight (kg)	Stock
12	K12-ER8M-70	0.5-5.0	12	12	70	25	ERM8/ER8	0.10	●
16	K16-ER11M-140	0.5-7.0	16	16	140	32	ERM11/ER11	0.22	●
20	K20-ER16M-140	0.5-10.0	20	22	140	41	ERM16/ER16	0.32	●
	K20-ER20M-140	1.0-13.0	20	28	140	41	ERM20/ER20	0.35	●
25	K25-ER16M-140	0.5-10.0	25	22	140	41	ERM16/ER16	0.45	●
	K25-ER20M-140	1.0-13.0	25	28	140	41	ERM20/ER20	0.52	●
	K25-ER25M-140	1.0-16.0	25	35	140	45	ERM25/ER25	0.55	●

TENSION ER CHUCK (For TAPPING)



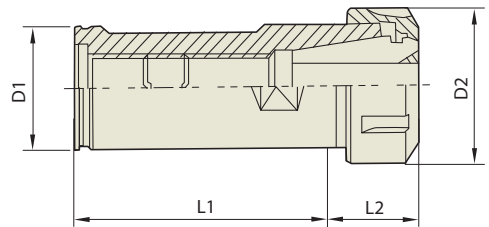
■ STRAIGHT-K

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L	NUT / COLLET	Weight (kg)	Stock
20	K20-ERT16-70	0.5-10.0	20	28	70	ER16	0.4	●
25	K25-ERT16-70	0.5-10.0	25	28	140	ER16	0.45	●
	K25-ERT20-80	1.0-13.0	25	34	140	ER20	0.50	●
32	K32-ERT16-70	0.5-10.0	32	28	140	ER16	0.70	●
	K32-ERT20-80	1.0-13.0	32	34	140	ER20	0.80	●
	K32-ERT25-80	1.0-16.0	32	42		ER25	1.00	●
	K32-ERT32-80	2.0-20.0	32	50	140	ER32	1.20	●

ER COLLET CHUCK

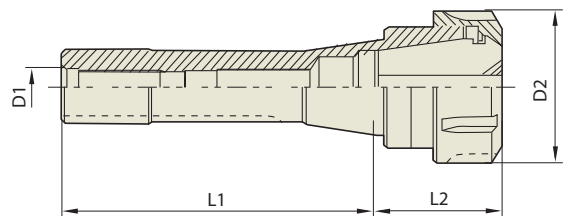
ER Collet
Chuck



■ NC- for CNC LATHE

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L1	L2	NUT / COLLET	Weight (kg)	Stock
25	NC25-ER11	0.5-7.0	25	19	65	32	ER11	0.30	
	NC25-ER16	0.5-10.0	25	28	65	32	ER16	0.45	
	NC25-ER20	1.0-13.0	25	34	65	32	ER20	0.50	●
	NC25-ER25	1.0-16.0	25	42	65	32	ER25	0.55	●
32	NC32-ER20	1.0-13.0	32	34	70	32	ER20	0.60	●
	NC32-ER25	1.0-16.0	32	42	70	38	ER25	0.70	●
	NC32-ER32	2.0-20.0	32	50	60	38	ER32	0.75	●
40	NC40-ER32	2.0-20.0	40	50	75	53	ER32	1.25	●
	NC40-ER40	3.0-30.0	40	63	75	53	ER40	1.30	



■ BRIDGEPORT-R8

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L1	L2	NUT / COLLET	Weight (kg)	Stock
R8	R8-ER32	2-20.0	U7/16	50	101.5	50	ER32	1.00	
	R8-ER40	3-30.0	U7/16	63	101.5	75	ER40	1.20	

ER COLLET - GER (High Precision)



*T.I.R. : ≤ 0.005mm at 3D

ER Collet
Chuck

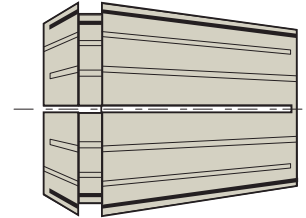
Unit : mm

TYPE GER 11		TYPE GER 20		TYPE GER 25		TYPE GER 32		TYPE GER 40	
CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.
1.0-0.5	111010	2.0-1.0	120020	2.0-1.0	125020	3.0-2.0	132030	4.0-3.0	140040
1.5-1.0	111015	3.0-2.0	120030	3.0-2.0	125030	4.0-3.0	132040	5.0-4.0	140050
2.0-1.5	111020	4.0-3.0	120040	4.0-3.0	125040	5.0-4.0	132050	6.0-5.0	140060
2.5-2.0	111025	5.0-4.0	120050	5.0-4.0	125050	6.0-5.0	132060	7.0-6.0	140070
3.0-2.5	111030	6.0-5.0	120060	6.0-5.0	125060	7.0-6.0	132070	8.0-7.0	140080
3.5-3.0	111035	7.0-6.0	120070	7.0-6.0	125070	8.0-7.0	132080	9.0-8.0	140090
4.0-3.5	111040	8.0-7.0	120080	8.0-7.0	125080	9.0-8.0	132090	10.0-9.0	140100
4.5-4.0	111045	9.0-8.0	120090	9.0-8.0	125090	10.0-9.0	132100	11.0-10.0	140110
5.0-4.5	111050	10.0-9.0	120100	10.0-9.0	125100	11.0-10.0	132110	12.0-11.0	140120
5.5-5.0	111055	11.0-10.0	120120	11.0-10.0	125110	12.0-11.0	132120	13.0-12.0	140130
6.0-5.5	111060	12.0-11.0	120130	12.0-11.0	125120	13.0-12.0	132130	14.0-13.0	140140
6.5-6.0	111065	13.0-12.0	120140	13.0-12.0	125130	14.0-13.0	132140	15.0-14.0	140150
7.0-6.5	111070	1.0-0.5	120010	14.0-13.0	125140	15.0-14.0	132150	16.0-15.0	140160
TYPE GER 16		1.5-1.0	120015	15.0-14.0	125150	16.0-15.0	132160	17.0-16.0	140170
		2.5-2.0	120025	16.0-15.0	125160	17.0-16.0	132170	18.0-17.0	140180
CLAMPING RANGE	CODE No.			1.0-1.5	125010	18.0-17.0	132180	19.0-18.0	140190
				1.5-1.0	125015	19.0-18.0	132190	20.0-19.0	140200
1.0-0.5	116010			2.5-2.0	125025	20.0-19.0	132200	21.0-20.0	140210
2.0-1.0	116020					2.0-1.0	132020	22.0-21.0	140220
3.0-2.0	116030					2.5-2.0	132025	23.0-22.0	140230
4.0-3.0	116040							24.0-23.0	140240
5.0-4.0	116050							25.0-24.0	140250
6.0-5.0	116060							26.0-25.0	140260
7.0-6.0	116070							3.0-2.0	140030
8.0-7.0	116080							27.0-26.0	140270
9.0-8.0	116090							28.0-27.0	140280
10.0-9.0	116100							29.0-28.0	140290
1.5-1.0	116015							30.0-29.0	140300
2.5-2.0	116025								

• Stock Control Item

ER COLLET - UF

ER Collet
Chuck

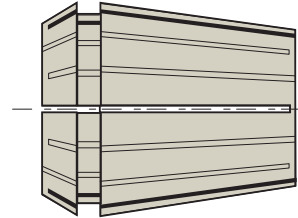


Unit : mm

TYPE ER 8		TYPE ER11		TYPE ER16		TYPE ER20	
CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.
1.0-0.5	208010	1.0-0.5	211010	1.0-0.5	216010	2.0-1.0	220020
1.5-1.0	208015	1.5-1.0	211015	2.0-1.0	216020	3.0-2.0	220030
2.0-1.5	208020	2.0-1.5	211020	3.0-2.0	216030	4.0-3.0	220040
2.5-2.0	208025	2.5-2.0	211025	4.0-3.0	216040	5.0-4.0	220050
3.0-2.5	208030	3.0-2.5	211030	5.0-4.0	216050	6.0-5.0	220060
3.5-3.0	208035	3.5-3.0	211035	6.0-5.0	216060	7.0-6.0	220070
4.0-3.5	208040	4.0-3.5	211040	7.0-6.0	216070	8.0-7.0	220080
4.5-4.0	208045	4.5-4.0	211045	8.0-7.0	216080	9.0-8.0	220090
5.0-4.5	208050	5.0-4.5	211050	9.0-8.0	216090	10.0-9.0	220100
		5.5-5.0	211055	10.0-9.0	216100	11.0-10.0	220120
		6.0-5.5	211060	1.5-1.0	216015	12.0-11.0	220130
		6.5-6.0	211065	2.5-2.0	216025	13.0-12.0	220140
		7.0-6.5	211070			1.0-0.5	220010
						1.5-1.0	220015
						2.5-2.0	220025
STANDARD SET	208000	STANDARD SET	211000	STANDARD SET	216000	STANDARD SET	220000
Ø 1.0-5.0mm		Ø1.0-7.0mm		Ø1.0-10.0mm		Ø2.0-13.0mm	
9PCS		13PCS		10PCS		12PCS	
WOODEN TRAY ZWT 8	108110	WOODEN TRAY ZWT 11	011110	WOODEN TRAY ZWT 16	016110	WOODEN TRAY ZWT 20	020110

- Stock Control Item
- Inch type products are available.

ER COLLET - UF



ER Collet
Chuck

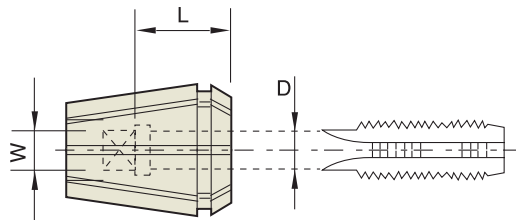
Unit : mm

TYPE ER25		TYPE ER32		TYPE ER40		TYPE ER50	
CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.
2.0-1.0	225020	3.0-2.0	232030	4.0-3.0	240040	12.0-10.0	250120
3.0-2.0	225030	4.0-3.0	232040	5.0-4.0	240050	14.0-12.0	250140
4.0-3.0	225040	5.0-4.0	232050	6.0-5.0	240060	16.0-14.0	250160
5.0-4.0	225050	6.0-5.0	232060	7.0-6.0	240070	18.0-16.0	250180
6.0-5.0	225060	7.0-6.0	232070	8.0-7.0	240080	20.0-18.0	250200
7.0-6.0	225070	8.0-7.0	232080	9.0-8.0	240090	22.0-20.0	250220
8.0-7.0	225080	9.0-8.0	232090	10.0-9.0	240100	24.0-22.0	250240
9.0-8.0	225090	10.0-9.0	232100	11.0-10.0	240110	26.0-24.0	250260
10.0-9.0	225100	11.0-10.0	232110	12.0-11.0	240120	28.0-26.0	250280
11.0-10.0	225110	12.0-11.0	232120	13.0-12.0	240130	30.0-28.0	250300
12.0-11.0	225120	13.0-12.0	232130	14.0-13.0	240140	32.0-30.0	250320
13.0-12.0	225130	14.0-13.0	232140	15.0-14.0	240150	34.0-32.0	250340
14.0-13.0	225140	15.0-14.0	232150	16.0-15.0	240160	6.0-4.0	250060
15.0-14.0	225150	16.0-15.0	232160	17.0-16.0	240170	8.0-6.0	250080
16.0-15.0	225160	17.0-16.0	232170	18.0-17.0	240180	10.0-8.0	250100
1.0-1.5	225010	18.0-17.0	232180	19.0-18.0	240190	25.0-23.0	250250
1.5-1.0	225015	19.0-18.0	232190	20.0-19.0	240200		
2.5-2.0	225025	20.0-19.0	232200	21.0-20.0	240210		
		2.0-1.0	232020	22.0-21.0	240220		
		2.5-2.0	232025	23.0-22.0	240230		
				24.0-23.0	240240		
				25.0-24.0	240250		
				26.0-25.0	240260		
				3.0-2.0	240030		
				27.0-26.0	240270		
				28.0-27.0	240280		
				29.0-28.0	240290		
				30.0-29.0	240300		
STANDARD SET	225000	STANDARD SET	232000	STANDARD SET	240000	STANDARD SET	250000
Ø 2.0-16.0mm		Ø 3.0-20.0mm		Ø 4.0-26.0mm		Ø 12.0-34.0mm	
15PCS		18PCS		23PCS		12PCS	
WOODEN TRAY ZWT 25	025110	WOODEN TRAY ZWT 32	032110	WOODEN TRAY ZWT 40	040110	WOODEN TRAY ZWT50	050110

- Stock Control Item
- Inch type products are available.

TAP ER COLLET

ER Collet
Chuck



Unit : mm

RDT 16				RDT 20				RDT 25				RDT 32				RDT 40			
TAP	D(Ø)	W(□)	L	TAP	D(Ø)	W(□)	L	TAP	D(Ø)	W(□)	L	TAP	D(Ø)	W(□)	L	TAP	D(Ø)	W(□)	L
M2	3.0	2.5	15																
M3	4.0	3.2	15	M3	4.0	3.2	15	M3	4.0	3.2	15								
M4	5.0	4.0	15	M4	5.0	4.0	15	M4	5.0	4.0	15	M4	5.0	4.0	15				
M5	5.5	4.5	15	M5	5.5	4.5	15	M5	5.5	4.5	15	M5	5.5	4.5	15				
M6	6.0	4.5	15	M6	6.0	4.5	15	M6	6.0	4.5	15	M6	6.0	4.5	15				
M8	6.2	5.0	15	M8	6.2	5.0	20	M8	6.2	5.0	20	M8	6.2	5.0	20	M8	6.2	5.0	20
				M10	7.0	5.5	20	M10	7.0	5.5	20	M10	7.0	5.5	20	M10	7.0	5.5	20
								M12	8.5	6.5	20	M12	8.5	6.5	20	M12	8.5	6.5	25
								M14	10.5	8.0	20	M14	10.5	8.0	20	M14	10.5	8.0	25
												M16	12.5	10.0	20	M16	12.5	10.0	25
												M18	14.0	11.0	20	M18	14.0	11.0	25
																M20	15.0	12.0	28
																M22	17.0	13.0	28
																M24	19.0	15.0	28

- Stock Control Item
- These ER collets are for exclusive use of tap.
- Various sizes of taps ranging from M2 to M24(according to JIS) can be used.

ER NUT

DIN 6499/ISO 15488



SQ-ER (Standard : Hex.)

Unit : mm

MODEL NO.	Thread	Dia.	Length
SQ-ER11	M14 x 0.75	19.0	12.0
SQ-ER16	M22 x 1.50	28.0	18.0
SQ-ER20	M25 x 1.50	34.0	19.5



SQ-ER(Standard : Round)

Unit : mm

MODEL NO.	Thread	Dia.	Length
SQ-ER25	M32 x 1.50	42.0	20.5
SQ-ER32	M40 x 1.50	50.0	23.0
SQ-ER40	M50 x 1.50	63.0	26.0
SQ-ER50	M64 x 2.00	78.0	35.0



XSQ-R (Standard : Hex.)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ -R11	M14 x 0.75	19.0	12.0
XSQ -R16	M22 x 1.50	28.0	18.0
XSQ -R20	M25 x 1.50	34.0	19.5



XSQ-RU (Standard : Round)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-RU25	M32 x 1.50	42.0	20.5
XSQ-RU32	M40 x 1.50	50.0	23.0
XSQ-RU40	M50 x 1.50	63.0	26.0
XSQ-RU50	M64 x 2.00	78.0	35.0



XSQ-RH (Open Groove Type)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-RH11	M14 x 0.75	19.0	12.0
XSQ-RH16	M22 x 1.50	32.0	18.0
XSQ-RH20	M25 x 1.50	35.0	19.5
XSQ-RH25	M32 x 1.50	42.0	20.5
XSQ-RH32	M40 x 1.50	50.0	23.0
XSQ-RH40	M50 x 1.50	63.0	26.0

- Stock control item

ER NUT

ER Collet
Chuck



XSQ-RT (Sealing Disk Type : Hex.)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-RT16	M22 x 1.50	28.0	22.5
XSQ-RT20	M25 x 1.50	34.0	24.0



XSQ-RUT (Sealing Disk Type : Round)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-RUT16	M22 x 1.50	32.0	22.5
XSQ-RUT20	M25 x 1.50	35.0	24.0
XSQ-RUT25	M32 x 1.50	42.0	25.0
XSQ-RUT32	M40 x 1.50	50.0	27.5
XSQ-RUT40	M50 x 1.50	63.0	30.5



XSQ-RSU (Sleeve Bearing Type)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-RSU16	M22 x 1.50	32.0	18.0
XSQ-RSU20	M25 x 1.50	35.0	20.0
XSQ-RSU25	M32 x 1.50	42.0	20.5
XSQ-RSU32	M40 x 1.50	50.0	23.0
XSQ-RSU40	M50 x 1.50	63.0	26.0



XSQ-RST (Sleeve Bearing/Sealing Disk Type: Hex.)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-RST16	M22 x 1.50	28.0	22.5
XSQ-RST20	M25 x 1.50	34.0	24.5



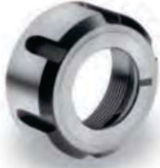
XSQ-RSUT (Sleeve Bearing/Sealing Disk Type: Round)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-RSUT16	M22 x 1.50	32.0	22.5
XSQ-RSUT20	M25 x 1.50	35.0	24.5
XSQ-RSUT25	M32 x 1.50	42.0	25.0
XSQ-RSUT32	M40 x 1.50	50.0	27.5
XSQ-RSUT40	M50 x 1.50	63.0	30.5

• Stock control item

ER NUT



XSQ-RKU (Ball Bearing Type)

Unit : mm

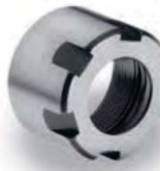
MODEL NO.	Thread	Dia.	Length
XSQ-RKU16	M22 x 1.50	32.0	18.0
XSQ-RKU20	M25 x 1.50	35.0	20.0
XSQ-RKU25	M32 x 1.50	42.0	21.5
XSQ-RKU32	M40 x 1.50	50.0	23.0
XSQ-RKU40	M50 x 1.50	63.0	26.0



XSQ-RKUT (Ball Bearing/Sealing Disk Type)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XQ-RKUT16	M22 x 1.50	32.0	22.5
XQ-RKUT20	M25 x 1.50	35.0	24.5
XQ-RKUT25	M32 x 1.50	42.0	25.0
XQ-RKUT32	M40 x 1.50	50.0	27.5
XQ-RKUT40	M50 x 1.50	63.0	30.5



XSQ-RM (Mini Nut : Standard)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-R08M	M10 x 0.75	12.0	11.0
XSQ-R11M	M13 x 0.75	16.0	12.0
XSQ-R16M	M19 x 1.00	22.0	18.0
XSQ-R20M	M24 x 1.00	28.0	19.5
XSQ-R25M	M30 x 1.00	35.0	20.5



XSQ-RTM (Mini Nut : Sealing Disk Type)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-RT16M	M19 x 1.00	22.0	22.5
XSQ-RT20M	M24 x 1.00	28.0	24.0
XSQ-RT25M	M30 x 1.00	35.0	25.0

- Stock control item

ER NUT & SEALING DISK

XSQ-RA (External Thread Type)

Unit : mm



MODEL NO.	Thread	Dia.	Length
XSQ-RA11	M18 x 1.00	18.0	6.0
XSQ-RA16	M24 x 1.00	24.0	8.0
XSQ-RA20	M28 x 1.50	28.0	11.0
XSQ-RA25	M32 x 1.50	32.0	12.5
XSQ-RA32	M40 x 1.50	40.0	14.0

XSQ-RAT (External Thread/ Sealing Disk Type)

Unit : mm



MODEL NO.	Thread	Dia.	Length
XSQ-RA11S*	M18 x 1.00	18.0	8.0
XSQ-RAT16	M24 x 1.00	24.0	11.0
XSQ-RAT20	M28 x 1.50	28.0	12.5
XSQ-RAT25	M32 x 1.50	32.0	14.0
XSQ-RAT32	M40 x 1.50	40.0	17.5

* Without sealing disk

SEALING DISK

Unit : mm



MODEL NO.	Dia.	Thickness
DS16	13.0	4.0
DS20	16.0	4.0
DS25	21.0	4.0
DS32	27.0	4.0
DS40	33.5	4.0
DS50	31.0	4.0

• Stock control item

SEALING DISK SET

Unit : mm



MODEL NO.	Dia.	Thickness	Sealing disks/set
DS16S2	13.0	4.0	7pcs/set
DS20S2	16.0	4.0	10pcs/set
DS25S2	21.0	4.0	13pcs/set
DS32S2	27.0	4.0	17pcs/set
DS40S2	33.5	4.0	23pcs/set
DS50S2	31.0	4.0	22pcs/set

ER SPANNER / WRENCH



FIG. 1



FIG. 2

FOR ER/SKN NUT

Unit : mm

MODEL NO.	A	B	APPLICABLE NUT
ER11 SP	-	-	ER11, SKN6 (FIG 1.)
ER16 SP	50	160	ER16, SKN10 (FIG 1.)
ER20 SP	55	180	ER20 (FIG 1.)
ER25 SP	65	210	ER25, SKN16 (FIG 2.)
ER32 SP	75	250	ER32 (FIG 2.)
ER40 SP	90	290	ER40 (FIG 2.)
ER50 SP	110	350	ER50 (FIG 2.)

- Design and shape could be changed without prior notice.

FOR ER MINI NUT

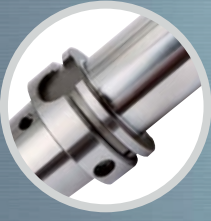
Unit : mm



- Stock Control Item

MODEL NO.	A	B	APPLICABLE NUT
GE 8M	12.4	70	ER 8M
GE 11M	16.8	90	ER 11M
GE 16M	22.5	110	ER 16M
GE 20M	29.0	120	ER 20M
GE 25M	36.0	130	ER 25M

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SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM • NC DRILL CHUCK • BORING SYSTEM



END MILL HOLDER & SIDE LOCK ARBOR

END MILL HOLDER

DIN 69871-SK

DIN 69893/ISO 12164-1-HSK

JIS B6339/MAS 403-BT

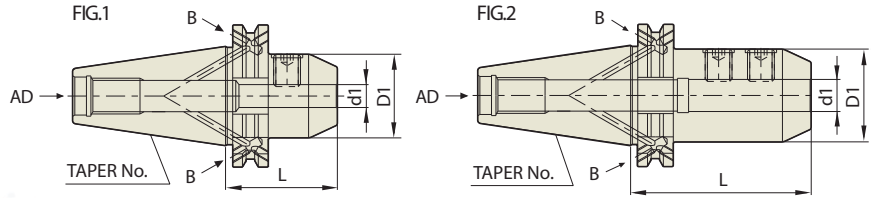
SIDE LOCK ARBOR

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT

END MILL HOLDER

End Mill Holder &
Side Lock Arbor



DIN 69871-SK

DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD/B
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STUB

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	FIG.	Weight (kg)	Stock
40	SK40AD/B-EMH16-35	16	44	35	1	0.86	
	SK40AD/B-EMH20-35	20	44	35	1	0.91	
	SK40AD/B-EMH25-60	25	50	60	1	0.97	

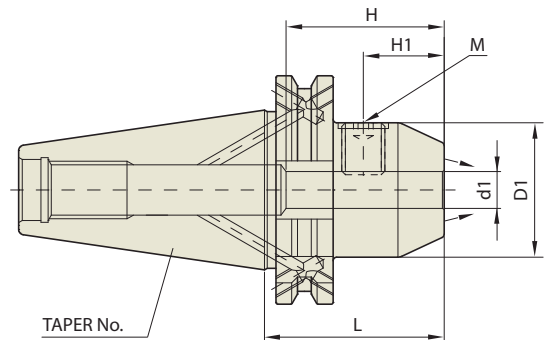
STANDARD

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	FIG.	Weight (kg)	Stock
30	SK30AD/B-EMH6-50	6	25	50	1	0.73	
	SK30AD/B-EMH8-50	8	28	50	1	0.83	
	SK30AD/B-EMH10-50	10	35	50	1	0.90	
	SK30AD/B-EMH12-50	12	42	50	1	0.90	
	SK30AD/B-EMH16-63	16	48	63	1	1.10	
40	SK40AD/B-EMH6-50	6	25	50	1	0.86	
	SK40AD/B-EMH8-50	8	28	50	1	0.89	
	SK40AD/B-EMH10-50	10	35	50	1	0.95	
	SK40AD/B-EMH12-50	12	42	50	1	1.03	
	SK40AD/B-EMH16-63	16	48	63	1	1.26	
	SK40AD/B-EMH20-63	20	52	63	1	1.28	
	SK40AD/B-EMH25-100	25	65	100	2	2.28	
	SK40AD/B-EMH32-100	32	72	100	2	2.50	
50	SK50AD/B-EMH6-63	6	25	63	1	2.70	
	SK50AD/B-EMH8-63	8	28	63	1	2.70	
	SK50AD/B-EMH10-63	10	35	63	1	2.90	
	SK50AD/B-EMH12-63	12	42	63	1	2.90	
	SK50AD/B-EMH16-63	16	48	63	1	3.00	
	SK50AD/B-EMH20-63	20	52	63	1	3.05	
	SK50AD/B-EMH25-80	25	65	80	2	3.73	
	SK50AD/B-EMH32-100	32	72	100	2	4.53	
	SK50AD/B-EMH40-100	40	80	100	2	4.77	
	SK50AD/B-EMH50-100	50	98	120	2	7.03	

- CAT(ANSI B5.50) taper and Inch type products are available.

END MILL HOLDER (SPRAY NOZZLE TYPE)



DIN 69871
- SK

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant
System
AD/B + C

End Mill Holder &
Side Lock Arbor

DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	H1	M	Weight (kg)	Stock
40	SK40AD/B-EMH6C-50	6	25	50	35	18	M6	0.86	
	SK40AD/B-EMH8C-50	8	28	50	35	18	M8	0.89	
	SK40AD/B-EMH10C-50	10	35	50	35.5	20	M10	0.95	
	SK40AD/B-EMH12C-50	12	42	50	36	22.5	M12	1.03	
	SK40AD/B-EMH14C-50	14	44	50	36	22.5	M12	1.26	
	SK40AD/B-EMH16C-63	16	48	63	46	24	M14	1.28	
	SK40AD/B-EMH18C-63	18	50	63	46	24	M14	1.35	
	SK40AD/B-EMH20C-63	20	52	63	48	25	M16	1.40	
	SK40AD/B-EMH25C-100	25	65	100	55	25	M18	2.29	
	SK40AD/B-EMH32C-100	32	72	100	57	28	M20	2.50	
50	SK50AD/B-EMH6C-63	6	25	63	35	18	M6	2.70	
	SK50AD/B-EMH8C-63	8	28	63	35	18	M8	2.70	
	SK50AD/B-EMH10C-63	10	35	63	35.5	20	M10	2.90	
	SK50AD/B-EMH12C-63	12	42	63	36	22.5	M12	2.90	
	SK50AD/B-EMH14C-63	14	44	63	36	22.5	M12	3.00	
	SK50AD/B-EMH16C-63	16	48	63	46	24	M14	3.00	
	SK50AD/B-EMH18C-63	18	50	63	46	24	M14	3.00	
	SK50AD/B-EMH20C-63	20	52	63	48	25	M16	3.05	
	SK50AD/B-EMH25C-80	25	65	80	55	25	M18	3.73	
	SK50AD/B-EMH32C-100	32	72	100	57	28	M20	4.53	
	SK50AD/B-EMH40C-120	40	90	120	68	32	M20	4.80	

- CAT(ANSI B5.50) taper and Inch type products are available.

END MILL HOLDER

End Mill Holder &
Side Lock Arbor



FIG.1

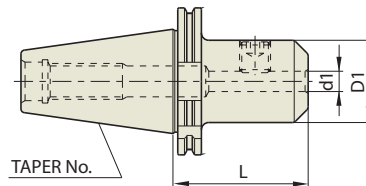
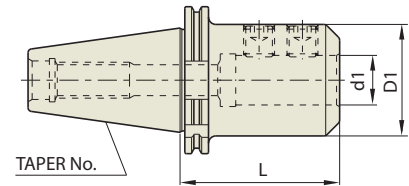


FIG.2



DIN 69871-SK

DIN 69871
- SK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

■ STUB

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	FIG.	Weight (kg)	Stock
40	SK40-EMH16-35	16	44	35	1	0.86	
	SK40-EMH20-35	20	44	35	1	0.91	
	SK40-EMH25-60	25	50	60	1	0.97	

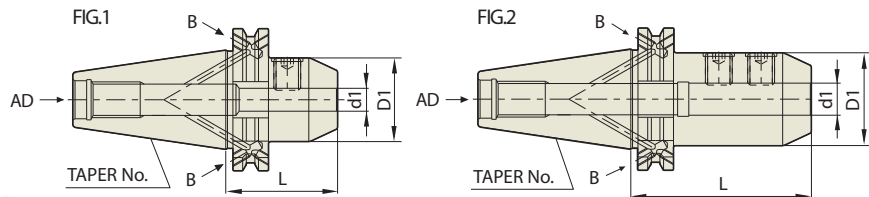
■ STANDARD

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	FIG.	Weight (kg)	Stock
30	SK30-EMH6-50	6	25	50	1	0.73	
	SK30-EMH8-50	8	28	50	1	0.83	
	SK30-EMH10-50	10	35	50	1	0.90	
	SK30-EMH12-50	12	42	50	1	0.90	
	SK30-EMH16-63	16	48	63	1	1.10	
40	SK40-EMH6-50	6	25	50	1	0.86	●
	SK40-EMH8-50	8	28	50	1	0.89	●
	SK40-EMH10-50	10	35	50	1	0.95	●
	SK40-EMH12-50	12	42	50	1	1.03	●
	SK40-EMH16-63	16	48	63	1	1.26	●
	SK40-EMH20-63	20	52	63	1	1.28	●
	SK40-EMH25-100	25	65	100	2	2.28	●
	SK40-EMH32-100	32	72	100	2	2.50	
50	SK50-EMH6-63	6	25	63	1	2.70	●
	SK50-EMH8-63	8	28	63	1	2.70	●
	SK50-EMH10-63	10	35	63	1	2.90	●
	SK50-EMH12-63	12	42	63	1	2.90	●
	SK50-EMH16-63	16	48	63	1	3.00	●
	SK50-EMH20-63	20	52	63	1	3.05	●
	SK50-EMH25-80	25	65	80	2	3.73	●
	SK50-EMH32-100	32	72	100	2	4.53	●
	SK50-EMH40-100	40	80	100	2	4.77	
	SK50-EMH50-100	50	98	120	2	7.03	

- CAT(ANSI B5.50) taper and Inch type products area available.

END MILL HOLDER



End Mill Holder &
Side Lock Arbor

DIN 69871 - SK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD/B
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DIN 69871-SK

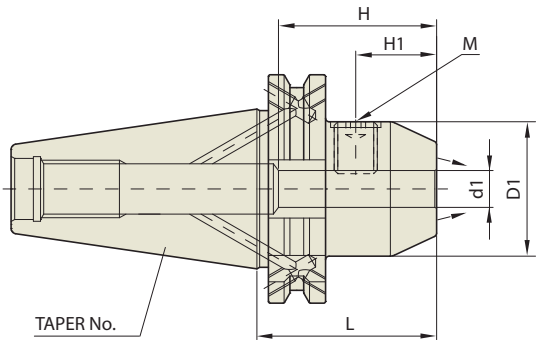
Unit : mm

TAPER No.	MODEL No.	d1	D1	L	FIG.	Weight (kg)	Stock
40	SK40AD/B-EMH6-50	6	25	50	1	0.86	●
	SK40AD/B-EMH8-50	8	28	50	1	0.89	●
	SK40AD/B-EMH10-50	10	35	50	1	0.95	●
	SK40AD/B-EMH12-50	12	42	50	1	1.03	●
	SK40AD/B-EMH16-63	16	48	63	1	1.26	●
	SK40AD/B-EMH20-63	20	52	63	1	1.28	●
	SK40AD/B-EMH25-100	25	65	100	2	2.29	●
	SK40AD/B-EMH32-100	32	72	100	2	2.50	●
50	SK50AD/B-EMH6-63	6	25	63	1	2.70	●
	SK50AD/B-EMH8-63	8	28	63	1	2.70	●
	SK50AD/B-EMH10-63	10	35	63	1	2.90	●
	SK50AD/B-EMH12-63	12	42	63	1	2.90	●
	SK50AD/B-EMH16-63	16	48	63	1	3.00	●
	SK50AD/B-EMH20-63	20	52	63	1	3.05	●
	SK50AD/B-EMH25-80	25	65	80	1	3.73	●
	SK50AD/B-EMH32-100	32	72	100	1	4.53	●
	SK50AD/B-EMH40-100	40	80	100	1	4.77	
	SK50AD/B-EMH50-125	50	98	125	1	7.03	

- CAT(ANSI B5.50) taper and Inch type products are available.

END MILL HOLDER (SPRAY NOZZLE TYPE)

End Mill Holder & Side Lock Arbor



DIN 69871 - SK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD/B+C
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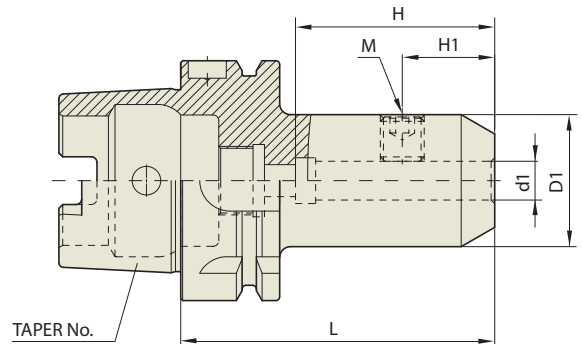
DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	H1	M	Weight (kg)	Stock
40	SK40AD/B-EMH6C-50	6	25	50	35	18	M6	0.86	
	SK40AD/B-EMH8C-50	8	28	50	35	18	M8	0.89	
	SK40AD/B-EMH10C-50	10	35	50	35.5	20	M10	0.95	
	SK40AD/B-EMH12C-50	12	42	50	36	22.5	M12	1.03	
	SK40AD/B-EMH14C-50	14	44	50	36	22.5	M12	1.26	
	SK40AD/B-EMH16C-63	16	48	63	46	24	M14	1.28	
	SK40AD/B-EMH18C-63	18	50	63	46	24	M14	1.35	
	SK40AD/B-EMH20C-63	20	52	63	48	25	M16	1.40	
	SK40AD/B-EMH25C-100	25	65	100	55	25	M18	2.29	
	SK40AD/B-EMH32C-100	32	72	100	57	28	M20	2.50	
50	SK50AD/B-EMH6C-63	6	25	63	35	18	M6	2.70	
	SK50AD/B-EMH8C-63	8	28	63	35	18	M8	2.70	
	SK50AD/B-EMH10C-63	10	35	63	35.5	20	M10	2.90	
	SK50AD/B-EMH12C-63	12	42	63	36	22.5	M12	2.90	
	SK50AD/B-EMH14C-63	14	44	63	36	22.5	M12	3.00	
	SK50AD/B-EMH16C-63	16	48	63	46	24	M14	3.00	
	SK50AD/B-EMH18C-63	18	50	63	46	24	M14	3.00	
	SK50AD/B-EMH20C-63	20	52	63	48	25	M16	3.05	
	SK50AD/B-EMH25C-80	25	65	80	55	25	M18	3.73	
	SK50AD/B-EMH32C-100	32	72	100	57	28	M20	4.53	
	SK50AD/B-EMH40C-120	40	90	120	68	32	M20	4.80	

- CAT(ANSI B5.50) taper and Inch type products are available.

END MILL HOLDER



End Mill Holder &
Side Lock Arbor

DIN 69893 - HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Coolant System AD
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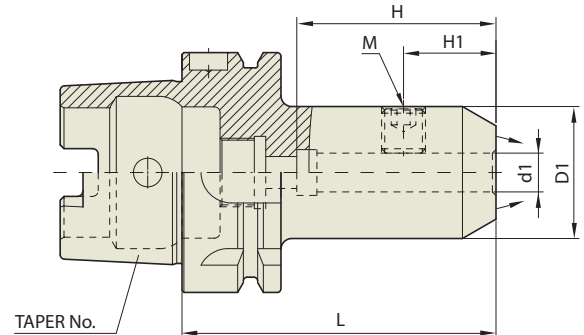
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	H1	M	Weight (kg)	Stock
40A	HSK40A-EMH6-60	6	25	60	35	18	M6	0.30	
	HSK40A-EMH8-60	8	28	60	35	18	M8	0.30	
	HSK40A-EMH10-60	10	35	60	35.5	20	M10	0.30	
	HSK40A-EMH12-70	12	42	70	36	22.5	M12	0.40	
	HSK40A-EMH14-70	14	44	70	36	22.5	M12	0.40	
	HSK40A-EMH16-80	16	48	80	46	24	M14	0.60	
50A	HSK50A-EMH6-65	6	25	65	35	18	M6	0.70	
	HSK50A-EMH8-65	8	28	65	35	18	M8	0.80	
	HSK50A-EMH10-65	10	35	65	35.5	20	M10	0.80	
	HSK50A-EMH12-80	12	42	80	36	22.5	M12	1.20	
	HSK50A-EMH14-80	14	44	80	36	22.5	M12	1.30	
	HSK50A-EMH16-80	16	48	80	46	24	M14	1.30	
	HSK50A-EMH18-80	18	50	80	46	24	M14	1.40	
	HSK50A-EMH20-80	20	52	80	48	25	M16	1.50	
63A	HSK63A-EMH6-65	6	25	65	35	18	M6	0.80	
	HSK63A-EMH8-65	8	28	65	35	18	M8	0.80	
	HSK63A-EMH10-65	10	35	65	35.5	20	M10	0.90	
	HSK63A-EMH12-80	12	42	80	36	22.5	M12	1.10	
	HSK63A-EMH14-80	14	44	80	36	22.5	M12	1.20	
	HSK63A-EMH16-80	16	48	80	46	24	M14	1.30	
	HSK63A-EMH18-80	18	50	80	46	24	M14	1.40	
	HSK63A-EMH20-80	20	52	80	48	25	M16	1.50	
	HSK63A-EMH25-110	25	65	110	55	25	M18	2.30	
	HSK63A-EMH32-110	32	72	110	57	28	M20	2.60	
100A	HSK100A-EMH6-80	6	25	80	35	18	M6	2.15	
	HSK100A-EMH8-80	8	28	80	35	18	M8	2.20	
	HSK100A-EMH10-80	10	35	80	35.5	20	M10	2.35	
	HSK100A-EMH12-80	12	42	80	36	22.5	M12	2.45	
	HSK100A-EMH14-80	14	44	80	36	22.5	M12	2.65	
	HSK100A-EMH16-100	16	48	100	46	24	M14	2.85	
	HSK100A-EMH18-100	18	50	100	46	24	M14	2.90	
	HSK100A-EMH20-100	20	52	100	48	25	M16	2.95	
	HSK100A-EMH25-100	25	65	100	55	25	M18	3.45	
	HSK100A-EMH32-100	32	72	100	57	28	M20	3.65	
	HSK100A-EMH40-120	40	90	120	68	32	M20	5.50	

END MILL HOLDER (SPRAY NOZZLE TYPE)

End Mill Holder & Side Lock Arbor



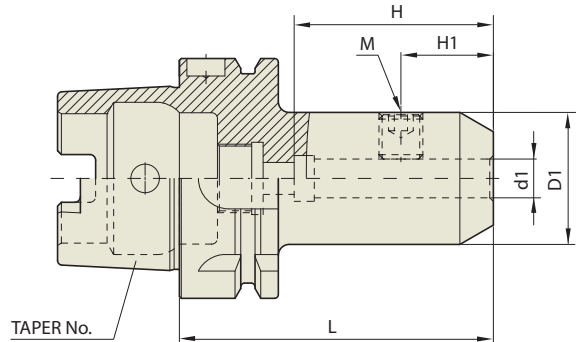
DIN 69893 - HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Coolant System AD+C
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	H1	M	Weight (kg)	Stock
40A	HSK40A-EMH6C-60	6	25	60	35	18	M6	0.30	
	HSK40A-EMH8C-60	8	28	60	35	18	M8	0.30	
	HSK40A-EMH10C-60	10	35	60	35.5	20	M10	0.30	
	HSK40A-EMH12C-70	12	42	70	36	22.5	M12	0.40	
	HSK40A-EMH14C-70	14	44	70	36	22.5	M12	0.40	
	HSK40A-EMH16C-80	16	48	80	46	24	M14	0.60	
50A	HSK50A-EMH6C-65	6	25	65	35	18	M6	0.70	
	HSK50A-EMH8C-65	8	28	65	35	18	M8	0.80	
	HSK50A-EMH10C-65	10	35	65	35.5	20	M10	0.80	
	HSK50A-EMH12C-80	12	42	80	36	22.5	M12	1.20	
	HSK50A-EMH14C-80	14	44	80	36	22.5	M12	1.30	
	HSK50A-EMH16C-80	16	48	80	46	24	M14	1.30	
	HSK50A-EMH18C-80	18	50	80	46	24	M14	1.40	
	HSK50A-EMH20C-80	20	52	80	48	25	M16	1.50	
63A	HSK63A-EMH6C-65	6	25	65	35	18	M6	0.80	
	HSK63A-EMH8C-65	8	28	65	35	18	M8	0.80	
	HSK63A-EMH10C-65	10	35	65	35.5	20	M10	0.90	
	HSK63A-EMH12C-80	12	42	80	36	22.5	M12	1.10	
	HSK63A-EMH14C-80	14	44	80	36	22.5	M12	1.20	
	HSK63A-EMH16C-80	16	48	80	46	24	M14	1.30	
	HSK63A-EMH18C-80	18	50	80	46	24	M14	1.40	
	HSK63A-EMH20C-80	20	52	80	48	25	M16	1.50	
	HSK63A-EMH25C-110	25	65	110	55	25	M18	2.30	
	HSK63A-EMH32C-110	32	72	110	57	28	M20	2.60	
100A	HSK100A-EMH6C-80	6	25	80	35	18	M6	2.15	
	HSK100A-EMH8C-80	8	28	80	35	18	M8	2.20	
	HSK100A-EMH10C-80	10	35	80	35.5	20	M10	2.35	
	HSK100A-EMH12C-80	12	42	80	36	22.5	M12	2.45	
	HSK100A-EMH14C-80	14	44	80	36	22.5	M12	2.65	
	HSK100A-EMH16C-100	16	48	100	46	24	M14	2.85	
	HSK100A-EMH18C-100	18	50	100	46	24	M14	2.90	
	HSK100A-EMH20C-100	20	52	100	48	25	M16	2.95	
	HSK100A-EMH25C-100	25	65	100	55	25	M18	3.45	
	HSK100A-EMH32C-100	32	72	100	57	28	M20	3.65	
	HSK100A-EMH40C-120	40	90	120	68	32	M20	5.50	

END MILL HOLDER



End Mill Holder &
Side Lock Arbor

DIN 69893 - HSK	Taper Accuracy	G Value 6.3	RPM 15,000	Coolant System AD
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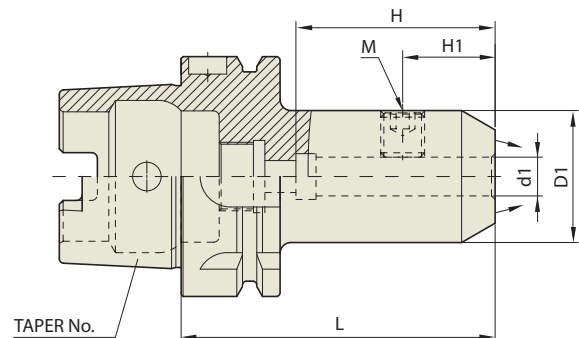
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	H1	M	Weight (kg)	Stock
40A	HSK40A-EMH6-60	6	25	60	35	18	M6	0.30	
	HSK40A-EMH8-60	8	28	60	35	18	M8	0.30	
	HSK40A-EMH10-60	10	35	60	35.5	20	M10	0.30	
	HSK40A-EMH12-70	12	42	70	36	22.5	M12	0.40	
	HSK40A-EMH14-70	14	44	70	36	22.5	M12	0.40	
	HSK40A-EMH16-80	16	48	80	46	24	M14	0.60	
50A	HSK50A-EMH6-65	6	25	65	35	18	M6	0.70	
	HSK50A-EMH8-65	8	28	65	35	18	M8	0.80	
	HSK50A-EMH10-65	10	35	65	35.5	20	M10	0.80	
	HSK50A-EMH12-80	12	42	80	36	22.5	M12	1.20	
	HSK50A-EMH14-80	14	44	80	36	22.5	M12	1.30	
	HSK50A-EMH16-80	16	48	80	46	24	M14	1.30	
	HSK50A-EMH18-80	18	50	80	46	24	M14	1.40	
63A	HSK63A-EMH20-80	20	52	80	48	25	M16	1.50	
	HSK63A-EMH6-65	6	25	65	35	18	M6	0.80	●
	HSK63A-EMH8-65	8	28	65	35	18	M8	0.80	●
	HSK63A-EMH10-65	10	35	65	35.5	20	M10	0.90	●
	HSK63A-EMH12-80	12	42	80	36	22.5	M12	1.10	●
	HSK63A-EMH14-80	14	44	80	36	22.5	M12	1.20	●
	HSK63A-EMH16-80	16	48	80	46	24	M14	1.30	●
	HSK63A-EMH18-80	18	50	80	46	24	M14	1.40	●
	HSK63A-EMH20-80	20	52	80	48	25	M16	1.50	●
	HSK63A-EMH25-110	25	65	110	55	25	M18	2.30	●
100A	HSK63A-EMH32-110	32	72	110	57	28	M20	2.60	●
	HSK100A-EMH6-80	6	25	80	35	18	M6	2.15	
	HSK100A-EMH8-80	8	28	80	35	18	M8	2.20	
	HSK100A-EMH10-80	10	35	80	35.5	20	M10	2.35	
	HSK100A-EMH12-80	12	42	80	36	22.5	M12	2.45	
	HSK100A-EMH14-80	14	44	80	36	22.5	M12	2.65	
	HSK100A-EMH16-100	16	48	100	46	24	M14	2.85	
	HSK100A-EMH18-100	18	50	100	46	24	M14	2.90	
	HSK100A-EMH20-100	20	52	100	48	25	M16	2.95	
	HSK100A-EMH25-100	25	65	100	55	25	M18	3.45	
	HSK100A-EMH32-100	32	72	100	57	28	M20	3.65	
	HSK100A-EMH40-120	40	90	120	68	32	M20	5.50	

END MILL HOLDER (SPRAY NOZZLE TYPE)

End Mill Holder &
Side Lock Arbor



DIN 69893 - HSK	Taper Accuracy	G Value	RPM	Coolant System
		6.3	15,000	AD+C

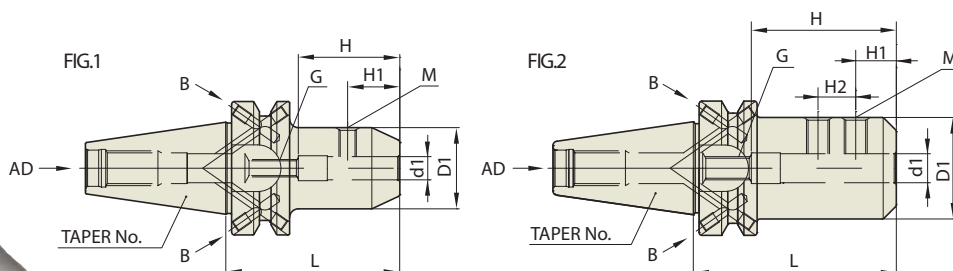
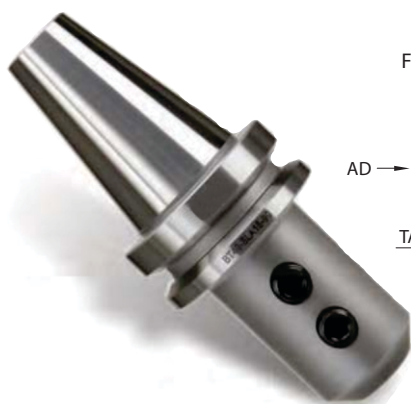
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	H1	M	Weight (kg)	Stock
40A	HSK40A-EMH6C-60	6	25	60	35	18	M6	0.30	
	HSK40A-EMH8C-60	8	28	60	35	18	M8	0.30	
	HSK40A-EMH10C-60	10	35	60	35.5	20	M10	0.30	
	HSK40A-EMH12C-70	12	42	70	36	22.5	M12	0.40	
	HSK40A-EMH14C-70	14	44	70	36	22.5	M12	0.40	
	HSK40A-EMH16C-80	16	48	80	46	24	M14	0.60	
50A	HSK50A-EMH6C-65	6	25	65	35	18	M6	0.70	
	HSK50A-EMH8C-65	8	28	65	35	18	M8	0.80	
	HSK50A-EMH10C-65	10	35	65	35.5	20	M10	0.80	
	HSK50A-EMH12C-80	12	42	80	36	22.5	M12	1.20	
	HSK50A-EMH14C-80	14	44	80	36	22.5	M12	1.30	
	HSK50A-EMH16C-80	16	48	80	46	24	M14	1.30	
	HSK50A-EMH18C-80	18	50	80	46	24	M14	1.40	
63A	HSK63A-EMH20C-80	20	52	80	48	25	M16	1.50	
	HSK63A-EMH6C-65	6	25	65	35	18	M6	0.80	
	HSK63A-EMH8C-65	8	28	65	35	18	M8	0.80	
	HSK63A-EMH10C-65	10	35	65	35.5	20	M10	0.90	
	HSK63A-EMH12C-80	12	42	80	36	22.5	M12	1.10	
	HSK63A-EMH14C-80	14	44	80	36	22.5	M12	1.20	
	HSK63A-EMH16C-80	16	48	80	46	24	M14	1.30	
	HSK63A-EMH18C-80	18	50	80	46	24	M14	1.40	
	HSK63A-EMH20C-80	20	52	80	48	25	M16	1.50	
100A	HSK63A-EMH25C-110	25	65	110	55	25	M18	2.30	
	HSK63A-EMH32C-110	32	72	110	57	28	M20	2.60	
	HSK100A-EMH6C-80	6	25	80	35	18	M6	2.15	
	HSK100A-EMH8C-80	8	28	80	35	18	M8	2.20	
	HSK100A-EMH10C-80	10	35	80	35.5	20	M10	2.35	
	HSK100A-EMH12C-80	12	42	80	36	22.5	M12	2.45	
	HSK100A-EMH14C-80	14	44	80	36	22.5	M12	2.65	
	HSK100A-EMH16C-100	16	48	100	46	24	M14	2.85	
	HSK100A-EMH18C-100	18	50	100	46	24	M14	2.90	
	HSK100A-EMH20C-100	20	52	100	48	25	M16	2.95	
	HSK100A-EMH25C-100	25	65	100	55	25	M18	3.45	
	HSK100A-EMH32C-100	32	72	100	57	28	M20	3.65	
	HSK100A-EMH40C-120	40	90	120	68	32	M20	5.50	

SIDE LOCK ARBOR

End Mill Holder &
Side Lock Arbor



JIS B6339 - BT	Taper Accuracy At3	G Value 2.5	RPM 25,000	Coolant System AD/B
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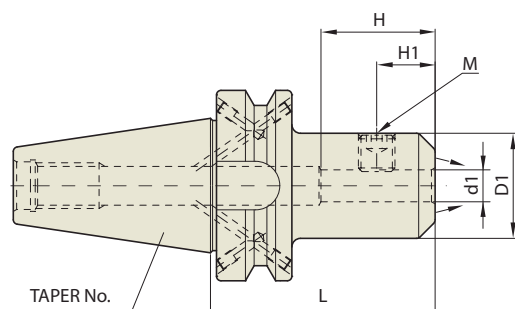
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	L	D1	H		H1	H2	M	G	Weight (kg)	Stock
					MIN	MAX						
30	BT30AD/B-SLA6-60	6	60	25	20	35	18	—	M5	M5	0.7	
	BT30AD/B-SLA8-60	8	60	28	20	35	18	—	M6	M6	0.8	
	BT30AD/B-SLA10-60	10	60	35	35	50	14	13	M8	M8	0.9	
	BT30AD/B-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.1	
	BT30AD/B-SLA14-60	14	60	40	35	50	14	13	M10	M10	1.2	
	BT30AD/B-SLA16-75	16	75	40	55	70	25	20	M12	M12	1.3	
	BT30AD/B-SLA20-75	20	75	50	55	70	25	20	M12	M12	1.4	
	BT30AD/B-SLA25-75	25	75	50	55	70	25	20	M14	M12	1.5	
	BT30AD/B-SLA32-105	32	105	60	65	80	30	20	M16	M12	1.6	
40	BT40AD/B-SLA 6-60	6	60	25	20	35	18	—	M5	M5	1.1	
	BT40AD/B-SLA 8-60	8	60	28	20	35	18	—	M6	M6	1.1	
	BT40AD/B-SLA10-60	10	60	35	35	50	14	13	M8	M8	1.2	
	BT40AD/B-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.4	
	BT40AD/B-SLA16-90	16	90	40	55	70	25	20	M12	M12	1.5	
	BT40AD/B-SLA20-90	20	90	50	55	70	25	20	M12	M12	1.8	
	BT40AD/B-SLA25-90	25	90	50	55	70	25	20	M14	M12	1.7	
	BT40AD/B-SLA32-90	32	90	60	65	80	30	20	M16	M12	1.9	
	BT40AD/B-SLA40-90	40	90	70	65	80	30	20	M16	M12	1.8	
50	BT50AD/B-SLA 6-90	6	90	25	25	40	18	—	M5	M5	3.7	
	BT50AD/B-SLA 8-90	8	90	28	25	40	18	—	M6	M6	3.9	
	BT50AD/B-SLA10-90	10	90	35	35	50	15	15	M8	M8	4.1	
	BT50AD/B-SLA12-90	12	90	40	40	55	15	15	M10	M10	4.3	
	BT50AD/B-SLA14-90	14	90	40	40	55	15	15	M10	M10	4.3	
	BT50AD/B-SLA16-105	16	105	40	55	70	25	20	M12	M12	4.4	
	BT50AD/B-SLA20-105	20	105	50	55	70	25	20	M12	M12	4.8	
	BT50AD/B-SLA25-105	25	105	50	55	70	25	20	M14	M12	4.7	
	BT50AD/B-SLA32-105	32	105	60	65	80	25	25	M16	M12	4.0	
	BT50AD/B-SLA40-105	40	105	70	65	80	25	25	M16	M12	4.5	
	BT50AD/B-SLA42-105	42	105	70	65	80	25	25	M16	M12	4.7	
	BT50AD/B-SLA50.8-121	50.8	121	95	—	87	34	36	M20	—	5.0	

• CAT(ANSI B5.50) taper and Inch type products are available.

END MILL HOLDER (SPRAY NOZZLE TYPE)



End Mill Holder &
Side Lock Arbor

JIS B6339 - BT	Taper Accuracy At3	G Value 2.5	RPM 25,000	Coolant System AD/B+C
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JIS B6339/MAS 403-BT

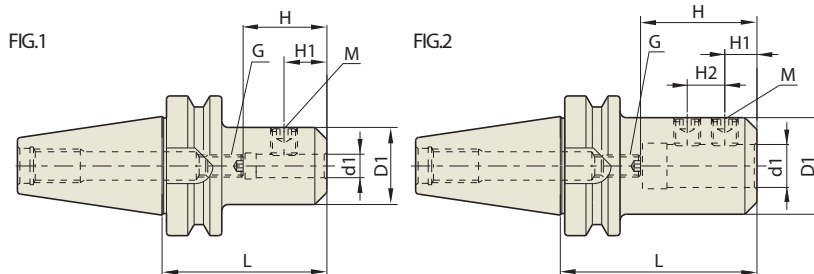
Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	H1	M	Weight (kg)	Stock
40	BT40AD/B-EMH6C-50	6	25	50	35	18	M6	1.00	
	BT40AD/B-EMH8C-50	8	28	50	35	18	M8	1.00	
	BT40AD/B-EMH10C-63	10	35	63	35.5	20	M10	1.10	
	BT40AD/B-EMH12C-63	12	42	63	36	22.5	M12	1.30	
	BT40AD/B-EMH14C-63	14	44	63	36	22.5	M12	1.40	
	BT40AD/B-EMH16C-63	16	48	63	46	24	M14	1.70	
	BT40AD/B-EMH18C-63	18	50	63	46	24	M14	1.70	
	BT40AD/B-EMH20C-63	20	52	63	48	25	M16	1.80	
	BT40AD/B-EMH25C-90	25	65	90	55	25	M18	1.80	
	BT40AD/B-EMH32C-100	32	72	100	57	28	M20	2.00	
50	BT50AD/B-EMH6C-63	6	25	63	35	18	M6	3.30	
	BT50AD/B-EMH8C-63	8	28	63	35	18	M8	3.60	
	BT50AD/B-EMH10C-65	10	35	65	35.5	20	M10	3.80	
	BT50AD/B-EMH12C-80	12	42	80	36	22.5	M12	3.80	
	BT50AD/B-EMH14C-80	14	44	80	36	22.5	M12	4.00	
	BT50AD/B-EMH16C-80	16	48	80	46	24	M14	4.00	
	BT50AD/B-EMH18C-80	18	50	80	46	24	M14	4.20	
	BT50AD/B-EMH20C-80	20	52	80	48	25	M16	4.20	
	BT50AD/B-EMH25C-100	25	65	100	55	25	M18	4.60	
	BT50AD/B-EMH32C-105	32	72	105	57	28	M20	4.70	
	BT50AD/B-EMH40C-120	40	90	120	68	32	M20	4.90	

- CAT(ANSI B5.50) taper and Inch type products are available.

SIDE LOCK ARBOR

End Mill Holder &
Side Lock Arbor



JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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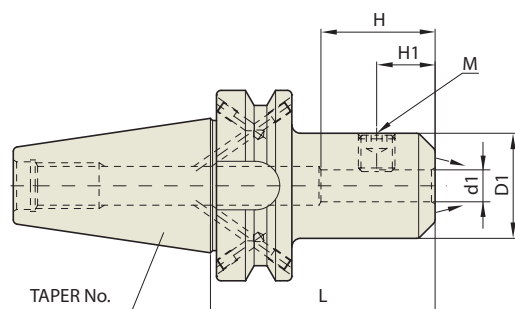
JIS B6339/MAS 403-BT

Unit: mm

TAPER No.	MODEL No.	d1	L	D1	H		H1	H2	M	G	Weight (kg)	Stock
					MIN	MAX						
30	BT30-SLA 6-60	6	60	25	20	35	18	—	M5	M5	0.7	
	BT30-SLA 8-60	8	60	28	20	35	18	—	M6	M6	0.8	
	BT30-SLA10-60	10	60	35	35	50	14	13	M8	M8	0.9	
	BT30-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.1	
	BT30-SLA14-60	14	60	40	35	50	14	13	M10	M10	1.2	
	BT30-SLA16-75	16	75	40	55	70	25	20	M12	M12	1.3	●
	BT30-SLA20-75	20	75	50	55	70	25	20	M12	M12	1.4	●
	BT30-SLA25-75	25	75	50	55	70	25	20	M14	M12	1.5	●
40	BT30-SLA32-105	32	105	60	65	80	30	20	M16	M12	1.6	●
	BT40-SLA 6-60	6	60	25	20	35	18	—	M5	M5	1.1	
	BT40-SLA 8-60	8	60	28	20	35	18	—	M6	M6	1.1	
	BT40-SLA10-60	10	60	35	35	50	14	13	M8	M8	1.2	
	BT40-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.4	
	BT40-SLA16-90	16	90	40	55	70	25	20	M12	M12	1.5	●
	BT40-SLA20-90	20	90	50	55	70	25	20	M12	M12	1.8	●
	BT40-SLA25-90	25	90	50	55	70	25	20	M14	M12	1.7	●
	BT40-SLA32-90	32	90	60	65	80	30	20	M16	M12	1.9	●
	BT40-SLA40-90	40	90	70	65	80	30	20	M16	M12	1.8	●
50	BT40-SLA42-90	42	90	70	65	80	30	20	M16	M12	1.8	●
	BT50-SLA 6-90	6	90	25	25	40	18	—	M5	M5	3.7	
	BT50-SLA 8-90	8	90	28	25	40	18	—	M6	M6	3.9	
	BT50-SLA10-90	10	90	35	35	50	15	15	M8	M8	4.1	
	BT50-SLA12-90	12	90	40	40	55	15	15	M10	M10	4.3	
	BT50-SLA14-90	14	90	40	40	55	15	15	M10	M10	4.3	
	BT50-SLA16-105	16	105	40	55	70	25	20	M12	M12	4.4	●
	BT50-SLA20-105	20	105	50	55	70	25	20	M12	M12	4.8	●
	BT50-SLA25-105	25	105	50	55	70	25	20	M14	M12	4.7	●
	BT50-SLA32-105	32	105	60	65	80	25	25	M16	M12	4.0	●
	BT50-SLA40-105	40	105	70	65	80	25	25	M16	M12	4.5	●
	BT50-SLA42-105	42	105	70	65	80	25	25	M16	M12	4.7	●
	BT50-SLA50.8-121	50.8	121	95	—	87	34	36	M20	—	5.0	●

- CAT(ANSI B5.50) taper and Inch type products are available.

END MILL HOLDER (SPRAY NOZZLE TYPE)



End Mill Holder &
Side Lock Arbor

JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD/B+C
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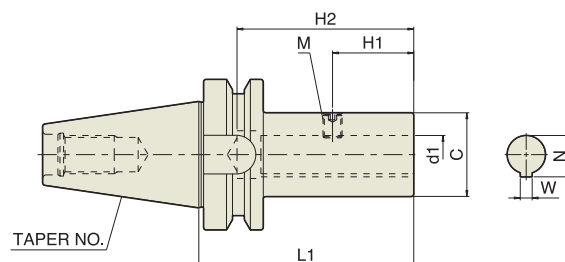
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	H1	M	Weight (kg)	Stock
40	BT40AD/B-EMH6C-50	6	25	50	35	18	M6	1.00	
	BT40AD/B-EMH8C-50	8	28	50	35	18	M8	1.00	
	BT40AD/B-EMH10C-63	10	35	63	35.5	20	M10	1.10	
	BT40AD/B-EMH12C-63	12	42	63	36	22.5	M12	1.30	
	BT40AD/B-EMH14C-63	14	44	63	36	22.5	M12	1.40	
	BT40AD/B-EMH16C-63	16	48	63	46	24	M14	1.70	
	BT40AD/B-EMH18C-63	18	50	63	46	24	M14	1.70	
	BT40AD/B-EMH20C-63	20	52	63	48	25	M16	1.80	
	BT40AD/B-EMH25C-90	25	65	90	55	25	M18	1.80	
	BT40AD/B-EMH32C-100	32	72	100	57	28	M20	2.00	
50	BT50AD/B-EMH6C-63	6	25	63	35	18	M6	3.30	
	BT50AD/B-EMH8C-63	8	28	63	35	18	M8	3.60	
	BT50AD/B-EMH10C-65	10	35	65	35.5	20	M10	3.80	
	BT50AD/B-EMH12C-80	12	42	80	36	22.5	M12	3.80	
	BT50AD/B-EMH14C-80	14	44	80	36	22.5	M12	4.00	
	BT50AD/B-EMH16C-80	16	48	80	46	24	M14	4.00	
	BT50AD/B-EMH18C-80	18	50	80	46	24	M14	4.20	
	BT50AD/B-EMH20C-80	20	52	80	48	25	M16	4.20	
	BT50AD/B-EMH25C-100	25	65	100	55	25	M18	4.60	
	BT50AD/B-EMH32C-105	32	72	105	57	28	M20	4.70	
	BT50AD/B-EMH40C-120	40	90	120	68	32	M20	4.90	

- CAT(ANSI B5.50) taper and Inch type products are available.

SIDE LOCK ARBOR



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

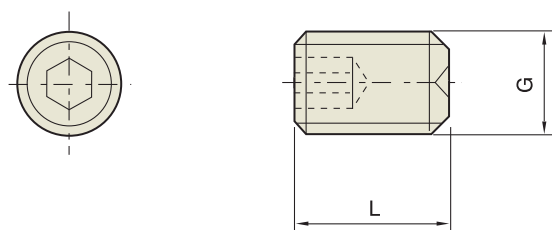
Coolant
System

JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	L1	H1	H2	M	W	N	Weight (kg)	Stock
40	BT40-SLB26-105	26	50	105	40	85	M10	5	28.2	1.3	
	BT40-SLB35-135	35	60	135	55	105	M10	6	37.6	2.2	
	BT40-SLB35T-135	35	60	135	55	105	M10	7	38.2	2.2	
50	BT50-SLB26-105	26	50	105	40	85	M10	5	28.2	4.4	
	BT50-SLB35-135	35	60	135	55	106	M10	6	37.6	4.7	
	BT50-SLB35T-135	35	60	135	55	106	M10	7	38.2	4.7	
	BT50-SLB48-165	48	80	165	65	129	M10	8	51.0	6.5	

SIDE LOCK SCREW for END MILL HOLDER & SIDE LOCK ARBOR



Unit : mm

SCREW	G	L	Applicable Holder & Arbor
M5×08 SL	M5×0.8	8	EMH & SLA6
M6×10 SL	M6×1.0	10	EMH & SLA8
M8×10 SL	M8×1.25	10	EMH & SLA10
M10×12 SL	M10×1.5	12	EMH & SLA12/14
M12×16 SL	M12×1.75	16	EMH & SLA16/20
M14×16 SL	M14×2.0	16	EMH & SLA25
M16×16 SL	M16×2.0	16	EMH & SLA32/40/42
M20×25 SL	M20×2.5	25	SLA50.8



SHELL MILLARBOR

DIN 69871-SK
DIN 69893/ISO 12164-1-HSK
CBT (BT DUAL CONTACT)
JIS B6339/MAS 403-BT

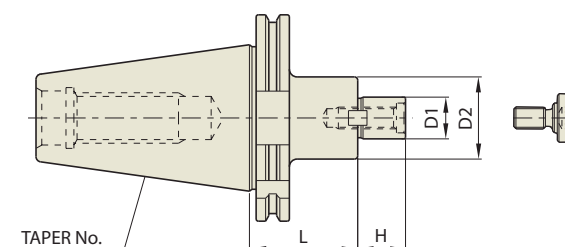
SIDE CUTTER ARBOR

JIS B6339/MAS 403-BT

COMBI SHELL MILL ARBOR

DIN 69871-SK
DIN 69893/ISO 12164-1-HSK
CBT (BT DUAL CONTACT)
JIS B6339/MAS 403-BT
DIN 2080-ISO

SHELL MILL ARBOR



DIN 69871
-SK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

DIN 69871-SK

• STANDARD

Unit : mm

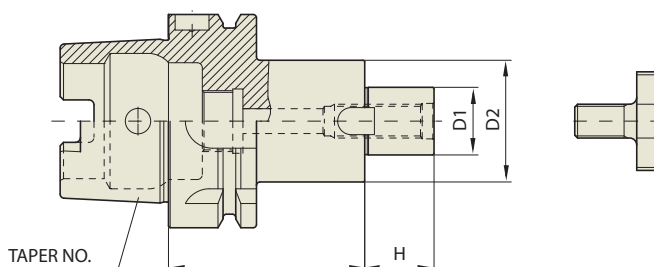
TAPER No.	MODEL No.	D1	D2	L	H	Weight (kg)	Stock
30	SK30-SMA16-50	16	32	50	17	0.85	
	SK30-SMA22-50	22	40	50	19	0.90	
	SK30-SMA27-50	27	48	50	21	1.03	
40	SK40-SMA16-60	16	32	60	17	0.35	
	SK40-SMA22-60	22	40	60	19	1.45	
	SK40-SMA27-60	27	48	60	21	1.70	
	SK40-SMA32-60	32	58	60	24	1.80	
	SK40-SMA40-60	40	70	60	27	3.10	
50	SK50-SMA16-75	16	32	75	17	2.80	
	SK50-SMA22-75	22	40	75	19	3.10	
	SK50-SMA27-75	27	48	75	21	3.40	
	SK50-SMA32-75	32	58	75	24	3.80	
	SK50-SMA40-75	40	70	75	27	4.50	
	SK50-SMA50-75	50	90	75	30	5.90	

• EXTENDED

TAPER No.	MODEL No.	D1	D2	L	H	Weight (kg)	Stock
40	SK40-SMA16-120	16	32	120	17	1.70	
	SK40-SMA22-120	22	40	120	19	1.80	
	SK40-SMA27-120	27	48	120	21	2.40	
	SK40-SMA32-120	32	58	120	24	3.70	
50	SK50-SMA16-120	16	32	120	17	3.90	
	SK50-SMA22-120	22	40	120	19	4.40	
	SK50-SMA27-120	27	48	120	21	4.70	
	SK50-SMA32-120	32	58	120	24	5.00	
	SK50-SMA40-120	40	70	120	27	6.05	

- CAT(ANSI B5.50) taper and Inch type products are available.

SHELL MILL ARBOR



DIN 69893 - HSK	Taper Accuracy	G Value 6.3	RPM 15,000	Coolant System AD
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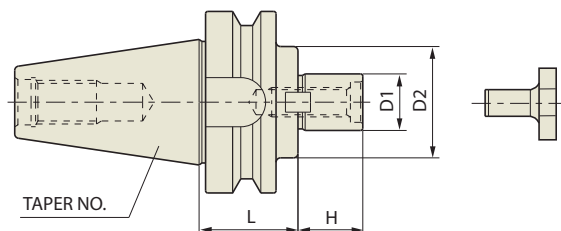
Shell Mill Arbor &
Combi Shell Mill
Arbor

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	D1	D2	L	H	Weight (kg)	Stock
40A	HSK40A-SMA16-50	16	32	50	17	0.40	
	HSK40A-SMA22-50	22	40	50	19	0.50	
	HSK40A-SMA27-60	27	48	60	21	0.60	
50A	HSK50A-SMA16-50	16	38	50	17	0.50	
	HSK50A-SMA22-60	22	48	60	19	0.57	
	HSK50A-SMA27-60	27	58	60	21	0.75	
	HSK50A-SMA32-60	32	63	60	24	0.90	
63A	HSK63A-SMA16-50	16	38	50	17	0.81	●
	HSK63A-SMA22-50	22	48	50	19	0.93	●
	HSK63A-SMA27-60	27	58	60	21	1.22	●
	HSK63A-SMA32-60	32	78	60	24	1.46	●
	HSK63A-SMA40-60	40	88	60	27	1.80	●
100A	HSK100A-SMA16-50	16	38	50	17	2.14	
	HSK100A-SMA22-50	22	48	50	19	2.25	
	HSK100A-SMA27-50	27	58	50	21	2.40	
	HSK100A-SMA32-50	32	78	50	24	2.60	
	HSK100A-SMA40-60	40	88	60	27	3.25	
	HSK100A-SMA50-70	50	129	70	30	5.40	

SHELL MILL ARBOR



JIS B6339/MAS 403-BT

JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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Shell Mill Arbor &
Comb Shell Mill
Arbor

• STANDARD

Unit : mm

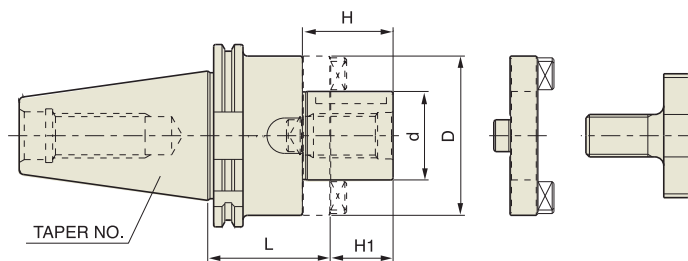
TAPER No.	MODEL No.	D1	D2	L	H	Weight (kg)	Stock
30	BT30 - SMA16 - 50	16	32	50	17		
	BT30 - SMA22 - 50	22	40	50	19		
	BT30 - SMA27 - 50	27	48	50	21		
40	BT40 - SMA16 - 60	16	32	60	17		•
	BT40 - SMA22 - 60	22	40	60	19		•
	BT40 - SMA27 - 60	27	48	60	21		•
	BT40 - SMA32 - 60	32	58	60	24		•
	BT40 - SMA40 - 60	40	70	60	27		•
50	BT50 - SMA16 - 75	16	32	75	17		
	BT50 - SMA22 - 75	22	40	75	19		
	BT50 - SMA27 - 75	27	48	75	21		
	BT50 - SMA32 - 75	32	58	75	24		
	BT50 - SMA40 - 75	40	70	75	27		
	BT50 - SMA50 - 75	50	90	75	30		

• EXTENDED

TAPER No.	MODEL No.	D1	D2	L	H	Weight (kg)	Stock
40	BT40 - SMA16 - 120	16	32	120	17		•
	BT40 - SMA22 - 120	22	40	120	19		•
	BT40 - SMA27 - 120	27	48	120	21		•
	BT40 - SMA32 - 120	32	58	120	24		•
50	BT50 - SMA16 - 120	16	32	120	17		
	BT50 - SMA22 - 120	22	40	120	19		
	BT50 - SMA27 - 120	27	48	120	21		
	BT50 - SMA32 - 120	32	58	120	24		
	BT50 - SMA40 - 120	40	70	120	27		

- CAT(ANSI B5.50) taper and Inch type products are available.

COMBI-SHELL MILL ARBOR



DIN 69871 -SK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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DIN 69871-SK

• STANDARD

Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
30	SK30 - CMA16 - 50	16	50	32	17	27	27,33,39		
	SK30 - CMA22 - 50	22	50	40	19	31	28,34,40		
	SK30 - CMA27 - 55	27	55	48	21	33	29,35,41		
40	SK40 - CMA16 - 55	16	55	32	17	27	27,33,39		•
	SK40 - CMA22 - 55	22	55	40	19	31	28,34,40		•
	SK40 - CMA27 - 55	27	55	48	21	33	29,35,41		•
	SK40 - CMA32 - 60	32	60	58	24	38	30,36,42		•
	SK40 - CMA40 - 60	40	60	70	27	41	31,37,43		•
50	SK50 - CMA16 - 55	16	55	32	17	27	27,33,39		
	SK50 - CMA22 - 55	22	55	40	19	31	28,34,40		
	SK50 - CMA27 - 55	27	55	48	21	33	29,35,41		
	SK50 - CMA32 - 55	32	55	58	24	38	30,36,42		
	SK50 - CMA40 - 55	40	55	70	27	41	31,37,43		
	SK50 - CMA50 - 70	50	70	90	30	46	32,38,44		

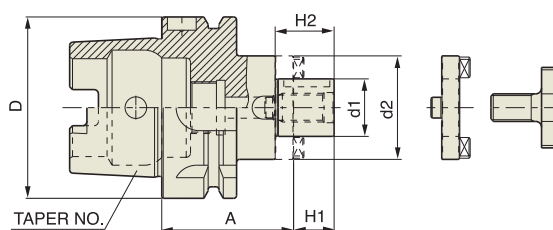
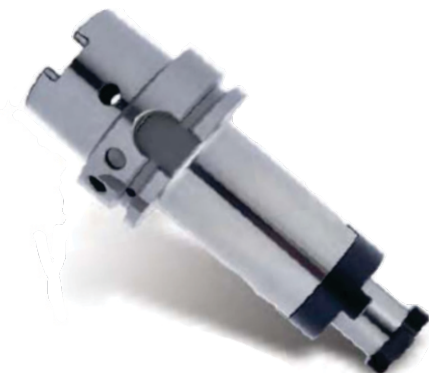
• EXTENDED

Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
40	SK40 - CMA16 - 100	16	100	32	17	27	27,33,39		•
	SK40 - CMA22 - 100	22	100	40	19	31	28,34,40		•
	SK40 - CMA27 - 100	27	100	48	21	33	29,35,41		•
	SK40 - CMA32 - 100	32	100	58	24	38	30,36,42		•
50	SK50 - CMA16 - 100	16	100	32	17	27	27,33,39		
	SK50 - CMA22 - 100	22	100	40	19	31	28,34,40		
	SK50 - CMA27 - 100	27	100	48	21	33	29,35,41		
	SK50 - CMA32 - 100	32	100	58	24	38	30,36,42		
	SK50 - CMA40 - 100	40	100	70	27	41	31,37,43		

- CAT(ANSI B5.50) taper and Inch type products are available.

COMBI-SHELL MILL ARBOR



DIN 69893
- HSK

Taper
Accuracy

G Value

RPM

Coolant
System

6.3

15,000

AD

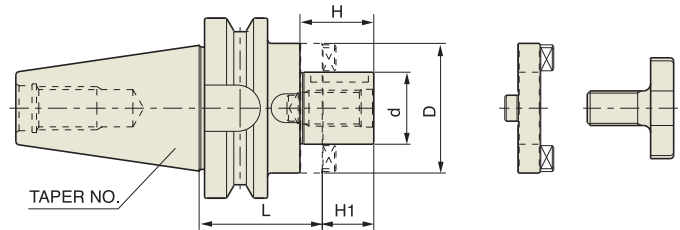
Shell Mill Arbor &
Combi Shell Mill
Arbor

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	D	d1	d2	A	H1	H2	PART No.	Weight (kg)	Stock
50A	HSK50A - CMA16 - 50	50	16	32	50	17	27	27,33,39		
	HSK50A - CMA22 - 50	50	22	40	50	19	31	28,34,40		
	HSK50A - CMA27 - 65	50	27	48	65	21	33	29,35,41		
	HSK50A - CMA32 - 65	50	32	58	65	24	38	30,36,42		
63A	HSK63A - CMA16 - 60	63	16	32	60	17	27	27,33,39		•
	HSK63A - CMA22 - 60	63	22	40	60	19	31	28,34,40		•
	HSK63A - CMA27 - 60	63	27	48	60	21	33	29,35,41		•
	HSK63A - CMA32 - 60	63	32	58	60	24	38	30,36,42		•
	HSK63A - CMA40 - 70	63	40	70	70	27	41	31,37,43		•
100A	HSK100A - CMA16 - 60	100	16	32	60	17	27	27,33,39		
	HSK100A - CMA22 - 60	100	22	40	60	19	31	28,34,40		
	HSK100A - CMA27 - 60	100	27	48	60	21	33	29,35,41		
	HSK100A - CMA32 - 60	100	32	58	60	24	38	30,36,42		
	HSK100A - CMA40 - 70	100	40	70	70	27	41	31,37,43		
	HSK100A - CMA50 - 80	100	50	90	80	30	46	32,38,44		

COMBI-SHELL MILL ARBOR



JIS B6339/MAS 403-BT

JIS B6339
- BT

Taper
Accuracy
At3

G Value
6.3

RPM
15,000

Coolant
System
AD

Shell Mill Arbor &
Combi Shell Mill
Arbor

• STANDARD

Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
30	BT30 - CMA16 - 50	16	50	32	17	27	27,33,39		
	BT30 - CMA22 - 50	22	50	40	19	31	28,34,40		
	BT30 - CMA27 - 55	27	55	48	21	33	29,35,41		
40	BT40 - CMA16 - 55	16	55	32	17	27	27,33,39		
	BT40 - CMA22 - 55	22	55	40	19	31	28,34,40		
	BT40 - CMA27 - 55	27	55	48	21	33	29,35,41		
	BT40 - CMA32 - 60	32	60	58	24	38	30,36,42		
	BT40 - CMA40 - 60	40	60	70	27	41	31,37,43		
50	BT50 - CMA16 - 70	16	70	32	17	27	27,33,39		
	BT50 - CMA22 - 70	22	70	40	19	31	28,34,40		
	BT50 - CMA27 - 70	27	70	48	21	33	29,35,41		
	BT50 - CMA32 - 70	32	70	58	24	38	30,36,42		
	BT50 - CMA40 - 70	40	70	70	27	41	31,37,43		
	BT50 - CMA50 - 70	50	70	90	30	46	32,38,44		

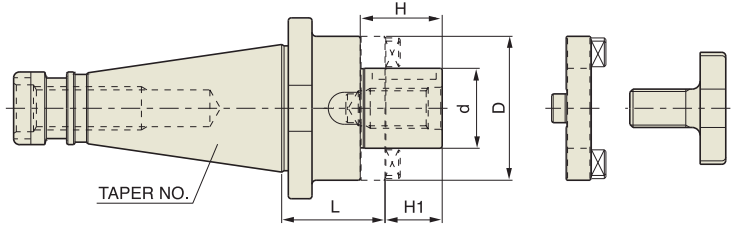
• EXTENDED

Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
40	BT40 - CMA16 - 100	16	100	32	17	27	27,33,39		
	BT40 - CMA22 - 100	22	100	40	19	31	28,34,40		
	BT40 - CMA27 - 100	27	100	48	21	33	29,35,41		
	BT40 - CMA32 - 100	32	100	58	24	38	30,36,42		
50	BT50 - CMA16 - 100	16	100	32	17	27	27,33,39		
	BT50 - CMA22 - 100	22	100	40	19	31	28,34,40		
	BT50 - CMA27 - 100	27	100	48	21	33	29,35,41		
	BT50 - CMA32 - 100	32	100	58	24	38	30,36,42		
	BT50 - CMA40 - 100	40	100	70	27	41	31,37,43		

- CAT(ANSI B5.50) taper and Inch type products are available.

COMBI-SHELL MILL ARBOR



DIN 2080
- ISO

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

DIN 2080-ISO

• STANDARD

Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
30	ISO30 - CMA16 - 35	16	35	32	17	27	27,33,39		
	ISO30 - CMA22 - 35	22	35	40	19	31	28,34,40		
	ISO30 - CMA27 - 35	27	35	48	21	33	29,35,41		
40	ISO40 - CMA16 - 52	16	52	32	17	27	27,33,39		
	ISO40 - CMA22 - 52	22	52	40	19	31	28,34,40		
	ISO40 - CMA27 - 52	27	52	48	21	33	29,35,41		
	ISO40 - CMA32 - 52	32	52	58	24	38	30,36,42		
	ISO40 - CMA40 - 52	40	52	70	27	41	31,37,43		
50	ISO50 - CMA16 - 55	16	55	32	17	27	27,33,39		
	ISO50 - CMA22 - 55	22	55	40	19	31	28,34,40		
	ISO50 - CMA27 - 55	27	55	48	21	33	29,35,41		
	ISO50 - CMA32 - 55	32	55	58	24	38	30,36,42		
	ISO50 - CMA40 - 55	40	55	70	27	41	31,37,43		
	ISO50 - CMA50 - 55	50	55	90	30	46	32,38,44		

• EXTENDED

Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
40	ISO40 - CMA16 - 125	16	125	32	17	27	27,33,39		
	ISO40 - CMA22 - 125	22	125	40	19	31	28,34,40		
	ISO40 - CMA27 - 125	27	125	48	21	33	29,35,41		
	ISO40 - CMA32 - 125	32	125	58	24	38	30,36,42		
50	ISO50 - CMA16 - 125	16	125	32	17	27	27,33,39		
	ISO50 - CMA22 - 125	22	125	40	19	31	28,34,40		
	ISO50 - CMA27 - 125	27	125	48	21	33	29,35,41		
	ISO50 - CMA32 - 125	32	125	58	24	38	30,36,42		
	ISO50 - CMA40 - 125	40	125	70	27	41	31,37,43		

- CAT(ANSI B5.50) taper and Inch type products are available.

The Top Leader of World Toolholder Industry



HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM
NC DRILL CHUCK • BORING SYSTEM

MILLING CHUCK



DIN 69871-SK
HIGH-SPEED TYPE / STANDARD TYPE

DIN 69893/ISO 12164-1-HSK
HIGH-SPEED TYPE / STANDARD TYPE

CBT (BT DUAL CONTACT)

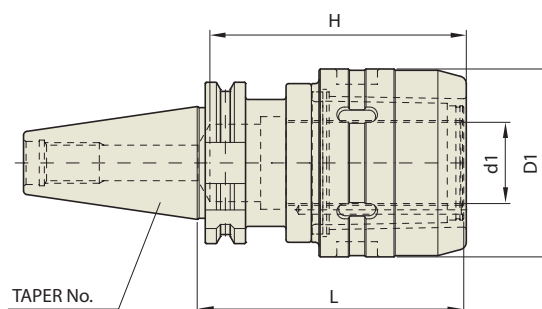
JIS B6339/MAS 403-BT
HIGH-SPEED TYPE / STANDARD TYPE

DIN 228-MTA/MTB, R8

MILLING CHUCK SET
Q.C MILLING CHUCK SET

ACCESSORY
END MILL COLLET (K, CK, MT, JT)
SPANNER

HIGH SPEED MILLING CHUCK



DIN 69871 - SK	Taper Accuracy At3	G Value 6.3	RPM 20,000	Coolant System
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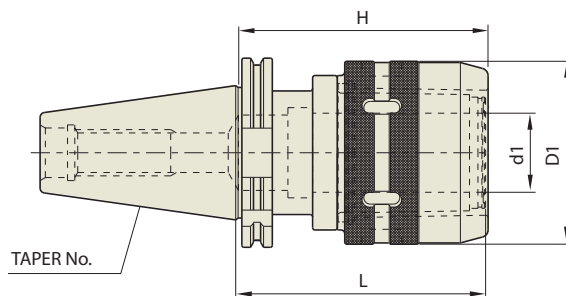
DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
30	SK30-C20-80HS	20	54	80	70	1.15	
	SK30-C25-80HS	25	62.5	80	80	1.48	
40	SK40-C20-105HS	20	54	105	70	1.77	●
	SK40-C25-105HS	25	62.5	105	80	2.10	●
	SK40-C32-105HS	32	74	105	100	2.40	●
	SK40-C32-135HS	32	74	135	100	3.10	●
50	SK50-C20-105HS	20	54	105	70	3.40	
	SK50-C25-105HS	25	62.5	105	80	3.80	
	SK50-C32-105HS	32	74	105	100	4.30	
	SK50-C32-135HS	32	74	135	100	4.90	
	SK50-C32-165HS	32	74	165	100	5.60	
	SK50-C42-115HS	42	92	115	110	4.60	
	SK50-C42-135HS	42	92	135	110	5.60	
	SK50-C42-165HS	42	92	165	110	6.10	

- CAT(ANSI B5.50) taper and Inch type products are available.

MILLING CHUCK



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

DIN 69871-SK

• STUB

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
30	SK30-C20-80	20	54	80	70	1.15	
	SK30-C25-80	25	62.5	80	80	1.48	
40	SK40-C20-90	20	54	90	70	1.60	
	SK40-C32-90	32	72	90	100	2.00	
50	SK50-C20-80	20	54	80	70	3.22	
	SK50-C25-90	25	62.5	90	80	3.61	
	SK50-C32-90	32	72	90	100	3.87	

• STANDARD

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
40	SK40-C20-105	20	54	105	70	1.77	•
	SK40-C25-105	25	62.5	105	80	2.01	•
	SK40-C32-105	32	72	105	100	2.42	•
50	SK50-C20-105	20	54	105	70	3.39	•
	SK50-C25-105	25	62.5	105	80	3.78	•
	SK50-C32-105	32	72	105	100	4.31	•
	SK50-C42-115	42	92	115	110	4.53	•

• EXTENDED

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
40	SK40-C32-135	32	72	135	100	3.11	•
50	SK50-C32-135	32	72	135	100	4.94	•
	SK50-C42-135	42	92	135	110	5.62	•

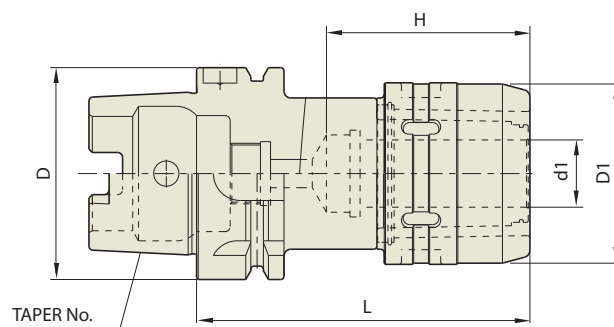
• EXTRA EXTENDED

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
50	SK50-C32-165	32	72	165	100	5.59	•
	SK50-C42-165	42	92	165	110	6.10	•

- AT(ANSI B5.50) taper and Inch type products are available.

HIGH SPEED MILLING CHUCK



DIN 69893
- HSK

Taper
Accuracy

G Value
6.3

RPM
20,000

Coolant
System

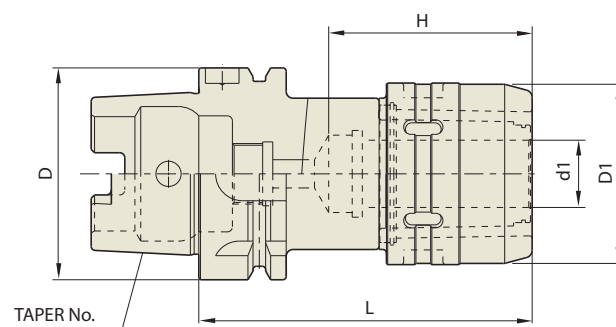
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
50A	HSK50A-C20-100HS	20	54	100	70	1.30	
63A	HSK63A-C20-105HS	20	54	105	70	1.50	●
	HSK63A-C25-120HS	25	62.5	120	80	2.20	
	HSK63A-C32-130HS	32	74	130	100	2.70	●
100A	HSK100A-C20-110HS	20	54	110	70	3.50	
	HSK100A-C25-130HS	25	62.5	130	80	3.80	
	HSK100A-C32-135HS	32	74	135	100	4.20	●
	HSK100A-C42-135HS	42	74	135	100	5.30	

Milling
Chuck

MILLING CHUCK



DIN69893
- HSK

Taper
Accuracy

G Value

RPM

Coolant
System

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	D	d1	D1	L	H	Weight (kg)	Stock
50A	HSK 50A-C20-100	50	20	54	100	70	1.30	
63A	HSK 63A-C20-105	63	20	54	105	70	1.50	•
	HSK 63A-C32-130	63	32	72	130	100	2.70	•
100A	HSK100A-C20-110	100	20	54	110	70	3.50	
	HSK100A-C32-135	100	32	72	135	100	4.20	•
	HSK100A-C42-135	100	42	92	135	100	5.30	

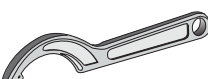
Milling
Chuck

ACCESSORY

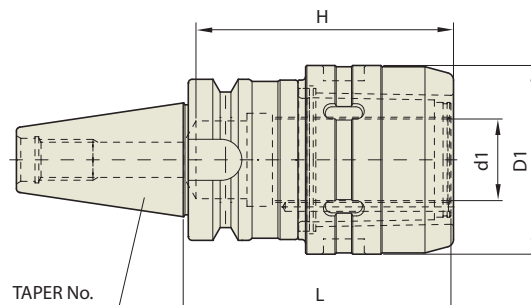
END MILL COLLET	MODEL No.
	K20 - 6, 8, 10, 12, 16
	K32 - 6, 8, 10, 12, 16, 20, 25
	K42 - 6, 8, 10, 12, 16, 20, 25, 32

- Special size of Ø3, Ø4 or Ø5 can be produced and supplied upon request.

END MILL COLLET	MODEL No.
	CK20 - 6, 8, 10, 12, 16
	CK25 - 6, 8, 10, 12, 16, 20
	CK32 - 6, 8, 10, 12, 16, 20, 25
	CK42 - 6, 8, 10, 12, 16, 20, 25, 32

SPANNER	MODEL No.
	C20 SP
	C25 SP
	C32 SP
	C42 SP

HIGH SPEED MILLING CHUCK



JIS B6339 - BT	Taper Accuracy At3	G Value 6.3	RPM 20,000	Coolant System
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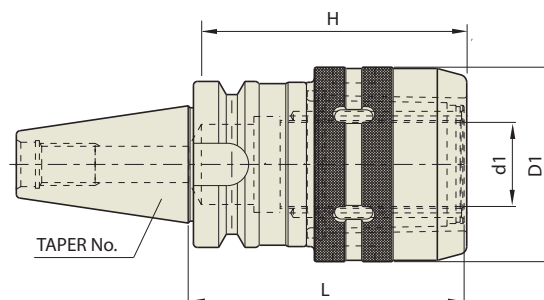
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
30	BT30-C20-75HS	20	54	75	70	1.50	●
	BT30-C25-80HS	25	62.5	80	80	2.00	●
40	BT40-C20-80HS	20	54	80	70	2.00	●
	BT40-C20-105HS	20	54	105	70	2.10	
	BT40-C25-105HS	25	62.5	105	80	2.50	
	BT40-C32-90HS	32	74	90	100	3.00	●
	BT40-C32-105HS	32	74	105	100	3.10	●
	BT40-C32-135HS	32	74	135	100	3.30	●
50	BT50-C20-105HS	20	54	105	70	4.50	●
	BT50-C20-135HS	20	54	135	70	4.90	
	BT50-C20-165HS	20	54	165	70	5.40	
	BT50-C25-105HS	25	62.5	105	80	5.20	
	BT50-C25-135HS	25	62.5	135	80	5.80	
	BT50-C25-165HS	25	62.5	165	80	6.20	
	BT50-C32-105HS	32	74	105	100	6.00	●
	BT50-C32-135HS	32	74	135	100	6.70	●
	BT50-C32-165HS	32	74	165	100	7.40	
	BT50-C42-115HS	42	92	115	110	6.70	●
	BT50-C42-135HS	42	92	135	110	7.60	●
	BT50-C42-165HS	42	92	165	110	8.30	

- CAT(ANSI B5.50) taper and Inch type products are available.

MILLING CHUCK



JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System
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JIS B6339/MAS 403-BT

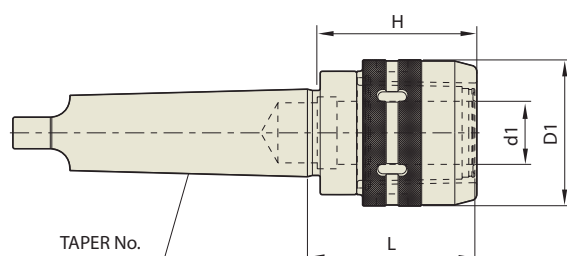
Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Applicable collet	Weight (kg)	Stock
30	BT30-C20-75	20	54	75	70	K20, CK20	1.5	●
	BT30-C25-80	25	62.5	80	80	K25, CK25	2.0	●
40	BT40-C20-80	20	54	80	70	K20, CK20	2.0	●
	BT40-C20-105	20	54	105	70	K20, CK20	2.1	●
	BT40-C25-105	25	62.5	105	80	K25, CK25	2.5	
	BT40-C32-90	32	72	90	100	K32, CK32	3	●
	BT40-C32-105	32	72	105	100	K32, CK32	3.1	●
	BT40-C32-135	32	72	135	100	K32, CK32	3.3	
50	BT50-C20-105	20	54	105	70	K20, CK20	4.5	●
	BT50-C20-135	20	54	135	70	K20, CK20	4.9	
	BT50-C20-165	20	54	165	70	K20, CK20	5.4	●
	BT50-C25-105	25	62.5	105	80	K25, CK25	5.2	
	BT50-C25-135	25	62.5	135	80	K25, CK25	5.8	
	BT50-C25-165	25	62.5	165	80	K25, CK25	6.2	
	BT50-C32-105	32	72	105	100	K32, CK32	6	●
	BT50-C32-115	32	72	115	100	K32, CK32	6.2	
	BT50-C32-135	32	72	135	100	K32, CK32	6.7	●
	BT50-C32-165	32	72	165	100	K32, CK32	7.4	●
	BT50-C42-115	42	92	115	110	K42, CK42	6.7	●
	BT50-C42-135	42	92	135	110	K42, CK42	7.6	●
	BT50-C42-165	42	92	165	110	K42, CK42	8.3	

- CAT(ANSI B5.50) taper and Inch type products are available.

MILLING CHUCK

PORTAHERRAMIENTAS PARA FRESADO

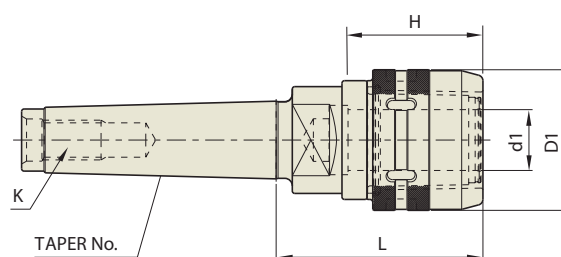


DIN 228-MTA

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Applicable collet	Weight (kg)	Stock
4	MTA4-C32	32	72	98	100	K32, CK32	2.57	
5	MTA5-C32	32	72	85	100	K32, CK32	3.06	
	MTA5-C42	42	92	114	110	K42, CK42	3.45	
6	MTA6-C42	42	92	99	110	K42, CK42	4.14	●

- In case of MT6, it is required to inform machine model number and company name for selection of cutter groove.

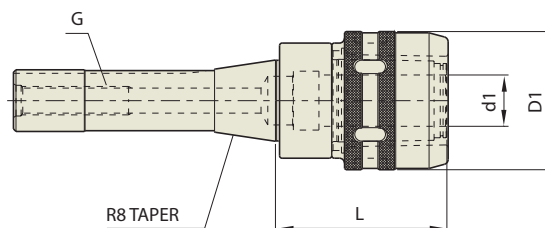


DIN 228-MTB

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	K	Applicable collet	Weight (kg)	Stock
3	MTB3-C20	20	54	74	70	M12	K20, CK20	2.10	●
4	MTB4-C32	32	72	98	100	M16	K32, CK32	2.57	
	MTB5-C32	32	72	85	100	M20	K32, CK32	3.06	●
5	MTB5-C42	42	92	114	110	M20	K42, CK42	3.45	

MILLING CHUCK



BRIDGEPORT-R8

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	G	Applicable collet	Weight (kg)	Stock
R8	R8-C20	20	54	69	U7/16-20	K20, CK20	1.40	

Milling
Chuck

MILLING CHUCK STANDARD SET



Milling
Chuck

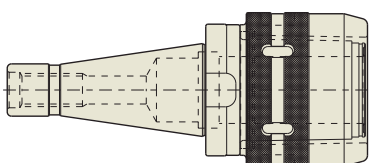
TAPER	STANDARD SET MODEL NO.	MILLING CHUCK	END MILL COLLET	Stock
SK	SSK40 - C20	SK40-C20-105	K20-6,8,10,12,16(5PS)	
	SSK40 - C32	SK40-C32-105	K32-6,8,10,12,16,20,25(7PS)	
	SSK50 - C32	SK50-C32-105	K32-6,8,10,12,16,20,25(7PS)	
	SSK50 - C42	SK50-C42-115	K42-6,8,10,12,16,20,25,32(8PS)	
BT	SBT40 - C20	BT40-C20-105	K20-6,8,10,12,16(5PS)	
	SBT40 - C32	BT40-C32-105	K32-6,8,10,12,16,20,25(7PS)	
	SBT50 - C32	BT50-C32-105	K32-6,8,10,12,16,20,25(7PS)	
	SBT50 - C42	BT50-C42-115	K42-6,8,10,12,16,20,25,32(8PS)	
ISO	SISO40 - C20	ISO40-C20-78	K20-6,8,10,12,16(5PS)	
	SISO40 - C32	ISO40-C32-78	K32-6,8,10,12,16,20,25(7PS)	
	SISO50 - C32	ISO50-C32-85	K32-6,8,10,12,16,20,25(7PS)	
	SISO50 - C42	ISO50-C42-102	K42-6,8,10,12,16,20,25,32(8PS)	
NT	SNT40-C32	NT40-C32	K32-6,8,10,12,16,20,25(7PS)	
	SNT50-C32	NT50-C32	K32-6,8,10,12,16,20,25(7PS)	
	SNT50-C42	NT50-C42	K42-6,8,10,12,16,20,25,32(8PS)	

MILLING CHUCK STANDARD SET



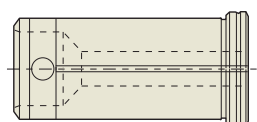
TAPER	STANDARD SET MODEL No.	MILLING CHUCK	END MILL COLLET	MORSE TAPER COLLET	DRILL CHUCK BAR
R8	SR8-C20	R8-C20	K20-(6-16)(5PCS)	K20-MT1,2	K20-JTA6
NT30	SNT30-20	NT30-C20	K20-(6-16)(5PCS)	K20-MT1,2	K20-JTA6
NT40	SNT40-32	NT40-C32	K32-(6-25)(7PCS)	K32-MT1,2,3	K32-JTA6
NT50	SNT50-32	NT50-C32	K32-(6-25)(7PCS)	K32-MT1,2,3	K32-JTA6
	SNT50-42	NT50-C42	K42-(6-32)(8PCS)	K42-MT1,2,3,4	K42-JTA6

Milling
Chuck



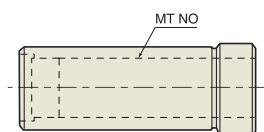
MILLING CHUCK

MODEL No.
NT30 - C20
NT40 - C32
NT50 - C32
NT50 - C42



END MILL COLLET

MODEL No.
K20 - 6, 8, 10, 12, 16
K25 - 6, 8, 10, 12, 16, 20
K32 - 6, 8, 10, 12, 16, 20, 25
K42 - 6, 8, 10, 12, 16, 20, 25, 32



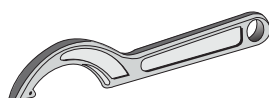
MT COLLET

MODEL No.
K20 - MT1, 2
K25 - MT1, 2, 3
K32 - MT1, 2, 3
K42 - MT1, 2, 3, 4



DRILL CHUCK ARBOR

MODEL No.
K20 - JTA6
K25 - JTA6
K32 - JTA6
K42 - JTA6



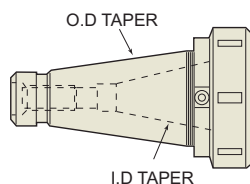
SPANNER

MODEL No.
C20 SP
C25 SP
C32 SP
C42 SP

QUICK CHANGE MILLING CHUCK SET

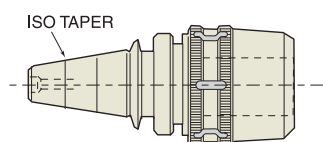


TAPER	Q.C MILLING HOLDER SET MODEL No.	Q.C MASTER HOLDER	Q.C MILLING CHUCK	END MILL COLLETS	Q.C FACE MILL ARBOR	Q.C DRILL CHUCK BAR	DRILL CHUCK ARBOR	Q.C TAPER SLEEVE
NT40	SMH40-T35-32 A	MH40-T35	QT35-32	K32-(6-25)(7PCS)	QT35-4R	—	K32-J6	—
	SMH40-T35-32 B	MH40-T35	QT35-32	K32-(6-25)(7PCS)	QT35-4R	QT35-J6	—	QT35-MT2,3,4
NT50	SMH50-T45-32 A	MH50-T45	QT45-32	K32-(6-25)(7PCS)	QT45-5R	—	K32-J6	—
	SMH50-T45-32 B	MH50-T45	QT45-32	K32-(6-25)(7PCS)	QT45-5R	QT45-J6	—	QT45-MT2,3,4
	SMH50-T45-42 A	MH50-T45	QT45-42	K42-(6-32)(8PCS)	QT45-5R	—	K42-J6	—
	SMH50-T45-42 B	MH50-T45	QT45-42	K42-(6-32)(8PCS)	QT45-5R	QT45-J6	—	QT45-MT2,3,4



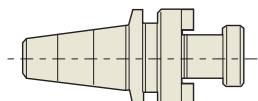
Q.C MASTER HOLDER

MODEL No.	O.D TAPER	I.D TAPER	DRAW THREADS
MH40-T35	NT40	NT35	U5/8-11(M16-2)
MH50-T45	NT50	NT45	U1-8(M24-3)



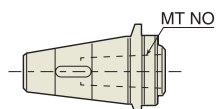
Q.C MILLING CHUCK

Q.C MASTER HOLDER	MODEL No.
MH40	QT35-C32
MH50	QT45-C32
MH50	QT45-C42



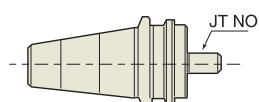
Q.C FACE MILL ARBOR

Q.C MASTER HOLDER	MODEL No.
MH40	QT35-3,4,5R
MH50	QT45-3,4,5,6R



Q.C TAPER SLEEVE

Q.C MASTER HOLDER	MODEL No.
MH40	QT35 - MT1, 2, 3
MH50	QT45 - MT1, 2, 3, 4



Q.C DRILL CHUCK ARBOR

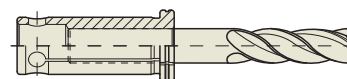
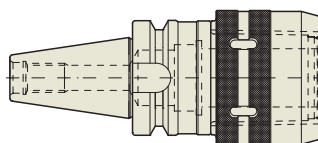
Q.C MASTER HOLDER	MODEL No.	DRILLØ
MH40	QT35-J6	1-13mm
MH50	QT45-J6	1-13mm

COLLET & SPANNER



END MILL COLLET (K TYPE)

MODEL No.	SET
K20-6,8,10,12,16	5pcs
K25-6,8,10,12,16,20	6pcs
K32-6,8,10,12,16,20,25	7pcs
K42-6,8,10,12,16,20,25,32	8pcs



END MILL COLLET (CK TYPE)

MODEL No.	SET
CK20-6,8,10,12,16	5pcs
CK25-6,8,10,12,16,20	6pcs
CK32-6,8,10,12,16,20,25	7pcs
CK42-6,8,10,12,16,20,25,32	8pcs



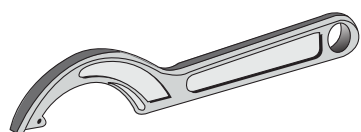
MT COLLET

MODEL No.
K20-MT1,2
K25-MT1,2
K32-MT1,2,3
K42-MT1,2,3,4



DRILL CHUCK ARBOR

MODEL No.
K20-JTA6
K25-JTA6
K32-JTA6
K42-JTA6



SPANNER

MODEL No.
C20 SP
C25 SP
C32 SP
C42 SP

• Stock Control Item

Milling
Chuck

The Top Leader of World Toolholder Industry



HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM

MORSE TAPER ARBOR



DIN 69871-SK

DIN 69893/ISO 12164-1-HSK

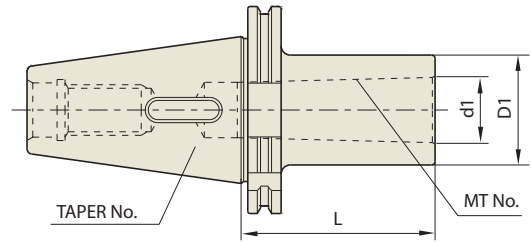
JIS B6339/MAS 403-BT

MORSE TAPER ARBOR



DIN 69871-SK

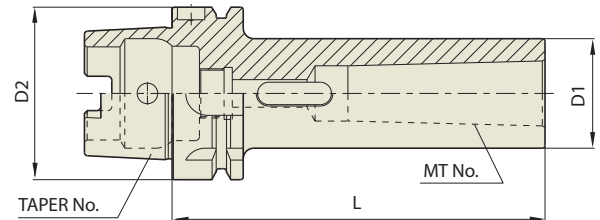
- STANDARD



DIN 69871-SK	Taper Accuracy At3	G Value G6.3	RPM 15,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	MT No.	d1	D1	L	Weight (kg)	Stock
30	SK30-MTA1-50	1	12.065	25	50	0.72	
	SK30-MTA2-60	2	17.78	32	60	0.87	
	SK30-MTA3-80	3	23.825	40	80	1.02	
40	SK40-MTA1-50	1	12.065	25	50	1.49	•
	SK40-MTA2-50	2	17.78	32	50	1.62	•
	SK40-MTA3-70	3	23.825	40	70	1.65	•
	SK40-MTA4-95	4	31.267	48	95	1.90	•
50	SK50-MTA1-45	1	12.065	25	45	2.60	
	SK50-MTA2-60	2	17.78	32	60	2.66	
	SK50-MTA3-65	3	23.825	40	65	2.75	
	SK50-MTA4-95	4	31.267	48	95	3.00	
	SK50-MTA5-105	5	44.399	63	105	3.30	



DIN 69893-HSK	Taper Accuracy	G Value G6.3	RPM 15,000	Coolant System AD
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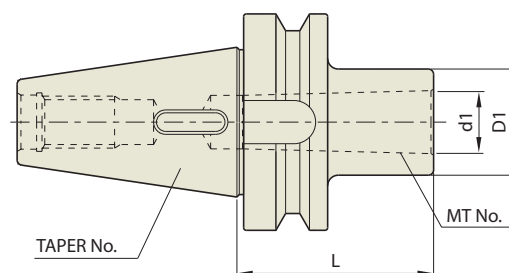
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	MT No.	D1	D2	L	Weight (kg)	Stock
50A	HSK 50A-MTA1-100	1	25	50	100	0.67	
	HSK 50A-MTA2-120	2	32	50	120	0.78	
	HSK 50A-MTA3-140	3	40	50	140	0.91	
63A	HSK 63A-MTA1-100	1	25	63	100	0.87	
	HSK 63A-MTA2-120	2	32	63	120	1.28	
	HSK 63A-MTA3-140	3	40	63	140	1.44	
	HSK 63A-MTA4-160	4	48	63	160	1.86	
100A	HSK100A-MTA1-110	1	25	100	110	2.12	
	HSK100A-MTA2-120	2	32	100	120	2.41	
	HSK100A-MTA3-150	3	40	100	150	2.82	
	HSK100A-MTA4-170	4	48	100	170	3.63	
	HSK100A-MTA5-200	5	63	100	200	4.80	

- CAT(ANSI B5.50) taper and Inch type products are available.

MORSE TAPER ARBOR



JIS B6339 - BT	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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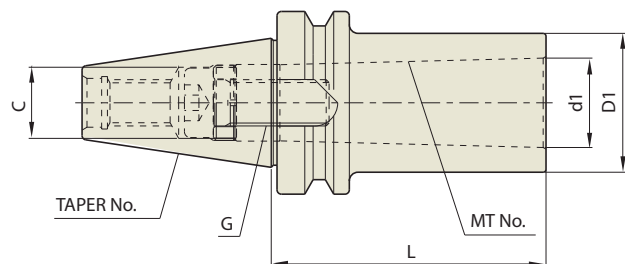
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	MT No.	L	d1	D1	Weight (kg)	Stock
30	BT30-MTA1- 45	1	45	12.065	25	0.4	●
	BT30-MTA2- 60	2	60	17.780	32	0.5	●
	BT30-MTA2- 120	2	120	17.780	32	0.6	
	BT30-MTA3- 75	3	75	23.825	40	0.7	●
40	BT40-MTA1- 45	1	45	12.065	25	1.0	●
	BT40-MTA1-120	1	120	12.065	25	1.3	
	BT40-MTA2- 60	2	60	17.780	32	1.0	●
	BT40-MTA2-120	2	120	17.780	32	1.4	
	BT40-MTA3- 75	3	75	23.825	40	1.2	●
	BT40-MTA3-135	3	135	23.825	40	1.8	
	BT40-MTA4- 95	4	95	31.267	50	1.1	●
	BT40-MTA4-165	4	165	31.267	50	2.4	
50	BT50-MTA1- 45	1	45	12.065	25	4.0	
	BT50-MTA1-120	1	120	12.065	25	4.3	
	BT50-MTA1-180	1	180	12.065	25	4.3	
	BT50-MTA2- 45	2	45	17.780	32	4.0	
	BT50-MTA2-135	2	135	17.780	32	4.4	
	BT50-MTA2-180	2	180	17.780	32	4.6	
	BT50-MTA3- 45	3	45	23.825	40	3.9	
	BT50-MTA3-150	3	150	23.825	40	4.7	
	BT50-MTA3-180	3	180	23.825	40	4.9	
	BT50-MTA4- 75	4	75	31.267	50	4.0	
	BT50-MTA4-105	4	105	31.267	50	4.5	
	BT50-MTA4-180	4	180	31.267	50	5.4	
	BT50-MTA5-105	5	105	44.399	65	4.5	
	BT50-MTA5-210	5	210	44.399	65	7.2	
	BT50-MTA5-270	5	270	44.399	65	7.5	

- CAT(ANSI B5.50) taper and Inch type products are available.

MORSE TAPER ARBOR

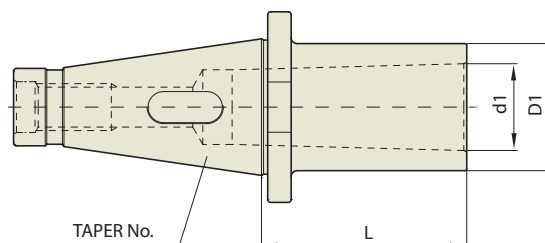


JIS B6339 - BT	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	MT No.	L	d1	D1	C	G	Weight (kg)	Stock
30	BT30-MTB1-45	1	45	12.065	25	10	M6×1.0	0.8	
	BT30-MTB2-45	2	45	17.780	32	-	M10×1.5	0.8	
40	BT40-MTB1-45	1	45	12.065	25	10	M6×1.0	1.0	
	BT40-MTB2-45	2	45	17.780	32	13.5	M10×1.5	1.1	
	BT40-MTB3-60	3	60	23.825	40	-	M12×1.75	1.1	
	BT40-MTB4-85	4	85	31.267	50	-	M16×2.0	1.3	
50	BT50-MTB1-45	1	45	12.065	25	10	M6×1.0	3.9	
	BT50-MTB2-45	2	45	17.780	32	16	M10×1.5	3.9	
	BT50-MTB3-60	3	60	23.825	40	18	M12×1.75	3.9	
	BT50-MTB4-75	4	75	31.267	50	20.5	M16×2.0	3.9	



Taper Accuracy AT3	G Value	RPM	Coolant System
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ANSI B5.18-NT

Unit : mm

TAPER No.	MODEL No.	MT No.	RANGE OF DRILL		D1	L	DRAW THREAD	Weight (kg)	Stock
			MIN	MAX					
40	NT40-MTA1-30	1	2.0	14.0	25	30	U 5/8-11(M16×2)	0.90	
	NT40-MTA2-30	2	14.1	23.0	32	30	U 5/8-11(M16×2)	1.00	
	NT40-MTA3-35	3	23.1	32.0	40	45	U 5/8-11(M16×2)	1.00	
	NT40-MTA4-90	4	32.1	50.0	50	90	U 5/8-11(M16×2)	1.20	
50	NT50-MTA1-30	1	2.0	14.0	25	30	U 1-8(M24×3)	3.50	
	NT50-MTA2-30	2	14.1	23.0	32	30	U 1-8(M24×3)	3.50	
	NT50-MTA3-30	3	23.1	32.0	40	30	U 1-8(M24×3)	3.50	
	NT50-MTA4-45	4	32.1	50.0	50	45	U 1-8(M24×3)	3.50	
	NT50-MTA5-105	5	50.1	75.0	60	105	U 1-8(M24×3)	4.00	

- CAT(ANSI B5.50) taper and Inch type products are available.



BRISLOY SLIM CHUCK

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT

DIN 69893/ISO 12164-1-HSK

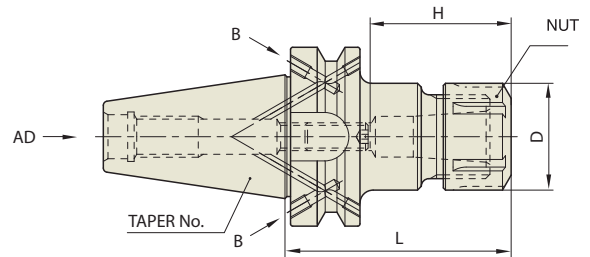
STRAIGHT-K

ACCESSORY & PART

SK COLLET

SK NUT

SK SLIM CHUCK



JIS B6339 - BT	Taper Accuracy At3	G Value 2.5	RPM 25,000	Coolant System AD/B
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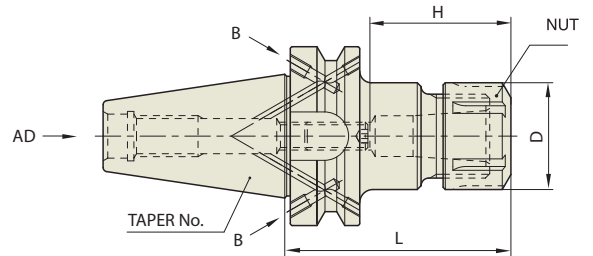
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	C	C 1	H		COLLET	Weight (kg)	Stock
						Min	Max			
30	BT30AD/B-SKA06-60	0.9-6.0	60	20	19.5	21	35	SKC6	0.7	
	BT30AD/B-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	0.8	
	BT30AD/B-SKA10-60	1.75-10.0	60	28	27.5	30	50	SKC10	0.9	
	BT30AD/B-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1	
	BT30AD/B-SKA13-60	2.75-13.0	60	33	33	31	65	SKC13	1	
	BT30AD/B-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.1	
	BT30AD/B-SKA16-60	2.75-16.0	60	40	40	45	60	SKC16	1.1	
	BT30AD/B-SKA16-90	2.75-16.0	90	40	40	45	60	SKC16	1.2	
	BT30AD/B-SKA20-60	4.0-20.0	60	48.5	48.5	65	75	SKC20	1.3	
	BT30AD/B-SKA20-90	4.0-20.0	90	48.5	48.5	65	75	SKC20	1.4	
	BT30AD/B-SKA25-90	16.0-25.4	90	55	55	55	75	SKC25	1.5	
40	BT40AD/B-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	1.1	
	BT40AD/B-SKA06-120	0.9-6.0	120	20	19.5	21	35	SKC6	1.4	
	BT40AD/B-SKA06-150	0.9-6.0	150	20	19.5	21	35	SKC6	1.5	
	BT40AD/B-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1.2	
	BT40AD/B-SKA10-120	1.75-10.0	120	28	27.5	30	50	SKC10	1.4	
	BT40AD/B-SKA10-150	1.75-10.0	150	28	27.5	30	50	SKC10	1.6	
	BT40AD/B-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.4	
	BT40AD/B-SKA13-120	2.75-13.0	120	33	33	31	65	SKC13	1.6	
	BT40AD/B-SKA13-150	2.75-13.0	150	33	40	31	65	SKC13	1.8	
	BT40AD/B-SKA16-90	2.75-16.0	90	40	40	45	70	SKC16	1.5	
	BT40AD/B-SKA16-120	2.75-16.0	120	40	40	45	70	SKC16	1.7	
	BT40AD/B-SKA16-150	2.75-16.0	150	40	40	45	70	SKC16	1.9	
	BT40AD/B-SKA20-90	4.0-20.0	90	48.5	48.5	47	80	SKC20	1.6	
	BT40AD/B-SKA20-120	4.0-20.0	120	48.5	48.5	47	80	SKC20	2	
	BT40AD/B-SKA20-150	4.0-20.0	150	48.5	48.5	47	80	SKC20	2.4	
	BT40AD/B-SKA25-90	16.0-25.4	90	55	55	55	85	SKC25	1.8	
	BT40AD/B-SKA25-120	16.0-25.4	120	55	55	55	85	SKC25	2	
	BT40AD/B-SKA25-150	16.0-25.4	150	55	55	55	85	SKC25	2.3	

- Feature :
Minimizing interference between tool holder and workpiece by employing slim type design.

SK SLIM CHUCK



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD/B
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JIS B6339/MAS 403-BT

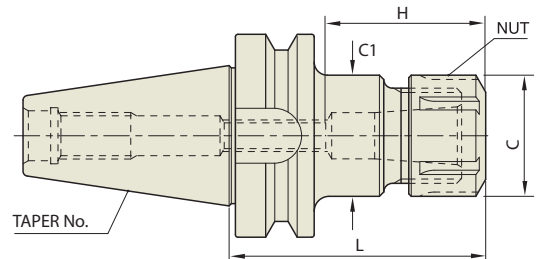
Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	C	C1	H		COLLET	Weight (kg)	Stock
						Min	Max			
50	BT50AD/B-SKA06-105	0.9-6.0	105	20	19.5	21	35	SKC6	3.8	
	BT50AD/B-SKA06-135	0.9-6.0	135	20	19.5	21	35	SKC6	3.9	
	BT50AD/B-SKA06-165	0.9-6.0	165	20	32.5	21	35	SKC6	4	
	BT50AD/B-SKA06-195	0.9-6.0	195	20	32.5	21	35	SKC6	4.2	
	BT50AD/B-SKA10-105	1.75-10.0	105	28	27.5	30	50	SKC10	4.2	
	BT50AD/B-SKA10-135	1.75-10.0	135	28	27.5	30	50	SKC10	4.4	
	BT50AD/B-SKA10-165	1.75-10.0	165	28	37.4	30	50	SKC10	4.6	
	BT50AD/B-SKA10-195	1.75-10.0	195	28	37.4	30	50	SKC10	4.8	
	BT50AD/B-SKA13-105	2.75-13.0	105	33	33	31	65	SKC13	4.5	
	BT50AD/B-SKA13-135	2.75-13.0	135	33	33	31	65	SKC13	4.7	
	BT50AD/B-SKA13-165	2.75-13.0	165	33	45	31	65	SKC13	4.9	
	BT50AD/B-SKA13-195	2.75-13.0	195	33	45	31	65	SKC13	5.2	
	BT50AD/B-SKA16-105	2.75-16.0	105	40	40	45	70	SKC16	4.7	
	BT50AD/B-SKA16-135	2.75-16.0	135	40	40	45	70	SKC16	4.9	
	BT50AD/B-SKA16-165	2.75-16.0	165	40	40	45	70	SKC16	5.1	
	BT50AD/B-SKA16-195	2.75-16.0	195	40	40	45	70	SKC16	5.5	
	BT50AD/B-SKA20-105	4.0-20.0	105	48.5	48.5	47	80	SKC20	4.3	
	BT50AD/B-SKA20-135	4.0-20.0	135	48.5	48.5	47	80	SKC20	4.6	
	BT50AD/B-SKA20-165	4.0-20.0	165	48.5	48.5	47	80	SKC20	5	
	BT50AD/B-SKA20-195	4.0-20.0	195	48.5	48.5	47	80	SKC20	5.4	
	BT50AD/B-SKA25-105	16.0-25.4	105	55	55	55	85	SKC25	5.2	
	BT50AD/B-SKA25-135	16.0-25.4	135	55	55	55	85	SKC25	5.4	
	BT50AD/B-SKA25-165	16.0-25.4	165	55	55	55	85	SKC25	5.6	
	BT50AD/B-SKA25-195	16.0-25.4	195	55	55	55	85	SKC25	6	

- Feature :
Minimizing interference between tool holder and workpiece by employing slim type design.

SK Slim
Chuck

SK SLIM CHUCK



JIS B6339 - BT	Taper Accuracy At3	G Value 6.3	RPM 15,000	Coolant System AD
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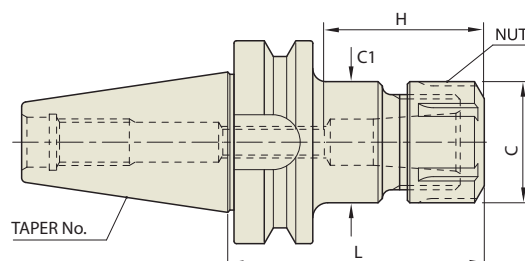
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	C	C1	H		COLLET	Weight (kg)	Stock
						Min	Max			
30	BT30-SKA06-60	0.9-6.0	60	20	19.5	21	35	SKC6	0.7	●
	BT30-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	0.8	●
	BT30-SKA10-60	1.75-10.0	60	28	27.5	30	50	SKC10	0.9	●
	BT30-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1	●
	BT30-SKA13-60	2.75-13.0	60	33	33	31	65	SKC13	1	
	BT30-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.1	
	BT30-SKA16-60	2.75-16.0	60	40	40	45	60	SKC16	1.1	●
	BT30-SKA16-90	2.75-16.0	90	40	40	45	60	SKC16	1.2	●
	BT30-SKA20-60	4.0-20.0	60	48.5	48.5	65	75	SKC20	1.3	
	BT30-SKA20-90	4.0-20.0	90	48.5	48.5	65	75	SKC20	1.4	
40	BT30-SKA25-90	16.0-25.4	90	55	55	55	75	SKC25	1.5	
	BT40-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	1.1	●
	BT40-SKA06-120	0.9-6.0	120	20	19.5	21	35	SKC6	1.4	●
	BT40-SKA06-150	0.9-6.0	150	20	19.5	21	35	SKC6	1.5	
	BT40-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1.2	●
	BT40-SKA10-120	1.75-10.0	120	28	27.5	30	50	SKC10	1.4	●
	BT40-SKA10-150	1.75-10.0	150	28	27.5	30	50	SKC10	1.6	
	BT40-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.4	
	BT40-SKA13-120	2.75-13.0	120	33	33	31	65	SKC13	1.6	
	BT40-SKA13-150	2.75-13.0	150	33	40	31	65	SKC13	1.8	
	BT40-SKA16-90	2.75-16.0	90	40	40	45	70	SKC16	1.5	●
	BT40-SKA16-120	2.75-16.0	120	40	40	45	70	SKC16	1.7	●
	BT40-SKA16-150	2.75-16.0	150	40	40	45	70	SKC16	1.9	
	BT40-SKA20-90	4.0-20.0	90	48.5	48.5	47	80	SKC20	1.6	
	BT40-SKA20-120	4.0-20.0	120	48.5	48.5	47	80	SKC20	2	
	BT40-SKA20-150	4.0-20.0	150	48.5	48.5	47	80	SKC20	2.4	
	BT40-SKA25-90	16.0-25.4	90	55	55	55	85	SKC25	1.8	●
	BT40-SKA25-120	16.0-25.4	120	55	55	55	85	SKC25	2	●
	BT40-SKA25-150	16.0-25.4	150	55	55	55	85	SKC25	2.3	

- Feature :
Minimizing interference between tool holder and workpiece by employing slim type design.

SK SLIM CHUCK



JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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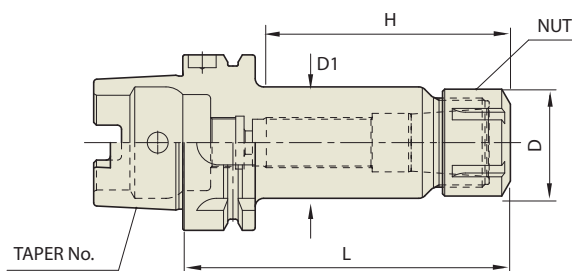
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	C	C1	H		COLLET	Weight (kg)	Stock
						Min	Max			
50	BT50-SKA06-105	0.9-6.0	105	20	19.5	21	35	SKC6	3.8	●
	BT50-SKA06-135	0.9-6.0	135	20	19.5	21	35	SKC6	3.9	●
	BT50-SKA06-165	0.9-6.0	165	20	32.5	21	35	SKC6	4	
	BT50-SKA06-195	0.9-6.0	195	20	32.5	21	35	SKC6	4.2	
	BT50-SKA10-105	1.75-10.0	105	28	27.5	30	50	SKC10	4.2	●
	BT50-SKA10-135	1.75-10.0	135	28	27.5	30	50	SKC10	4.4	●
	BT50-SKA10-165	1.75-10.0	165	28	37.4	30	50	SKC10	4.6	●
	BT50-SKA10-195	1.75-10.0	195	28	37.4	30	50	SKC10	4.8	
	BT50-SKA13-105	2.75-13.0	105	33	33	31	65	SKC13	4.5	
	BT50-SKA13-135	2.75-13.0	135	33	33	31	65	SKC13	4.7	
	BT50-SKA13-165	2.75-13.0	165	33	45	31	65	SKC13	4.9	
	BT50-SKA13-195	2.75-13.0	195	33	45	31	65	SKC13	5.2	
	BT50-SKA16-105	2.75-16.0	105	40	40	45	70	SKC16	4.7	●
	BT50-SKA16-135	2.75-16.0	135	40	40	45	70	SKC16	4.9	●
	BT50-SKA16-165	2.75-16.0	165	40	40	45	70	SKC16	5.1	●
	BT50-SKA16-195	2.75-16.0	195	40	40	45	70	SKC16	5.5	●
	BT50-SKA20-105	4.0-20.0	105	48.5	48.5	47	80	SKC20	4.3	
	BT50-SKA20-135	4.0-20.0	135	48.5	48.5	47	80	SKC20	4.6	
	BT50-SKA20-165	4.0-20.0	165	48.5	48.5	47	80	SKC20	5	
	BT50-SKA20-195	4.0-20.0	195	48.5	48.5	47	80	SKC20	5.4	
	BT50-SKA25-105	16.0-25.4	105	55	55	55	85	SKC25	5.2	●
	BT50-SKA25-135	16.0-25.4	135	55	55	55	85	SKC25	5.4	●
	BT50-SKA25-165	16.0-25.4	165	55	55	55	85	SKC25	5.6	●
	BT50-SKA25-195	16.0-25.4	195	55	55	55	85	SKC25	6	●

- Feature :
Minimizing interference between tool holder and workpiece by employing slim type design.

SK SLIM CHUCK



DIN69893-
HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

Coolant
System
AD

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	D1	L	H		COLLET	Weight (kg)	Stock
						Min	Max			
32A	HSK32A-SKA06-50	0.75 - 6.0	20	19.5	50	21	35	SKC06	0.5	
	HSK32A-SKA10-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.7	
40A	HSK40A-SKA06-60	0.75 - 6.0	20	19.5	60	21	35	SKC06	0.7	
	HSK40A-SKA10-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.9	
	HSK40A-SKA13-80	2.75-13.0	33	33	80	31	65	SKC13	1	
50A	HSK50A-SKA06-80	0.75 - 6.0	20	19.5	80	21	35	SKC06	0.9	
	HSK50A-SKA10-100	1.75 - 10.0	28	27.5	100	30	50	SKC10	1.1	
	HSK50A-SKA13-100	2.75-13.0	33	33	100	31	65	SKC13	1.2	
63A	HSK63A-SKA06-100	0.75 - 6.0	20	19.5	100	21	35	SKC06	1.4	
	HSK63A-SKA10-100	1.75 - 10.0	28	27.5	100	30	50	SKC10	1.6	
	HSK63A-SKA13-100	2.75-13.0	33	33	100	31	65	SKC13	1.7	
	HSK63A-SKA16-120	2.75 - 16.0	40	40	120	45	70	SKC16	1.7	
	HSK63A-SKA20-120	4.0-20.0	48.5	48.5	120	65	75	SKC20	2.1	
	HSK63A-SKA25-150	16.0 - 25.4	55	55	150	55	85	SKC25	2.4	
100A	HSK100A-SKA06-120	0.75 - 6.0	20	19.5	120	21	35	SKC06	4	
	HSK100A-SKA10-150	1.75 - 10.0	28	27.5	150	30	50	SKC10	4.5	
	HSK100A-SKA13-150	2.75-13.0	33	40	150	31	65	SKC13	4.6	
	HSK100A-SKA16-150	2.75 - 16.0	40	40	150	45	70	SKC16	5.1	
	HSK100A-SKA20-150	4.0-20.0	48.5	48.5	150	65	75	SKC20	5.4	
	HSK100A-SKA25-160	16.0 - 25.4	55	55	160	55	85	SKC25	5.5	

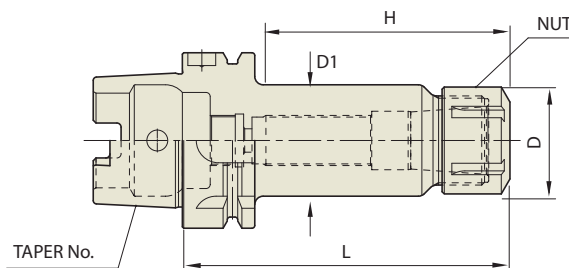
DIN 69893/ISO 12164-1-HSK FORM E

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	D1	L	H		COLLET	Weight (kg)	Stock
						Min	Max			
25E	HSK25E-SKA06-45	0.75-6.0	20	19.5	45	21	21	SKC06		
	HSK25E-SKA10-50	1.75-10.5	28	21.5	50	25	25	SKC10		
32E	HSK32E-SKA06-50	0.75 - 6.0	20	19.5	50	21	35	SKC06	0.5	
	HSK32E-SKA10-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.7	
	HSK40E-SKA06-60	0.75 - 6.0	20	19.5	60	21	35	SKC06	0.7	
40E	HSK40E-SKA010-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.9	
	HSK40E-SKA13-80	2.75-13.0	33	33	80	31	65	SKC13	1	

- Feature :
Minimizing interference between tool holder and workpiece by employing slim type design.

SK SLIM CHUCK



DIN69893-
HSK

Taper
Accuracy

G Value
6.3

RPM
15,000

Coolant
System
AD

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	D1	L	H		COLLET	Weight (kg)	Stock
						Min	Max			
32A	HSK32A-SKA06-50	0.75 - 6.0	20	19.5	50	21	35	SKC06	0.5	
	HSK32A-SKA10-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.7	
40A	HSK40A-SKA06-60	0.75 - 6.0	20	19.5	60	21	35	SKC06	0.7	●
	HSK40A-SKA10-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.9	●
	HSK40A-SKA13-80	2.75-13.0	33	33	80	31	65	SKC13	1	●
50A	HSK50A-SKA06-80	0.75 - 6.0	20	19.5	80	21	35	SKC06	0.9	
	HSK50A-SKA10-100	1.75 - 10.0	28	27.5	100	30	50	SKC10	1.1	
	HSK50A-SKA13-100	2.75-13.0	33	33	100	31	65	SKC13	1.2	
63A	HSK63A-SKA06-100	0.75 - 6.0	20	19.5	100	21	35	SKC06	1.4	●
	HSK63A-SKA10-100	1.75 - 10.0	28	27.5	100	30	50	SKC10	1.6	●
	HSK63A-SKA13-100	2.75-13.0	33	33	100	31	65	SKC13	1.7	
	HSK63A-SKA16-120	2.75 - 16.0	40	40	120	45	70	SKC16	1.7	●
	HSK63A-SKA20-120	4.0-20.0	48.5	48.5	120	65	75	SKC20	2.1	
	HSK63A-SKA25-150	16.0 - 25.4	55	55	150	55	85	SKC25	2.4	●
100A	HSK100A-SKA06-120	0.75 - 6.0	20	19.5	120	21	35	SKC06	4	
	HSK100A-SKA10-150	1.75 - 10.0	28	27.5	150	30	50	SKC10	4.5	
	HSK100A-SKA13-150	2.75-13.0	33	40	150	31	65	SKC13	4.6	
	HSK100A-SKA16-150	2.75 - 16.0	40	40	150	45	70	SKC16	5.1	
	HSK100A-SKA20-150	4.0-20.0	48.5	48.5	150	65	75	SKC20	5.4	
	HSK100A-SKA25-160	16.0 - 25.4	55	55	160	55	85	SKC25	5.5	

SK Slim
Chuck

DIN 69893/ISO 12164-1-HSK FORM E

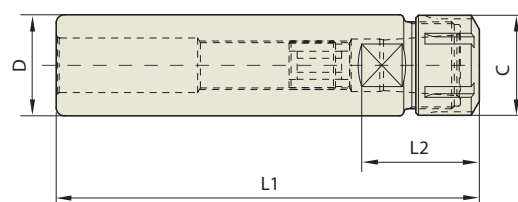
Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	D1	L	H		COLLET	Weight (kg)	Stock
						Min	Max			
32E	HSK32E-SKA06-50	0.75 - 6.0	20	19.5	50	21	35	SKC06	0.5	
	HSK32E-SKA10-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.7	
40E	HSK40E-SKA06-60	0.75 - 6.0	20	19.5	60	21	35	SKC06	0.7	●
	HSK40E-SKA010-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.9	●
	HSK40E-SKA13-80	2.75-13.0	33	33	80	31	65	SKC13	1	●

● Feature :

Minimizing interference between tool holder and workpiece by employing slim type design.

SK SLIM CHUCK



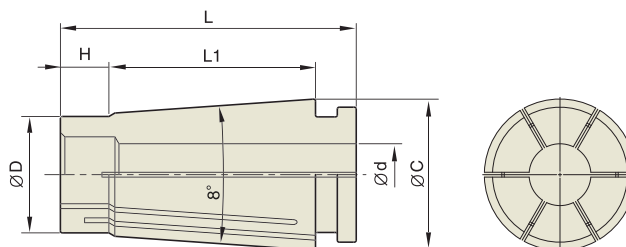
STRAIGHT-K

Unit : mm

TAPER No.	MODEL No.	RANGE	D	C	L1	L2	COLLET	Weight (kg)	Stock
20	K20-SKA06-100	0.75 - 6.0	20	28	100	21 - 35	SKC06	0.2	●
	K20-SKA06-140	0.75 - 6.0	20	28	140	21 - 35	SKC06	0.3	●
	K20-SKA10-100	1.75 - 10.0	28	28	100	30 - 50	SKC10	0.2	●
	K20-SKA10-140	1.75 - 10.0	28	28	140	30 - 50	SKC10	0.3	●
25	K25-SKA06-100	0.75 - 6.0	20	28	100	21 - 35	SKC06	0.3	●
	K25-SKA06-140	0.75 - 6.0	20	28	140	21 - 35	SKC06	0.5	●
	K25-SKA10-100	1.75 - 10.0	28	28	100	30 - 50	SKC10	0.3	●
	K25-SKA10-150	1.75 - 10.0	28	28	150	30 - 50	SKC10	0.5	●
	K25-SKA13-100	2.75-13.0	33	37	100	31 - 65	SKC13	0.4	●
	K25-SKA13-150	2.75-13.0	33	37	150	31 - 65	SKC13	0.6	●
32	K32-SKA10-100	1.75 - 10.0	28	28	100	30 - 50	SKC10	0.5	●
	K32-SKA10-150	1.75 - 10.0	28	28	150	30 - 50	SKC10	0.7	●
	K32-SKA13-100	2.75-13.0	33	37	100	31 - 65	SKC13	1	●
	K32-SKA13-150	2.75-13.0	33	37	150	31 - 65	SKC13	1.2	●
	K32-SKA16-100	2.75 - 16.0	40	47	100	40 - 70	SKC16	1	●
	K32-SKA16-150	2.75 - 16.0	40	47	150	40 - 70	SKC16	1.2	●
	K32-SKA20-100	4.0-20.0	48.5	47	100	47 - 80	SKC20	1.1	●
	K32-SKA20-150	4.0-20.0	48.5	47	150	47 - 80	SKC20	1.3	●

- Feature :
Minimizing interference between tool holder and workpiece by employing slim type design.

SK COLLET



T.I.R of standard collet is 5Um at 3D.
(Special collet with 3Um T.I.R at 3D is available upon request.)

Unit : mm

TYPE	MODEL No.	CLAMPING RANGE (d)	TYPE	MODEL No.	CLAMPING RANGE (d)	TYPE	MODEL No.	CLAMPING RANGE (d)
SKC 6	SKC 6 - 1	0.9 - 1.0	SKC 10	SKC10 - 2	1.75 - 2.0	SKC 13	SKC 13 - 3	2.75 - 3.0
	SKC 6 - 1.5	1.3 - 1.5		SKC10 - 2.5	2.25 - 2.5		SKC 13 - 3.5	3.0 - 3.5
	SKC 6 - 2	1.8 - 2.0		SKC10 - 3	2.75 - 3.0		SKC 13 - 4	3.5 - 4.0
	SKC 6 - 2.5	2.3 - 2.5		SKC10 - 3.5	3.0 - 3.5		SKC 13 - 4.5	4.0 - 4.5
	SKC 6 - 3	2.8 - 3.0		SKC10 - 4	3.5 - 4.0		SKC 13 - 5	4.5 - 5.0
	SKC 6 - 3.5	3.0 - 3.5		SKC10 - 4.5	4.0 - 4.5		SKC 13 - 5.5	5.0 - 5.5
	SKC 6 - 4	3.5 - 4.0		SKC10 - 5	4.5 - 5.0		SKC 13 - 6	5.5 - 6.0
	SKC 6 - 4.5	4.0 - 4.5		SKC10 - 5.5	5.0 - 5.5		SKC 13 - 6.5	6.0 - 6.5
	SKC 6 - 5	4.5 - 5.0		SKC10 - 6	5.5 - 6.0		SKC 13 - 7	6.5 - 7.0
	SKC 6 - 5.5	5.0 - 5.5		SKC10 - 6.5	6.0 - 6.5		SKC 13 - 7.5	7.0 - 7.5
	SKC 6 - 6	5.5 - 6.0		SKC10 - 7	6.5 - 7.0		SKC 13 - 8	7.5 - 8.0
				SKC10 - 7.5	7.0 - 7.5		SKC 13 - 8.5	8.0 - 8.5
				SKC10 - 8	7.5 - 8.0		SKC 13 - 9	8.5 - 9.0
				SKC10 - 8.5	8.0 - 8.5		SKC 13 - 9.5	9.0 - 9.5
				SKC10 - 9	8.5 - 9.0		SKC 13 - 10	9.5 - 10.0
				SKC10 - 9.5	9.0 - 9.5		SKC 13 - 10.5	10.0 - 10.5
				SKC10 - 10	9.5 - 10.0		SKC 13 - 11	10.5 - 11.0
							SKC 13 - 11.5	11.0 - 11.5
							SKC 13 - 12	11.5 - 12.0
							SKC 13 - 12.5	12.0 - 12.5
							SKC 13 - 13	12.5 - 13.0

• Stock Control Item

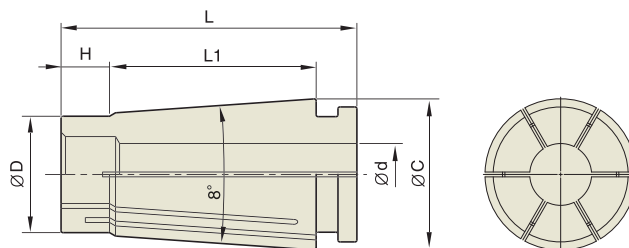
SKC COLLET DIMENSION

Unit : mm

TYPE	D	L	L1	H	C	Weight (kg)	Stock
SKC 6	7.5	25.7	17.6	3.8	10	0.03	
SKC 10	12	32	21.3	5	15	0.04	
SKC 13	15.4	39	28.3	5.5	20		
SKC 16	18.8	46	32	8	24	0.06	
SKC 20	22.5	54.2	41	8	29		
SKC 25	28.9	58.2	43	8.5	35	0.10	

SK Slim
Chuck

SK COLLET



T.I.R of standard collet is 5Um at 3D.
(Special collet with 3Um T.I.R at 3D is available upon request.)

Unit : mm

TYPE	MODEL No.	CLAMPING RANGE (d)	TYPE	MODEL No.	CLAMPING RANGE (d)	TYPE	MODEL No.	CLAMPING RANGE (d)
SKC 16	SKC16 - 3	2.75 - 3.0	SKC 20	SKC 20 - 4	3.5 - 4.0	SKC 25	SKC25 - 16.5	16.0 - 16.5
	SKC16 - 3.5	3.0 - 3.5		SKC 20 - 4.5	4.0 - 4.5		SKC25 - 17	16.5 - 17.0
	SKC16 - 4	3.5 - 4.0		SKC 20 - 5	4.5 - 5.0		SKC25 - 17.5	17.0 - 17.5
	SKC16 - 4.5	4.0 - 4.5		SKC 20 - 5.5	5.0 - 5.5		SKC25 - 18	17.5 - 18.0
	SKC16 - 5	4.5 - 5.0		SKC 20 - 6	5.5 - 6.0		SKC25 - 18.5	18.0 - 18.5
	SKC16 - 5.5	5.0 - 5.5		SKC 20 - 6.5	6.0 - 6.5		SKC25 - 19	18.5 - 19.0
	SKC16 - 6	5.5 - 6.0		SKC 20 - 7	6.5 - 7.0		SKC25 - 19.5	19.0 - 19.5
	SKC16 - 6.5	6.0 - 6.5		SKC 20 - 7.5	7.0 - 7.5		SKC25 - 20	19.5 - 20.0
	SKC16 - 7	6.5 - 7.0		SKC 20 - 8	7.5 - 8.0		SKC25 - 20.5	20.0 - 20.5
	SKC16 - 7.5	7.0 - 7.5		SKC 20 - 8.5	8.0 - 8.5		SKC25 - 21	20.5 - 21.0
	SKC16 - 8	7.5 - 8.0		SKC 20 - 9	8.5 - 9.0		SKC25 - 21.5	21.0 - 21.5
	SKC16 - 8.5	8.0 - 8.5		SKC 20 - 9.5	9.0 - 9.5		SKC25 - 22	21.5 - 22.0
	SKC16 - 9	8.5 - 9.0		SKC 20 - 10	9.5 - 10.0		SKC25 - 22.5	22.0 - 22.5
	SKC16 - 9.5	9.0 - 9.5		SKC 20 - 10.5	10.0 - 10.5		SKC25 - 23	22.5 - 23.0
	SKC16 - 10	9.5 - 10.0		SKC 20 - 11	10.5 - 11.0		SKC25 - 23.5	23.0 - 23.5
	SKC16 - 10.5	10.0 - 10.5		SKC 20 - 11.5	11.0 - 11.5		SKC25 - 24	23.5 - 24.0
	SKC16 - 11	10.5 - 11.0		SKC 20 - 12	11.5 - 12.0		SKC25 - 24.5	24.0 - 24.5
	SKC16 - 11.5	10.0 - 11.5		SKC 20 - 12.5	12.0 - 12.5		SKC25 - 25	24.5 - 25.0
	SKC16 - 12	11.5 - 12.0		SKC 20 - 13	12.5 - 13.0		SKC25 - 25.4	25.0 - 25.4
	SKC16 - 12.5	12.0 - 12.5		SKC 20 - 13.5	13.0 - 13.5			
SKC 20	SKC16 - 13	12.5 - 13.0		SKC 20 - 14	13.5 - 14.0			
	SKC16 - 13.5	13.0 - 13.5		SKC 20 - 14.5	14.0 - 14.5			
	SKC16 - 14	13.5 - 14.0		SKC 20 - 15	14.5 - 15.0			
	SKC16 - 14.5	14.0 - 14.5		SKC 20 - 15.5	15.0 - 15.5			
	SKC16 - 15	14.5 - 15.0		SKC 20 - 16	15.5 - 16.0			
	SKC16 - 15.5	15.0 - 15.5		SKC 20 - 16.5	16.0 - 16.5			
	SKC16 - 16	15.5 - 16.0		SKC 20 - 17	16.5 - 17.0			
				SKC 20 - 17.5	17.0 - 17.5			
				SKC 20 - 18	17.5 - 18.0			
				SKC 20 - 18.5	18.0 - 18.5			
				SKC 20 - 19	18.5 - 19.0			
				SKC 20 - 19.5	19.0 - 19.5			
				SKC 20 - 20.0	19.5 - 20.0			

• Stock Control Item

SK NUT

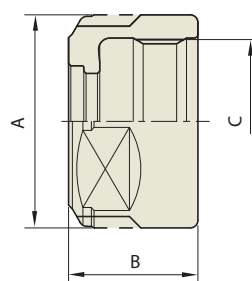


FIG 1

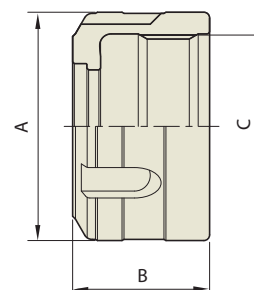


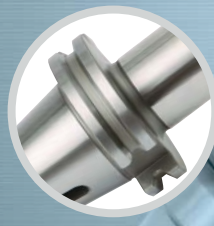
FIG 2

Unit : mm

TYPE	FIG	A	B	C	Weight (kg)
SKN 06	1	20	15	M15.5X1.0	0.02
SKN 10	1	28	17	M21.5X1.0	0.04
SKN 13	2	33	21	M27X1.0	0.05
SKN 16	2	40	24	M32X1.5	0.06
SKN 20	2	48.5	24	M40X1.0	0.08
SKN 25	2	55	30	M42X1.5	0.10

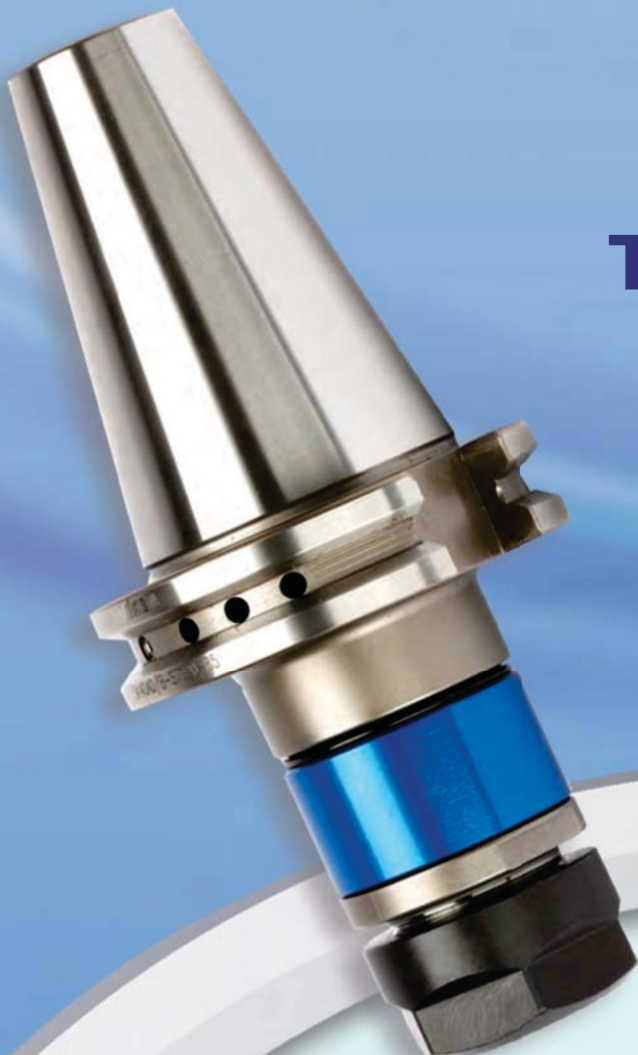
- Stock Control Item

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TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM
NC DRILL CHUCK • BORING SYSTEM

TAPPING ER CHUCK



SYNCHRO TAPPING ER CHUCK

DIN 69871-SK

TAPPING ER CHUCK

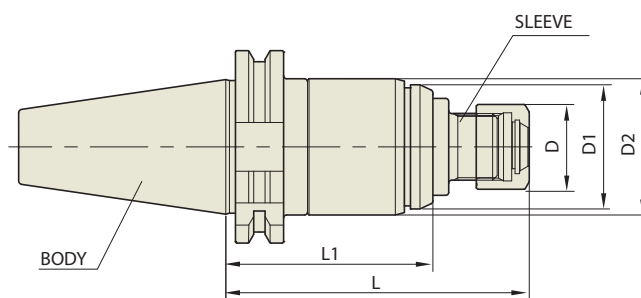
DIN 69871-SK

DIN 69893/ISO 12164-1-HSK

CBT (BT DUAL CONTACT)

JIS B6339 / MAS 403-BT

TAPPING ER CHUCK



DIN 69871 - SK	Taper Accuracy AT3	G Value	RPM	Coolant System
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DIN 69871-SK

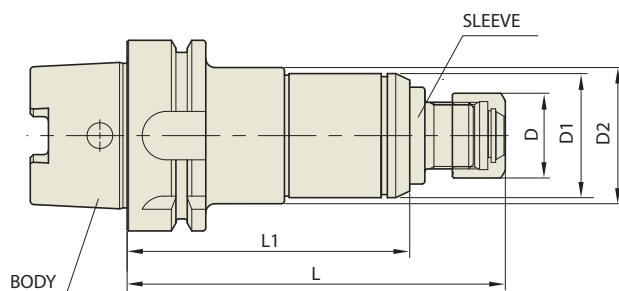
DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT	Weight (kg)	Stock
40	SK40-TER16-100	28	41	45	100	68.4	ER16	1.65	●
	SK40-TER16-150	28	41	45	150	118.4	ER16	1.85	●
	SK40-TER32-130	50	58	63	130	92	ER32	2.10	●
	SK40-TER32-150	50	58	63	150	112	ER32	2.30	●
50	SK50-TER16-115	28	41	45	115	79.4	ER16	4.30	
	SK50-TER16-150	28	41	45	150	114.4	ER16	4.50	
	SK50-TER32-120	50	58	63	120	83	ER32	4.65	
	SK50-TER32-150	50	58	63	150	113	ER32	4.85	

- CAT(ANSI B5.50) taper and Inch type products area available.

TAPPING ER CHUCK



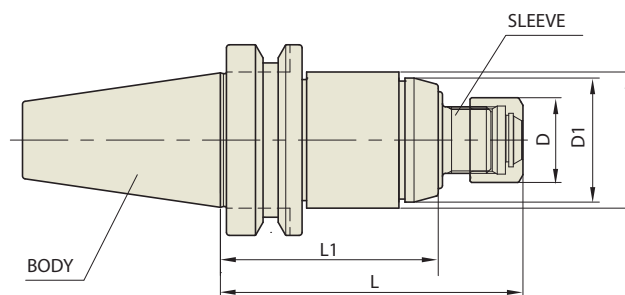
DIN 69893 - HSK	Taper Accuracy	G Value	RPM	Coolant System
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT	Weight (kg)	Stock
50A	HSK50A-TER16-125	28	41	45	125	93.4	ER16	1.20	
	HSK50A-TER16-150	28	41	45	150	118.4	ER16	1.30	
63A	HSK63A-TER16-125	28	41	45	125	93.4	ER16	1.70	●
	HSK63A-TER16-150	28	41	45	150	118.4	ER16	1.85	
	HSK63A-TER32-150	50	58	63	150	112	ER32	2.10	●
	HSK63A-TER32-180	50	58	63	180	142	ER32	2.30	
100A	HSK100A-TER16-130	28	41	45	130	98.4	ER16	4.00	
	HSK100A-TER16-150	28	41	45	150	118.4	ER16	4.20	
	HSK100A-TER32-150	50	58	63	150	112	ER32	4.40	
	HSK100A-TER32-180	50	58	63	180	142	ER32	4.60	

TAPPING ER CHUCK



JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System
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JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT	Weight (kg)	Stock
40	BT40-TER16-100	28	41	45	100	68.4	ER16	1.45	●
	BT40-TER16-150	28	41	45	150	118.4	ER16	2.00	●
	BT40-TER32-110	50	58	63	110	72	ER32	2.20	●
	BT40-TER32-150	50	58	63	150	112	ER32	2.70	●
50	BT50-TER16-115	28	41	45	115	79.4	ER16	3.95	●
	BT50-TER16-150	28	41	45	150	114.4	ER16	4.35	●
	BT50-TER32-120	50	58	63	120	83	ER32	4.70	●
	BT50-TER32-150	50	58	63	150	113	ER32	5.20	●

- CAT(ANSI B5.50) taper and Inch type products area available.

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TAP CHUCK

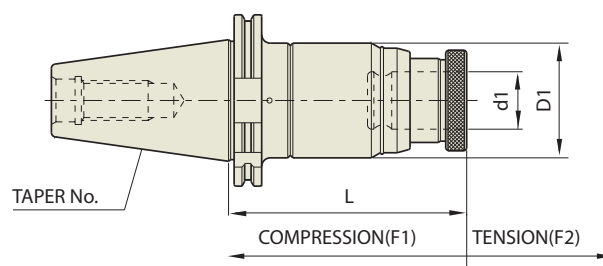


SYNCHRO TAP CHUCK
DIN 69871-SK
DIN 69893/ISO 12164-1-HSK
STRAIGHT-K

TAP CHUCK
DIN 69871-SK
DIN 69893/ISO 12164-1-HSK
CBT (BT DUAL CONTACT)
JIS B6339/MAS 403-BT
STRAIGHT-K
DIN 228-MTA

ACCESSORY
TAP ADAPTER

TAP CHUCK



DIN 69871 - SK	Taper Accuracy AT3	G Value	RPM	Coolant System
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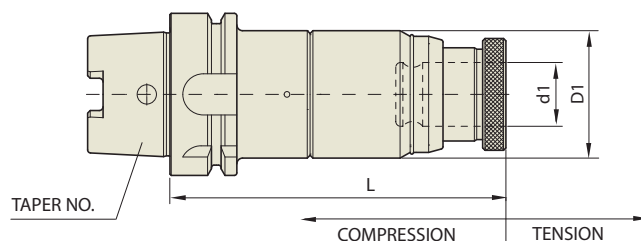
DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	TAP SIZE	d1	D1	L	F1	F2	Weight (kg)	Stock
40	SK40-TC12-90	M3-M12	19	45	90	5	15	1.30	●
	SK40-TC12-130	M3-M12	19	45	130	5	15	1.80	●
	SK40-TC24-120	M6-M24	31	63	120	5	20	2.50	●
	SK40-TC24-142	M6-M24	31	63	142	5	20	2.80	●
50	SK50-TC12-130	M3-M12	19	45	130	5	15	4.30	
	SK50-TC12-175	M3-M12	19	45	175	5	15	5.50	
	SK50-TC24-142	M6-M24	31	63	142	5	20	5.30	
	SK50-TC24-187	M6-M24	31	63	187	5	20	7.80	
	SK50-TC38-175	M18-M38	48	98	175	10	25	7.50	

- CAT(ANSI B5.50) taper and Inch type products are available.

TAP CHUCK



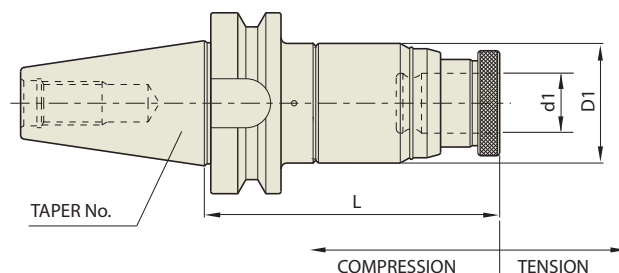
DIN 69893 - HSK	Taper Accuracy	G Value	RPM	Coolant System
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L	Weight (kg)	Stock
			COMP.	TEN.					
50A	HSK50A-TC12-120	M3 ~ M12	5	15	19	45	120	0.8	
63A	HSK63A-TC12-120	M3 ~ M12	5	15	19	45	120	1.00	
	HSK63A-TC12-150	M3 ~ M12	5	15	19	45	150	1.70	
	HSK63A-TC24-142	M6 ~ M24	5	20	31	63	142	2.40	
	HSK63A-TC24-172	M6 ~ M24	5	20	31	63	172	2.70	
100A	HSK100A-TC12-130	M3 ~ M12	5	15	19	45	130	4.30	
	HSK100A-TC12-175	M3 ~ M12	5	15	19	45	175	4.80	
	HSK100A-TC12-220	M3 ~ M12	5	15	19	45	220	5.30	
	HSK100A-TC24-142	M6 ~ M24	5	20	31	63	142	5.20	
	HSK100A-TC24-187	M6 ~ M24	5	20	31	63	187	6.60	
	HSK100A-TC38-200	M18 ~ M38	10	25	48	98	200	8.00	

TAP CHUCK



JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System
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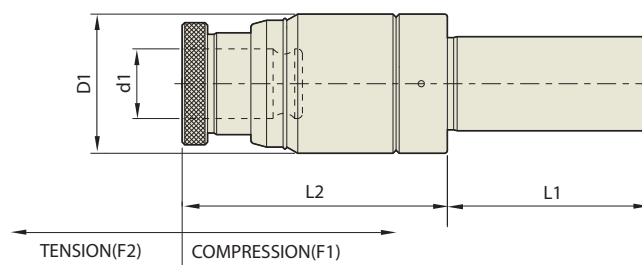
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L	Weight (kg)	Stock
			COMP.	TEN.					
30	BT30-TC12-105	M3~M12	5	15	19	45	105	1.0	●
40	BT40-TC12- 90	M3~M12	5	15	19	45	90	1.5	●
	BT40-TC12-130	M3~M12	5	15	19	45	130	1.6	
	BT40-TC24-100	M6~M24	5	20	31	63	100	2.1	●
	BT40-TC24-142	M6~M24	5	20	31	63	142	2.9	
50	BT50-TC12-130	M3~M12	5	15	19	45	130	4.2	●
	BT50-TC12-175	M3~M12	5	15	19	45	175	4.8	●
	BT50-TC12-220	M3~M12	5	15	19	45	220	5.1	
	BT50-TC24-142	M6~M24	5	20	31	63	142	5.8	●
	BT50-TC24-187	M6~M24	5	20	31	63	187	6.0	●
	BT50-TC38-175	M18~M38	10	25	48	98	175	8.3	●

- CAT(ANSI B5.50) taper and Inch type products are available.

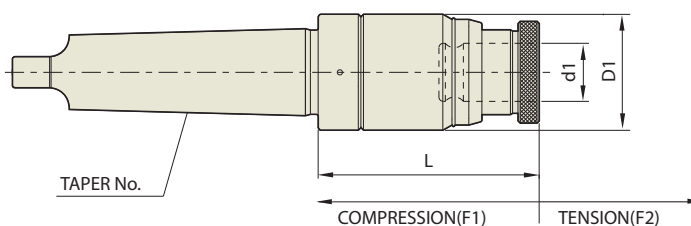
TAP CHUCK



STRAIGHT-K

Unit : mm

TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L1	L2	Weight (kg)	Stock
			COMP.	TEN.						
32	K32-TC12-100	M3-M12	5	15	32	45	60	100	0.90	●
	K32-TC24-120	M6-M24	5	20	32	63	60	120	1.40	●
42	K42-TC12-100	M3-M12	5	15	42	45	70	100	1.10	
	K42-TC24-120	M6-M24	5	20	42	63	70	120	1.60	



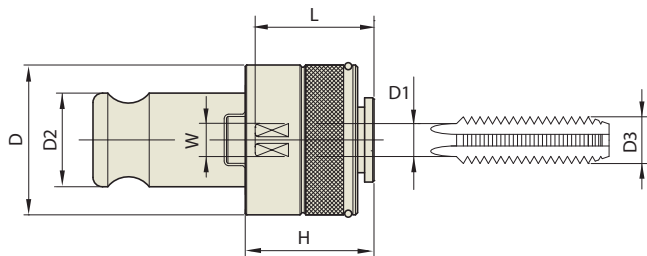
Tap Chuck

DIN 228-MTA

Unit : mm

TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L	Weight (kg)	Stock
			COMP.	TEN.					
3	MTA3-TC12- 90	M3-M12	5	15	19	45	90	1.00	
	MTA3-TC24-115	M6-M24	5	20	31	63	115	2.00	
4	MTA4-TC12-105	M3-M12	5	15	19	45	105	1.20	
	MTA4-TC24-115	M6-M24	5	20	31	63	115	2.20	
5	MTA5-TC12-145	M3-M12	5	15	19	45	145	1.50	
	MTA5-TC24-175	M6-M24	5	20	31	63	175	2.60	

TAP ADAPTER (JIS)



Below standard Tap Adaptor conforms to **JIS**.

Unit : mm

TYPE	MODEL No.	D	D1(Ø)	D2	D3	H	W(□)	L	Weight (kg)
TCS12	TCS12-M3	32	4	19	3	25	3.2	24	0.18
	TCS12-M4	32	5	19	4	25	4.	24	0.18
	TCS12-M5	32	5.5	19	5	25	4.5	24	0.18
	TCS12-M6, U1/4	32	6	19	6	25	4.5	24	0.18
	TCS12-M8	32	6.2	19	8	25	5	25	0.18
	TCS12-M10, U3/8	32	7	19	10	25	5.5	25	0.18
	TCS12-M12	32	8.5	19	12	25	6.5	26	0.18
TCS24	TCS24-M6	52	6	31	6	33	4.5	38	0.60
	TCS24-M8	52	6.2	31	8	33	5	38	0.60
	TCS24-M10	52	7	31	10	33	5.5	38	0.60
	TCS24-M12	52	8.5	31	12	33	6.5	39	0.60
	TCS24-M14, U3/4	52	10.5	31	14	33	8	41	0.60
	TCS24-M16	52	12.5	31	16	33	10	43	0.60
	TCS24-M18, P3/8	52	14	31	18	33	11	43	0.60
	TCS24-M20	52	15	31	20	33	12	43.5	0.60
	TCS24-M22, U7/8	52	17	31	22	33	13	46	0.60
	TCS24-M24, PF5/8	52	19	31	24	33	15	46	0.60
TCS38	TCS38-M18	72	14	48	18	45	11	43	1.80
	TCS38-M20	72	15	48	20	45	12	43.5	1.80
	TCS38-M22	72	17	48	22	45	13	45	1.80
	TCS38-M24	72	19	48	24	45	15	45	1.80
	TCS38-M27, U1	72	20	48	27	45	15	62	1.80
	TCS38-M30, PT3/4	72	23	48	30	45	17	64	1.80
	TCS38-M33	72	25	48	33	45	19	66	1.80
	TCS38-M36 / M38	72	28	48	38	45	21	68	1.80

Tap Chuck

- Stock Control Item
- Feature : Quick Change Type with Built-in Torque Safety Device

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FACE MILL SYSTEM



FACE MILL ARBOR

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT
FMA

DIN 69893/ISO12164-1-HSK
FMA

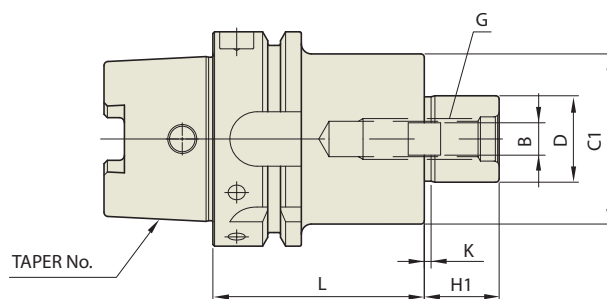
ANSI B5.18-NT
FMA

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT
FMB
FMC

DIN 69893/ISO12164-1-HSK
FMC

FACE MILL ARBOR



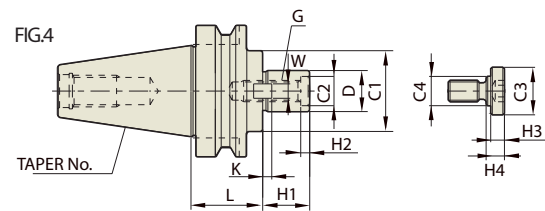
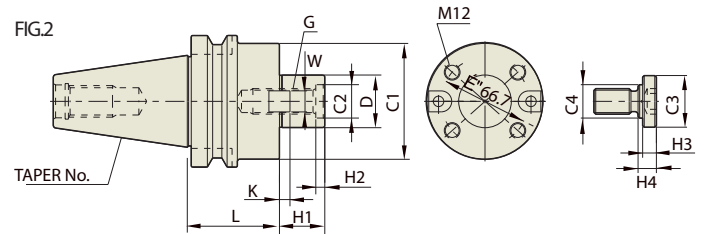
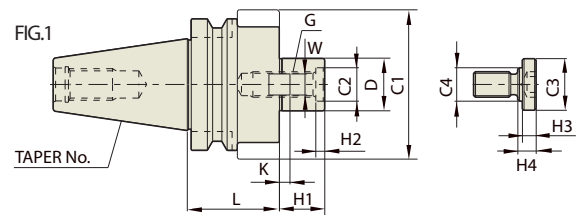
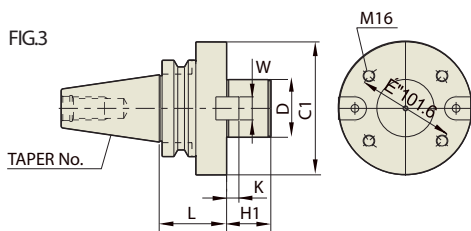
DIN 69893 - HSK	Taper Accuracy	G Value 6.3	RPM 15,000	Coolant System AD
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	D	C1	L	H1	B	K	G	Weight (kg)	Stock
40A	HSK40A-FMA25.4-50	25.4	50	50	22	9.5	5	M12		
50A	HSK50A-FMA25.4-60	25.4	50	60	22	9.5	5	M12		
63A	HSK63A-FMA25.4-45	25.4	50	45	22	9.5	5	M12		
	HSK63A-FMA31.75-50	31.75	60	50	30	12.7	7	M16		
100A	HSK100A-FMA25.4-45	25.4	50	45	22	9.5	5	M12		
	HSK100A-FMA31.75-50	31.75	60	50	30	12.7	7	M16		
	HSK100A-FMA38.1-55	38.1	80	55	34	15.9	9	M20		
	HSK100A-FMA50.8-60	50.8	100	60	36	19.05	10	M24		

FACE MILL ARBOR



JIS B6339/MAS 403-BT

• METRIC TYPE

JIS B6339 - BT	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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Unit : mm

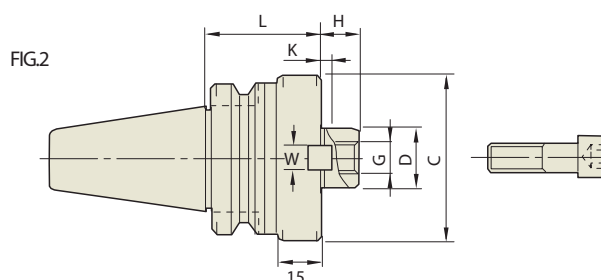
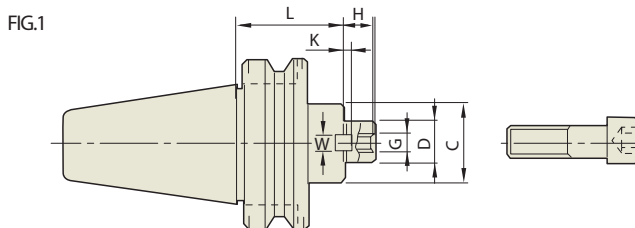
TAPER No.	MODEL No.	D	L	C1	C2	H1	H2	W	K	G	C3	C4	H3	H4	FIG.	Weight (kg)	Stock
30	BT30-FMB27- 40	27	40	80	-	26	-	12	6	M12	33	23	10	10	4	2.1	
40	BT40-FMB27- 60	27	60	80	-	26	-	12	6	M12	33	23	10	10	4	2.5	
	BT40-FMB27- 90	27	90	80	-	26	-	12	6	M12	33	23	10	10	4	4.7	
	BT40-FMB40- 60	40	60	85	28	26	6	16	8.5	M20	50	27	14	20	4	7.4	
50	BT50-FMB27- 45	27	45	80	-	26	-	12	6	M12	33	23	10	12	1	4.0	
	BT50-FMB27- 90	27	90	80	-	26	-	12	6	M12	33	23	10	12	1	5.8	
	BT50-FMB27-150	27	150	80	-	26	-	12	6	M12	33	23	10	12	1	8.2	
	BT50-FMB40- 45	40	45	85	28	26	6	16	8.5	M20	50	27	14	20	1	4.7	●
	BT50-FMB40- 75	40	75	85	28	26	6	16	8.5	M20	50	27	14	20	1	6.1	●
	BT50-FMB40-105	40	105	85	28	26	6	16	8.5	M20	50	27	14	20	1	8.1	
	BT50-FMB40F-75	40	75	110	28	26	6	16	8.5	M20	50	27	14	20	2	6.6	●
	BT50-FMB60- 75	60	75	140	-	25	-	25.4	12.5	-	-	-	-	-	3	7.9	●

• INCH TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C1	C2	H1	H2	W	K	G	C3	C4	H3	H4	FIG.	Weight (kg)	Stock
30	BT30-FMB25.4-40	25.4	40	80	-	26	-	9.5	5	M12	33	23	10	12	4	2.1	
40	BT40-FMB25.4-60	25.4	60	80	-	26	-	9.5	5	M12	33	23	10	12	4	2.5	
	BT40-FMB25.4-90	25.4	90	80	-	26	-	9.5	5	M12	33	23	10	12	4	4.7	
	BT40-FMB38.1-60	38.1	60	85	28	26	6	15.9	9	M20	60	27	14	20	4	7.4	
50	BT50-FMB25.4-45	25.4	45	80	-	26	-	9.5	5	M12	33	23	10	12	1	4.0	
	BT50-FMB25.4-90	25.4	90	80	-	26	-	9.5	5	M12	33	23	10	12	1	5.8	
	BT50-FMB25.4-150	25.4	150	80	-	26	-	9.5	5	M12	33	23	10	12	1	8.2	
	BT50-FMB38.1-45	38.1	45	85	28	26	6	15.9	9	M20	50	27	14	20	1	4.7	
	BT50-FMB38.1-75	38.1	75	85	28	26	6	15.9	9	M20	50	27	14	20	1	6.1	
	BT50-FMB38.1-105	38.1	105	85	28	26	6	15.9	9	M20	50	27	14	20	1	8.7	
	BT50-FMB38.1F-75	38.1	75	110	28	26	6	15.9	9	M20	50	27	14	20	2	6.6	

FACE MILL ARBOR



JIS B6339 - BT	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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JIS B6339/MAS 403-BT

• METRIC TYPE

Unit : mm

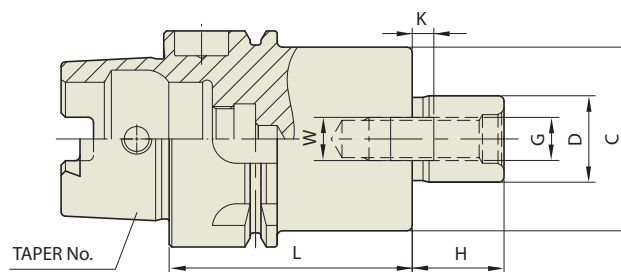
TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	Weight (kg)	Stock
30	BT30-FMC22- 45	22	45	45	18	10	5	M10	2	0.8	•
40	BT40-FMC22- 45	22	45	45	18	10	5	M10	1	1.3	•
	BT40-FMC27- 60	27	60	70	20	12	6	M12	2	1.5	•
	BT40-FMC32- 60	32	60	85	22	14	7	M16	2	2.3	•
	BT40-FMC32- 105	32	105	85	22	14	7	M16	1	5.5	•
50	BT50-FMC22- 60	22	60	45	18	10	5	M10	1	4.2	
	BT50-FMC22-105	22	105	45	18	10	5	M10	1	4.7	•
	BT50-FMC22-150	22	150	45	18	10	5	M10	1	5.3	•
	BT50-FMC27- 45	27	45	70	20	12	6	M12	1	4.1	
	BT50-FMC27- 90	27	90	70	20	12	6	M12	1	5.5	•
	BT50-FMC27-150	27	150	70	20	12	6	M12	1	7.3	
	BT50-FMC32- 60	32	60	85	22	14	7	M16	1	4.2	
	BT50-FMC32-105	32	105	85	22	14	7	M16	1	5.5	•
	BT50-FMC32-150	32	150	85	22	14	7	M16	1	7.0	

• INCH TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	Weight (kg)	Stock
30	BT30-FMC25.4- 45	25.4	45	70	20	9.5	6	M12	2	1.1	
40	BT40-FMC25.4- 60	25.4	60	70	20	9.5	6	M12	2	1.5	
	BT40-FMC25.4- 90	25.4	90	70	20	9.5	6	M12	2	2.2	
	BT40-FMC38.1- 60	38.1	60	85	22	15.9	7	M16	2	2.3	
	BT40-FMC38.1- 75	38.1	75	85	22	15.9	7	M16	2	2.6	
50	BT50-FMC25.4- 45	25.4	45	70	20	9.5	6	M12	1	4.1	
	BT50-FMC25.4- 90	25.4	90	70	20	9.5	6	M12	1	5.5	
	BT50-FMC25.4-150	25.4	150	70	20	9.5	6	M12	1	7.3	
	BT50-FMC38.1- 45	38.1	45	85	22	15.9	7	M16	1	4.2	
	BT50-FMC38.1- 75	38.1	75	85	22	15.9	7	M16	1	5.5	
	BT50-FMC38.1-105	38.1	105	85	22	15.9	7	M16	1	7.0	

FACE MILL ARBOR



DIN 69893 - HSK	Taper Accuracy	G Value G6.3	RPM 15,000	Coolant System AD
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	D	C	L	H	W	K	G	Weight (kg)	Stock
40A	HSK40A-FMC16-45	16	34	45	17	8	4	M8	0.40	
	HSK40A-FMC22-50	22	45	50	18	10	5	M10	0.50	●
	HSK40A-FMC27-60	27	68	60	20	12	7	M12	0.70	
50A	HSK50A-FMC16-40	16	34	40	17	8	4	M8		
	HSK50A-FMC22-50	22	45	50	18	10	5	M10		
	HSK50A-FMC27-60	27	70	60	20	12	6	M12		
63A	HSK63A-FMC22-45	22	45	45	18	10	5	M10		●
	HSK63A-FMC27-60	27	70	60	20	12	6	M12		●
	HSK63A-FMC32-60	32	85	60	22	14	7	M16		●
100A	HSK100A-FMC22-50	22	45	50	18	10	5	M10		
	HSK100A-FMC27-60	27	70	60	20	12	6	M12		
	HSK100A-FMC32-60	32	85	60	22	14	7	M16		

The Top Leader of World Toolholder Industry



HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM
NC DRILL CHUCK • BORING SYSTEM



NC DRILL CHUCK

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT

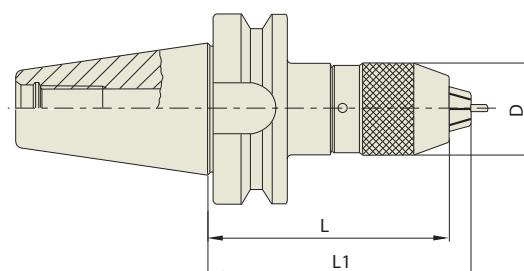
DIN 69893/ISO12164-1-HSK

STRAIGHT-K

JACOBS TAPER ADAPTER

JIS B6339/MAS 403-BT

NC DRILL CHUCK



JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System
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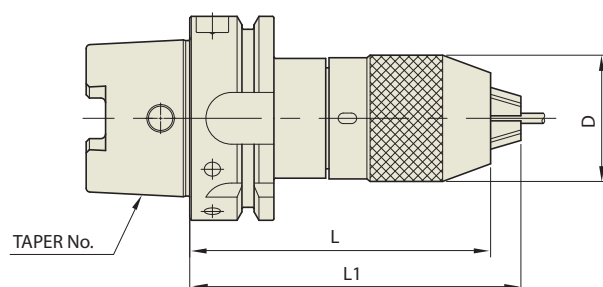
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	RANGE	D	L(MIN)	L1(MAX)	Weight (kg)	Stock
30	BT30-NPU 8- 70	0.3~8	36.5	70	75.7	0.80	●
	BT30-NPU13-100	1~13	50.4	100	110	1.80	●
40	BT40-NPU 8- 70	0.3~8	36.5	70	75.7	1.50	●
	BT40-NPU 8-110	0.3~8	36.5	110	115.7	1.80	
	BT40-NPU 8-150	0.3~8	36.5	150	155.7	2.60	
	BT40-NPU13- 90	1~13	50.4	90	95.7	2.10	●
	BT40-NPU13-130	1~13	50.4	130	140	2.70	●
	BT40-NPU13-150	1~13	50.4	150	160	3.40	
50	BT50-NPU 8- 90	0.3~8	36.5	90	95.7	4.20	
	BT50-NPU 8-110	0.3~8	36.5	110	115.7	4.50	●
	BT50-NPU 8-170	0.3~8	36.5	170	180.7	5.20	●
	BT50-NPU13-100	1~13	50.4	100	110	4.80	●
	BT50-NPU13-130	1~13	50.4	130	140	5.20	●
	BT50-NPU13-150	1~13	50.4	150	160	5.50	●
	BT50-NPU13-190	1~13	50.4	190	200	5.90	●

- Chucking Length
- NPU8 : 20mm
- NPU13 : 28mm
- CAT(ANSI B5.50) taper and Inch type products area available.

NC DRILL CHUCK

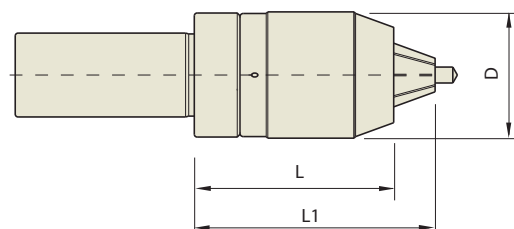


DIN 69893 - HSK	Taper Accuracy	G Value	RPM	Coolant System
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	CAPACITY	D	L(MIN)	L1(MAX)	Weight (kg)	Stock
40A	HSK40A-NPU 8-120	0.3 - 8	36.5	120	125.7	1	
50A	HSK50A-NPU 8-120	0.3 - 8	36.5	120	125.7	1.2	
	HSK50A-NPU13-150	1 - 13	50.4	150	160	2.1	
63A	HSK63A-NPU 8-125	0.3 - 8	36.5	125	130.7	2.1	
	HSK63A-NPU13-150	1 - 13	50.4	150	150	3	●
100A	HSK100A-NPU 8-130	0.3 - 8	36.5	130	135.7	4.8	
	HSK100A-NPU13-1510	1 - 13	50.4	150	160	5.5	



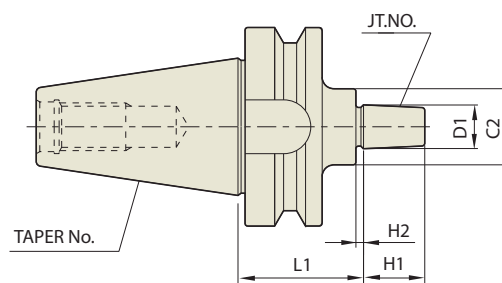
STRAIGHT-K

Unit : mm

STYLE	MODEL No.	RANGE	D	L(MIN)	L1(MAX)	d	Weight (kg)	Stock
32	K32-NPU 8- 70	0.3~8	36.5	70	75.7	32	0.70	●
	K32-NPU13-100	1~13	50.4	100	110	32	1.50	●
42	K42-NPU 8- 70	0.3~8	36.5	70	75.7	42	0.80	
	K42-NPU13-100	1~13	50.4	100	110	42	1.60	

NC Drill
Chuck

JACOBS TAPER ADAPTER



JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System
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JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	JT. No.	D1	L1	H1	H2	C1	Weight (kg)	Stock
30	BT30-JTA 1-45	1	9.754	45	14	3	30	0.9	
	BT30-JTA 2-45	2	14.199	45	20	4	30	1.0	
	BT30-JTA 6-45	6	17.17	45	24	4	30	1.0	●
40	BT40-JTA 1-45	1	9.754	45	14	3	30	1.1	
	BT40-JTA 1-90	1	9.754	90	14	3	30	1.1	
	BT40-JTA2S-45	2Shot	13.94	45	18	3	30	1.4	
	BT40-JTA2S-90	2Shot	13.94	90	18	3	30	1.4	
	BT40-JTA 2-45	2	14.199	45	20	4	30	1.1	
	BT40-JTA 2-90	2	14.199	90	20	4	30	1.4	
	BT40-JTA33-45	33	15.85	45	24	4	30	1.1	
	BT40-JTA33-90	33	15.85	90	24	4	30	1.4	
	BT40-JTA 6-45	6	17.17	45	24	4	30	1.1	●
	BT40-JTA 6-90	6	17.17	90	24	4	30	1.4	●
	BT40-JTA 3-45	3	20.599	45	28	5	35	1.2	
	BT40-JTA 3-90	3	20.599	90	28	5	35	1.5	
50	BT50-JTA 1-45	1	9.754	45	14	3	30	4.0	
	BT50-JTA 1-105	1	9.754	105	14	3	30	4.4	
	BT50-JTA2S-45	2Shot	13.94	45	18	3	30	4.0	
	BT50-JTA2S-105	2Shot	13.94	105	18	3	30	4.4	
	BT50-JTA 2-45	2	14.199	45	20	4	30	4.0	
	BT50-JTA 2-105	2	14.199	105	20	4	30	4.4	
	BT50-JTA33-45	33	15.85	45	24	4	30	4.0	
	BT50-JTA33-105	33	15.85	105	24	4	30	4.4	
	BT50-JTA 6-45	6	17.17	45	24	4	30	4.0	●
	BT50-JTA 6-105	6	17.17	105	24	4	30	4.4	●
	BT50-JTA 3-45	3	20.599	45	28	5	35	4.0	
	BT50-JTA 3-105	3	20.599	105	28	5	35	4.6	

- CAT(ANSI B5.50) taper and Inch type products area available.

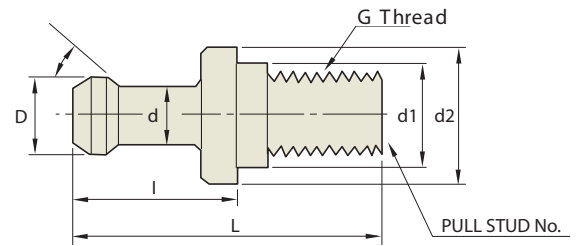


ANGLE HEAD

JIS B6339/MAS 403-BT
INTEGRAL TYPE
MODULAR TYPE

PULL STUD BOLT & PULL STUD BOLT SPANNER

PULL STUD BOLT

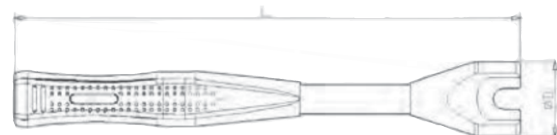


Unit : mm

MODEL No.	D	d2	d1	d	L	I	G		TYPE
PS-1	15	23	17	10	60	35	M16	45 ㊦	BT40- I standard type
PS-2	15	23	17	10	60	35	M16	60 ㊦	BT40- II standard type
PS-5	23	38	25	17	85	45	M24	45 ㊦	BT50- I standard type
PS-6	23	38	25	17	85	45	M24	60 ㊦	BT50- II standard type
PS-16	11	16.5	12.5	7	43	23	M12	45 ㊦	BT30- I standard type
PS-17	11	16.5	12.5	7	43	23	M12	60 ㊦	BT30- II standard type
PS-0	23	38	25	17	85	45	M24	90 ㊦	For BT50 OKK
PS-08	15	23	17	10	60	35	M16	90 ㊦	For BT40 OKK
PS-P	24	36	25	18	71	31	M24	90 ㊦	For BT50 MITSUI SEIKI
PS-P5	15	23	17	10	50	25	M16	90 ㊦	For BT40 MITSUI SEIKI
PS-G41	29	37	25	21	65.2	25.2	M24	45 ㊦	For BT50 MASAK
PS-G51	18.8	22	17	12.45	44.1	19.1	M16	45 ㊦	For BT40 MASAK
PS-S2	25	39	25	18	95	55	M24	60 ㊦	For SHIN NIPPON KOKI
PS-F1	23	39	25	18	104	64	M24	45 ㊦	For MITSUBISHI
PS-B1	22	38	25	16	112	72	M24	60 ㊦	For OKUMA
PSS-1	19	23	17	14	54	26	M16	75 ㊦	For SK40
PSS-5	28	36	25	21	74	34	M24	75 ㊦	For SK50

- Stock Control Item
- Upon requests, other pull stud bolts with special dimensions could be produced and supplied.
- Through hole type ("H"type) is available upon request.

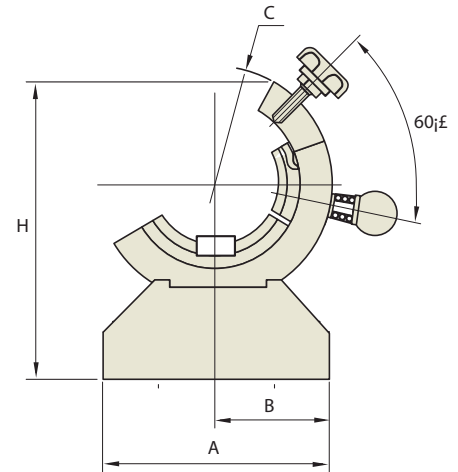
PULL STUD BOLT SPANNER



Unit : mm

MODEL No.	D	L	Weight(Kg)	For
PSWB-30	27	210	0.3	BT30
PSWB-40	37	230	0.4	BT40
PSWB-50	49	280	0.8	BT50

TOOL CLAMP



• Flange Clamping Design

Unit : mm

TAPER No.	MODEL No.	A	B	C	H	Weight (kg)
BT30	TCP30	125	65	108	135	3.0
BT40	TCP40	160	80	138	180	7.6
BT50	TCP50	180	90	165	205	8.6
SK30	TSK30	125	65	108	135	3.0
SK40	TSK40	160	80	138	180	7.6
SK50	TSK50	180	90	165	205	8.6
HSK32/40/50	THSK32/40/50	125	65	108	135	
HSK63	THSK63	160	80	138	180	
HSK100	THSK100	180	90	165	205	

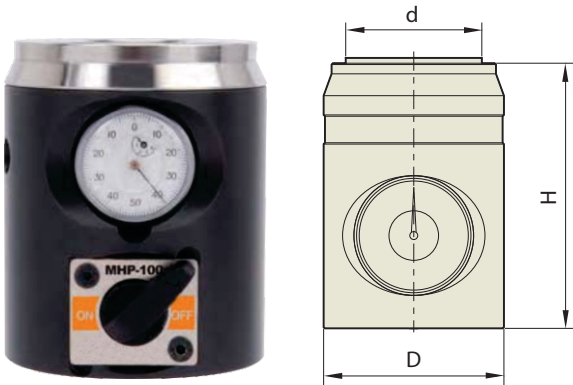
- Tool clamp for CAT taper could be supplied.
- **Stock Control Item**

• Features

- 1.No surface damage such as abrasion and scratch around taper shank closely associated with tool runout
- 2.Easy to assemble and disassemble pull stud bolt
- 3.Convenient and safe when using spanner wrench with milling chuck or ER collet chuck

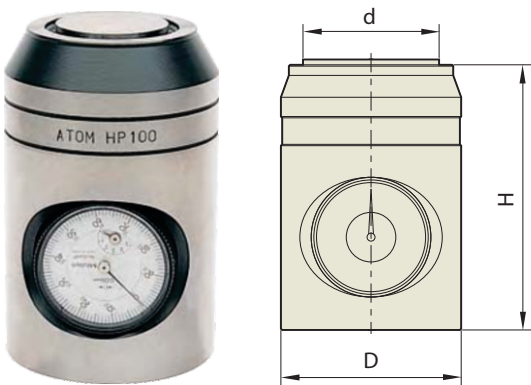
HEIGHT PRESETTER

· MAGNETIC HEIGHT PESETTER



- Both vertical and horizontal type usable
- Slim design

· HEIGHT PRESETTER



- Exclusively for vertical

Unit : mm

MODEL No.	D	H	d	DIAL
MHP-100(magnetic)	76	100	33	0.01
HP-100	68	100 #/- 0.01	33	0.01