

ISO 9001 & 14001

E2023-E2024

E2023-E2024

WORLD BEST QUALITY & PRIDE

SSK

TOOLING SYSTEM



SSK TOOLING SYSTEM

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THE WORLD LEADER IN THE TOOL HOLDER INDUSTRY

SSK manufactures and supplies wide variety of quality Tool Holders to the customer, and the customer may choose the most suitable Tool Holder according to the customer's specific machining application in every industry. We hope our valuable customers should enjoy the best competitiveness of SSK Tool Holder that is assured by providing impeccable products with excellent quality and the highest price performance ratio.



SSK TOOL CO., LTD.

- Apr. 1982** Founded SSK Tool Co., Ltd.
- Aug. 1983** Authorized as an "Excellent Quality Management Enterprise" by Ministry of Commerce & Industry
- Oct. 1990** Awarded "Super Precision Machining Technology Enterprise" by Ministry of Commerce & Industry
- Apr. 2001** Certified ISO 9001 by TÜV
- Apr. 2004** Founded Super Century Tool Company at Qingdao, China
- Mar. 2006** Awarded "Tower of Export" from the President of Korea
- May 2009** Acquired a patent for Hydraulic Chuck clamping unit
- Nov. 2011** Launched Fine Boring System
- Nov. 2011** Designated as a "Exemplary Vision Enterprise" of Technology Revolution by Incheon City Government
- Jun. 2013** Certified ISO 14001 by SBCR
- Aug. 2013** Launched Synchronized Tap Chuck
- Dec. 2013** Launched CBT (BT Dual Contact) products
- Apr. 2016** Completed New Factory and Office Building
- Jan. 2017** Launched Extra Slim Shrink Fit Holder
- Jul. 2017** Launched High Clamping Power Hydraulic Chuck, "Power E Hydro"
- Apr. 2018** Selected as a Small Giant Company of Korea by Ministry of SMEs and Startups
- Feb. 2020** Launched One Step Tapping Chuck
- Apr. 2023** Founded Super Century India Tool Pvt. Ltd. at Bengaluru, India
Selected as a Global Small Giant Company of Korea by Ministry of SMEs and Startups

SSK TOOLING SYSTEM PRODUCT INDEX

HYDRAULIC CHUCK




TOOL LENGTH PRE-SETTING TYPE  SK : 034P CBT : 084P BT : 114P HSK : 174P	POWER E HYDRO  SK : 035P CBT : 085P BT : 115P HSK : 175P	STANDARD  SK : 036P CBT : 086~087P BT : 116~117P HSK : 176~179P DIN 228-MTB : 256P	ULTRA SHORT  SK : 037P BT : 118P
SLIM  SK : 038P CBT : 088P BT : 119P HSK : 180P	GRINDER  SK : 039P	LONG & SLIM NEW  HSK : 181P	

SHRINK FIT CHUCK

EXTRA SLIM  SK : 040P BT : 120~121P HSK : 182~183P	STANDARD  SK : 041~043P CBT : 089~091P BT : 122~124P HSK : 184~187, 192P ISO : 246P	COOLANT CHANNEL  SK : 044~046P CBT : 092~094P BT : 125~127P HSK : 188~190P	REINFORCED  SK : 047P BT : 128P HSK : 191P
CURVED NEW  SK : 048P BT : 129P HSK : 193~194P	MQL1 NEW  HSK : 195P	EXTENSION  STRAIGHT-ST : 232~233P	

※ Product design and technical data in the contents are subject to change for improving quality or performance of products without prior notice.

ER COLLET CHUCK

STANDARD  SK : 049~052P CBT : 095~096P BT : 130~134P HSK : 196~199P STRAIGHT : 234P DIN 228-MTA : 252P DIN 228-MTB : 257P GOST : 259P	SLIM  SK : 053~054P CBT : 097P BT : 135~136P HSK : 200~203P STRAIGHT : 235~236P ISO : 247P	TENSION ER CHUCK (For Tapping)  STRAIGHT : 237P
For CNC Lathe  NC : 238P		

END MILL HOLDER & SIDE LOCK ARBOR

SHORT  SK : 055P BT : 137P	COOLANT CHANNEL  SK : 057, 060P BT : 139, 142P HSK : 205, 207P	STANDARD  SK : 056, 058, 059P CBT : 098P BT : 138, 140, 141P HSK : 204, 206P GOST : 260P	SIDE LOCK ARBOR  CBT : 099P BT : 143~144P
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SHELL MILL ARBOR

STANDARD	COOLANT CHANNEL & SMALL FACE	COOLANT CHANNEL & LARGE FACE	FLANGE MOUNTING
 <p>SK : 061P CBT : 100P BT : 145P HSK : 208P GOST : 261P</p>	 <p>SK : 062P CBT : 101P BT : 146P HSK : 209P</p>	 <p>SK : 063P CBT : 102P BT : 147P HSK : 210P</p>	 <p>SK : 064P BT : 148P HSK : 211P</p>
<h3>COMBI-SHELL MILL ARBOR</h3>  <p>SK : 065P CBT : 103P BT : 149P HSK : 212P ISO : 249P</p>			

SK SLIM CHUCK

SK SLIM CHUCK
 <p>SK : 069~072P CBT : 106~107P BT : 154~157P HSK : 216~218P STRAIGHT-K : 239P ISO : 248P</p>

SYNCHRO TAPPING CHUCK

ER COLLET TYPE	QUICK CHANGE (ADAPTOR) TYPE
 <p>SK : 073P BT : 158P HSK : 219P STRAIGHT-KW : 240P</p>	 <p>SK : 074P HSK : 220P STRAIGHT-KW : 241P</p>

POWER MILLING CHUCK

HIGH-SPEED	STANDARD
 <p>SK : 066P CBT : 104P BT : 150P HSK : 213P</p>	 <p>SK : 067P CBT : 105P BT : 151P HSK : 214P DIN 228-MTA : 253P DIN 228-MTB : 258P</p>



MORSE TAPER ARBOR

MORSE TAPER ARBOR
 <p>SK : 068P BT : 152~153P HSK : 215P NT : 250P GOST : 262P</p>

ONE STEP TAPPING

ONE STEP TAPPING CHUCK
 <p>SK : 075P BT : 159P HSK : 221P STRAIGHT-KW : 242P</p>

TAPPING CHUCK

ER COLLET TYPE	TAP ADAPTOR TYPE
 <p>SK : 076P CBT : 108P BT : 160P HSK : 222P</p>	 <p>SK : 077P BT : 161P HSK : 223P STRAIGHT-K : 243P DIN 228-MTA : 254P</p>

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FACE MILL ARBOR



COPY MILL ARBOR



INDEXABLE DRILL HOLDER



NC DRILL CHUCK



SIDE CUTTER ARBOR



JACOBS TAPER ARBOR



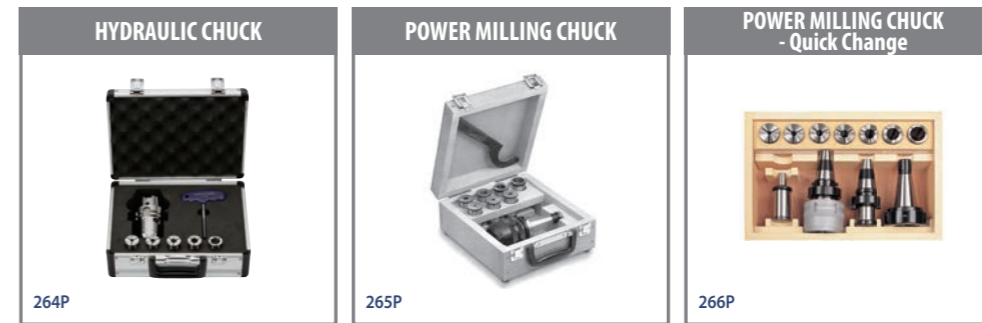
BLANK BAR



TEST BAR



TOOL HOLDER SET



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BORING SYSTEM

BASIC HOLDER  SK : 270P BT : 271~272P HSK : 273P	FINE BORING HEAD & INSERT HOLDER  274P	ROUGH BORING HEAD & CARTRIDGE  275P	EXTENSION BAR  276P
REDUCTION BAR  277P	TYPICAL CONFIGURATION OF FINE BORING BAR  SK : 278~279P BT : 280~281P HSK : 282~283P	TYPICAL CONFIGURATION OF ROUGH BORING BAR  SK : 284P BT : 285~286P HSK : 287~288P STRAIGHT-ST : 289P	BASIC HOLDER (Big Bore)  SK : 291P BT : 291P
FINE BORING HEAD (Big Bore)  BT : 292P	PLATE & CARTRIDGE (Big Bore)  293P	FINE BORING BAR (Big Bore)  BT : 294P	ROUGH BORING BAR (Big Bore)  SK : 295P BT : 296P
MICRO BORING BAR  BT : 297~298P STRAIGHT-ST : 299P BIG SIZE : 300P PARTS : 301~303P	SQUARE BORING BAR  45° : 304P 90° : 305P SQUARE BITE : 306P		

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ACCESSORY & PARTS

HYD. CHUCK - Test Piece  308P	HYD. CHUCK - Reduction Sleeve  HK : 309P HS : 310P HF : 311P HR : 312P	SHRINK FIT - Heating Machine  313P	ER COLLET CHUCK - Collet & Nut  COLLET : 314~322P NUT : 323~326P SPANNER : 327P
END MILL HOLDER - Side Lock Bolt  328P	SHELL MILL ARBOR - Bolt & Key  SMA : 329P CMA : 330P	FACE MILL ARBOR - Bolt & Key  331P	POWER MILLING CHUCK - Collet & Spanner  332P
SK SLIM CHUCK - Collet & Nut  COLLET : 333~334P NUT & SPANNER : 335P	TAPPING CHUCK - Tap Adaptor  336~337P	PULL STUD BOLT  338~339P	TOOL CLAMP  340P
HEIGHT PRESETTER  340P	COOLANT TUBE & SPANNER (HSK)  341P	ADJUST BOLT (HSK MQL1)  342P	

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SSK

**THE WORLD LEADER IN THE TOOL
HOLDER INDUSTRY**

MEMO

Lined area for writing a memo.

SSK TOOLING SYSTEM

TECHNICAL INFORMATION

MODEL NUMBERING SYSTEM &

SURFACE FINISH 14P

HYDRAULIC CHUCK 15-17P

SHRINK FIT HOLDER 18-19P

ER COLLET CHUCK 20-21P

POWER MILLING CHUCK 22-23P

TAPPING ER CHUCK & TAPPING CHUCK 24P

NC DRILL CHUCK 25P

BALANCING 26-27P

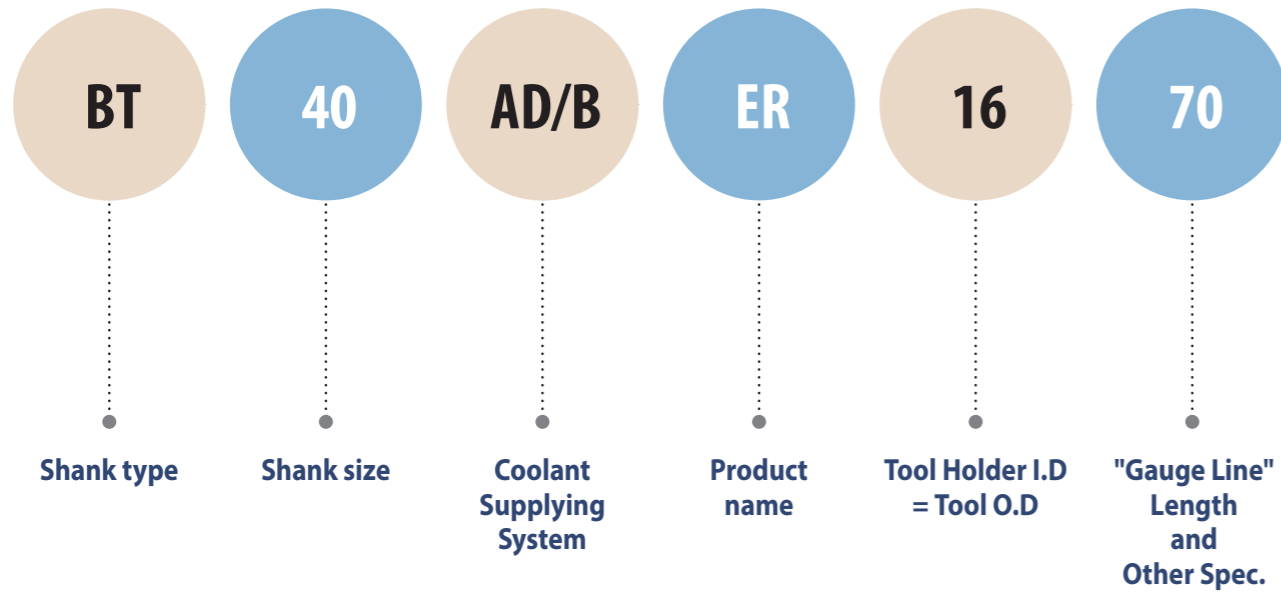
SHANK DATA 28-31P

- SK (DIN 69871)
- BT (JIS B6339/MAS 403)
- HSK (DIN 69893/ISO 12164)
- ASME B5.50 (CAT)
- DIN 228 (MTA/MTB)

SSK

MODEL NUMBERING SYSTEM & SURFACE FINISH

▶ Model Numbering System

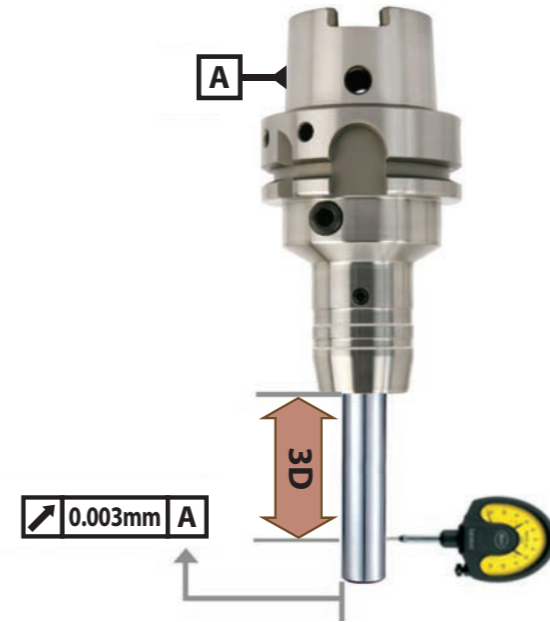


▶ Surface Finish



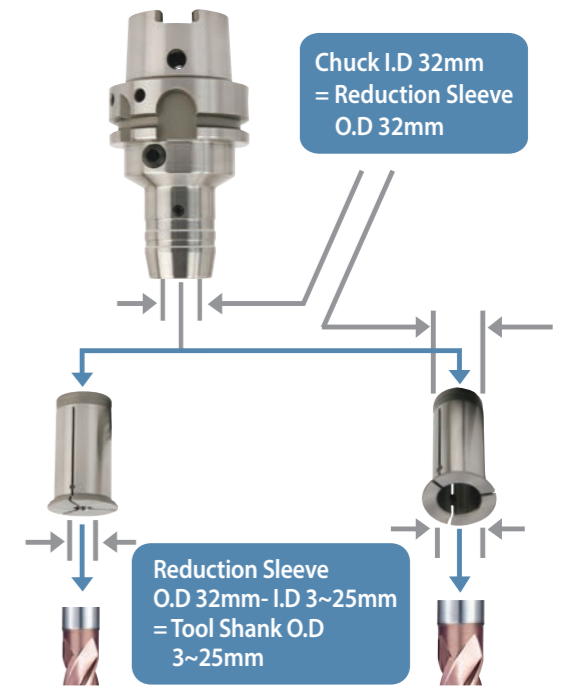
HYDRAULIC CHUCK

▶ High precision T.I.R : $\leq 0.003\text{mm}$ (Without Reduction Sleeve)

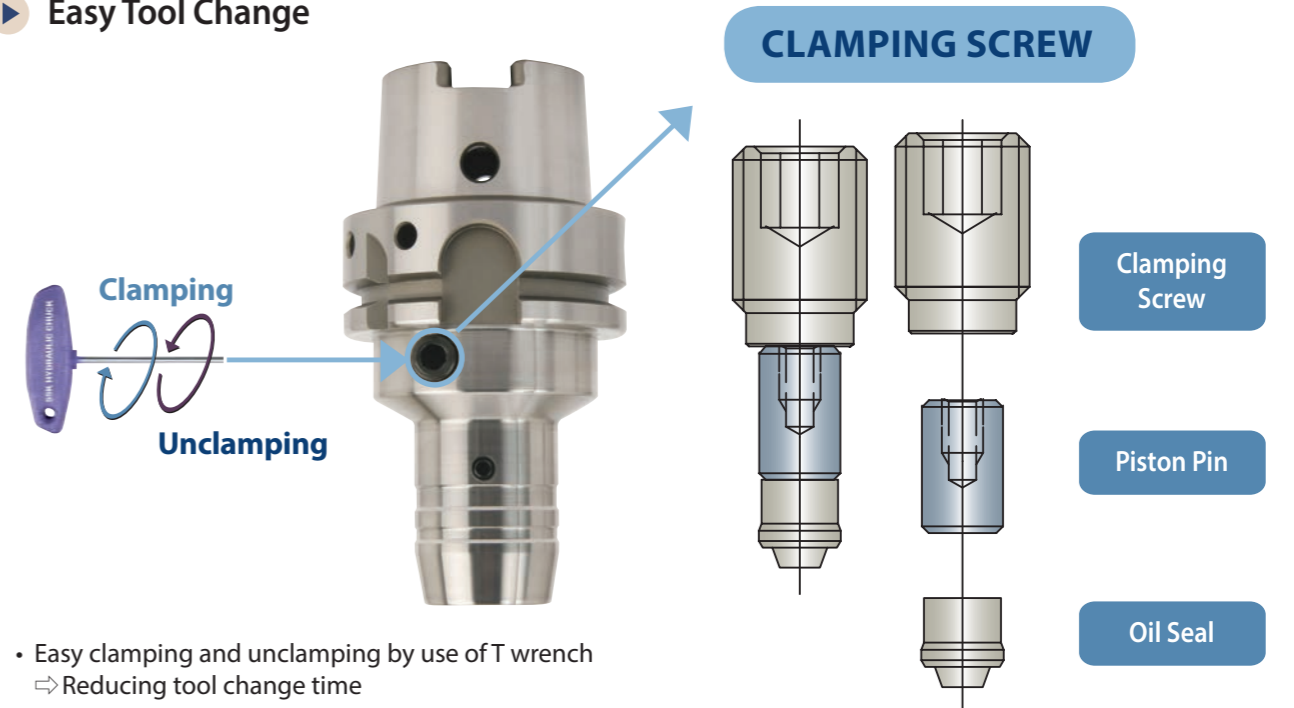


- Less than 0.003mm T.I.R
- ⇒ Suitable for High-Speed precision machining

▶ Flexible use of cutting tools by using of reduction sleeves



▶ Easy Tool Change



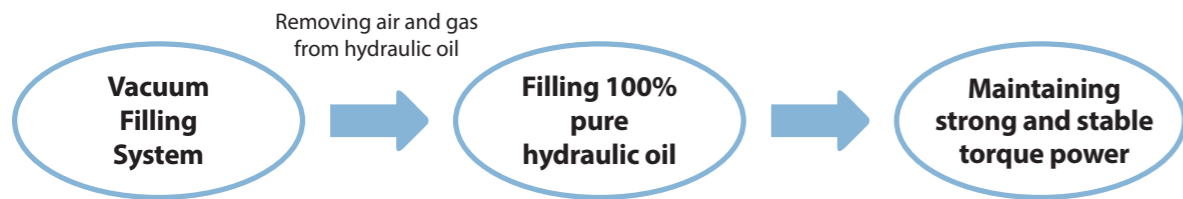
- Easy clamping and unclamping by use of T wrench
- ⇒ Reducing tool change time
- Supplied with clamping T-wrench.

HYDRAULIC CHUCK

▶ Strong Torque Power

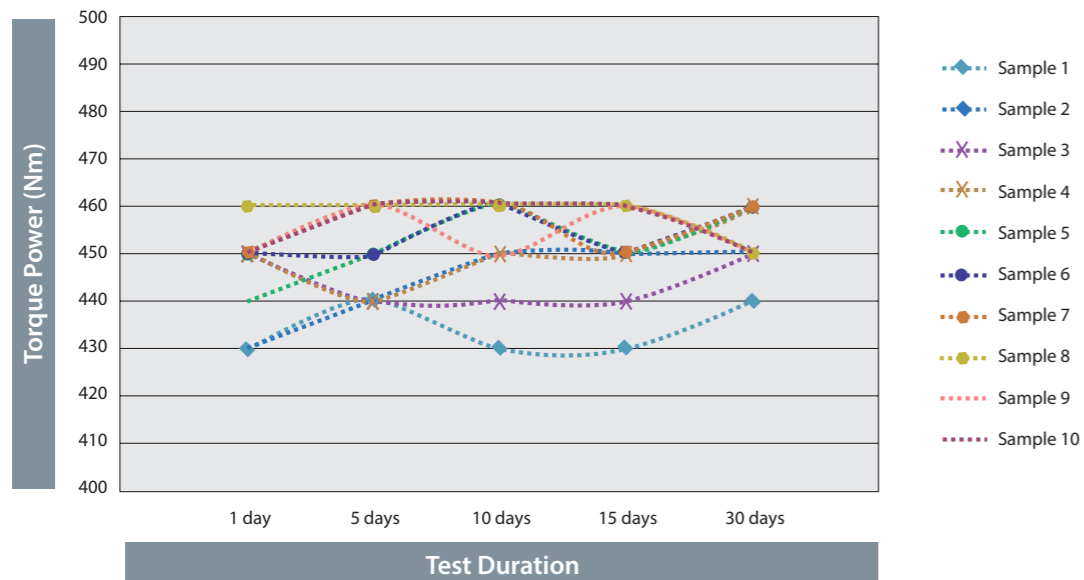
Hydraulic Chuck I.D (mm)	Tool Shank O.D (mm)	Applicable RPM	Minimum Clamping Depth (mm)		Min. Torque Power (Nm)	
			Standard	Power E Hydro	Standard	Power E Hydro
6	6	40,000	27		16	
8	8	40,000	27		23	
10	10	40,000	32		45	
12	12	40,000	37	41	90	110
14	14	40,000	37		110	
16	16	40,000	42		185	
18	18	40,000	42		240	
20	20	40,000	42	48	330	520
25	25	25,000	48		400	
32	32	25,000	55	57	650	900

- Tool Holder I.D Tolerance : H6
- Operating Temperature : 20~25 °C
- Maximum pressure of coolant oil : 80bar



▶ Test of Torque Power and Hydraulic Oil Leakage

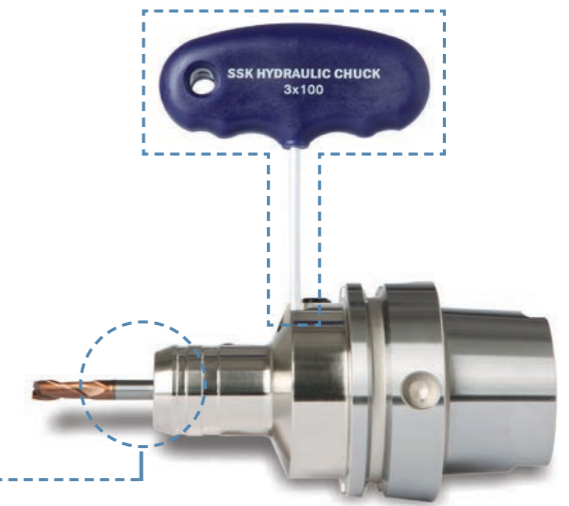
- Test Model : BT40 AD/B-HC 20-90
- No oil leakage for long period ⇒ Maintaining stable torque power



HYDRAULIC CHUCK

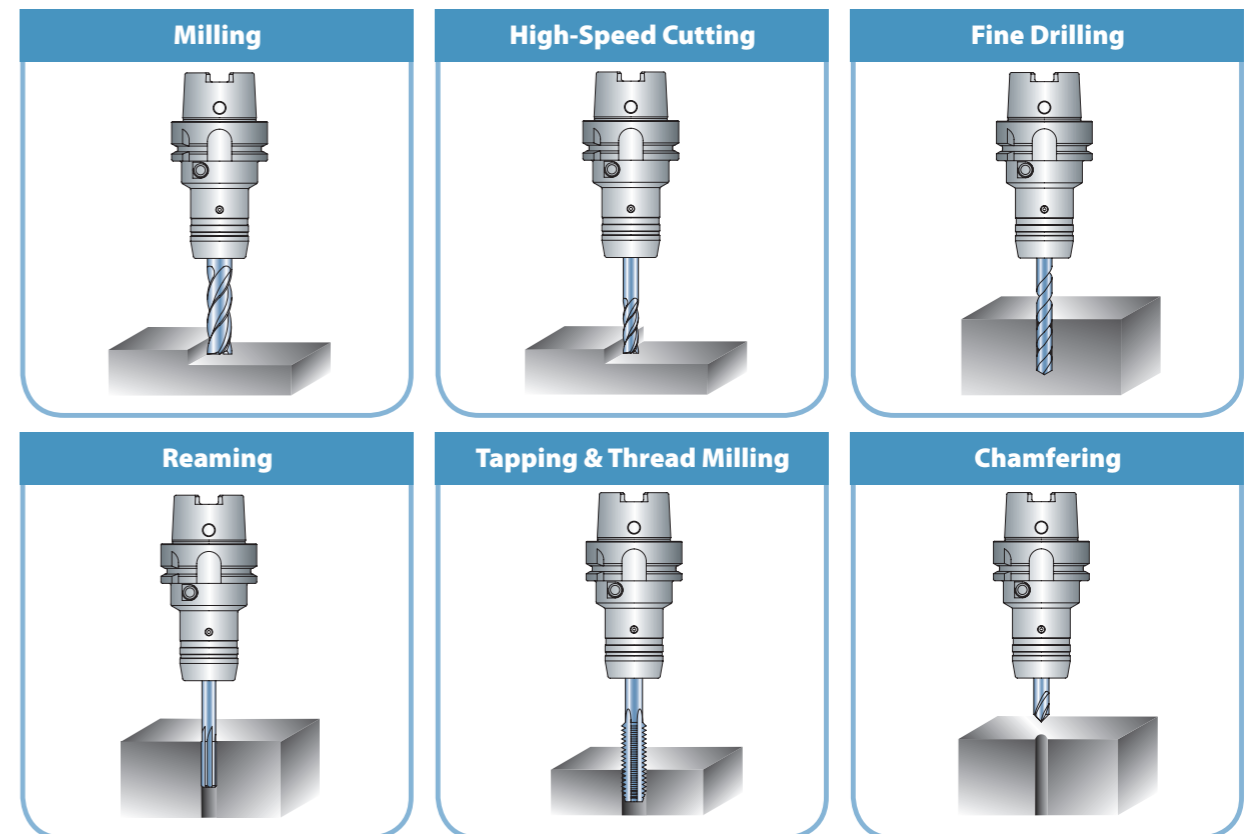
▶ Radial Tool Length Pre-setting Type

- 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



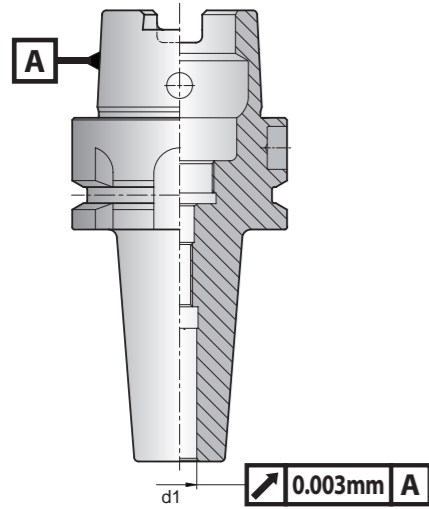
Adjustable range of cutting tool length : 0~10mm

▶ Application



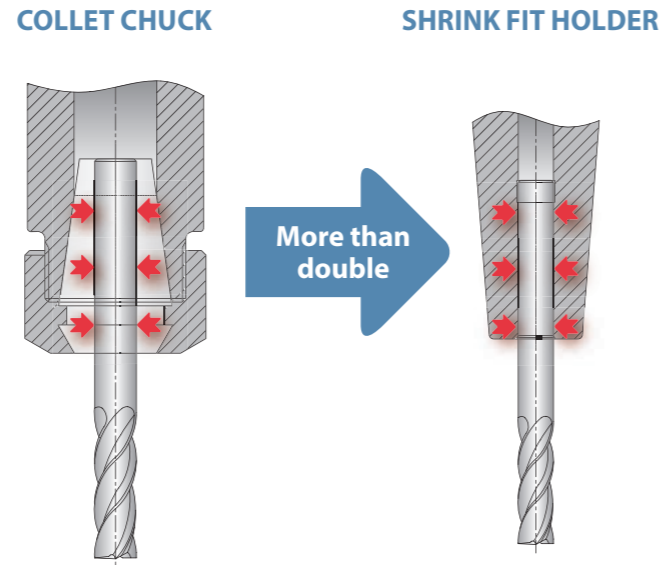
SHRINK FIT HOLDER

- ▶ High Precision I.D
Run-Out : $\leq 0.003\text{mm}$



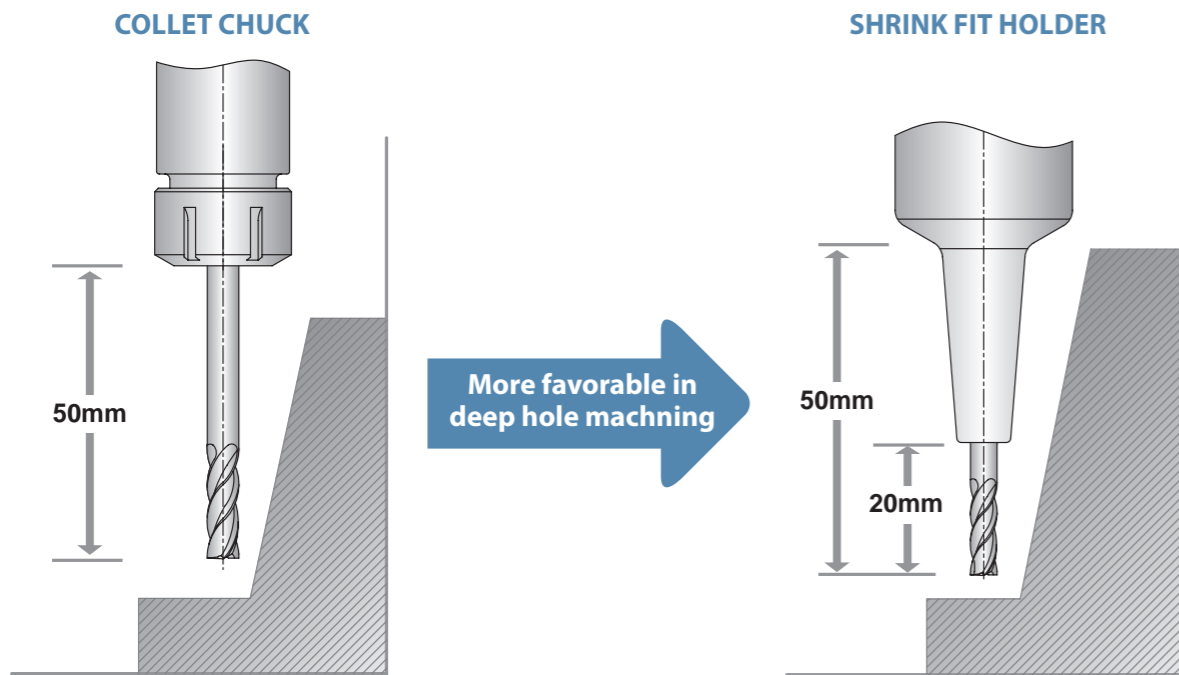
- Less than 0.003mm of Tool Holder accuracy at I.D

- ▶ Strong and Consistent Torque Power



- Achieving strong torque power by integration of chuck and tool

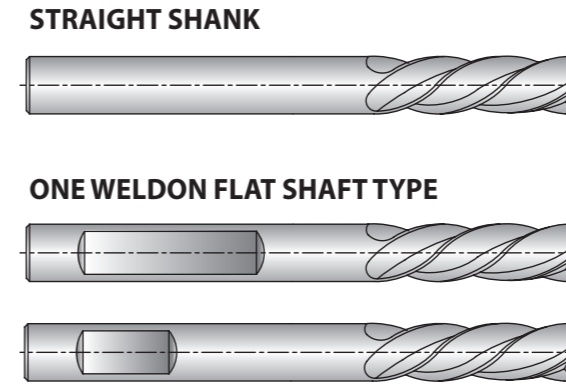
- ▶ Deep hole Machining



- Suitable for High-Speed precision deep hole machining

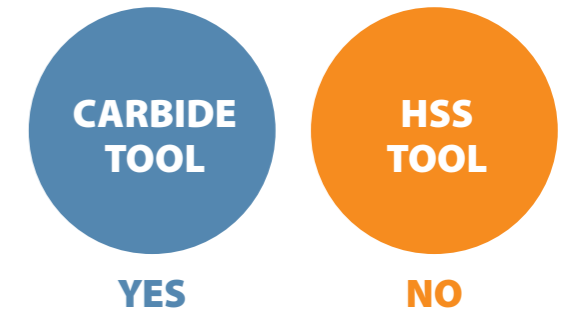
SHRINK FIT HOLDER

- ▶ Shank Type of Cutting Tool

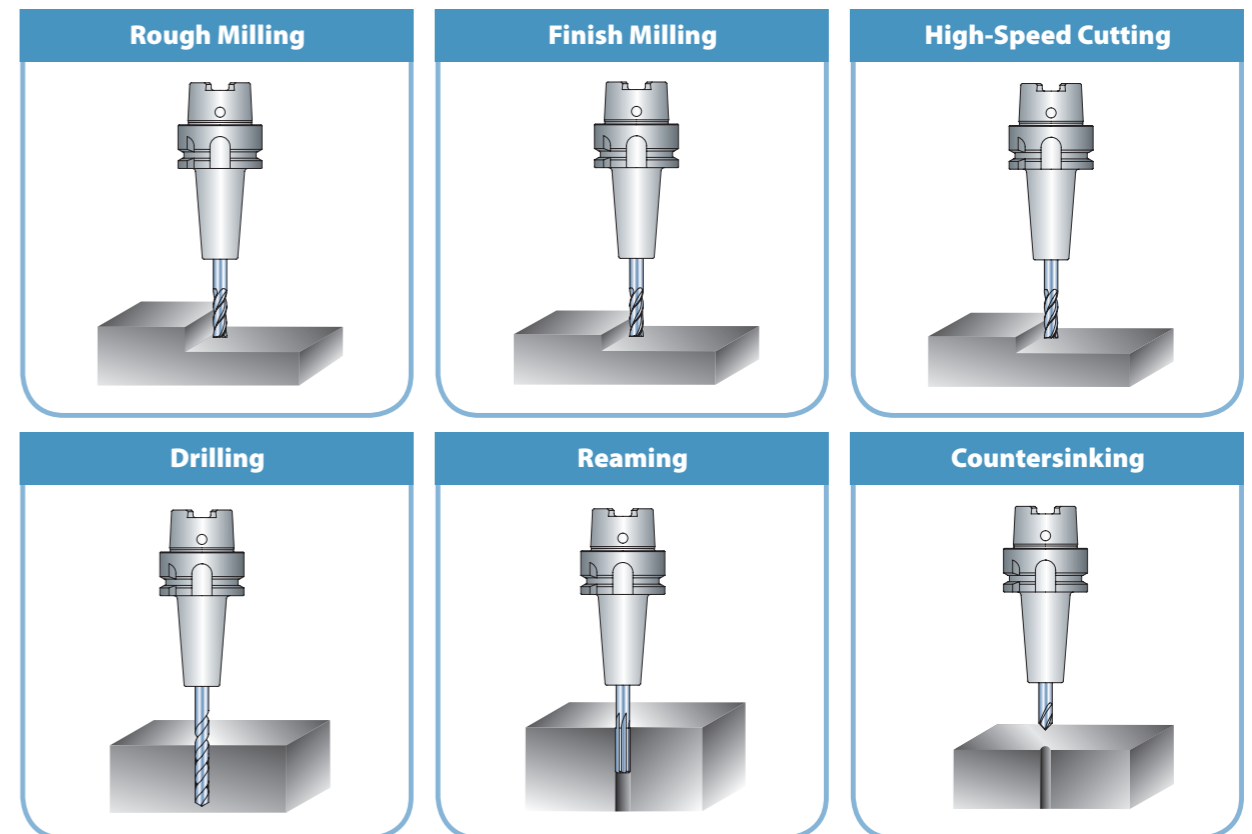


- One Weldon flat shaft type tool is usable, but there is a possibility that the I.D of Shrink Fit Holder may be deformed.

- ▶ Material of Cutting Tool



- ▶ Application



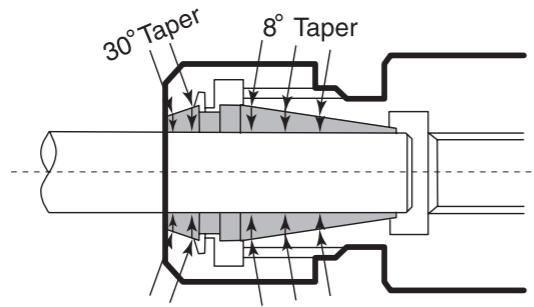
ER COLLET CHUCK

▶ Feature

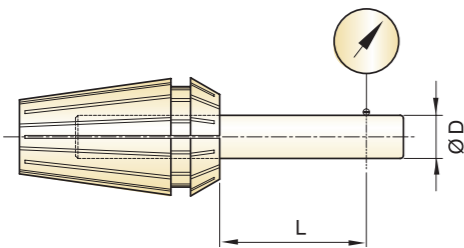
- Powerful chucking, high precision and easy operation
- Precise machining is stably maintained without chattering in High-Speed rotation.
- Due to nut designed with small bore, interference with work piece can be minimized and it enables speedy operation.
- Various nuts can be selected and used according to usage.
- Unlike single taper, double taper has long chucking part providing excellent torque power.

▶ Strong Torque Power

- Longer clamping part of double taper collet provides stronger torque power.
- Stronger torque power can be achieved if ball bearing nut is used.



▶ Standard Precision



Unit : mm

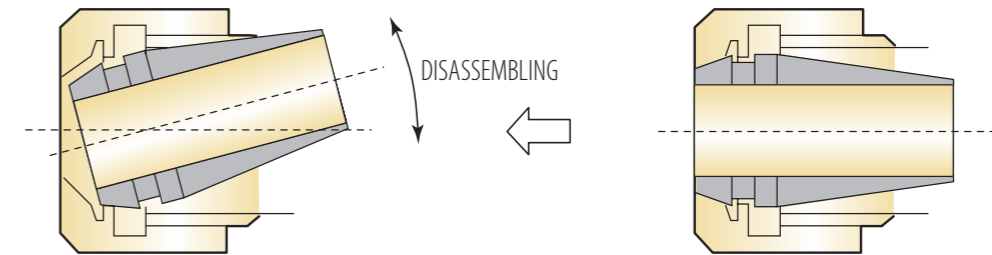
D	L	Max. T.I.R (STD.)
Ø1 ~ Ø1.6	6	0.015
Ø1.6 ~ Ø3	10	0.015
Ø3 ~ Ø6	16	0.015
Ø6 ~ Ø10	25	0.015
Ø10 ~ Ø18	40	0.020
Ø18 ~ Ø26	50	0.020
Ø26 ~ Ø34	60	0.020

- By using high precision collet, excellent T.I.R can be achievable
- With fine cutting of 16 sections, it has excellent contractile force, which makes higher precision can be achieved

ER COLLET CHUCK

▶ Easy Assembling & Disassembling

- For assembling or disassembling of collet, first gently insert groove part of collet into eccentric portion inside nut, and fasten it to same direction as screw or loosen it reversely.
- Notice : In case of Ø12.2mm tool, don't use Ø12~11mm collet.
But use collet with Ø12.5~11.5mm. (In case of general cutting process, Ø13~12mm collet is usable)



▶ Recommended Tightening Torque for the Collet Nut

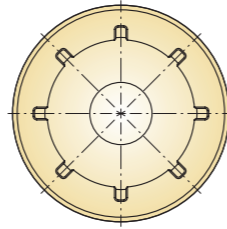
Collet Chuck Size	Clamping Range (mm)	Max. Tightening Torque (Nm)	Collet Chuck Size	Clamping Range (mm)	Max. Tightening Torque (Nm)
ER11	1.0 ~ 2.9	8	ER25	1.0 ~ 3.5	24
	3.0 ~ 7.0	24		4.0 ~ 4.5	56
ER16	1.0	8		5.0 ~ 7.5	80
	1.5 ~ 3.5	20	8.0 ~ 17.0	104	
	4.0 ~ 4.5	40	ER32	2.0 ~ 2.5	24
5.0 ~ 10.0	56	3.0 ~ 22.0		136	
ER20	1.0	16	ER40	3.0 ~ 26.0	176
	1.5 ~ 6.5	32	ER50	6.0 ~ 36.0	240
	7.0 ~ 13.0	80			

▶ Recommended Tightening Torque for the Collet Nut (Slim Type)

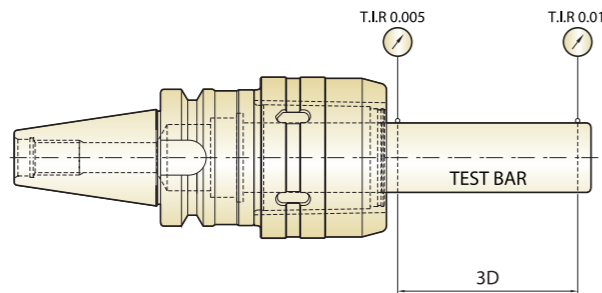
Collet Chuck Size	Clamping Range (mm)	Max. Tightening Torque (Nm)	Collet Chuck Size	Clamping Range (mm)	Max. Tightening Torque (Nm)
ER8M	0.2 ~ 5.0	6	ER20M	1.0	16
ER11M	0.2 ~ 2.9	8		1.5 ~ 13.0	28
	3.0 ~ 7.0	16	ER25M	1.0 ~ 3.5	18
ER16M	0.2 ~ 1.0	8		4.0 ~ 17.0	24
	1.5 ~ 3.5	20			
4.0 ~ 10.0	24				

POWER MILLING CHUCK

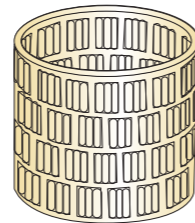
- Rigidity is strengthened through slot made at inside milling chuck, which prevents deformation of milling chuck. Smooth cutting is achieved by maximizing end mill clamping power.
- Enough thickness of clamping part prevents chattering and ensures durability.



- High precision can be achieved through accurate roundness of clamping part, deburred surface and rigidity. (deviation of concentricity : below 2, roughness : below RZ B1.0~1.5)
- Maintaining T.I.R not exceeding 0.01mm at 3D from nose part.



- 160% more of bearings are used in needle roller than other make's chucks, which provides strong clamping power and high durability by dispersing surface pressure even in case strong load is applied.



In order to improve durability, SSK Milling Chuck is passed through following processes.

- "Normalizing" treatment for unifying material composition and removal internal stress.
- Ultralow temperature (-90°C) treatment called "Sub-Zero treatment" after carburizing heat treatment for prior removal of any deformation of milling chuck after use for long periods of time.

POWER MILLING CHUCK

Feature

High-Speed POWER MILLING CHUCK

- Achieving optimum cutting for High-Speed heavy duty cutting and finishing with strong torque power
- Perfect clamping from 3mm depth of I.D entrance
- Achieving stability when exchanging and setting tools by stable fastening and unfastening torque

To use ordinary spanner

- No need for expensive Ratchet spanner ⇒ Using ordinary spanner

Lots of needle bearings

- Strong load during clamping
- Dispersing surface pressure through needle bearing

Balancing grade

- G 6.3 / 20,000 RPM
- ⇒ Optimizing cutting effect during High-Speed heavy duty cutting and finishing

Slot design at inside milling chuck

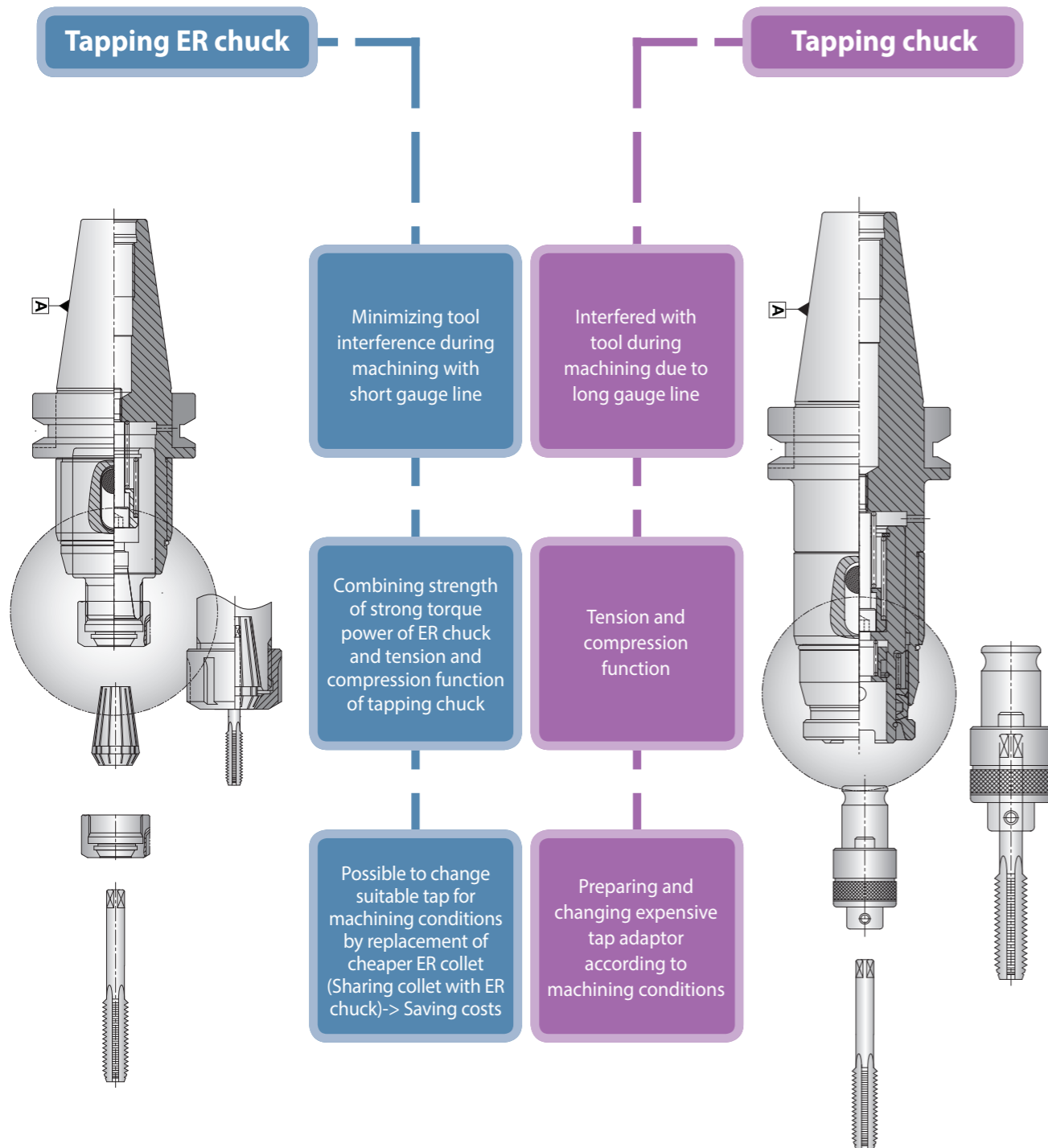
- Strengthening body rigidity
- Preventing deformation during cutting
- Maximizing torque power
- Preventing chattering and ensuring durability



Strong Torque Power

Milling chuck (I.D)	Standard	Tolerance (Taper shank)	Run-Out	Clamping torque
C20	AT3	ISO 30 (0~+0.002) ISO 40 (0~+0.003) ISO 50 (0~+0.004)	0.01mm at 3D	980Nm
C25				1,760Nm
C32				3,430Nm
C42				4,900Nm

TAPPING ER CHUCK & TAPPING CHUCK



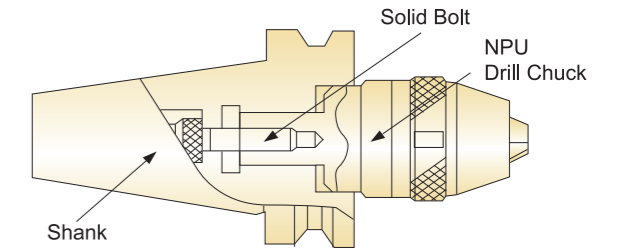
NC DRILL CHUCK

► **Feature**

SSK Drill Chuck is completely tightened with solid bolt, and there is no danger of falling during rotating or cutting.

► **High Precision**

• Drill chuck with excellent high precision (T.I.R 0.05mm) and shank are integrated, which guarantees excellent T.I.R



► **Strong Chucking Power**

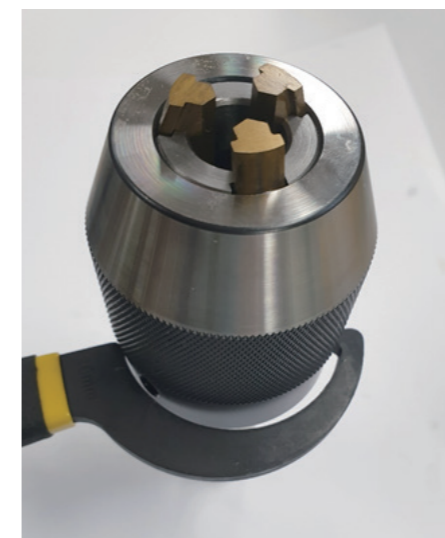
Drill may be damaged due to reverse thrust during perforation, but with SSK Drill Chuck strongly tightened with wrench, there is no possibility of damage to drill.

► **Safety**

SSK NC Drill Chuck with strong rigidity contributes to factory automation by unmanned operation by preventing accident from occurring during operation.

- Falling of drill occurring by sudden stopping
- Falling of drill occurring by rapid rotation
- Damage to drill caused by reverse thrust during perforation process

► **Clamping Method**



▲ Keyless Type



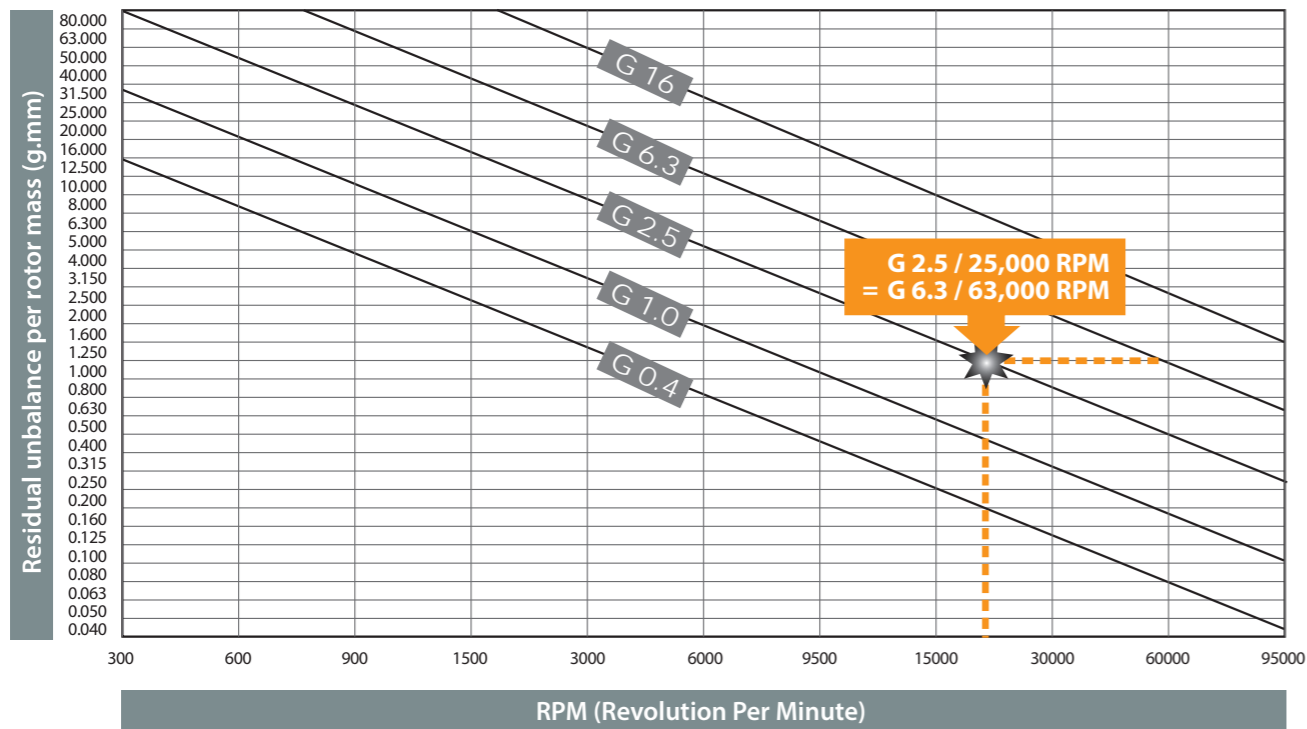
▲ Hex. Key Type

BALANCING

▶ Definition of Balancing and Unbalancing

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 force of one part is greater than that of the opposite part, the forces equivalent to differences are 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).

▶ Balancing Grade Quality According to DIN ISO 1940



Calculation of G

$$\frac{G \times m}{RPM} \times 9549 = U$$

- 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

▶ Merits of Balanced Machining

Recently, rotating 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. SSK manufactures tool holders with various balancing grades meeting the needs of users.

▶ SSK Balancing Grade Standard

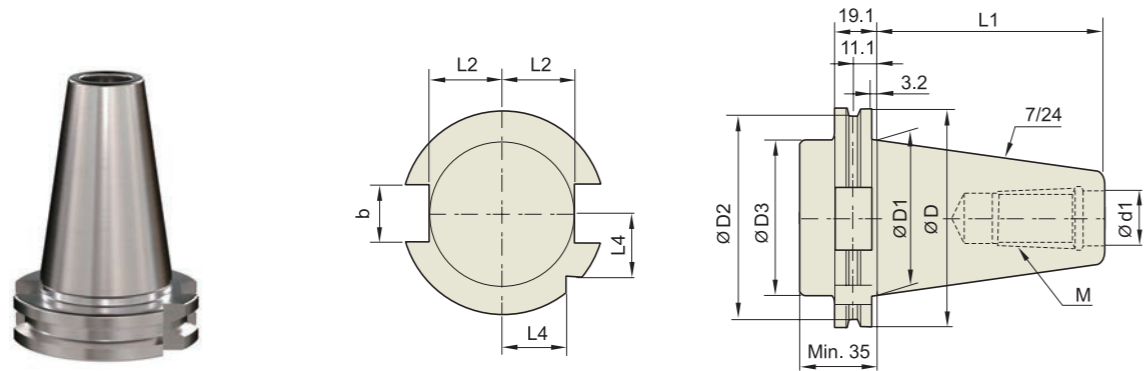


▶ SSK Balancing Specification for Balancing Design Products

PRODUCT	SHANK	GRADE	RPM
HYDRAULIC CHUCK	BT/CBT 30/40/50 SK 30/40/50 HSK 32/40/50/63/80/100	G 2.5	25,000
SHRINK FIT HOLDER	BT/CBT 30/40/50 SK 30/40/50 HSK 25/32/40/50/63/80/100 ISO 25	G 2.5	25,000
OTHER CHUCKS & TOOL HOLDERS	BT/CBT 30/40/50 SK 30/40/50 HSK 25/32/40/50/63/80/100 ISO 20/25	G 6.3 G 2.5	15,000 25,000

※ Higher Balancing Grade Product Could Be Supplied Upon Customer's Request.

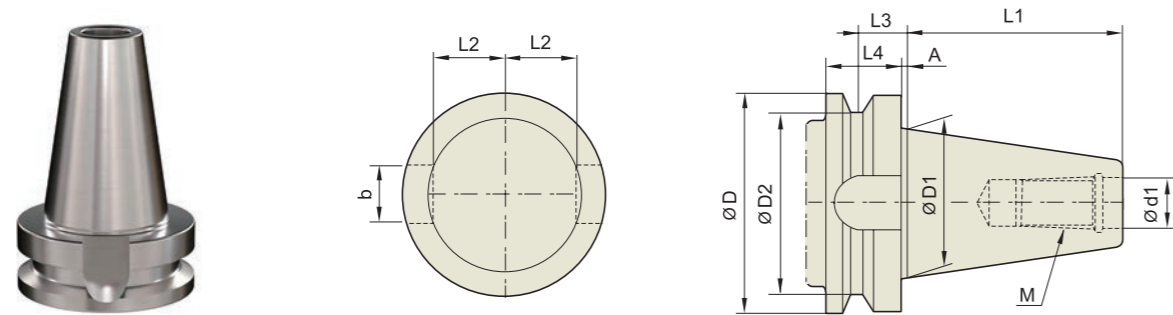
SHANK DATA - DIN 69871 (ISO 7388-1)



Unit : mm

TAPER No.	ØD	ØD1	ØD2	ØD3	Ød1	L1	L2	L3	L4	b	M
SK30	50	31.75	44.3	45	13	47.8	16.4	19	15	16.1	M12×1.75
SK40	63.55	44.45	56.25	50	17	68.4	22.8	25	18.5	16.1	M16×2.0
SK50	97.5	69.85	91.25	80	25	101.75	35.5	37.7	30	25.7	M24×3.0

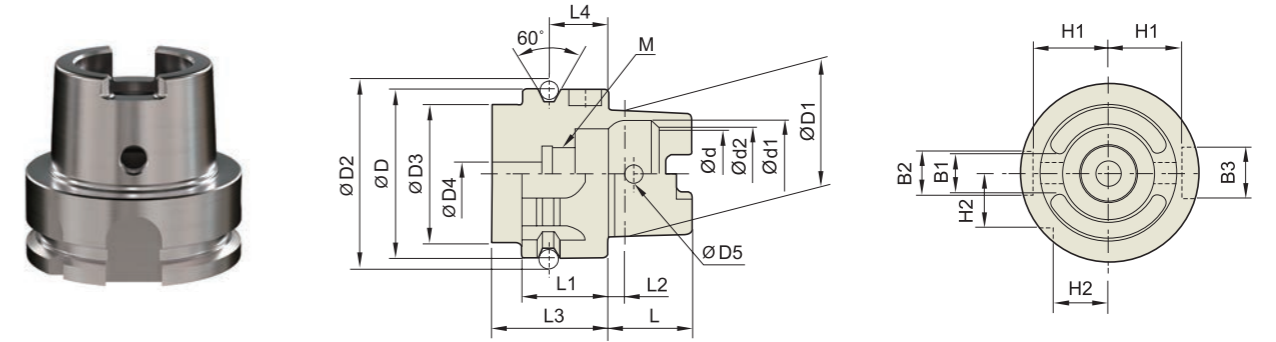
SHANK DATA - JIS B6339/MAS 403 (ISO 7388-2)



Unit : mm

TAPER No.	ØD	ØD1	ØD2	Ød1	L1	L2	L3	L4	A	b	M
BT30	46	31.75	38	12.5	48.4	16.3	13.6	20	2	16.1	M12×1.75
BT40	63	44.45	53	17	65.4	22.6	16.6	25	2	16.1	M16×2
BT50	100	69.85	85	25	101.8	35.4	23.2	35	3	25.7	M24×3
BT60	155	107.95	135	31	161.8	60.1	28.2	45	3	25.7	M30×3.5

SHANK DATA - DIN 69893/ISO 12164



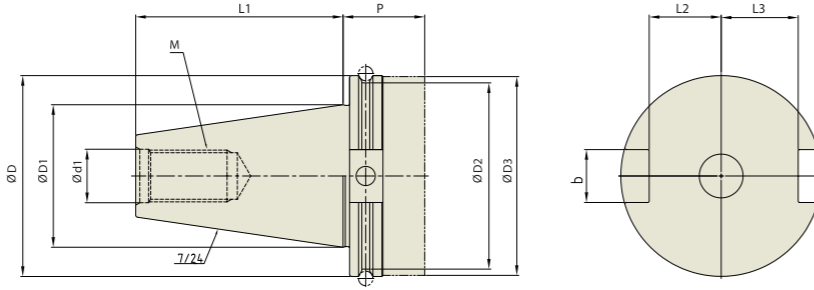
Unit : mm

TAPER No.	ØD	ØD1	ØD2	ØD3	ØD4	ØD5	L	L1	L2	L3	L4
HSK32A	32	24	37.00	26	4.2	4.0	16	20	3.2	35	16
HSK40A	40	30	45.00	34	5.0	4.6	20	20	4.0	35	16
HSK50A	50	38	59.30	42	6.8	6.0	25	26	5.0	42	18
HSK63A	63	48	72.30	53	8.4	7.5	32	26	6.3	42	18
HSK80A	80	60	88.8	68	10.2	8.5	40	26	8	42	18
HSK100A	100	75	109.75	88	12.0	12.0	50	29	10.0	45	20

Unit : mm

TAPER No.	Ød	Ød1	Ød2	B1	B2	B3	H1	H2	L4
HSK32A	17	20.5	19	7.05	7	9	13.0	9.5	M10×1.0
HSK40A	21	25.5	23	8.05	9	11	17.0	12.0	M12×1.0
HSK50A	26	32.0	29	10.54	12	14	21.0	15.5	M16×1.0
HSK63A	34	40.0	37	12.54	16	18	26.5	20.0	M18×1.0
HSK80A	42	50	46	16.04	18	20	34	25	M20×1.5
HSK100A	53	63.0	58	20.02	20	22	44.0	31.5	M24×1.5

ASME B5.50



ASME B5.50-CAT (OLD : 1978)

Unit : mm

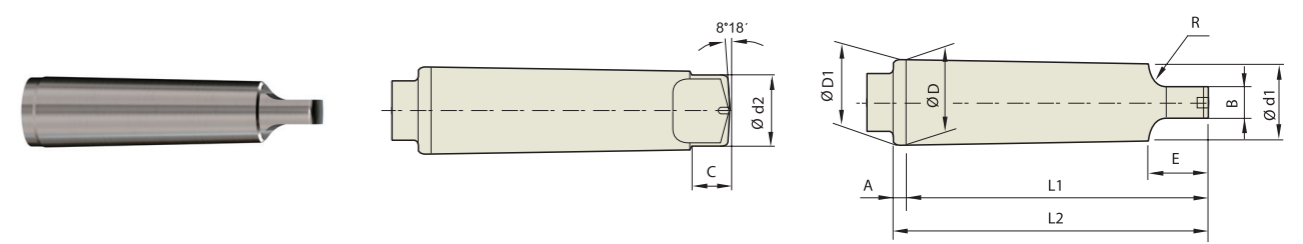
TAPER No.	ØD	ØD1	ØD2	ØD3	Ød1	L1	L2	L3	b	P	M
CAT30	50	31.75	44.3	31.75	13	47.625	16.25	18.67	16.1	-	UNC1/2-13
CAT40	63.55	44.45	56.25	44.45	17	68.25	22.6	25	16.1	-	UNC5/8-11
CAT50	97.5	69.85	91.25	70.1	25	101.6	35.3	37.7	25.7	-	UNC1-18
CAT60	155	107.95	132.56	108	32	161.93	54	59.3	25.7	-	UNC1 1/4-7

ASME B5.50-CAT (NEW : Revision 2009)

Unit : mm

TAPER No.	ØD	ØD1	ØD2	ØD3	Ød1	L1	L2	L3	b	P	M
CAT30	46.02	31.75	38.89	46.02	13	47.625	16.25	18.67	16.1	-	UNC1/2-13
CAT40	63.5	44.45	56.36	63.5	17	68.25	22.6	25	16.1	-	UNC5/8-11
CAT50	98.43	69.85	91.29	98.43	25	101.6	35.3	37.7	25.7	-	UNC1-18
CAT60	139.7	107.95	132.56	139.7	32	161.93	54	59.3	25.7	-	UNC1 1/4-7

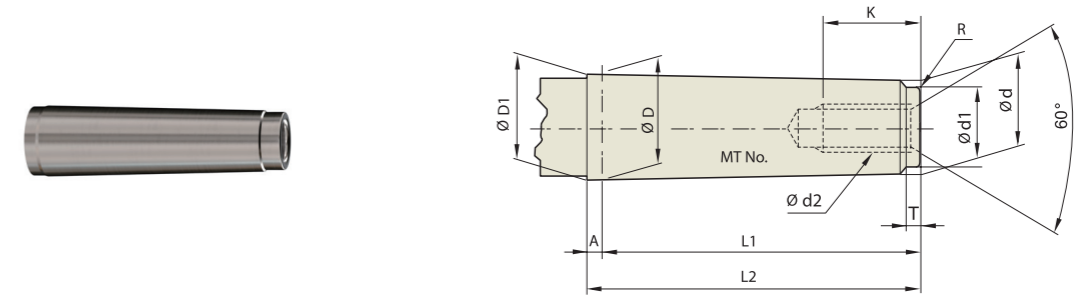
DIN 228



DIN 228 (MORSE TAPER) TANG TYPE (MTA)

Unit : mm

TAPER No.	TAPER RATIO (Rad)	TAPER ANGLE (α)	ØD	A	ØD1	Ød1	L1	L2	Ød2	B	C	E	R
MT0	1/19.212	1°29' 27"	9.045	3	9.045	6.104	56.5	59.5	6.0	3.9	6.5	10.5	4
MT1	1/20.047	1°25' 43"	12.065	3.5	12.065	8.972	62.0	65.5	8.7	5.2	8.5	13.5	5
MT2	1/20.020	1°25' 50"	17.780	5	17.780	14.034	75.0	80.0	13.5	6.3	10	16	6
MT3	1/19.922	1°26' 16"	23.825	5	23.825	19.107	94.0	99.0	18.5	7.9	13	20	7
MT4	1/19.254	1°29' 15"	31.267	6.5	31.267	25.164	117.5	124.0	24.5	11.9	16	24	8
MT5	1/19.002	1°30' 26"	44.399	6.5	44.399	36.531	149.5	156.0	35.7	15.9	19	29	10
MT6	1/19.180	1°29' 36"	63.348	8	63.348	52.399	210.0	218.0	51.0	19.0	27	40	13
MT7	1/19.231	1°29' 22"	83.058	10	83.058	68.186	286.0	296.0	66.8	28.6	35	54	19



DIN 228 (MORSE TAPER) SCREW TYPE (MTB)

Unit : mm

TAPER No.	TAPER RATIO (Rad)	TAPER ANGLE (α)	ØD	A	ØD1	d	L1	L2	Ød1	d2	K	T	R
MT0	1/19.212	1°29' 27"	9.045	3	9.201	6.442	50	53	6.4	-	-	4	0.2
MT1	1/20.047	1°25' 43"	12.065	3.5	12.230	9.396	53.5	57	9.4	M6	16	5	0.2
MT2	1/20.020	1°25' 50"	17.780	5	18.030	14.583	64	69	14.6	M10	24	5	0.2
MT3	1/19.922	1°26' 16"	23.825	5	24.076	19.759	81	86	19.8	M12	28	7	0.6
MT4	1/19.254	1°29' 15"	31.267	6.5	31.605	25.943	102.5	109	25.9	M16	32	9	1
MT5	1/19.002	1°30' 26"	44.399	6.5	44.741	37.584	129.5	136	37.6	M20	40	9	2.5
MT6	1/19.180	1°29' 36"	63.348	8	63.765	53.859	182	190	53.9	M24	50	12	4
MT7	1/19.231	1°29' 22"	83.058	10	83.578	70.058	250	260	70.0	M33	80	18.5	5

SSK

THE WORLD LEADER IN THE TOOL
HOLDER INDUSTRY

MEMO

SSK TOOLING SYSTEM SK (DIN 69871)

HYDRAULIC CHUCK	34-39P
SHRINK FIT HOLDER	40-48P
ER COLLET CHUCK	49-54P
END MILL HOLDER	55-60P
SHELL MILL ARBOR	61-64P
COMBI-SHELL MILL ARBOR	65P
POWER MILLING CHUCK	66-67P
MORSE TAPER ARBOR	68P
SK SLIM CHUCK	69-72P
SYNCHRO TAPPING CHUCK	73-74P
ONE STEP TAPPING CHUCK	75P
TAPPING ER CHUCK	76P
TAPPING CHUCK	77P
COPY MILL ARBOR	78P
INDEXABLE DRILL HOLDER	79P
NC DRILL CHUCK	80-81P
BLANK BAR	82P
TEST BAR	82P

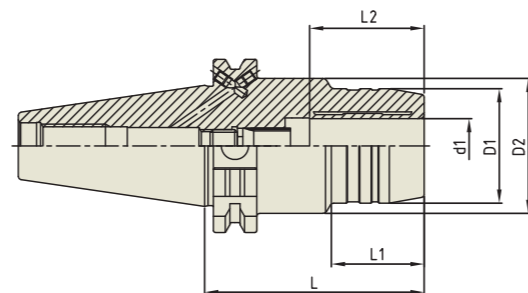


SK (DIN 69871)

HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)

HCR

HYDRAULIK SPANNFUTTER (RADIALE WERKZEUGLÄGEN VOREINSTELLUNG)
 MANDRIN HYDRAULIQUE (BANC DE PRÉ-RÉGLAGE RADIAL)
 MANDRINI IDRAULICI (UTENSILI RADIALI PER AZZERAMENTO)
 PORTAHERRAMIENTAS HIDRAULICO (AJUSTE DE LONGITUD TIPO PRE-SETTING)



DIN 69871 -SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
30	SK30-HCR12-85	12	32	44.5	85	40	37	0.90
	SK30-HCR20-85	20	44	-	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	35	37	3.90
	SK50AD/B-HCR20-80.5	20	42	44.5	80.5	44	42	4.00
	SK50AD/B-HCR32-100	32	60	-	100	-	55	4.70

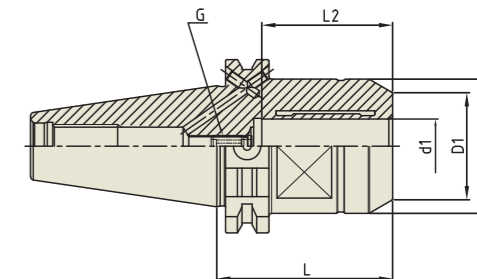
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

SK (DIN 69871)

HYDRAULIC CHUCK (Power E Hydro)

HCP

HYDRAULIK SPANNFUTTER (POWER E HYDRO)
 MANDRIN HYDRAULIQUE (POWER E HYDRO)
 MANDRINI IDRAULICI (POWER E HYDRO)
 PORTAHERRAMIENTAS HIDRAULICO (POWER E HYDRO)



DIN 69871 -SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	WEIGHT (Kg)
40	SK40AD/B-HC12P-50	12	32	42	50	41	M8x1.0	1.00
	SK40AD/B-HC20P-64.5	20	39.3	49.3	64.5	48	M8x1.0	1.20
50	SK50AD/B-HC20P-64.5	20	39.3	49.3	64.5	48	M8x1.0	2.80
	SK50AD/B-HC32P-81	32	58.5	72	81	57	M8x1.0	3.90

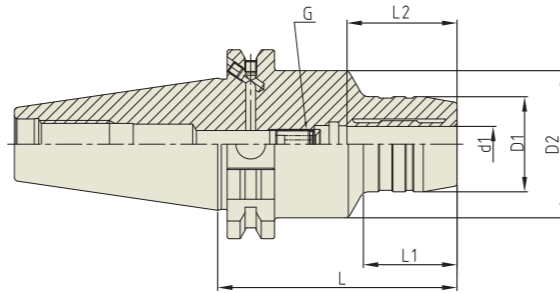
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

SK (DIN 69871)

HYDRAULIC CHUCK (STANDARD)

HC

HYDRAULIK SPANNFUTTER (STANDARD)
 MANDRIN HYDRAULIQUE (STANDARD)
 MANDRINI IDRAULICI (STANDARD)
 PORTAHERRAMIENTAS HIDRAULICO (ESTÁNDAR)



DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
30	SK30-HC6-70	6	26	45	70	20	27	M5x0.8	0.65
	SK30-HC8-70	8	28	45	70	20	27	M6x1.0	0.65
	SK30-HC10-75	10	30	45	75	21	32	M8x1.0	0.73
	SK30-HC12-85	12	32	45	85	40	37	M10x1.0	0.80
	SK30-HC14-85	14	34	45	85	22	37	M10x1.0	0.80
	SK30-HC16-90	16	38	45	90	50	42	M6x1.0	0.90
	SK30-HC18-90	18	40	45	90	50	42	M10x1.0	0.90
	SK30-HC20-90	20	42	45	90	50	42	M6x1.0	0.90
40	SK40AD/B-HC6-80.5	6	26	49.5	80.5	30	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	M6x1.0	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-HC14-80.5	14	34	49.5	80.5	32	37	M10x1.0	1.35
	SK40AD/B-HC14-110	14	34	49.5	110	32	37	M10x1.0	1.75
	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-HC32-110	32	63	80	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-HC14-80.5	14	34	49.5	80.5	37	37	M10x1.0	3.07
	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

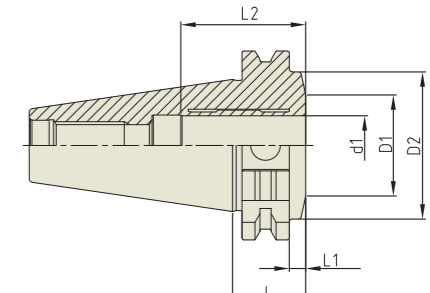
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

SK (DIN 69871)

HYDRAULIC CHUCK (ULTRA SHORT)

HC

HYDRAULIK SPANNFUTTER (KURZ)
 MANDRIN HYDRAULIQUE (COURT)
 MANDRINI IDRAULICI (CORTO)
 PORTAHERRAMIENTAS HIDRAULICO (CORTO)



DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
40	SK40-HC20-24.6	20	34	49.5	24.6	5.5	42	0.81
50	SK50-HC32-30.9	32	49	70.5	30.9	11.85	55	2.63

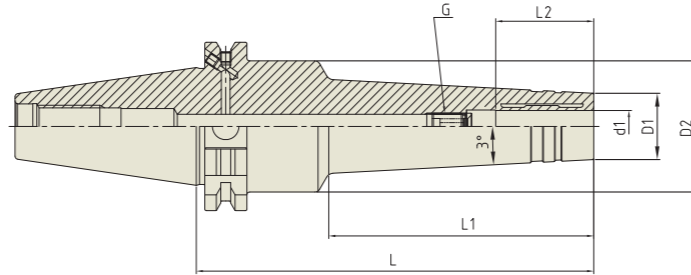
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

SK (DIN 69871)

HYDRAULIC CHUCK (SLIM)

HMC

HYDRAULIK SPANNFUTTER (SCHLANK)
 MANDRIN HYDRAULIQUE (MINCE)
 MANDRINI IDRAULICI (SOTTILE)
 PORTAHERRAMIENTAS HIDRAULICO (DELGADO)



DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
40	SK40AD/B-HMC6-120	6	20	49.5	120	70	27	M5×0.8	1.40
	SK40AD/B-HMC6-150	6	20	49.5	150	100	27	M5×0.8	1.65
	SK40AD/B-HMC8-120	8	22	49.5	120	70	27	M6×1.0	1.40
	SK40AD/B-HMC8-150	8	22	49.5	150	100	27	M6×1.0	1.65
	SK40AD/B-HMC10-120	10	24	49.5	120	70	32	M8×1.0	1.40
	SK40AD/B-HMC10-150	10	24	44.5	150	100	32	M8×1.0	1.65
	SK40AD/B-HMC12-120	12	25	49.5	120	70	37	M10×1.0	1.40
	SK40AD/B-HMC12-150	12	25	44.5	150	100	37	M10×1.0	1.65
	SK40AD/B-HMC14-120	14	27	49.5	120	70	37	M10×1.0	1.50
	SK40AD/B-HMC14-150	14	27	49.5	150	100	37	M10×1.0	1.70
	SK40AD/B-HMC16-120	16	32	49.5	120	70	42	M12×1.0	1.45
	SK40AD/B-HMC16-150	16	32	49.5	150	100	42	M12×1.0	1.70
	SK40AD/B-HMC20-120	20	34	49.5	120	70	42	M16×1.0	1.50
	SK40AD/B-HMC20-150	20	34	49.5	150	100	42	M16×1.0	1.70
50	SK50AD/B-HMC6-150	6	20	44.5	150	100	27	M5×0.8	4.50
	SK50AD/B-HMC8-150	8	22	44.5	150	100	27	M6×1.0	4.50
	SK50AD/B-HMC10-150	10	24	44.5	150	100	32	M8×1.0	4.50
	SK50AD/B-HMC12-150	12	25	44.5	150	100	37	M10×1.0	4.50
	SK50AD/B-HMC14-150	14	27	44.5	150	100	37	M10×1.0	4.60
	SK50AD/B-HMC16-150	16	32	44.5	150	100	42	M12×1.0	4.70
SK50AD/B-HMC20-150	20	34	44.5	150	100	42	M16×1.0	5.00	

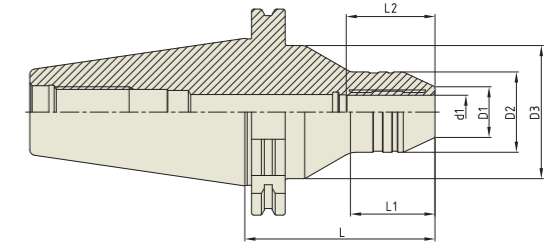
- ▶ CAT (ASME B5.50) taper and Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

SK (DIN 69871)

HYDRAULIC CHUCK (For GRINDER)

HC-G

HYDRAULIK SPANNFUTTER FÜR DEN FORMENBAU
 MANDRIN HYDRAULIQUE POUR MOULISTE
 MANDRINI IDRAULICI PER STAMPAGGIO
 PORTAHERRAMIENTAS HIDRAULICO PARA MOLDES



DIN 69871 - SK	Taper Accuracy AT3	Run-Out (at 3D) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	D3	L	L1	L2	WEIGHT (Kg)
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

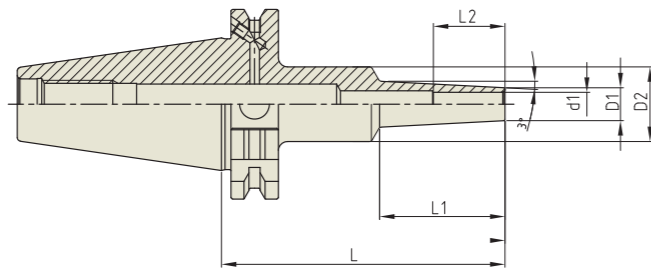
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

SK (DIN 69871)

SHRINK FIT HOLDER (EXTRA SLIM)

SFHS

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



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

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
30	SK30-SFHS3-60	3	6	20	60	22	9	-
	SK30-SFHS3-80	3	6	25	80	42	9	-
	SK30-SFHS4-60	4	7	20	60	22	12	-
	SK30-SFHS4-80	4	7	25	80	42	12	-
	SK30-SFHS6-60	6	9	20	60	22	18	-
	SK30-SFHS6-80	6	9	25	80	42	18	-
40	SK40AD/B-SFHS3-95	3	6	25	95	42	9	0.89
	SK40AD/B-SFHS3-120	3	6	25	120	67	9	0.91
	SK40AD/B-SFHS4-95	4	7	25	95	42	12	0.90
	SK40AD/B-SFHS4-120	4	7	25	120	67	12	0.92
	SK40AD/B-SFHS6-95	6	9	25	95	42	18	0.90
	SK40AD/B-SFHS6-120	6	9	25	120	67	18	0.93
	SK40AD/B-SFHS8-95	8	11	25	95	42	24	0.90
	SK40AD/B-SFHS8-120	8	11	32	120	67	24	1.01
	SK40AD/B-SFHS10-95	10	13	25	95	42	30	0.91
	SK40AD/B-SFHS10-120	10	13	32	120	67	30	1.02
	SK40AD/B-SFHS12-95	12	15	32	95	42	30	0.99
	SK40AD/B-SFHS12-120	12	15	32	120	67	30	1.02
50	SK50AD/B-SFHS3-110	3	6	25	110	42	9	2.77
	SK50AD/B-SFHS3-160	3	6	25	160	97	9	2.79
	SK50AD/B-SFHS4-110	4	7	25	110	42	12	2.75
	SK50AD/B-SFHS4-160	4	7	25	160	97	12	2.80
	SK50AD/B-SFHS6-110	6	9	26	110	42	18	2.74
	SK50AD/B-SFHS6-160	6	9	26	160	97	18	2.85
	SK50AD/B-SFHS8-110	8	11	36	110	42	24	2.84
	SK50AD/B-SFHS8-160	8	11	36	160	97	24	2.92
	SK50AD/B-SFHS10-110	10	13	36	110	42	30	2.85
	SK50AD/B-SFHS10-160	10	13	36	160	97	30	2.93
	SK50AD/B-SFHS12-110	12	15	36	110	42	30	2.85
	SK50AD/B-SFHS12-160	12	15	36	160	97	30	2.96

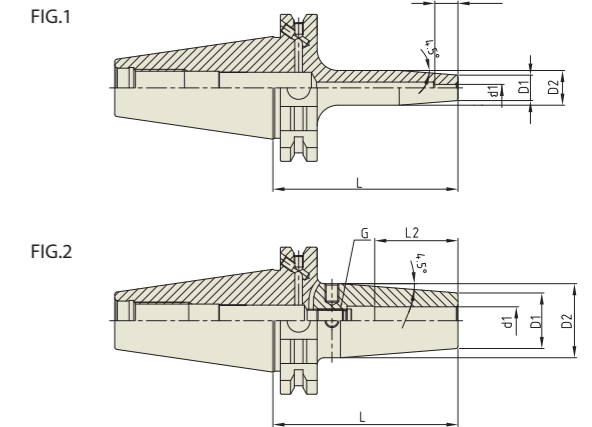
▶ CAT(ASME B5.50) taper and Inch type products are available.
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

SK (DIN 69871)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



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

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
30	SK30-SFH3-60	3	11	15	60	10	-	1	0.40
	SK30-SFH4-60	4	11	15	60	12	-	1	0.40
	SK30-SFH5-60	5	11	15	60	15	-	1	0.40
	SK30-SFH6-60	6	21	27	60	36	M5×0.8	2	0.40
	SK30-SFH8-60	8	21	27	60	36	M6×1.0	2	0.40
	SK30-SFH10-80	10	24	32	80	42	M8×1.0	2	0.40
	SK30-SFH12-80	12	24	32	80	47	M10×1.0	2	0.42
	SK30-SFH14-80	14	27	34	80	47	M10×1.0	2	-
	SK30-SFH16-80	16	27	34	80	50	M12×1.0	2	0.42
	SK30-SFH18-80	18	33	42	80	50	M12×1.0	2	-
	SK30-SFH20-90	20	33	42	90	52	M16×1.0	2	0.44
	40	SK40AD/B-SFH3-80	3	11	15	80	10	-	1
SK40AD/B-SFH4-80		4	11	15	80	12	-	1	1.00
SK40AD/B-SFH5-80		5	11	15	80	15	-	1	1.00
SK40AD/B-SFH6-80		6	21	27	80	36	M5×0.8	2	1.10
SK40AD/B-SFH6-130		6	21	27	130	36	M5×0.8	2	-
SK40AD/B-SFH6-160		6	21	27	160	36	M5×0.8	2	1.15
SK40AD/B-SFH8-80		8	21	27	80	36	M6×1.0	2	1.11
SK40AD/B-SFH8-130		8	21	27	130	36	M6×1.0	2	-
SK40AD/B-SFH8-160		8	21	27	160	36	M6×1.0	2	1.15
SK40AD/B-SFH10-80		10	24	32	80	42	M8×1.0	2	1.10
SK40AD/B-SFH10-130		10	24	32	130	42	M8×1.0	2	-
SK40AD/B-SFH10-160		10	24	32	160	42	M8×1.0	2	1.15
SK40AD/B-SFH12-80		12	24	32	80	47	M10×1.0	2	1.10
SK40AD/B-SFH12-130		12	24	32	130	47	M10×1.0	2	-
SK40AD/B-SFH12-160		12	24	32	160	47	M10×1.0	2	1.15
SK40AD/B-SFH14-80		14	27	34	80	47	M10×1.0	2	1.20
SK40AD/B-SFH14-130		14	27	34	130	47	M10×1.0	2	-
SK40AD/B-SFH14-160		14	27	34	160	47	M10×1.0	2	1.50

▶ CAT(ASME B5.50) taper and Inch type products are available.
▶ Supplied without balancing screws.
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

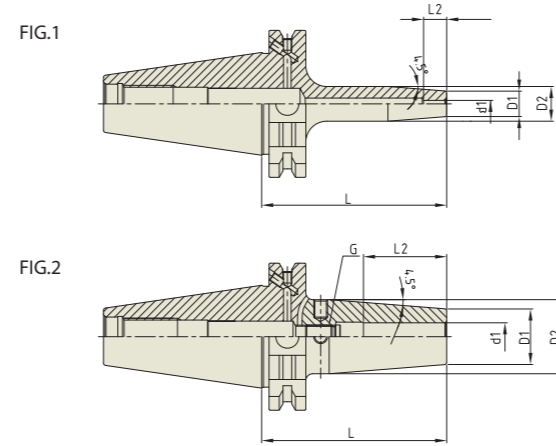
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SK (DIN 69871)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



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

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
40	SK40AD/B-SFH16-80	16	27	34	80	50	M12×1.0	2	1.20
	SK40AD/B-SFH16-130	16	27	34	130	50	M12×1.0	2	-
	SK40AD/B-SFH16-160	16	27	34	160	50	M12×1.0	2	1.50
	SK40AD/B-SFH18-80	18	33	42	80	50	M12×1.0	2	1.30
	SK40AD/B-SFH18-130	18	33	42	130	50	M12×1.0	2	-
	SK40AD/B-SFH18-160	18	33	42	160	50	M12×1.0	2	1.60
	SK40AD/B-SFH20-80	20	33	42	80	52	M16×1.0	2	1.40
	SK40AD/B-SFH20-130	20	33	42	130	52	M16×1.0	2	-
	SK40AD/B-SFH20-160	20	33	42	160	52	M16×1.0	2	1.70
	SK40AD/B-SFH25-90	25	44	53	90	58	M16×1.0	2	1.70
	SK40AD/B-SFH25-130	25	44	53	130	58	M16×1.0	2	-
	SK40AD/B-SFH25-160	25	44	53	160	58	M16×1.0	2	2.00
50	SK50AD/B-SFH3-80	3	11	15	80	10	-	1	1.50
	SK50AD/B-SFH4-80	4	11	15	80	12	-	1	1.50
	SK50AD/B-SFH5-80	5	11	15	80	15	-	1	1.50
	SK50AD/B-SFH6-80	6	21	27	80	36	M5×0.8	2	1.50
	SK50AD/B-SFH6-130	6	21	27	130	36	M5×0.8	2	-
	SK50AD/B-SFH6-160	6	21	27	160	36	M5×0.8	2	2.00
	SK50AD/B-SFH6-200	6	21	27	200	36	M5×0.8	2	-
	SK50AD/B-SFH8-80	8	21	27	80	36	M6×1.0	2	1.50
	SK50AD/B-SFH8-130	8	21	27	130	36	M6×1.0	2	-
	SK50AD/B-SFH8-160	8	21	27	160	36	M6×1.0	2	2.00
	SK50AD/B-SFH8-200	8	21	27	200	36	M6×1.0	2	-
	SK50AD/B-SFH10-80	10	24	32	80	42	M8×1.0	2	1.50
	SK50AD/B-SFH10-130	10	24	32	130	42	M8×1.0	2	-
	SK50AD/B-SFH10-160	10	24	32	160	42	M8×1.0	2	2.00
	SK50AD/B-SFH10-200	10	24	32	200	42	M8×1.0	2	-
	SK50AD/B-SFH12-80	12	24	32	80	47	M10×1.0	2	1.50
	SK50AD/B-SFH12-130	12	24	32	130	47	M10×1.0	2	-

- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

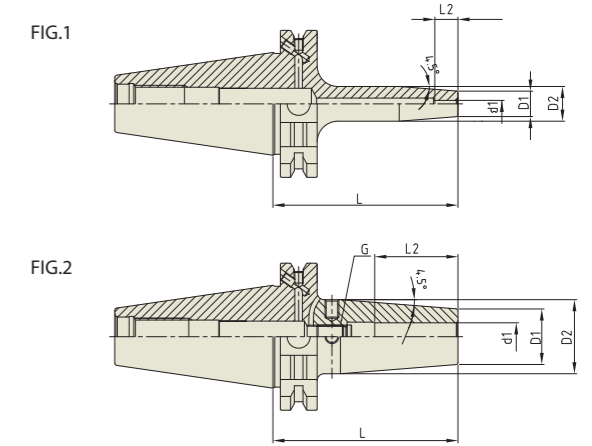
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SK (DIN 69871)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



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

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
50	SK50AD/B-SFH12-160	12	24	32	160	47	M10×1.0	2	2.00
	SK50AD/B-SFH12-200	12	24	32	200	47	M10×1.0	2	-
	SK50AD/B-SFH14-80	14	27	34	80	47	M10×1.0	2	1.60
	SK50AD/B-SFH14-130	14	27	34	130	47	M10×1.0	2	-
	SK50AD/B-SFH14-160	14	27	34	160	47	M10×1.0	2	2.10
	SK50AD/B-SFH14-200	14	27	34	200	47	M10×1.0	2	-
	SK50AD/B-SFH16-80	16	27	34	80	50	M12×1.0	2	1.60
	SK50AD/B-SFH16-130	16	27	34	130	50	M12×1.0	2	-
	SK50AD/B-SFH16-160	16	27	34	160	50	M12×1.0	2	2.10
	SK50AD/B-SFH16-200	16	27	34	200	50	M12×1.0	2	-
	SK50AD/B-SFH18-80	18	33	42	80	50	M12×1.0	2	1.60
	SK50AD/B-SFH18-130	18	33	42	130	50	M12×1.0	2	-
	SK50AD/B-SFH18-160	18	33	42	160	50	M12×1.0	2	2.00
	SK50AD/B-SFH18-200	18	33	42	200	50	M12×1.0	2	-
	SK50AD/B-SFH20-80	20	33	42	80	52	M16×1.0	2	1.80
	SK50AD/B-SFH20-130	20	33	42	130	52	M16×1.0	2	-
	SK50AD/B-SFH20-160	20	33	42	160	52	M16×1.0	2	2.20
	SK50AD/B-SFH20-200	20	33	42	200	52	M16×1.0	2	-
	SK50AD/B-SFH25-90	25	44	53	90	58	M16×1.0	2	2.00
	SK50AD/B-SFH25-130	25	44	53	130	58	M16×1.0	2	-
SK50AD/B-SFH25-160	25	44	53	160	58	M16×1.0	2	2.40	
SK50AD/B-SFH25-200	25	44	53	200	58	M16×1.0	2	-	

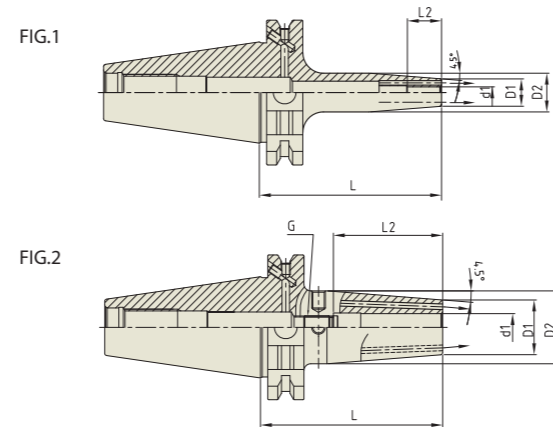
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

SK (DIN 69871)

SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



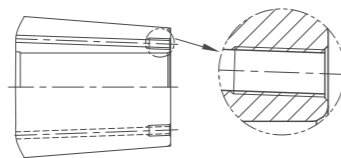
DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3μm	Coolant System AD/B+C
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
40	SK40AD/B-SFH3C-80*1	3	12	17	80	10	-	1	-
	SK40AD/B-SFH4C-80*1	4	12	17	80	12	-	1	-
	SK40AD/B-SFH5C-80*1	5	12	17	80	15	-	1	-
	SK40AD/B-SFH6C-80	6	21	27	80	36	M5x0.8	2	1.10
	SK40AD/B-SFH6C-130	6	21	27	130	36	M5x0.8	2	-
	SK40AD/B-SFH6C-160	6	21	27	160	36	M5x0.8	2	1.15
	SK40AD/B-SFH8C-80	8	21	27	80	36	M6x1.0	2	1.11
	SK40AD/B-SFH8C-130	8	21	27	130	36	M6x1.0	2	-
	SK40AD/B-SFH8C-160	8	21	27	160	36	M6x1.0	2	1.15
	SK40AD/B-SFH10C-80	10	24	32	80	42	M8x1.0	2	1.10
	SK40AD/B-SFH10C-130	10	24	32	130	42	M8x1.0	2	-
	SK40AD/B-SFH10C-160	10	24	32	160	42	M8x1.0	2	1.15
	SK40AD/B-SFH12C-80	12	24	32	80	47	M10x1.0	2	1.10
	SK40AD/B-SFH12C-130	12	24	32	130	47	M10x1.0	2	-
	SK40AD/B-SFH12C-160	12	24	32	160	47	M10x1.0	2	1.15
	SK40AD/B-SFH14C-80	14	27	34	80	47	M10x1.0	2	1.20
	SK40AD/B-SFH14C-130	14	27	34	130	47	M10x1.0	2	-
	SK40AD/B-SFH14C-160	14	27	34	160	47	M10x1.0	2	1.50
	SK40AD/B-SFH16C-80	16	27	34	80	50	M12x1.0	2	1.20
	SK40AD/B-SFH16C-130	16	27	34	130	50	M12x1.0	2	-
	SK40AD/B-SFH16C-160	16	27	34	160	50	M12x1.0	2	1.50
	SK40AD/B-SFH18C-80	18	33	42	80	50	M12x1.0	2	1.30
	SK40AD/B-SFH18C-130	18	33	42	130	50	M12x1.0	2	-
	SK40AD/B-SFH18C-160	18	33	42	160	50	M12x1.0	2	1.60
	SK40AD/B-SFH20C-80	20	33	42	80	52	M16x1.0	2	1.40
	SK40AD/B-SFH20C-130	20	33	42	130	52	M16x1.0	2	-
	SK40AD/B-SFH20C-160	20	33	42	160	52	M16x1.0	2	1.70
	SK40AD/B-SFH25C-90	25	44	53	90	58	M16x1.0	2	1.70
	SK40AD/B-SFH25C-130	25	44	53	130	58	M16x1.0	2	-
	SK40AD/B-SFH25C-160	25	44	53	160	58	M16x1.0	2	2.00

▶ NEXT PAGE

- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)
- ▶ *1 Resealable type is not available.

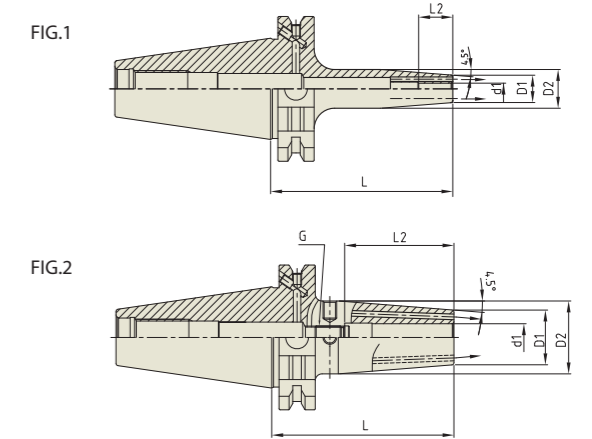
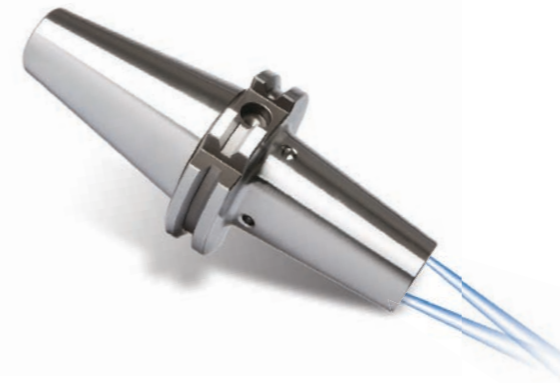


SK (DIN 69871)

SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



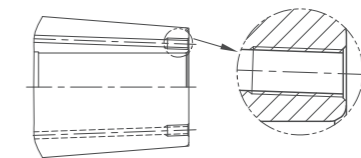
DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3μm	Coolant System AD/B+C
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
50	SK50AD/B-SFH3C-80*1	3	12	17	80	10	-	1	-
	SK50AD/B-SFH4C-80*1	4	12	17	80	12	-	1	-
	SK50AD/B-SFH5C-80*1	5	12	17	80	15	-	1	-
	SK50AD/B-SFH6C-80	6	21	27	80	36	M5x0.8	2	1.50
	SK50AD/B-SFH6C-130	6	21	27	130	36	M5x0.8	2	-
	SK50AD/B-SFH6C-160	6	21	27	160	36	M5x0.8	2	2.00
	SK50AD/B-SFH6C-200	6	21	27	200	36	M5x0.8	2	-
	SK50AD/B-SFH8C-80	8	21	27	80	36	M6x1.0	2	1.50
	SK50AD/B-SFH8C-130	8	21	27	130	36	M6x1.0	2	-
	SK50AD/B-SFH8C-160	8	21	27	160	36	M6x1.0	2	2.00
	SK50AD/B-SFH8C-200	8	21	27	200	36	M6x1.0	2	-
	SK50AD/B-SFH10C-80	10	24	32	80	42	M8x1.0	2	1.50
	SK50AD/B-SFH10C-130	10	24	32	130	42	M8x1.0	2	-
	SK50AD/B-SFH10C-160	10	24	32	160	42	M8x1.0	2	2.00
	SK50AD/B-SFH10C-200	10	24	32	200	42	M8x1.0	2	-
	SK50AD/B-SFH12C-80	12	24	32	80	47	M10x1.0	2	1.60
	SK50AD/B-SFH12C-130	12	24	32	130	47	M10x1.0	2	-
	SK50AD/B-SFH12C-160	12	24	32	160	47	M10x1.0	2	2.10
	SK50AD/B-SFH12C-200	12	24	32	200	47	M10x1.0	2	-
	SK50AD/B-SFH14C-80	14	27	34	80	47	M10x1.0	2	1.60
	SK50AD/B-SFH14C-130	14	27	34	130	47	M10x1.0	2	-
	SK50AD/B-SFH14C-160	14	27	34	160	47	M10x1.0	2	2.10
	SK50AD/B-SFH14C-200	14	27	34	200	47	M10x1.0	2	-
	SK50AD/B-SFH16C-80	16	27	34	80	50	M12x1.0	2	1.60
	SK50AD/B-SFH16C-130	16	27	34	130	50	M12x1.0	2	-
	SK50AD/B-SFH16C-160	16	27	34	160	50	M12x1.0	2	2.10
	SK50AD/B-SFH16C-200	16	27	34	200	50	M12x1.0	2	-

▶ NEXT PAGE

- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)
- ▶ *1 Resealable type is not available.

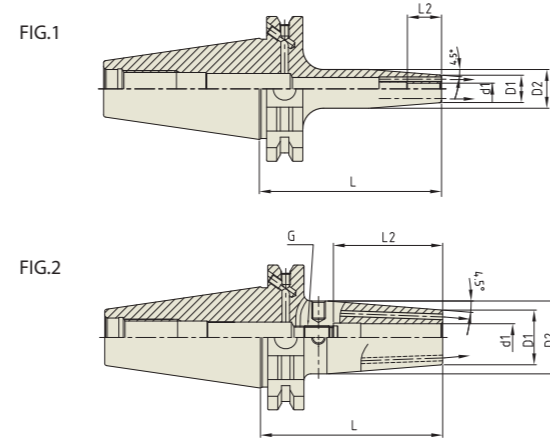
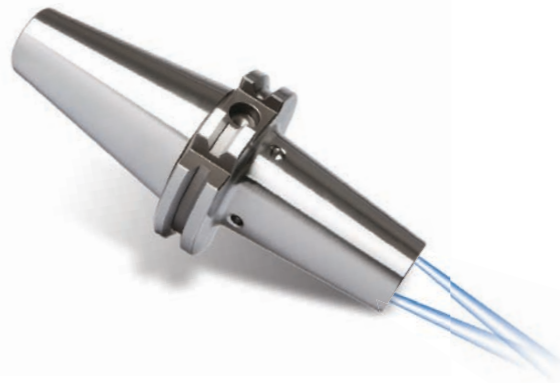


SK (DIN 69871)

SHRINK FIT HOLDER (COOLANT CHANNEL)



SCHRUMPFUTTER
 MANDRIN DE FRETAGE
 MADRINI PER CALLETAMENTO A CALDO
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR

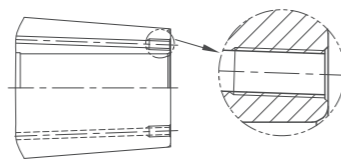


DIN 69871 -SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3μm	Coolant System AD/B+C
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
50	SK50AD/B-SFH18C-80	18	33	42	80	50	M12x1.0	2	1.60
	SK50AD/B-SFH18C-130	18	33	42	130	50	M12x1.0	2	-
	SK50AD/B-SFH18C-160	18	33	42	160	50	M12x1.0	2	2.00
	SK50AD/B-SFH18C-200	18	33	42	200	50	M12x1.0	2	-
	SK50AD/B-SFH20C-80	20	33	42	80	52	M16x1.0	2	1.80
	SK50AD/B-SFH20C-130	20	33	42	130	52	M16x1.0	2	-
	SK50AD/B-SFH20C-160	20	33	42	160	52	M16x1.0	2	2.20
	SK50AD/B-SFH20C-200	20	33	42	200	52	M16x1.0	2	-
	SK50AD/B-SFH25C-90	25	44	53	90	58	M16x1.0	2	2.00
	SK50AD/B-SFH25C-130	25	44	53	130	58	M16x1.0	2	-
	SK50AD/B-SFH25C-160	25	44	53	160	58	M16x1.0	2	2.40
	SK50AD/B-SFH25C-200	25	44	53	200	58	M16x1.0	2	-

- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)

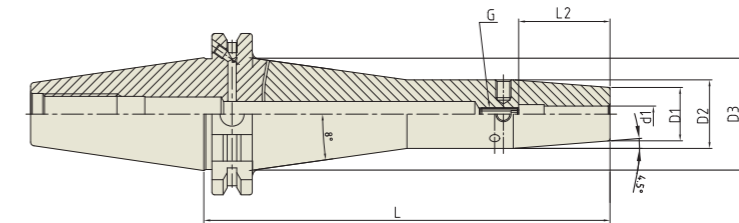


SK (DIN 69871)

SHRINK FIT HOLDER (REINFORCED)



SCHRUMPFUTTER (VERSTÄRKT)
 MANDRIN DE FRETAGE (RENFORCÉ)
 MADRINI PER CALLETAMENTO A CALDO (RINFORZATO)
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR (REFORZADO)



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

TAPER No.	MODEL No.	d1	D1	D2	D3	L	L2	G	WEIGHT (Kg)
40	SK40AD/B-SFH6 TW-160	6	21	27	44.1	160	36	M5x0.8	1.56
	SK40AD/B-SFH8 TW-160	8	21	27	44.1	160	36	M6x1.0	1.56
	SK40AD/B-SFH10 TW-160	10	24	32	49.1	160	42	M8x1.0	1.78
	SK40AD/B-SFH12 TW-160	12	24	32	49.1	160	47	M10x1.0	1.77
	SK40AD/B-SFH14 TW-160	14	27	34	51.1	160	47	M10x1.0	1.74
	SK40AD/B-SFH16 TW-160	16	27	34	51.1	160	50	M12x1.0	1.72
50	SK50AD/B-SFH6 TW-160	6	21	27	44.1	160	36	M5x0.8	3.32
	SK50AD/B-SFH8 TW-160	8	21	27	44.1	160	36	M6x1.0	3.32
	SK50AD/B-SFH10 TW-160	10	24	32	49.1	160	42	M8x1.0	3.54
	SK50AD/B-SFH12 TW-160	12	24	32	49.1	160	47	M10x1.0	3.54
	SK50AD/B-SFH14 TW-160	14	27	34	51.1	160	47	M10x1.0	3.50
	SK50AD/B-SFH16 TW-160	16	27	34	51.1	160	50	M12x1.0	3.48
SK50AD/B-SFH20 TW-160	20	33	42	59.1	160	52	M16x1.0	3.88	

- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Coolant channel type is available upon request.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

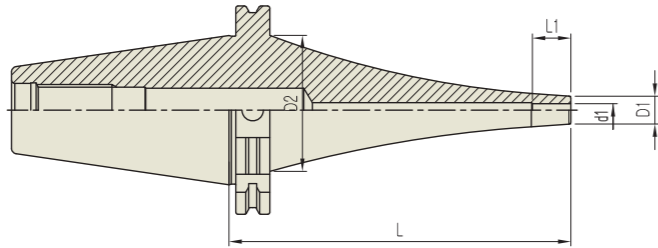
SK (DIN 69871)

SHRINK FIT HOLDER (CURVED)

NEW

SFH

SCHRUMPFUTTER (GEBOGEN)
 MANDRIN DE FRETAGE (INCURVÉ)
 MADRINI PER CALLETAMENTO A CALDO (CURVO)
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR (CURVADO)



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

TAPER No.	MODEL No.	d1	D1	D2	L	L2	WEIGHT (Kg)
50	SK50AD/B-SFH8CV-195	8	16	70	195	24	-
	SK50AD/B-SFH10CV-165	10	19	70	165	30	-
	SK50AD/B-SFH10CV-195	10	19	70	195	30	-
	SK50AD/B-SFH12CV-165	12	22	70	165	30	-
	SK50AD/B-SFH12CV-195	12	22	70	195	30	-

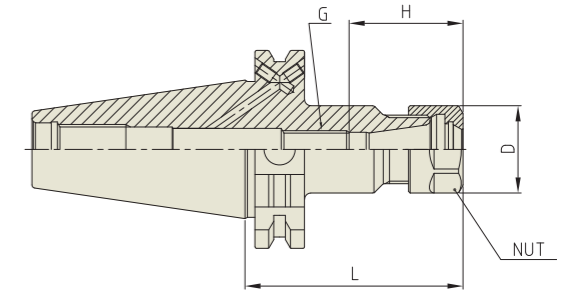
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

SK (DIN 69871)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
40	SK40AD/B-ER11-70	0.5 - 7.0	70	19	M6	45	ER11	0.90
	SK40AD/B-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	0.95
	SK40AD/B-ER16-70	0.5 - 10.0	70	28	M10	36	ER16	0.44
	SK40AD/B-ER16-100	0.5 - 10.0	100	28	M10	36	ER16	0.56
	SK40AD/B-ER16-130	0.5 - 10.0	130	28	M10	36	ER16	0.69
	SK40AD/B-ER16-160	0.5 - 10.0	160	28	M10	36	ER16	0.81
	SK40AD/B-ER20-70	0.5 - 13.0	70	34	M12	44.5	ER20	0.47
	SK40AD/B-ER20-100	0.5 - 13.0	100	34	M12	44.5	ER20	0.64
	SK40AD/B-ER20-130	0.5 - 13.0	130	34	M12	44.5	ER20	0.80
	SK40AD/B-ER20-160	0.5 - 13.0	160	34	M12	44.5	ER20	1.00
	SK40AD/B-ER25-70	1.0 - 16.0	70	42	M12	52	ER25	0.56
	SK40AD/B-ER25-100	1.0 - 16.0	100	42	M12	52	ER25	0.84
	SK40AD/B-ER25-130	1.0 - 16.0	130	42	M12	52	ER25	1.14
	SK40AD/B-ER25-160	1.0 - 16.0	160	42	M12	52	ER25	1.44
	SK40AD/B-ER32-70	1.0 - 20.0	70	50	M12	60	ER32	0.51
	SK40AD/B-ER32-100	1.0 - 20.0	100	50	M12	60	ER32	0.88
	SK40AD/B-ER32-130	1.0 - 20.0	130	50	M12	60	ER32	1.21
	SK40AD/B-ER32-160	1.0 - 20.0	160	50	M12	60	ER32	1.54
	SK40AD/B-ER40-80	2.0 - 30.0	80	63	M12	53	ER40	0.65
	SK40AD/B-ER40-100	2.0 - 30.0	100	63	M12	75	ER40	0.90
SK40AD/B-ER40-130	2.0 - 30.0	130	63	M12	75	ER40	1.34	
SK40AD/B-ER40-160	2.0 - 30.0	160	63	M12	75	ER40	1.77	
50	SK50AD/B-ER16-70	0.5 - 10.0	70	28	M10	36	ER16	2.71
	SK50AD/B-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	2.82
	SK50AD/B-ER16-130	0.5 - 10.0	130	28	M10	36	ER16	2.92
	SK50AD/B-ER16-160	0.5 - 10.0	160	28	M10	36	ER16	3.01
	SK50AD/B-ER20-70	0.5 - 13.0	70	34	M12	44.5	ER20	2.78
	SK50AD/B-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	2.88
	SK50AD/B-ER20-130	0.5 - 13.0	130	34	M12	50	ER20	3.02
	SK50AD/B-ER20-160	0.5 - 13.0	160	34	M12	50	ER20	3.16
	SK50AD/B-ER25-70	1.0 - 16.0	70	42	M12	65	ER25	2.75
	SK50AD/B-ER25-100	1.0 - 16.0	100	42	M12	52	ER25	3.06
	SK50AD/B-ER25-130	1.0 - 16.0	130	42	M12	42	ER25	3.32
	SK50AD/B-ER25-160	1.0 - 16.0	160	42	M12	42	ER25	3.57
	SK50AD/B-ER32-70	1.0 - 20.0	70	50	M12	60	ER32	2.84
	SK50AD/B-ER32-100	1.0 - 20.0	100	50	M12	60	ER32	3.29
	SK50AD/B-ER32-130	1.0 - 20.0	130	50	M12	73	ER32	3.67
	SK50AD/B-ER32-160	1.0 - 20.0	160	50	M12	73	ER32	4.06
	SK50AD/B-ER40-80	2.0 - 30.0	80	63	M12	69	ER40	3.10
	SK50AD/B-ER40-100	2.0 - 30.0	100	63	M12	75	ER40	3.56
	SK50AD/B-ER40-130	2.0 - 30.0	130	63	M12	75	ER40	4.22
	SK50AD/B-ER40-160	2.0 - 30.0	160	63	M12	75	ER40	4.88

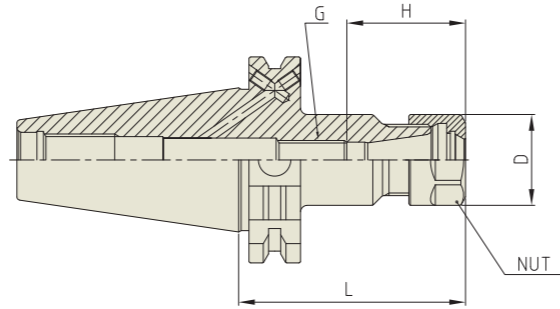
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

SK (DIN 69871)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
40	SK40AD/B-ER11-70	0.5 - 7.0	70	19	M6	45	ER11	0.90
	SK40AD/B-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	0.95
	SK40AD/B-ER16-70	0.5 - 10.0	70	28	M10	36	ER16	0.44
	SK40AD/B-ER16-100	0.5 - 10.0	100	28	M10	36	ER16	0.56
	SK40AD/B-ER16-130	0.5 - 10.0	130	28	M10	36	ER16	0.69
	SK40AD/B-ER16-160	0.5 - 10.0	160	28	M10	36	ER16	0.81
	SK40AD/B-ER20-70	0.5 - 13.0	70	34	M12	44.5	ER20	0.47
	SK40AD/B-ER20-100	0.5 - 13.0	100	34	M12	44.5	ER20	0.64
	SK40AD/B-ER20-130	0.5 - 13.0	130	34	M12	44.5	ER20	0.80
	SK40AD/B-ER20-160	0.5 - 13.0	160	34	M12	44.5	ER20	1.00
	SK40AD/B-ER25-70	1.0 - 16.0	70	42	M12	52	ER25	0.56
	SK40AD/B-ER25-100	1.0 - 16.0	100	42	M12	52	ER25	0.84
	SK40AD/B-ER25-130	1.0 - 16.0	130	42	M12	52	ER25	1.14
	SK40AD/B-ER25-160	1.0 - 16.0	160	42	M12	52	ER25	1.44
	SK40AD/B-ER32-70	1.0 - 20.0	70	50	M12	60	ER32	0.51
	SK40AD/B-ER32-100	1.0 - 20.0	100	50	M12	60	ER32	0.88
	SK40AD/B-ER32-130	1.0 - 20.0	130	50	M12	60	ER32	1.21
	SK40AD/B-ER32-160	1.0 - 20.0	160	50	M12	60	ER32	1.54
	SK40AD/B-ER40-80	2.0 - 30.0	80	63	M12	53	ER40	0.65
	SK40AD/B-ER40-100	2.0 - 30.0	100	63	M12	75	ER40	0.90
SK40AD/B-ER40-130	2.0 - 30.0	130	63	M12	75	ER40	1.34	
SK40AD/B-ER40-160	2.0 - 30.0	160	63	M12	75	ER40	1.77	
50	SK50AD/B-ER16-70	0.5 - 10.0	70	28	M10	36	ER16	2.71
	SK50AD/B-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	2.82
	SK50AD/B-ER16-130	0.5 - 10.0	130	28	M10	36	ER16	2.92
	SK50AD/B-ER16-160	0.5 - 10.0	160	28	M10	36	ER16	3.01
	SK50AD/B-ER20-70	0.5 - 13.0	70	34	M12	44.5	ER20	2.78
	SK50AD/B-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	2.88
	SK50AD/B-ER20-130	0.5 - 13.0	130	34	M12	50	ER20	3.02
	SK50AD/B-ER20-160	0.5 - 13.0	160	34	M12	50	ER20	3.16
	SK50AD/B-ER25-70	1.0 - 16.0	70	42	M12	65	ER25	2.75
	SK50AD/B-ER25-100	1.0 - 16.0	100	42	M12	52	ER25	3.06
	SK50AD/B-ER25-130	1.0 - 16.0	130	42	M12	42	ER25	3.32
	SK50AD/B-ER25-160	1.0 - 16.0	160	42	M12	42	ER25	3.57
	SK50AD/B-ER32-70	1.0 - 20.0	70	50	M12	60	ER32	2.84
	SK50AD/B-ER32-100	1.0 - 20.0	100	50	M12	60	ER32	3.29
	SK50AD/B-ER32-130	1.0 - 20.0	130	50	M12	73	ER32	3.67
	SK50AD/B-ER32-160	1.0 - 20.0	160	50	M12	73	ER32	4.06
	SK50AD/B-ER40-80	2.0 - 30.0	80	63	M12	69	ER40	3.10
	SK50AD/B-ER40-100	2.0 - 30.0	100	63	M12	75	ER40	3.56
	SK50AD/B-ER40-130	2.0 - 30.0	130	63	M12	75	ER40	4.22
	SK50AD/B-ER40-160	2.0 - 30.0	160	63	M12	75	ER40	4.88

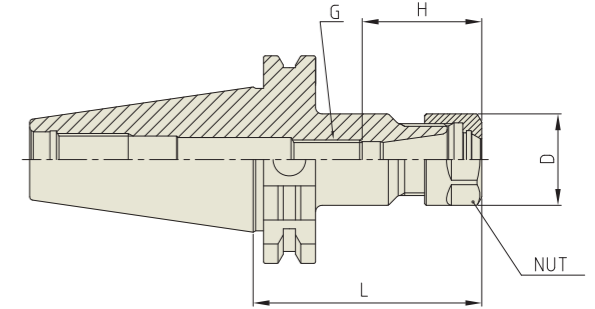
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

SK (DIN 69871)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
30	SK30-ER11-55	0.5 - 7.0	55	19	M6	45	ER11	0.43
	SK30-ER16-55	0.5 - 10.0	55	28	M10	45	ER16	0.44
	SK30-ER20-55	0.5 - 13.0	55	34	M12	50	ER20	0.44
	SK30-ER25-55	1.0 - 16.0	55	42	M12	65	ER25	0.42
	SK30-ER32-60	1.0 - 20.0	60	50	M12	65	ER32	0.46
	SK40-ER11-70	0.5 - 7.0	70	19	M6	45	ER11	0.90
40	SK40-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	0.95
	SK40-ER16-70	0.5 - 10.0	70	28	M10	45	ER16	0.44
	SK40-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	0.56
	SK40-ER16-130	0.5 - 10.0	130	28	M10	45	ER16	0.69
	SK40-ER16-160	0.5 - 10.0	160	28	M10	45	ER16	0.81
	SK40-ER20-70	0.5 - 13.0	70	34	M12	50	ER20	0.47
	SK40-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	0.64
	SK40-ER20-130	0.5 - 13.0	130	34	M12	50	ER20	0.80
	SK40-ER20-160	0.5 - 13.0	160	34	M12	50	ER20	1.00
	SK40-ER25-70	1.0 - 16.0	70	42	M12	65	ER25	0.56
	SK40-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	0.84
	SK40-ER25-130	1.0 - 16.0	130	42	M12	65	ER25	1.14
	SK40-ER25-160	1.0 - 16.0	160	42	M12	65	ER25	1.44
	SK40-ER32-70	1.0 - 20.0	70	50	M12	65	ER32	0.51
	SK40-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	0.88
	SK40-ER32-130	1.0 - 20.0	130	50	M12	65	ER32	1.21
	SK40-ER32-160	1.0 - 20.0	160	50	M12	65	ER32	1.54
	SK40-ER40-80	2.0 - 30.0	80	63	M12	69	ER40	0.65
	SK40-ER40-100	2.0 - 30.0	100	63	M12	69	ER40	0.90
	SK40-ER40-130	2.0 - 30.0	130	63	M12	69	ER40	1.34
SK40-ER40-160	2.0 - 30.0	160	63	M12	69	ER40	1.77	

- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

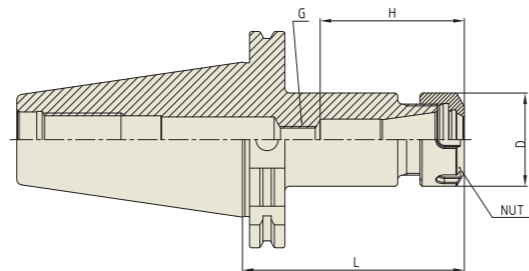
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SK (DIN 69871)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
50	SK50-ER16-70	0.5 - 10.0	70	28	M10	45	ER16	2.71
	SK50-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	2.82
	SK50-ER16-130	0.5 - 10.0	130	28	M10	45	ER16	2.92
	SK50-ER16-160	0.5 - 10.0	160	28	M10	45	ER16	3.01
	SK50-ER20-70	0.5 - 13.0	70	34	M12	50	ER20	2.78
	SK50-ER20-100	0.5 - 13.0	100	34	M12	40.5	ER20	2.88
	SK50-ER20-130	0.5 - 13.0	130	34	M12	50	ER20	3.02
	SK50-ER20-160	0.5 - 13.0	160	34	M12	50	ER20	3.16
	SK50-ER25-70	1.0 - 16.0	70	42	M12	65	ER25	2.75
	SK50-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	3.06
	SK50-ER25-130	1.0 - 16.0	130	42	M12	65	ER25	3.32
	SK50-ER25-160	1.0 - 16.0	160	42	M12	65	ER25	3.57
	SK50-ER32-70	1.0 - 20.0	70	50	M12	65	ER32	2.84
	SK50-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	3.29
	SK50-ER32-130	1.0 - 20.0	130	50	M12	65	ER32	3.67
	SK50-ER32-160	1.0 - 20.0	160	50	M12	65	ER32	4.06
	SK50-ER40-80	2.0 - 30.0	80	63	M12	75	ER40	3.10
	SK50-ER40-100	2.0 - 30.0	100	63	M12	75	ER40	3.56
	SK50-ER40-130	2.0 - 30.0	130	63	M12	75	ER40	4.22
	SK50-ER40-160	2.0 - 30.0	160	63	M12	75	ER40	4.88

- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

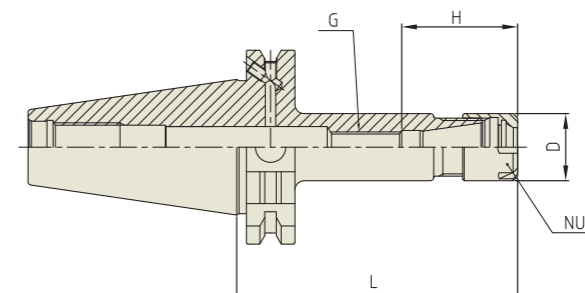
SK (DIN 69871)

ER COLLET CHUCK (SLIM)

NEW

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



DIN69871 -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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)	
40	SK40AD/B-ER11M-100	0.5 - 7.0	100	16	M6	29.5	ER11M / ER11	-	
	SK40AD/B-ER11M-130	0.5 - 7.0	130	16	M6	29.5	ER11M / ER11	-	
	SK40AD/B-ER11M-160	0.5 - 7.0	160	16	M6	29.5	ER11M / ER11	-	
	SK40AD/B-ER16M-100	0.5 - 10.0	100	22	M10	38	ER16M / ER16	-	
	SK40AD/B-ER16M-130	0.5 - 10.0	130	22	M10	38	ER16M / ER16	-	
	SK40AD/B-ER16M-160	0.5 - 10.0	160	22	M10	38	ER16M / ER16	-	
	SK40AD/B-ER20M-100	0.5 - 13.0	100	28	M12	44.5	ER20M / ER20	-	
	SK40AD/B-ER20M-130	0.5 - 13.0	130	28	M12	44.5	ER20M / ER20	-	
	SK40AD/B-ER20M-160	0.5 - 13.0	160	28	M12	44.5	ER20M / ER20	-	
	SK40AD/B-ER25M-100	0.5 - 16.0	100	35	M12	52	ER25M / ER25	-	
	SK40AD/B-ER25M-130	0.5 - 16.0	130	35	M12	52	ER25M / ER25	-	
	SK40AD/B-ER25M-160	0.5 - 16.0	160	35	M12	52	ER25M / ER25	-	
	50	SK50AD/B-ER16M-100	0.5 - 10.0	100	22	M10	38	ER16M / ER16	-
		SK50AD/B-ER16M-130	0.5 - 10.0	130	22	M10	38	ER16M / ER16	-
SK50AD/B-ER16M-160		0.5 - 10.0	160	22	M10	38	ER16M / ER16	-	
SK50AD/B-ER20M-100		0.5 - 13.0	100	28	M12	44.5	ER20M / ER20	-	
SK50AD/B-ER20M-130		0.5 - 13.0	130	28	M12	44.5	ER20M / ER20	-	
SK50AD/B-ER20M-160		0.5 - 13.0	160	28	M12	44.5	ER20M / ER20	-	
SK50AD/B-ER25M-100		0.5 - 16.0	100	35	M12	52	ER25M / ER25	-	
SK50AD/B-ER25M-130		0.5 - 16.0	130	35	M12	52	ER25M / ER25	-	
SK50AD/B-ER25M-160		0.5 - 16.0	160	35	M12	52	ER25M / ER25	-	

- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

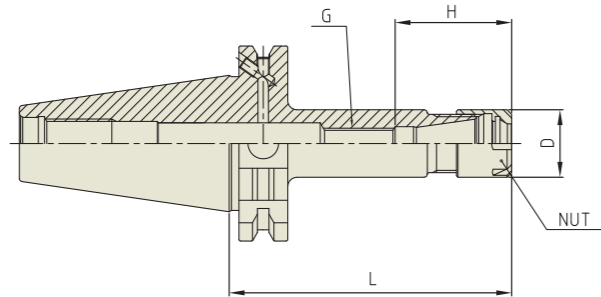
SK (DIN 69871)

ER COLLET CHUCK (SLIM)

NEW

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
40	SK40AD/B-ER11M-100	0.5 - 7.0	100	16	M6	29.5	ER11M / ER11	-
	SK40AD/B-ER11M-130	0.5 - 7.0	130	16	M6	29.5	ER11M / ER11	-
	SK40AD/B-ER11M-160	0.5 - 7.0	160	16	M6	29.5	ER11M / ER11	-
	SK40AD/B-ER16M-100	0.5 - 10.0	100	22	M10	38	ER16M / ER16	-
	SK40AD/B-ER16M-130	0.5 - 10.0	130	22	M10	38	ER16M / ER16	-
	SK40AD/B-ER16M-160	0.5 - 10.0	160	22	M10	38	ER16M / ER16	-
	SK40AD/B-ER20M-100	0.5 - 13.0	100	28	M12	44.5	ER20M / ER20	-
	SK40AD/B-ER20M-130	0.5 - 13.0	130	28	M12	44.5	ER20M / ER20	-
	SK40AD/B-ER20M-160	0.5 - 13.0	160	28	M12	44.5	ER20M / ER20	-
	SK40AD/B-ER25M-100	0.5 - 16.0	100	35	M12	52	ER25M / ER25	-
	SK40AD/B-ER25M-130	0.5 - 16.0	130	35	M12	52	ER25M / ER25	-
	SK40AD/B-ER25M-160	0.5 - 16.0	160	35	M12	52	ER25M / ER25	-
50	SK50AD/B-ER16M-100	0.5 - 10.0	100	22	M10	38	ER16M / ER16	-
	SK50AD/B-ER16M-130	0.5 - 10.0	130	22	M10	38	ER16M / ER16	-
	SK50AD/B-ER16M-160	0.5 - 10.0	160	22	M10	38	ER16M / ER16	-
	SK50AD/B-ER20M-100	0.5 - 13.0	100	28	M12	44.5	ER20M / ER20	-
	SK50AD/B-ER20M-130	0.5 - 13.0	130	28	M12	44.5	ER20M / ER20	-
	SK50AD/B-ER20M-160	0.5 - 13.0	160	28	M12	44.5	ER20M / ER20	-
	SK50AD/B-ER25M-100	0.5 - 16.0	100	35	M12	52	ER25M / ER25	-
	SK50AD/B-ER25M-130	0.5 - 16.0	130	35	M12	52	ER25M / ER25	-
SK50AD/B-ER25M-160	0.5 - 16.0	160	35	M12	52	ER25M / ER25	-	

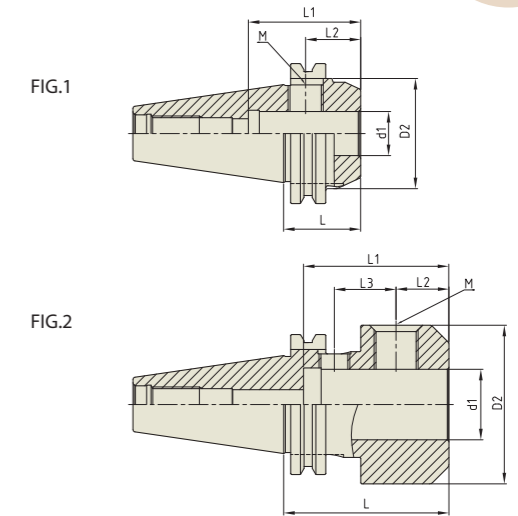
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

SK (DIN 69871)

END MILL HOLDER (SHORT TYPE)

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



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.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40	SK40-EMH16-35	16	48	35	51	24	-	M14	1	0.80
	SK40-EMH20-35	20	50	35	51	25	-	M16	1	0.90
	SK40-EMH25-60	25	50	60	59	24	25	M18 / M14	2	1.20
	SK40-EMH32-75	32	72	75	66	24	28	M20 / M14	2	1.80
50	SK50-EMH25-60	25	65	60	60	23.5	25.4	M18 / M14	2	3.35
	SK50-EMH32-60	32	72	60	63	24	24.9	M20 / M14	2	3.50

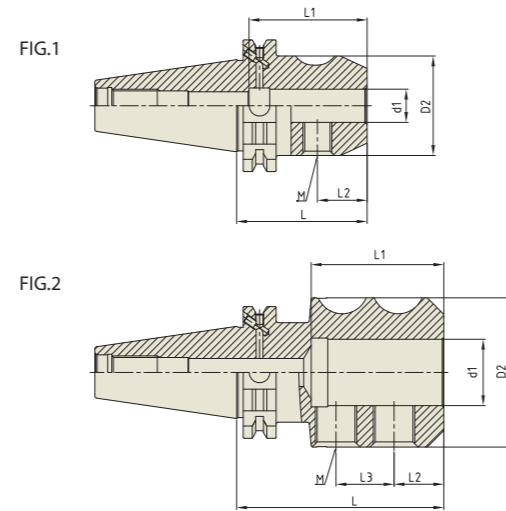
- ▶ CAT(ASME B5.50) taper and Inch type products are available.

SK (DIN 69871)

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



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

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
30	SK30-EMH6-50	6	25	50	35	18	-	M6	1	0.73
	SK30-EMH8-50	8	28	50	35	18	-	M8	1	0.83
	SK30-EMH10-50	10	35	50	42	20	-	M10	1	0.90
	SK30-EMH12-50	12	42	50	47	22.5	-	M12	1	0.90
	SK30-EMH16-63	16	48	63	50	24	-	M14	1	1.10
40	SK40AD/B-EMH6-50	6	25	50	35	18	-	M6	1	0.86
	SK40AD/B-EMH8-50	8	28	50	35	18	-	M8	1	0.89
	SK40AD/B-EMH10-50	10	35	50	39	20	-	M10	1	0.95
	SK40AD/B-EMH12-50	12	42	50	46	22.5	-	M12	1	1.03
	SK40AD/B-EMH16-63	16	48	63	57	24	-	M14	1	1.26
	SK40AD/B-EMH20-63	20	52	63	54	25	-	M16	1	1.28
	SK40AD/B-EMH25-100	25	65	100	60	24	25	M18	2	2.28
	SK40AD/B-EMH32-100	32	72	100	64	24	28	M20	2	2.50
	SK50AD/B-EMH6-63	6	25	63	35	18	-	M6	1	2.70
50	SK50AD/B-EMH8-63	8	28	63	35	18	-	M8	1	2.70
	SK50AD/B-EMH10-63	10	35	63	39	20	-	M10	1	2.90
	SK50AD/B-EMH12-63	12	42	63	46	22.5	-	M12	1	2.90
	SK50AD/B-EMH16-63	16	48	63	49	24	-	M14	1	3.00
	SK50AD/B-EMH20-63	20	52	63	52	25	-	M16	1	3.05
	SK50AD/B-EMH25-80	25	65	80	60	24	25	M18	2	3.73
	SK50AD/B-EMH32-100	32	72	100	64	24	28	M20	2	4.53
	SK50AD/B-EMH40-100	40	80	100	74	30	32	M20	2	4.77
	SK50AD/B-EMH50-125	50	100	125	84	35	35	M24	2	7.03

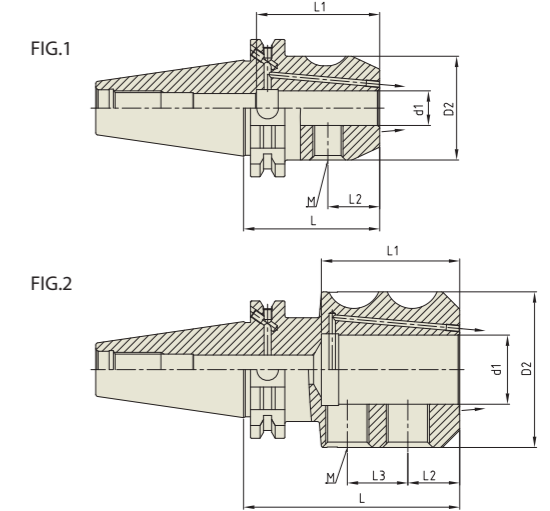
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

SK (DIN 69871)

END MILL HOLDER (COOLANT CHANNEL)

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



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

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40	SK40AD/B-EMH6C-50	6	25	50	35	18	-	M6	1	0.86
	SK40AD/B-EMH8C-50	8	28	50	35	18	-	M8	1	0.89
	SK40AD/B-EMH10C-50	10	35	50	39	20	-	M10	1	0.95
	SK40AD/B-EMH12C-50	12	42	50	36	22.5	-	M12	1	1.03
	SK40AD/B-EMH14C-50	14	44	50	48	22.5	-	M12	1	1.26
	SK40AD/B-EMH16C-63	16	48	63	54	24	-	M14	1	1.28
	SK40AD/B-EMH18C-63	18	50	63	54	24	-	M14	1	1.35
	SK40AD/B-EMH20C-63	20	52	63	54	25	-	M16	1	1.28
	SK40AD/B-EMH25C-100	25	65	100	55	24	25	M18	2	2.28
	SK40AD/B-EMH32C-100	32	72	100	69	24	28	M20	2	2.50
50	SK50AD/B-EMH6C-63	6	25	63	35	18	-	M6	1	2.70
	SK50AD/B-EMH8C-63	8	28	63	35	18	-	M8	1	2.70
	SK50AD/B-EMH10C-63	10	35	63	39	20	-	M10	1	2.90
	SK50AD/B-EMH12C-63	12	42	63	46	22.5	-	M12	1	2.90
	SK50AD/B-EMH14C-63	14	44	63	46	22.5	-	M12	1	2.90
	SK50AD/B-EMH16C-63	16	48	63	46	24	-	M14	1	3.00
	SK50AD/B-EMH18C-63	18	50	63	46	24	-	M14	1	3.00
	SK50AD/B-EMH20C-63	20	52	63	56	25	-	M16	1	3.05
	SK50AD/B-EMH25C-80	25	65	80	60	24	25	M18	2	3.73
	SK50AD/B-EMH32C-100	32	72	100	64	24	28	M20	2	4.53
	SK50AD/B-EMH40C-120	40	80	120	74	30	32	M20	2	4.77
SK50AD/B-EMH50C-125	50	100	125	84	35	35	M24	2	7.03	

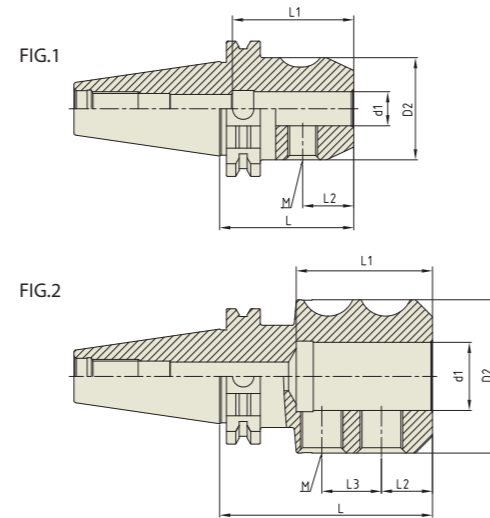
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

SK (DIN 69871)

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
 MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
 MANDRINI PORTA FRESA TIPO WELDON
 PORTAFRESAS Y EJES DE SUJECCION LATERAL



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.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
30	SK30-EMH6-50	6	25	50	35	18	-	M6	1	0.73
	SK30-EMH8-50	8	28	50	35	18	-	M8	1	0.83
	SK30-EMH10-50	10	35	50	42	20	-	M10	1	0.90
	SK30-EMH12-50	12	42	50	47	22.5	-	M12	1	0.90
	SK30-EMH16-63	16	48	63	50	24	-	M14	1	1.10
40	SK40-EMH6-50	6	25	50	35	18	-	M6	1	0.86
	SK40-EMH8-50	8	28	50	35	18	-	M8	1	0.89
	SK40-EMH10-50	10	35	50	39	20	-	M10	1	0.95
	SK40-EMH12-50	12	42	50	46	22.5	-	M12	1	1.03
	SK40-EMH16-63	16	48	63	57	24	-	M14	1	1.26
	SK40-EMH20-63	20	52	63	54	25	-	M16	1	1.28
	SK40-EMH25-100	25	65	100	60	24	25	M18	2	2.28
SK40-EMH32-100	32	72	100	64	24	28	M20	2	2.50	
50	SK50-EMH6-63	6	25	63	35	18	-	M6	1	2.70
	SK50-EMH8-63	8	28	63	35	18	-	M8	1	2.70
	SK50-EMH10-63	10	35	63	39	20	-	M10	1	2.90
	SK50-EMH12-63	12	42	63	46	22.5	-	M12	1	2.90
	SK50-EMH16-63	16	48	63	49	24	-	M14	1	3.00
	SK50-EMH20-63	20	52	63	52	25	-	M16	1	3.05
	SK50-EMH25-80	25	65	80	60	24	25	M18	2	3.73
	SK50-EMH32-100	32	72	100	64	24	28	M20	2	4.53
	SK50-EMH40-100	40	80	100	74	30	32	M20	2	4.77
	SK50-EMH50-125	50	100	125	84	35	35	M24	2	7.03

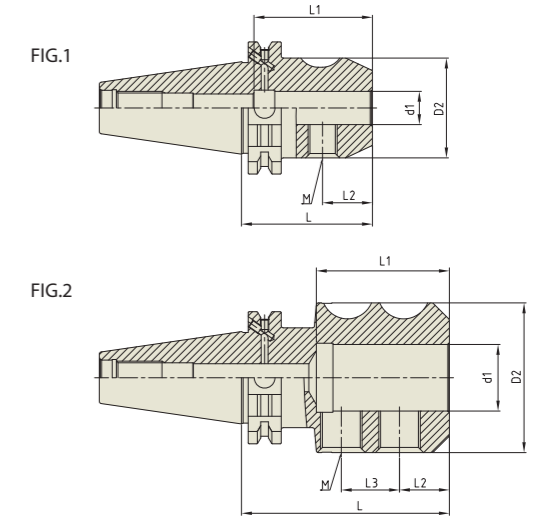
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- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.

SK (DIN 69871)

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
 MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
 MANDRINI PORTA FRESA TIPO WELDON
 PORTAFRESAS Y EJES DE SUJECCION LATERAL



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.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40	SK40AD/B-EMH6-50	6	25	50	35	18	-	M6	1	0.86
	SK40AD/B-EMH8-50	8	28	50	35	18	-	M8	1	0.89
	SK40AD/B-EMH10-50	10	35	50	39	20	-	M10	1	0.95
	SK40AD/B-EMH12-50	12	42	50	46	22.5	-	M12	1	1.03
	SK40AD/B-EMH16-63	16	48	63	57	24	-	M14	1	1.28
	SK40AD/B-EMH20-63	20	52	63	54	25	-	M16	1	1.28
	SK40AD/B-EMH25-100	25	65	100	60	24	25	M18	2	2.28
50	SK40AD/B-EMH32-100	32	72	100	64	24	28	M20	2	2.50
	SK50AD/B-EMH6-63	6	25	63	35	18	-	M6	1	2.70
	SK50AD/B-EMH8-63	8	28	63	35	18	-	M8	1	2.70
	SK50AD/B-EMH10-63	10	35	63	39	20	-	M10	1	2.90
	SK50AD/B-EMH12-63	12	42	63	44	22.5	-	M12	1	2.90
	SK50AD/B-EMH16-63	16	48	63	47	24	-	M14	1	3.00
	SK50AD/B-EMH20-63	20	52	63	51	25	-	M16	1	3.05
	SK50AD/B-EMH25-80	25	65	80	60	24	25	M18	2	3.73
	SK50AD/B-EMH32-100	32	72	100	64	24	28	M20	2	4.53
	SK50AD/B-EMH40-100	40	80	100	74	30	32	M20	2	4.77
	SK50AD/B-EMH50-125	50	100	125	84	35	35	M24	2	7.03

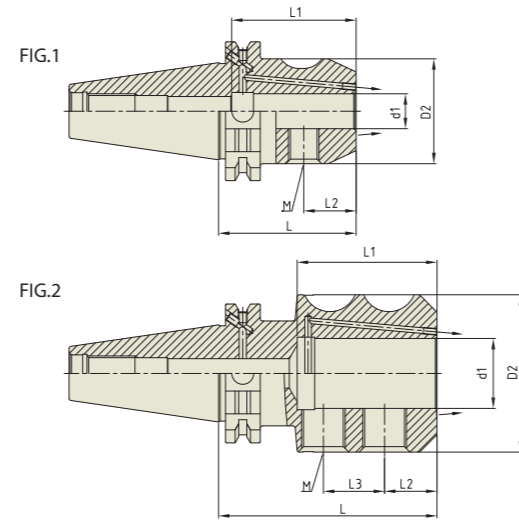
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.

SK (DIN 69871)

END MILL HOLDER (COOLANT CHANNEL)

EMH

FRÄSERFUTTER UND FLÄCHENSPIANNFUTTER
 MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
 MANDRINI PORTA FRESA TIPO WELDON
 PORTAFRESAS Y EJES DE SUJECCION LATERAL



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

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)	
40	SK40AD/B-EMH6C-50	6	25	50	35	18	-	M6	1	0.86	
	SK40AD/B-EMH8C-50	8	28	50	35	18	-	M8	1	0.89	
	SK40AD/B-EMH10C-50	10	35	50	39	20	-	M10	1	0.95	
	SK40AD/B-EMH12C-50	12	42	50	46	22.5	-	M12	1	1.03	
	SK40AD/B-EMH14C-50	14	44	50	48	22.5	-	M12	1	1.26	
	SK40AD/B-EMH16C-63	16	48	63	54	24	-	M14	1	1.28	
	SK40AD/B-EMH18C-63	18	50	63	54	24	-	M14	1	1.35	
	SK40AD/B-EMH20C-63	20	52	63	55	25	-	M16	1	1.28	
	SK40AD/B-EMH25C-100	25	65	100	59	24	25	M18	2	2.28	
	SK40AD/B-EMH32C-100	32	72	100	64	24	28	M20	2	2.50	
	50	SK50AD/B-EMH6C-63	6	25	63	35	18	-	M6	1	2.70
		SK50AD/B-EMH8C-63	8	28	63	35	18	-	M8	1	2.70
SK50AD/B-EMH10C-63		10	35	63	39	20	-	M10	1	2.90	
SK50AD/B-EMH12C-63		12	42	63	46	22.5	-	M12	1	2.90	
SK50AD/B-EMH14C-63		14	44	63	46	22.5	-	M12	1	2.90	
SK50AD/B-EMH16C-63		16	48	63	46	24	-	M14	1	3.00	
SK50AD/B-EMH18C-63		18	50	63	46	24	-	M14	1	3.00	
SK50AD/B-EMH20C-63		20	52	63	56	25	-	M16	1	3.05	
SK50AD/B-EMH25C-80		25	65	80	60	24	25	M18	2	3.73	
SK50AD/B-EMH32C-100		32	72	100	64	24	28	M20	2	4.53	
SK50AD/B-EMH40C-120		40	80	120	74	30	32	M20	2	4.77	
SK50AD/B-EMH50C-125		50	100	125	84	35	35	M24	2	7.03	

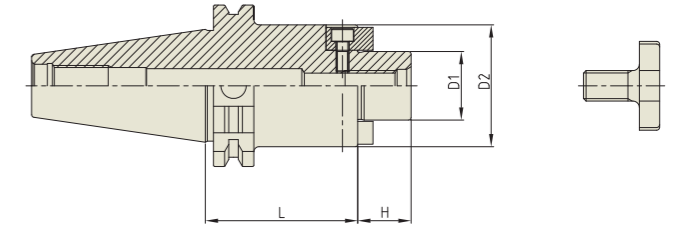
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.

SK (DIN 69871)

SHELL MILL ARBOR

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



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.	D1	D2	L	H	BOLT	WEIGHT (Kg)	
30	SK30-SMA16-50	16	32	50	17	M8x16L	0.85	
	SK30-SMA22-50	22	40	50	19	M10x18L	0.90	
	SK30-SMA27-50	27	48	50	21	M12x22L	1.03	
40	SK40-SMA16-60	16	32	60	17	M8x16L	0.35	
	SK40-SMA16-120	16	32	120	17	M8x16L	1.70	
	SK40-SMA22-60	22	40	60	19	M10x18L	1.45	
	SK40-SMA22-120	22	40	120	19	M10x18L	1.80	
	SK40-SMA27-60	27	48	60	21	M12x22L	1.70	
	SK40-SMA27-120	27	48	120	21	M12x22L	2.40	
	SK40-SMA32-60	32	58	60	24	M16x26L	1.80	
	SK40-SMA32-120	32	58	120	24	M16x26L	3.70	
	SK40-SMA40-60	40	70	60	27	M20x30L	3.10	
	50	SK50-SMA16-75	16	32	75	17	M8x16L	2.80
		SK50-SMA16-120	16	32	120	17	M8x16L	3.90
		SK50-SMA22-75	22	40	75	19	M10x18L	3.10
SK50-SMA22-120		22	40	120	19	M10x18L	4.40	
SK50-SMA27-75		27	48	75	21	M12x22L	3.40	
SK50-SMA27-120		27	48	120	21	M12x22L	4.70	
SK50-SMA32-75		32	58	75	24	M16x26L	3.80	
SK50-SMA32-120		32	58	120	24	M16x26L	5.00	
SK50-SMA40-75		40	70	75	27	M20x30L	4.50	
SK50-SMA40-120		40	70	120	27	M20x30L	6.05	
SK50-SMA50-75	50	90	75	30	M24x36L	5.90		

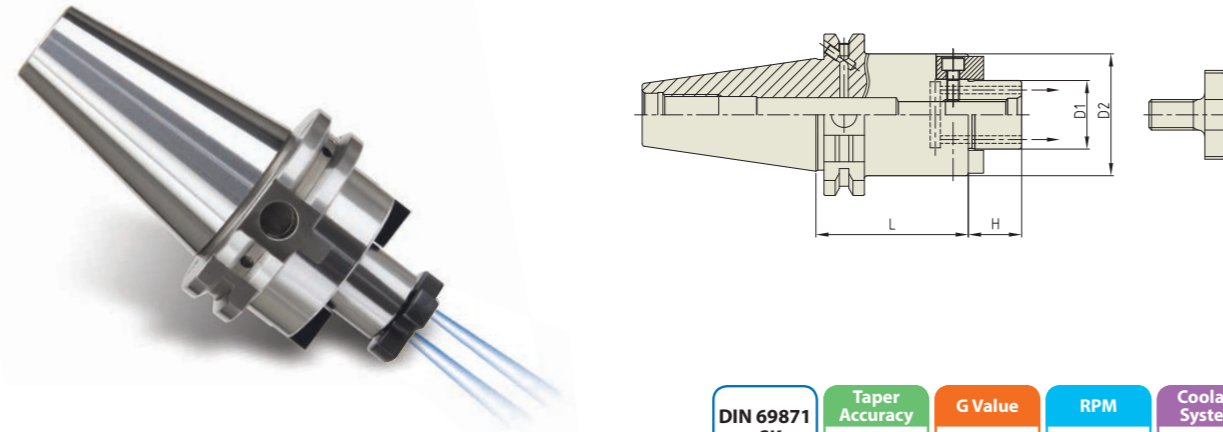
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ For parts, please refer to page 325.

SK (DIN 69871)

SHELL MILL ARBOR (COOLANT CHANNEL & SMALL FACE)

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



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

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
40	SK40AD/B-SMA16C-60	16	32	60	17	M8x16L	0.35
	SK40AD/B-SMA16C-120	16	32	120	17	M8x16L	0.70
	SK40AD/B-SMA22C-44	22	40	44	19	M10x18L	1.03
	SK40AD/B-SMA22C-100	22	40	100	19	M10x18L	1.60
	SK40AD/B-SMA22C-120	22	40	120	19	M10x18L	1.90
	SK40AD/B-SMA27C-44	27	48	44	21	M12x22L	1.16
	SK40AD/B-SMA27C-100	27	48	100	21	M12x22L	1.97
	SK40AD/B-SMA27C-120	27	48	120	21	M12x22L	2.23
	SK40AD/B-SMA32C-60	32	58	60	24	M16x26L	1.64
	SK40AD/B-SMA32C-120	32	58	120	24	M16x26L	2.00
	SK40AD/B-SMA40C-60	40	70	60	27	M20x30L	1.83
	SK40AD/B-SMA40C-120	40	70	120	27	M20x30L	2.10
50	SK50AD/B-SMA16C-75	16	32	75	17	M8x16L	2.20
	SK50AD/B-SMA16C-120	16	32	120	17	M8x16L	2.50
	SK50AD/B-SMA22C-44	22	40	44	19	M10x18L	2.84
	SK50AD/B-SMA22C-75	22	40	75	19	M10x18L	3.10
	SK50AD/B-SMA22C-100	22	40	100	19	M10x18L	3.37
	SK50AD/B-SMA22C-120	22	40	120	19	M10x18L	3.60
	SK50AD/B-SMA22C-160	22	40	160	19	M10x18L	3.93
	SK50AD/B-SMA27C-75	27	48	75	21	M12x22L	3.40
	SK50AD/B-SMA27C-100	27	48	100	21	M12x22L	3.74
	SK50AD/B-SMA27C-120	27	48	120	21	M12x22L	4.00
	SK50AD/B-SMA27C-160	27	48	160	21	M12x22L	4.42
	SK50AD/B-SMA32C-75	32	58	75	24	M16x26L	3.80
	SK50AD/B-SMA32C-100	32	58	100	24	M16x26L	4.28
	SK50AD/B-SMA32C-120	32	58	120	24	M16x26L	4.40
	SK50AD/B-SMA32C-160	32	58	160	24	M16x26L	5.45
	SK50AD/B-SMA40C-75	40	70	75	27	M20x30L	4.50
	SK50AD/B-SMA40C-100	40	70	100	27	M20x30L	5.11
	SK50AD/B-SMA40C-120	40	70	120	27	M20x30L	5.30
SK50AD/B-SMA40C-160	40	70	160	27	M20x30L	6.78	

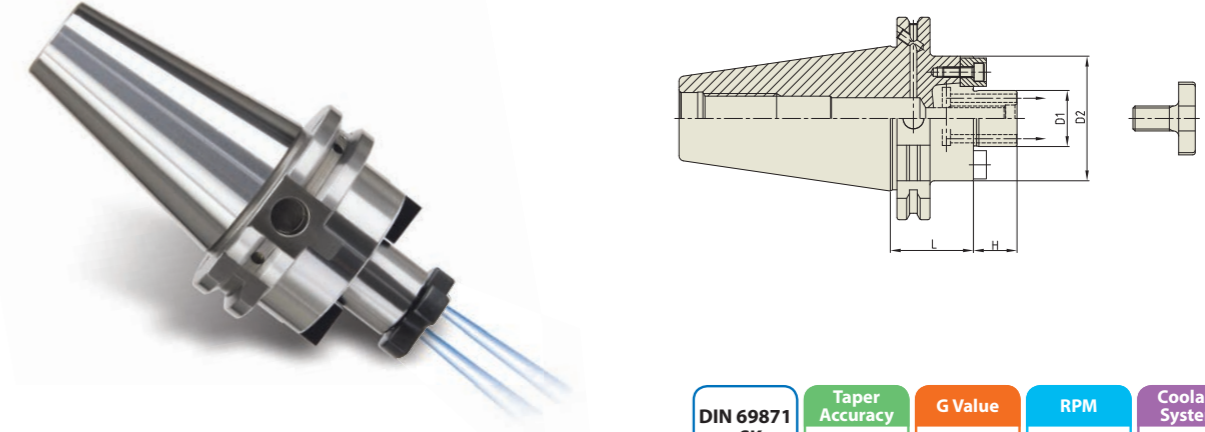
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ With "Coolant Through" by coolant channels.
- ▶ For parts, please refer to page 329.

SK (DIN 69871)

SHELL MILL ARBOR (COOLANT CHANNEL & LARGE FACE)

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



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

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)	
40	SK40AD/B-SMA16CE-35	16	38	35	17	M8x16L	0.94	
	SK40AD/B-SMA16CE-100	16	38	100	17	M8x16L	1.50	
	SK40AD/B-SMA22CE-35	22	48	35	19	M10x18L	1.05	
	SK40AD/B-SMA22CE-100	22	48	100	19	M10x18L	1.95	
	SK40AD/B-SMA27CE-45	27	60	45	21	M12x22L	1.33	
	SK40AD/B-SMA27CE-100	27	60	100	21	M12x22L	2.59	
	SK40AD/B-SMA32CE-50	32	78	50	24	M16x26L	1.72	
	SK40AD/B-SMA40CE-50	40	89	50	27	M20x30L	1.99	
	50	SK50AD/B-SMA16CE-100	16	38	100	17	M8x16L	3.27
		SK50AD/B-SMA22CE-35	22	48	35	19	M10x18L	2.83
SK50AD/B-SMA22CE-100		22	48	100	19	M10x18L	3.72	
SK50AD/B-SMA22CE-160		22	48	160	19	M10x18L	4.54	
SK50AD/B-SMA27CE-40		27	60	40	21	M12x22L	3.09	
SK50AD/B-SMA27CE-100		27	60	100	21	M12x22L	4.35	
SK50AD/B-SMA27CE-160		27	60	160	21	M12x22L	5.62	
SK50AD/B-SMA32CE-50		32	78	50	24	M16x26L	3.82	
SK50AD/B-SMA32CE-100		32	78	100	24	M16x26L	5.64	
SK50AD/B-SMA32CE-160		32	78	160	24	M16x26L	7.81	
SK50AD/B-SMA40CE-50	40	89	50	27	M20x30L	4.27		
SK50AD/B-SMA40CE-100	40	89	100	27	M20x30L	6.61		
SK50AD/B-SMA40CE-160	40	89	160	27	M20x30L	9.43		

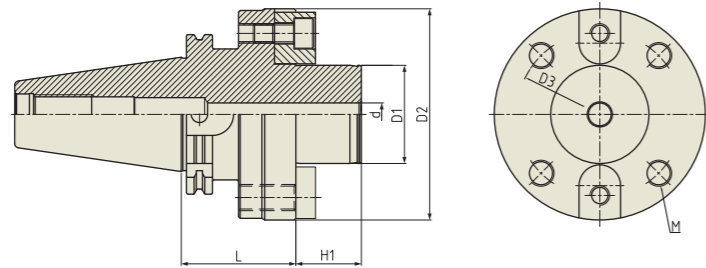
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ With "Coolant Through" by coolant channels.
- ▶ For parts, please refer to page 329.

SK (DIN 69871)

SHELL MILL ARBOR (FLANGE MOUNTING)

SMF

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



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.	d	D1	D2	D3	L	H1	M (TAP)	DRIVE KEY & BOLT	WEIGHT (Kg)
50	SK50-SMF40-70	14	40	89	66.7	70	30	4-M12	15.9 x 16 x 21.5, M6-15L	-
	SK50-SMF60-70	14	60	129	101.6	70	40	4-M16	25.4 x 25.4 x 31.5, M12-25L	-

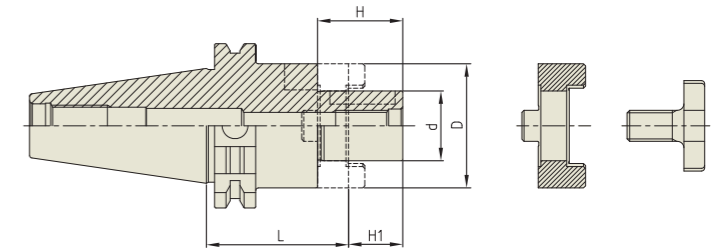
▶ CAT(ASME B5.50) taper and Inch type products are available.

SK (DIN 69871)

COMBI-SHELL MILL ARBOR

CMA

KOMBI-AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES COMBINÉS
 MANDRINO PORTA FRESE
 PORTA FRESAS COMBINADO



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.	d	L	D	H1	H	WEIGHT (Kg)
30	SK30-CMA16-50	16	50	32	17	27	0.58
	SK30-CMA22-50	22	50	40	19	31	0.71
	SK30-CMA27-55	27	55	48	21	33	0.78
40	SK40-CMA16-55	16	55	32	17	27	1.03
	SK40-CMA16-100	16	100	32	17	27	1.27
	SK40-CMA22-55	22	55	40	19	31	1.17
	SK40-CMA22-100	22	100	40	19	31	1.59
	SK40-CMA27-55	27	55	48	21	33	1.37
	SK40-CMA27-100	27	100	48	21	33	1.94
	SK40-CMA32-60	32	60	58	24	38	1.6
	SK40-CMA32-100	32	100	58	24	38	2.40
	SK40-CMA40-60	40	60	70	27	41	2.31
50	SK50-CMA16-55	16	55	32	17	27	2.81
	SK50-CMA16-100	16	100	32	17	27	3.07
	SK50-CMA22-55	22	55	40	19	31	2.91
	SK50-CMA22-100	22	100	40	19	31	3.38
	SK50-CMA27-55	27	55	48	21	33	3.15
	SK50-CMA27-100	27	100	48	21	33	3.76
	SK50-CMA32-55	32	55	58	24	38	3.41
	SK50-CMA32-100	32	100	58	24	38	4.23
	SK50-CMA40-55	40	55	70	27	41	3.78
	SK50-CMA40-100	40	100	70	27	41	5.06
SK50-CMA50-70	50	70	90	30	46	5.35	

▶ CAT(ASME B5.50) taper and Inch type products are available.

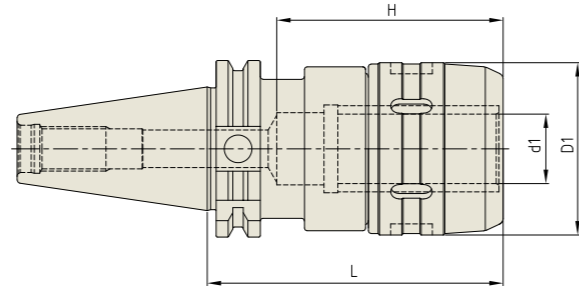
▶ For parts, please refer to page 330.

SK (DIN 69871)

HIGH-SPEED POWER MILLING CHUCK



HOCHGESCHWINDIGKEITS FRÄSERFUTTER
 MANDRIN PORTE FRAISE À GRANDE VITESSE
 MANDRINI PORTA FRESA PER ALTA VELOCITÀ
 PORTAHERRAMIENTAS PARA FRESADO DE ALTA VELOCIDAD



DIN 69871 -SK	Taper Accuracy AT3	G Value 6.3	RPM 20,000	Coolant System AD
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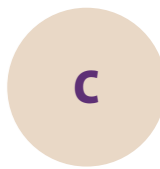
Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	WEIGHT (Kg)
30	SK30-C20-80HS	20	54	80	70	1.15
	SK30-C25-80HS	25	62	70	80	1.48
40	SK40-C20-105HS	20	54	105	70	1.77
	SK40-C25-105HS	25	62	105	80	2.10
	SK40-C32-105HS	32	72	105	100	2.40
	SK40-C32-135HS	32	72	135	100	3.10
	SK50-C20-105HS	20	54	105	70	3.40
50	SK50-C25-105HS	25	62	105	80	3.80
	SK50-C32-105HS	32	72	105	100	4.30
	SK50-C32-135HS	32	72	135	100	4.90
	SK50-C32-165HS	32	72	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

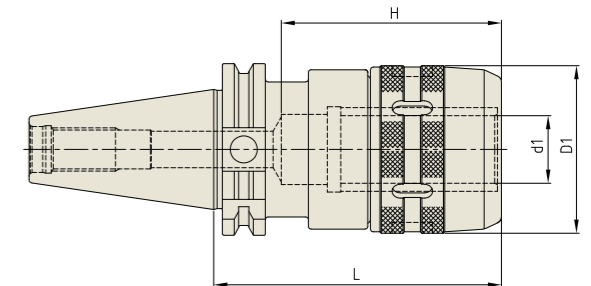
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ Balancing Grade is adjusted on Basic holder only without Clamping Cap.
- ▶ For applicable collet and spanner, please refer to page 332.

SK (DIN 69871)

POWER MILLING CHUCK



FRÄSERSPANNFUTTER
 MANDRIN PORTE FRAISE
 MANDRINI PORTA FRESA
 PORTAHERRAMIENTAS PARA FRESADO



DIN 69871 -SK	Taper Accuracy AT3	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	WEIGHT (Kg)
30	SK30-C20-80	20	54	80	70	1.15
	SK30-C25-80	25	62	80	80	1.48
40	SK40-C20-90	20	54	90	70	1.60
	SK40-C20-105	20	54	105	70	1.77
	SK40-C25-105	25	62	105	80	2.01
	SK40-C32-90	32	72	90	100	2.00
	SK40-C32-105	32	72	105	100	2.42
	SK40-C32-135	32	72	135	100	3.11
	SK50-C20-80	20	54	80	70	3.22
50	SK50-C20-105	20	54	105	70	3.39
	SK50-C25-90	25	62	90	80	3.61
	SK50-C25-105	25	62	105	80	3.78
	SK50-C32-90	32	72	90	100	3.87
	SK50-C32-105	32	72	105	100	4.31
	SK50-C32-135	32	72	135	100	4.94
	SK50-C32-165	32	72	165	100	5.59
	SK50-C42-115	42	92	115	110	4.53
	SK50-C42-135	42	92	135	110	5.62
	SK50-C42-165	42	92	165	110	6.10

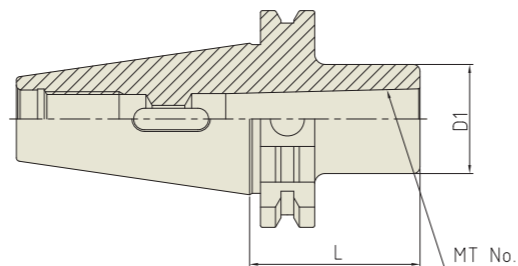
- ▶ CAT(ASME B5.50) taper and Inch type products are available.
- ▶ For applicable collet and spanner, please refer to the page 332.

SK (DIN 69871)

MORSE TAPER ARBOR

MTA

EINSATZHÜLSEN FÜR MORSEKEGEL
DOUILLES DE RÉDUCTION CÔNE MORSE
MANDRINO RIDUZIONE CONO MORSE
REDUCTORES A MORSE



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

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

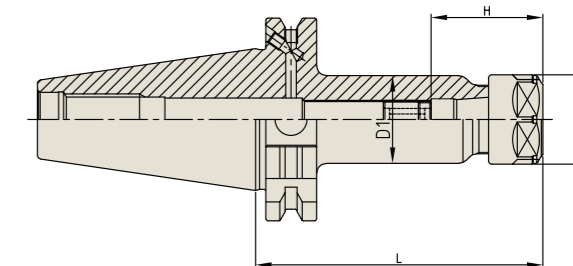
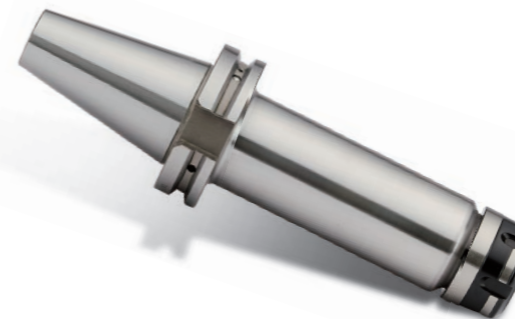
▶ CAT(ASME B5.50) taper and Inch type products are available.

SK (DIN 69871)

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



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	L	D	D1	H	COLLET	WEIGHT (Kg)
40	SK40AD/B-SKA06-60	1.8 - 6.0	60	20	19.5	31	SKC6	-
	SK40AD/B-SKA06-90	1.8 - 6.0	90	20	19.5	31	SKC6	-
	SK40AD/B-SKA06-120	1.8 - 6.0	120	20	19.5	31	SKC6	-
	SK40AD/B-SKA06-150	1.8 - 6.0	150	20	19.5	31	SKC6	-
	SK40AD/B-SKA10-90	1.8 - 10.0	90	28	27.5	35	SKC10	-
	SK40AD/B-SKA10-120	1.8 - 10.0	120	28	27.5	35	SKC10	-
	SK40AD/B-SKA10-150	1.8 - 10.0	150	28	27.5	35	SKC10	-
	SK40AD/B-SKA13-90	2.75 - 13.0	90	33	33	43.6	SKC13	-
	SK40AD/B-SKA13-120	2.75 - 13.0	120	33	33	43.6	SKC13	-
	SK40AD/B-SKA13-150	2.75 - 13.0	150	33	33	43.6	SKC13	-
	SK40AD/B-SKA16-90	2.75 - 16.0	90	40	40	52	SKC16	-
	SK40AD/B-SKA16-120	2.75 - 16.0	120	40	40	52	SKC16	-
	SK40AD/B-SKA16-150	2.75 - 16.0	150	40	40	52	SKC16	-
	SK40AD/B-SKA20-90	3.5 - 20.0	90	48.5	48.5	59.6	SKC20	-
	SK40AD/B-SKA20-120	3.5 - 20.0	120	48.5	48.5	59.6	SKC20	-
	SK40AD/B-SKA20-150	3.5 - 20.0	150	48.5	48.5	59.6	SKC20	-
	SK40AD/B-SKA25-90	16.0 - 25.4	90	55	55	63.4	SKC25	-
	SK40AD/B-SKA25-120	16.0 - 25.4	120	55	55	63.4	SKC25	-
	SK40AD/B-SKA25-150	16.0 - 25.4	150	55	55	63.4	SKC25	-

▶ CAT(ASME B5.50) taper products are available.

▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

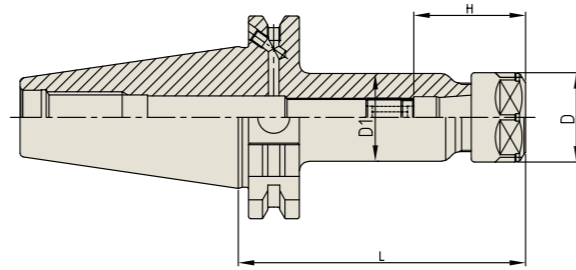
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SK (DIN 69871)

SK SLIM CHUCK



SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



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	L	D	D1	H	COLLET	WEIGHT (Kg)
50	SK50AD/B-SKA06-105	1.8 - 6.0	105	20	19.5	31	SKC6	-
	SK50AD/B-SKA06-135	1.8 - 6.0	135	20	19.5	31	SKC6	-
	SK50AD/B-SKA06-165	1.8 - 6.0	165	20	19.5	31	SKC6	-
	SK50AD/B-SKA06-195	1.8 - 6.0	195	20	19.5	31	SKC6	-
	SK50AD/B-SKA10-105	1.75 - 10.0	105	28	27.5	35	SKC10	-
	SK50AD/B-SKA10-135	1.75 - 10.0	135	28	27.5	35	SKC10	-
	SK50AD/B-SKA10-165	1.75 - 10.0	165	28	27.5	35	SKC10	-
	SK50AD/B-SKA10-195	1.75 - 10.0	195	28	27.5	35	SKC10	-
	SK50AD/B-SKA13-105	2.75 - 13.0	105	33	33	43.6	SKC13	-
	SK50AD/B-SKA13-135	2.75 - 13.0	135	33	33	43.6	SKC13	-
	SK50AD/B-SKA13-165	2.75 - 13.0	165	33	33	43.6	SKC13	-
	SK50AD/B-SKA13-195	2.75 - 13.0	195	33	33	43.6	SKC13	-
	SK50AD/B-SKA16-105	2.75 - 13.0	105	40	40	52	SKC16	-
	SK50AD/B-SKA16-135	2.75 - 13.0	135	40	40	52	SKC16	-
	SK50AD/B-SKA16-165	2.75 - 13.0	165	40	40	52	SKC16	-
	SK50AD/B-SKA16-195	2.75 - 13.0	195	40	40	52	SKC16	-
	SK50AD/B-SKA20-105	3.5 - 20.0	105	48.5	48.5	59.6	SKC20	-
	SK50AD/B-SKA20-135	3.5 - 20.0	135	48.5	48.5	59.6	SKC20	-
	SK50AD/B-SKA20-165	3.5 - 20.0	165	48.5	48.5	59.6	SKC20	-
	SK50AD/B-SKA20-195	3.5 - 20.0	195	48.5	48.5	59.6	SKC20	-
SK50AD/B-SKA25-105	16.0 - 25.4	105	55	55	63.4	SKC25	-	
SK50AD/B-SKA25-135	16.0 - 25.4	135	55	55	63.4	SKC25	-	
SK50AD/B-SKA25-165	16.0 - 25.4	165	55	55	63.4	SKC25	-	
SK50AD/B-SKA25-195	16.0 - 25.4	195	55	55	63.4	SKC25	-	

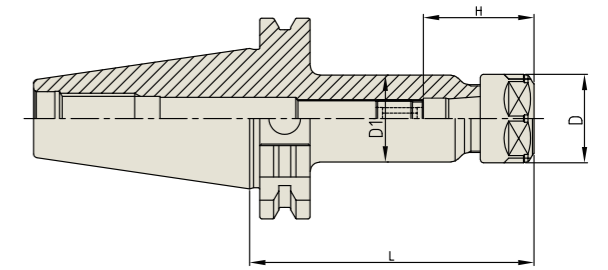
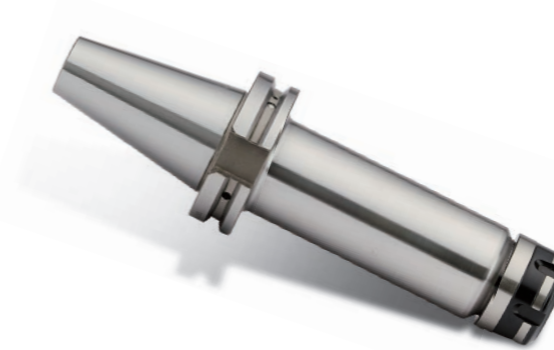
- ▶ CAT(ASME B5.50) taper products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

SK (DIN 69871)

SK SLIM CHUCK



SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



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	L	D	D1	H	COLLET	WEIGHT (Kg)	
30	SK30-SKA06-60	1.8 - 6.0	60	20	19.5	31	SKC6	-	
	SK30-SKA06-90	1.8 - 6.0	90	20	19.5	31	SKC6	-	
	SK30-SKA10-60	1.75 - 10.0	60	28	27.5	35	SKC10	-	
	SK30-SKA10-90	1.75 - 10.0	90	28	27.5	35	SKC10	-	
	SK30-SKA13-60	2.75 - 13.0	60	33	33	43.6	SKC13	-	
	SK30-SKA13-90	2.75 - 13.0	90	33	33	43.6	SKC13	-	
	SK30-SKA16-60	2.75 - 16.0	60	40	40	52	SKC16	-	
	SK30-SKA16-90	2.75 - 16.0	90	40	40	52	SKC16	-	
	SK30-SKA20-60	3.5 - 20.0	60	48.5	48.5	59.6	SKC20	-	
	SK30-SKA20-90	3.5 - 20.0	90	48.5	48.5	59.6	SKC20	-	
	SK30-SKA25-90	16.0 - 25.4	90	55	55	63.4	SKC25	-	
	40	SK40-SKA06-90	1.8 - 6.0	90	20	19.5	31	SKC6	-
		SK40-SKA06-120	1.8 - 6.0	120	20	19.5	31	SKC6	-
		SK40-SKA06-150	1.8 - 6.0	150	20	19.5	31	SKC6	-
SK40-SKA10-90		1.75 - 10.0	90	28	27.5	35	SKC10	-	
SK40-SKA10-120		1.75 - 10.0	120	28	27.5	35	SKC10	-	
SK40-SKA10-150		1.75 - 10.0	150	28	27.5	35	SKC10	-	
SK40-SKA13-90		2.75 - 13.0	90	33	33	43.6	SKC13	-	
SK40-SKA13-120		2.75 - 13.0	120	33	33	43.6	SKC13	-	
SK40-SKA13-150		2.75 - 13.0	150	33	33	43.6	SKC13	-	
SK40-SKA16-90		2.75 - 16.0	90	40	40	52	SKC16	-	
SK40-SKA16-120		2.75 - 16.0	120	40	40	52	SKC16	-	
SK40-SKA16-150		2.75 - 16.0	150	40	40	52	SKC16	-	
SK40-SKA20-90	3.5 - 20.0	90	48.5	48.5	59.6	SKC20	-		
SK40-SKA20-120	3.5 - 20.0	120	48.5	48.5	59.6	SKC20	-		
SK40-SKA20-150	3.5 - 20.0	150	48.5	48.5	59.6	SKC20	-		
SK40-SKA25-90	16.0 - 25.4	90	55	55	63.4	SKC25	-		
SK40-SKA25-120	16.0 - 25.4	120	55	55	63.4	SKC25	-		
SK40-SKA25-150	16.0 - 25.4	150	55	55	63.4	SKC25	-		

- ▶ CAT(ASME B5.50) taper products are available.
- ▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

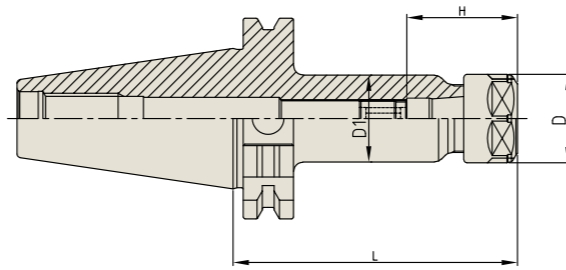
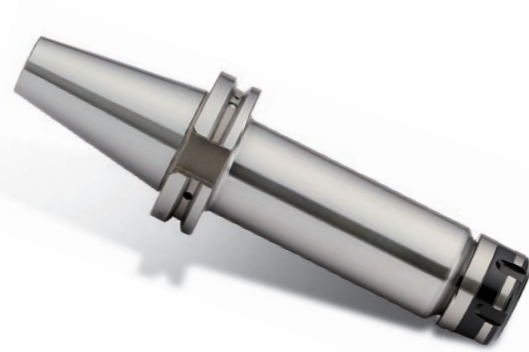
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SK (DIN 69871)

SK SLIM CHUCK



SK SCHLANKE FUTTER
 MANDRIN TYPE SK MINCE
 SK MANDRINI SOTTILI
 PORTAHERRAMIENTAS SK EJE REDUCIDO



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	L	D	D1	H	COLLET	WEIGHT (Kg)
50	SK50-SKA06-105	1.8 - 6.0	105	20	19.5	31	SKC6	-
	SK50-SKA06-135	1.8 - 6.0	135	20	19.5	31	SKC6	-
	SK50-SKA06-165	1.8 - 6.0	165	20	19.5	31	SKC6	-
	SK50-SKA06-195	1.8 - 6.0	195	20	19.5	31	SKC6	-
	SK50-SKA10-105	1.75 - 10.0	105	28	27.5	35	SKC10	-
	SK50-SKA10-135	1.75 - 10.0	135	28	27.5	35	SKC10	-
	SK50-SKA10-165	1.75 - 10.0	165	28	27.5	35	SKC10	-
	SK50-SKA10-195	1.75 - 10.0	195	28	27.5	35	SKC10	-
	SK50-SKA13-105	2.75 - 13.0	105	33	33	43.6	SKC13	-
	SK50-SKA13-135	2.75 - 13.0	135	33	33	43.6	SKC13	-
	SK50-SKA13-165	2.75 - 13.0	165	33	33	43.6	SKC13	-
	SK50-SKA13-195	2.75 - 13.0	195	33	33	43.6	SKC13	-
	SK50-SKA16-105	2.75 - 16.0	105	40	40	52	SKC16	-
	SK50-SKA16-135	2.75 - 16.0	135	40	40	52	SKC16	-
	SK50-SKA16-165	2.75 - 16.0	165	40	40	52	SKC16	-
	SK50-SKA16-195	2.75 - 16.0	195	40	40	52	SKC16	-
	SK50-SKA20-105	3.5 - 20.0	105	48.5	48.5	59.6	SKC20	-
	SK50-SKA20-135	3.5 - 20.0	135	48.5	48.5	59.6	SKC20	-
	SK50-SKA20-165	3.5 - 20.0	165	48.5	48.5	59.6	SKC20	-
	SK50-SKA20-195	3.5 - 20.0	195	48.5	48.5	59.6	SKC20	-
SK50-SKA25-105	16.0 - 25.4	105	55	55	63.4	SKC25	-	
SK50-SKA25-135	16.0 - 25.4	135	55	55	63.4	SKC25	-	
SK50-SKA25-165	16.0 - 25.4	165	55	55	63.4	SKC25	-	
SK50-SKA25-195	16.0 - 25.4	195	55	55	63.4	SKC25	-	

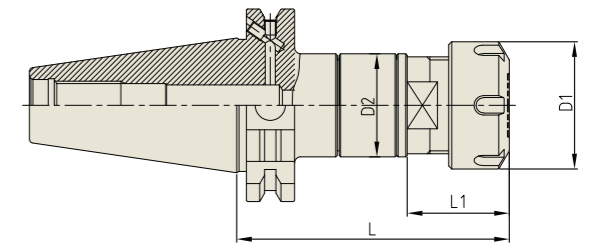
▶ CAT(ASME B5.50) taper products are available.
 ▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

SK (DIN 69871)

SYNCHRO TAPPING CHUCK (ER TYPE)



SYNCHRO GEWINDESCHNEIDFUTTER (ER)
 SYNCHRO TARAUDER (ER)
 SINCRO MANDRINI PER MASCHIATURA (ER)
 SINCRO PORTAMACHOS (ER)



DIN 69871 -SK	Taper Accuracy AT3	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	TAP SIZE	NUT/ COLLET	D1	D2	L	L1	TENSION/ COMPRESSION	WEIGHT (Kg)
40	SK40AD/B-SYTER12-79	M3-M12	ER16	28	34	79	26	±0.2	1.00
	SK40AD/B-SYTER16-85	M3-M16	ER20	34	34	85	27	±0.2	1.08
	SK40AD/B-SYTER20-90	M3-M20	ER25	42	34	90	34	±0.2	1.08
	SK40AD/B-SYTER27-100	M4-M27	ER32	50	45	100	31	±0.2	1.37
50	SK40AD/B-SYTER33-120	M4-M33	ER40	63	62	120	35	±0.2	2.16
	SK50AD/B-SYTER12-79	M3-M12	ER16	28	34	79	24	±0.2	2.83
	SK50AD/B-SYTER16-85	M3-M16	ER20	34	34	85	27	±0.2	2.86
	SK50AD/B-SYTER20-90	M3-M20	ER25	42	34	90	34	±0.2	2.87
	SK50AD/B-SYTER27-100	M4-M27	ER32	50	45	100	31	±0.2	3.04
SK50AD/B-SYTER33-105	M4-M33	ER40	63	62	105	35	±0.2	3.93	

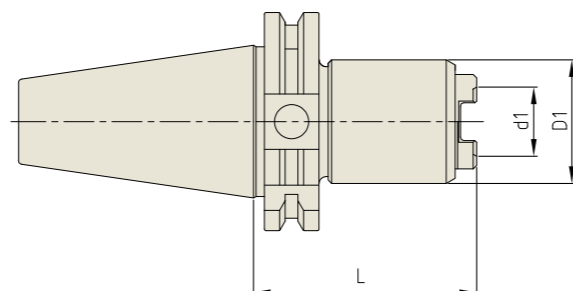
▶ Feature :
 - Compensation for synchronization errors to extend tap life and to improve thread quality.
 - To compensate for pitch tolerances of taps.
 - For machine with synchronized spindle.
 ▶ CAT(ASME B5.50) taper and Inch type products are available.
 ▶ ER collet of page 314~320, and Tap ER collet of page 321~322 are applicable.

SK (DIN 69871)

SYNCHRO TAPPING CHUCK (QUICK CHANGE TYPE)

SYTC

SYNCHRO GEWINDESCHNEID-SCHNELLWECHSELFUTTER
 SYNCHRO TARAUDER À CHANGEMENT RAPIDE
 SINCRO MANDRINO PER MASCHIARE
 SINCRO PORTAMACHOS DE CAMBIO RAPIDO



DIN 69871 -SK	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	TAP SIZE	TAP ADAPTOR	d1	D1	L	WEIGHT (Kg)
30	SK30-SYTC12-65	M3-M12	TCS12	19	36	65	0.50
	SK30-SYTC20-89	M6-M24	TCS24	31	50	89	1.00
40	SK40-SYTC12-65	M3-M12	TCS12	19	36	65	1.10
	SK40-SYTC20-79	M6-M24	TCS24	31	50	79	1.50
	SK40-SYTC33-115	M18-M38	TCS38	48	74	115	3.30
50	SK50-SYTC12-65	M3-M12	TCS12	19	36	65	3.00
	SK50-SYTC20-79	M6-M24	TCS24	31	50	79	3.30
	SK50-SYTC33-115	M18-M38	TCS38	48	74	115	5.20

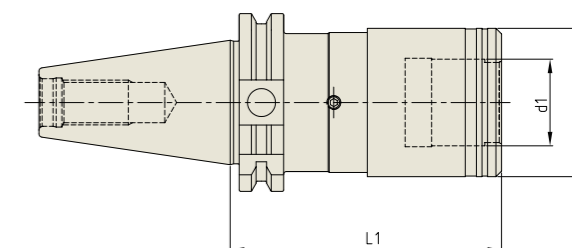
- Feature :
- Compensation for synchronization errors to extend tap life and to improve thread quality.
 - To compensate for pitch tolerances of taps.
 - For machine with synchronized spindle.
- CAT(ASME B5.50) taper and Inch type products are available.
- For applicable Tap Adaptor, please refer to the page 336~337.

SK (DIN 69871)

ONE STEP TAPPING CHUCK

OTC

GEWINDE-SCHNELLWECHSELFUTTER
 MANDRIN DE TARAUDAGE À CHANGEMENT RAPIDE
 PORTAMASCHI A CAMBIO RAPIDO
 MANDRINO DE CAMBIO RÁPIDO CON ROSCA



DIN 69871 -SK	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L1	LENGTH COMPENSATION		WEIGHT (Kg)
					Compression	Tension	
40	SK40-OTC-M3-M12-59.5	19	36	59	7.5	7.5	1.10
	SK40-OTC-M8-M20-97	31	53	97	12.5	12.5	1.50
	SK40-OTC-M14-M36-149	48	78	149	20	20	3.30
50	SK50-OTC-M3-M12-59	19	36	59	7.5	7.5	3.00
	SK50-OTC-M8-M20-83	31	53	83	12.5	12.5	3.30
	SK50-OTC-M14-M36-138	48	78	138	20	20	5.20

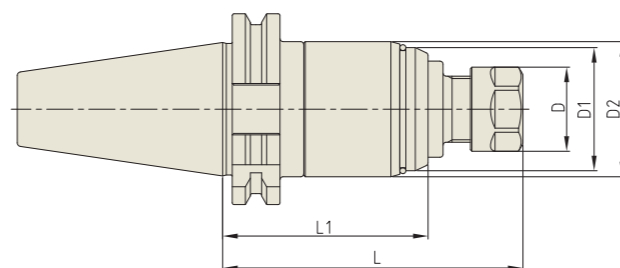
- CAT(ASME B5.50) taper and Inch type products are available.
- For applicable Tap Adaptor, please refer to the page 336~337.

SK (DIN 69871)

TAPPING ER CHUCK



ER - GEWINDESCHNEIDFUTTER
 MANDRIN DE TARAUDAGE PINCE ER
 MANDRINI PORTAPINZA ER PER MASCHIATURA
 PORTAPINZAS ER PARA MACHOS



DIN 69871 -SK	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT / COLLET	WEIGHT (Kg)
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

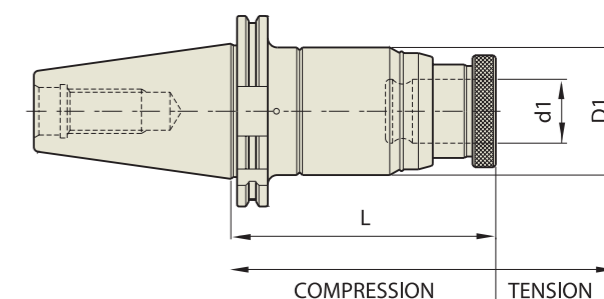
▶ CAT(ASME B5.50) taper and Inch type products are available.
 ▶ ER collet of page 314~320, and Tap ER collet of page 321~322 are applicable.

SK (DIN 69871)

TAPPING CHUCK



GEWINDESCHNEID - SCHNELLWECHSELFUTTER
 TARAUDER À CHANGEMENT RAPIDE
 MANDRINO PER MASCHIARE
 PORTAMACHOS DE CAMBIO RAPIDO



DIN 69871 -SK	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	TAP SIZE	TAP ADAPTOR	LENGTH COMPENSATION		d1	D1	L	WEIGHT (Kg)
				Compression	Tension				
40	SK40-TC12-90	M3-M12	TCS12	5	15	19	45	90	1.30
	SK40-TC12-130	M3-M12	TCS12	5	15	19	45	130	1.80
	SK40-TC24-120	M6-M24	TCS24	5	20	31	63	120	2.50
	SK40-TC24-142	M6-M24	TCS24	5	20	31	63	142	2.80
50	SK50-TC12-130	M3-M12	TCS12	5	15	19	45	130	4.30
	SK50-TC12-175	M3-M12	TCS12	5	15	19	45	175	5.50
	SK50-TC24-142	M6-M24	TCS24	5	20	31	63	142	5.30
	SK50-TC24-187	M6-M24	TCS24	5	20	31	63	187	7.80
	SK50-TC38-175	M18-M38	TCS38	10	25	48	98	175	7.50

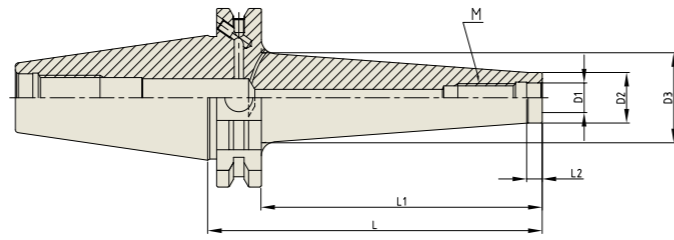
▶ CAT(ASME B5.50) taper and Inch type products are available.
 ▶ For applicable Tap Adaptor, please refer to page 336~337.

SK (DIN 69871)

COPY MILL ARBOR

M

WERKZEUGAUFNAHME FÜR EINSCHRAUBFRÄSER MIT GEWINDE
 MANDRIN POUR FRAISES À QUEUE FILETÉE AVEC FILETAGE
 MANDRINO PER FRESE MODULARI FILETTATE
 PORTAHERRAMIENTAS PARA FRESAS DE ENROSCAR CON ROSCA



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

TAPER No.	MODEL No. (M-L1)	D1	D2	D3	L	L1	L2	WEIGHT (Kg)
40	SK40AD/B-M6-25	6.5	10	13	44	25	5	0.80
	SK40AD/B-M8-25	8.5	13	15	44	25	5	0.80
	SK40AD/B-M8-50	8.5	13	23	69	50	5	0.86
	SK40AD/B-M8-75	8.5	13	23	94	75	5	0.90
	SK40AD/B-M8-100	8.5	13	25	119	100	5	0.97
	SK40AD/B-M10-5	10.5	18	18	24	5	5	0.77
	SK40AD/B-M10-25	10.5	18	20	44	25	5	0.79
	SK40AD/B-M10-50	10.5	18	23	69	50	5	0.85
	SK40AD/B-M10-75	10.5	18	28	94	75	5	0.87
	SK40AD/B-M10-100	10.5	18	32	119	100	5	1.12
	SK40AD/B-M10-150	10.5	18	36.5	169	150	5	1.38
	SK40AD/B-M12-5	12.5	21	21	24	5	5	0.77
	SK40AD/B-M12-25	12.5	21	24	44	25	5	0.82
	SK40AD/B-M12-50	12.5	21	24	69	50	5	0.85
	SK40AD/B-M12-75	12.5	21	31	94	75	5	1.02
	SK40AD/B-M12-100	12.5	21	33	119	100	5	1.09
	SK40AD/B-M12-150	12.5	21	40	169	150	5	1.53
	SK40AD/B-M16-5	17	29	29	24	5	5	0.77
	SK40AD/B-M16-25	17	29	29	44	25	5	0.85
	SK40AD/B-M16-50	17	29	34	69	50	5	1.00
SK40AD/B-M16-75	17	29	34	94	75	5	0.99	
SK40AD/B-M16-100	17	29	36	119	100	5	1.34	
SK40AD/B-M16-150	17	29	42.5	169	150	5	1.84	
50	SK50AD/B-M8-50	8.5	13	23	69	50	5	2.69
	SK50AD/B-M10-50	10.5	18	23	69	50	5	2.71
	SK50AD/B-M10-100	10.5	18	32	119	100	10	2.88
	SK50AD/B-M10-150	10.5	18	36.5	169	150	10	3.17
	SK50AD/B-M12-50	12.5	21	24	69	50	5	2.67
	SK50AD/B-M12-100	12.5	21	33	119	100	10	2.93
	SK50AD/B-M12-150	12.5	21	40	169	150	10	3.33
	SK50AD/B-M16-50	17	29	34	69	50	5	2.79
	SK50AD/B-M16-100	17	29	36	119	100	10	3.00
	SK50AD/B-M16-150	17	29	42.5	169	150	10	3.60

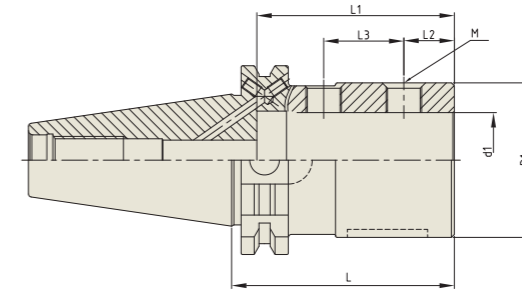
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
 ▶ For the screw-in milling cutters with thread.

SK (DIN 69871)

INDEXABLE DRILL HOLDER

SL

WERKZEUGHALTER FÜR VOLLBOHRER
 MANDRIN POUR FORETS À PLAQUETTES
 MANDRINO PER PUNTE A INSERTI
 SOPORTE PARA HERRAMIENTAS PARA BROCAS DE ACERO MACIZO



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.	d1	D1	L	L1	L2	L3	M	WEIGHT (Kg)
40	SK40AD/B-SL20-65	20	40	65	56	15	20	M10	1.07
	SK40AD/B-SL25-70	25	45	70	61.5	17	23	M12	1.15
	SK40AD/B-SL32-75	32	52	75	66.5	17	27	M12	1.27
	SK40AD/B-SL40-115	40	60	115	73	22	28	M16	2.10
50	SK50AD/B-SL20-70	20	40	70	54	15	20	M10	3.00
	SK50AD/B-SL25-70	25	45	70	64	17	23	M12	3.04
	SK50AD/B-SL32-75	32	52	75	68	17	27	M12	3.14
	SK50AD/B-SL40-80	40	60	80	77	22	28	M16	3.26

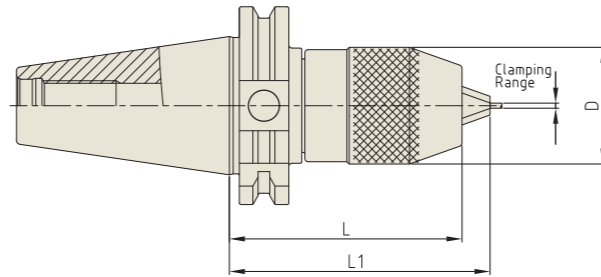
▶ CAT(ASME B5.50) taper and Inch type products are available.
 ▶ For the indexable drills with parallel shank.

SK (DIN 69871)

NC DRILL CHUCK (KEYLESS TYPE)

NPU

NC - BOHRFUTTER
MANDRIN DE PERÇAGE NC
NC MANDRINI PORTA PUNTE
PORTABROCAS PARA BROCAS NC



DIN 69871 - SK	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L (Min.)	L1 (Max.)	WEIGHT (Kg)
40	SK40-NPU8-80	0.3 - 8.0	36.5	80	85.7	-
	SK40-NPU8-110	0.3 - 8.0	36.5	110	115.7	-
	SK40-NPU8-150	0.3 - 8.0	36.5	150	155.7	-
	SK40-NPU13-95	1.0 - 13.0	50	95	105	-
	SK40-NPU13-130	1.0 - 13.0	50	130	140	-
	SK40-NPU13-150	1.0 - 13.0	50	150	160	-
50	SK50-NPU8-80	0.3 - 8.0	36.5	80	85.7	-
	SK50-NPU8-110	0.3 - 8.0	36.5	110	115.7	-
	SK50-NPU8-150	0.3 - 8.0	36.5	150	155.7	-
	SK50-NPU13-95	1.0 - 13.0	50	95	105	-
	SK50-NPU13-130	1.0 - 13.0	50	130	140	-
	SK50-NPU13-150	1.0 - 13.0	50	150	160	-

▶ CAT (ASME B5.50) taper and Inch type products are available.
▶ Supplied with hook wrench. (Size NPU 8 : 8S, NPU 13 : 13S)

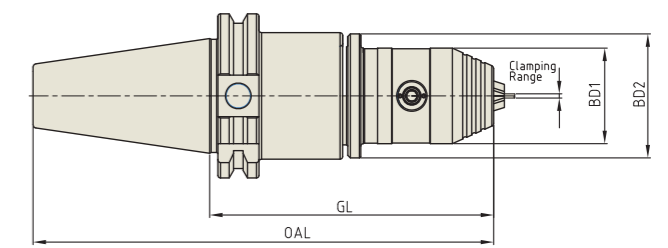
SK (DIN 69871)

NC DRILL CHUCK (HEX. KEY TYPE)

NEW

HKD

NC - BOHRFUTTER
MANDRIN DE PERÇAGE NC
NC MANDRINI PORTA PUNTE
PORTABROCAS PARA BROCAS NC



DIN 69871 - SK	Taper Accuracy AT3	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	OAL	GL	BD1	BD2	WEIGHT (Kg)
40	SK40-HKD8-90	0.3 - 8.0	158.4	90	37	48	-
	SK40-HKD13-100	0.3 - 13.0	168.4	100	50.1	50.1	-
	SK40AD/B-HKD8-110	0.3 - 8.0	178.4	110	37	48	-
	SK40AD/B-HKD13-130	0.3 - 13.0	198.4	130	50.1	50.1	-

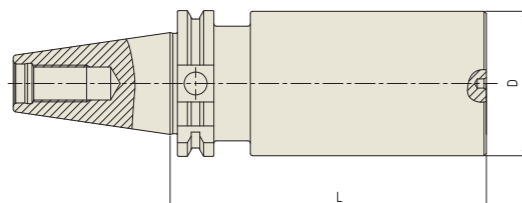
▶ CAT (ASME B5.50) taper and Inch type products are available.
▶ Supplied with hex. wrench. (Size HKD 8 : 4mm, HKD 13 : 6mm)

SK (DIN 69871)

BLANK BAR

BL

BOHRSTANGENROHLING
EBAUCHE DE BARRES D ALÉSAGE
BARRA ALESATRICE GREZZA
PIEZA EN BRUTO PARA BARRAS DE MANDRINAR



DIN 69871 -SK	Taper Accuracy AT3	Coolant System A
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Unit : mm

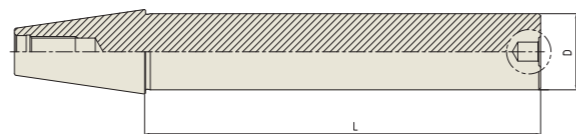
TAPER No.	MODEL No.	D	L	WEIGHT(Kg)
40	SK40A-BL63-250	63	250	6.18
50	SK50A-BL97-315	97	315	18.67

▶ CAT(ASME B5.50) taper and Inch type products are available.

TEST BAR

TB

KONTROLLDORN
MANDRIN DE CONTRÔLE
MANDRINO DI CONTROLLO
MANDRIL DE CONTROL



DIN 69871 -SK	Taper Accuracy AT3	Run-Out ≤3μm	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	D	L	WEIGHT(Kg)
40	SK40A-TB40-300	40	300	3.45
50	SK50A-TB50-300	50	300	6.44

▶ CAT(ASME B5.50) taper and Inch type products are available.

SSK TOOLING SYSTEM

CBT (BT DUAL CONTACT)

HYDRAULIC CHUCK	84-88P
SHRINK FIT HOLDER	89-94P
ER COLLET CHUCK	95-97P
END MILL HOLDER (SIDE LOCK ARBOR)	98-99P
SHELL MILL ARBOR	100-102P
COMBI-SHELL MILL ARBOR	103P
POWER MILLING CHUCK	104-105P
SK SLIM CHUCK	106-107P
TAPPING ER CHUCK	108P
FACE MILL ARBOR	109-111P
NC DRILL CHUCK	112P



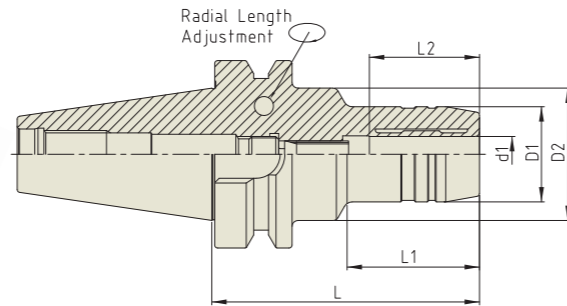
SSK

CBT (BT DUAL CONTACT)

HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)

HCR

HYDRAULIK SPANNFUTTER (RADIALE WERKZEUGLÄGEN VOREINSTELLUNG)
 MANDRIN HYDRAULIQUE (BANC DE PRÉ-RÉGLAGE RADIAL)
 MANDRINI IDRAULICI (UTENSILI RADIALI PER AZZERAMENTO)
 PORTAHERRAMIENTAS HIDRAULICO (AJUSTE DE LONGITUD TIPO PRE-SETTING)



CBT	Taper Accuracy	G Value	RPM	Run-Out (at 3D)	Coolant System
	AT3	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
30	CBT30-HCR12-85	12	32	44.5	85	40	37	0.90
	CBT30-HCR20-85	20	44	44	85	-	42	1.00
40	CBT40-HCR12-90	12	32	44.5	90	42.5	37	1.50
	CBT40-HCR20-90	20	42	44.5	90	47.5	42	1.60
	CBT40-HCR32-105	32	60	60	105	-	55	2.20
50	CBT50-HCR12-95	12	32	44.5	95	34	37	3.90
	CBT50-HCR20-100	20	42	44.5	100	44	42	4.00
	CBT50-HCR32-115	32	60	60	115	-	55	4.10

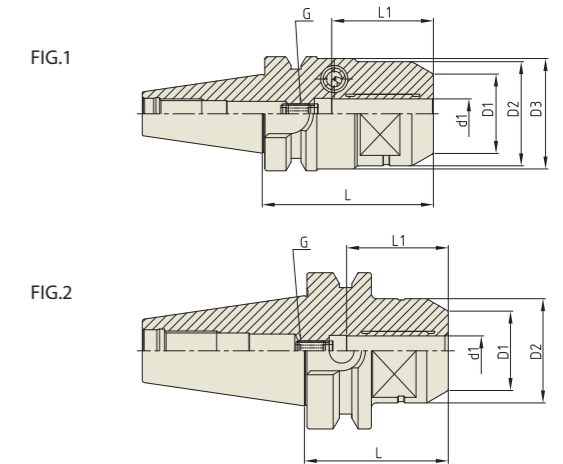
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

CBT (BT DUAL CONTACT)

HYDRAULIC CHUCK (Power E Hydro)

HCP

HYDRAULIK SPANNFUTTER (POWER E HYDRO)
 MANDRIN HYDRAULIQUE (POWER E HYDRO)
 MANDRINI IDRAULICI (POWER E HYDRO)
 PORTAHERRAMIENTAS HIDRAULICO (POWER E HYDRO)



CBT	Taper Accuracy	G Value	RPM	Run-Out (at 3D)	Coolant System
	AT3	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	D3	L	L1	G	FIG.	WEIGHT (Kg)
30	CBT30-HC12P-69	12	32	42	44.5	69	41	M8x1.0	1	0.80
	CBT30-HC20P-90	20	38	42	44.5	90	48	M8x1.0	1	0.90
40	CBT40-HC12P-58	12	32	42	-	58	41	M8x1.0	2	1.10
	CBT40-HC20P-72.5	20	38	49.25	-	72.5	48	M8x1.0	2	1.40

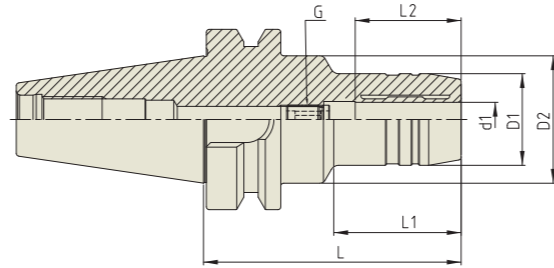
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

CBT (BT DUAL CONTACT)

HYDRAULIC CHUCK (STANDARD)

HC

HYDRAULIK SPANNFUTTER (STANDARD)
 MANDRIN HYDRAULIQUE (STANDARD)
 MANDRINI IDRAULICI (STANDARD)
 PORTAHERRAMIENTAS HIDRAULICO (ESTÁNDAR)



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
30	CBT30-HC6-70	6	26	44.5	70	29.5	27	M5x0.8	0.65
	CBT30-HC8-70	8	28	44.5	70	30	27	M6x1.0	0.65
	CBT30-HC10-75	10	30	44.5	75	31	32	M8x1.0	0.73
	CBT30-HC12-85	12	32	45	85	45	37	M10x1.0	0.80
	CBT30-HC14-85	14	34	45	85	45	37	M10x1.0	0.80
	CBT30-HC16-90	16	38	45	90	50	42	M10x1.0	0.90
	CBT30-HC18-90	18	40	45	90	50	42	M10x1.0	0.90
	CBT30-HC20-90	20	42	45	90	50	42	M6x1.0	0.90
40	CBT40-HC6-90	6	26	44.5	90	43	27	M5x0.8	1.30
	CBT40-HC8-90	8	28	44.5	90	44.5	27	M6x1.0	1.30
	CBT40-HC10-90	10	30	44.5	90	44.5	32	M8x1.0	1.35
	CBT40-HC12-90	12	32	44.5	90	44.5	37	M10x1.0	1.35
	CBT40-HC14-90	14	34	44.5	90	44.5	37	M10x1.0	1.35
	CBT40-HC16-90	16	38	44.5	90	47.5	42	M12x1.0	1.40
	CBT40-HC18-90	18	40	44.5	90	47.5	42	M12x1.0	1.45
	CBT40-HC20-90	20	42	44.5	90	47.5	42	M16x1.0	1.50
	CBT40-HC25-100	25	50	60	100	47.5	48	M16x1.0	1.70
	CBT40-HC32-105	32	60	60	105	-	55	M16x1.0	2.10

- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

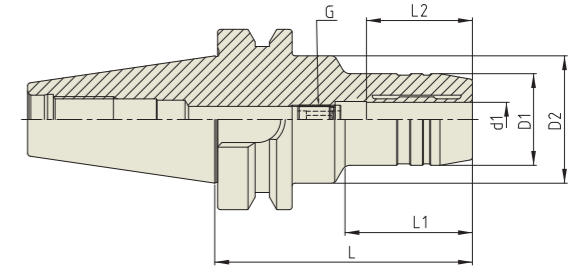
▶ NEXT PAGE

CBT (BT DUAL CONTACT)

HYDRAULIC CHUCK (STANDARD)

HC

HYDRAULIK SPANNFUTTER (STANDARD)
 MANDRIN HYDRAULIQUE (STANDARD)
 MANDRINI IDRAULICI (STANDARD)
 PORTAHERRAMIENTAS HIDRAULICO (ESTÁNDAR)



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
50	CBT50-HC6-90	6	26	44.5	90	34	27	M5x0.8	3.75
	CBT50-HC6-120	6	26	44.5	120	34	27	M5x0.8	4.10
	CBT50-HC6-150	6	26	44.5	150	34	27	M5x0.8	4.70
	CBT50-HC8-90	8	28	44.5	90	34	27	M6x1.0	3.75
	CBT50-HC8-120	8	28	44.5	120	34	27	M6x1.0	4.10
	CBT50-HC8-150	8	28	44.5	150	34	27	M6x1.0	4.10
	CBT50-HC10-90	10	30	44.5	90	34	32	M8x1.0	3.90
	CBT50-HC10-120	10	30	44.5	120	34	32	M8x1.0	4.30
	CBT50-HC10-150	10	30	44.5	150	34	32	M8x1.0	4.90
	CBT50-HC12-90	12	32	44.5	90	34	37	M10x1.0	3.90
	CBT50-HC12-120	12	32	44.5	120	34	37	M10x1.0	4.30
	CBT50-HC12-150	12	32	44.5	150	34	37	M10x1.0	4.90
	CBT50-HC14-90	14	34	44.5	90	34	37	M10x1.0	3.90
	CBT50-HC14-120	14	34	44.5	120	34	37	M10x1.0	4.30
	CBT50-HC14-150	14	34	44.5	150	34	37	M10x1.0	4.90
	CBT50-HC16-90	16	38	44.5	90	34	42	M12x1.0	4.00
	CBT50-HC16-120	16	38	44.5	120	34	42	M12x1.0	4.40
	CBT50-HC16-150	16	38	44.5	150	34	42	M12x1.0	5.00
	CBT50-HC18-90	18	40	44.5	90	34	42	M12x1.0	4.00
	CBT50-HC18-120	18	40	44.5	120	34	42	M12x1.0	4.40
	CBT50-HC18-150	18	40	44.5	150	34	42	M12x1.0	5.00
	CBT50-HC20-90	20	42	44.5	90	34	42	M16x1.0	4.00
	CBT50-HC20-120	20	42	44.5	120	34	42	M16x1.0	4.40
	CBT50-HC20-150	20	42	44.5	150	34	42	M16x1.0	5.00
	CBT50-HC25-105	25	57	63	105	52	48	M16x1.0	4.40
	CBT50-HC25-150	25	57	63	150	97	48	M16x1.0	5.60
	CBT50-HC32-115	32	64	75	115	62	55	M16x1.0	4.70
	CBT50-HC32-150	32	64	75	150	97	55	M16x1.0	6.00

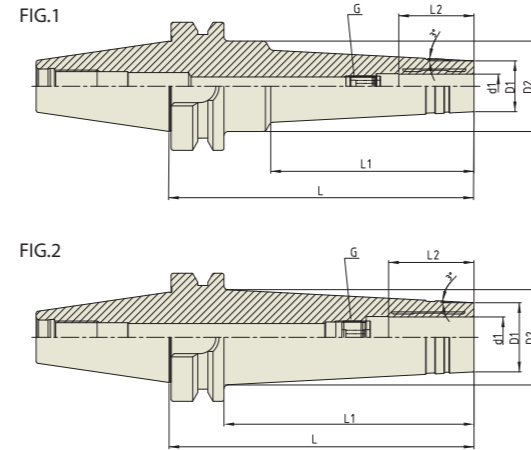
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

CBT (BT DUAL CONTACT)

HYDRAULIC CHUCK (SLIM)

HMC

HYDRAULIK SPANNFUTTER FÜR DEN FORMENBAU
MANDRIN HYDRAULIQUE POUR MOULISTE
MANDRINI IDRAULICI PER STAMPAGGIO
PORTAHERRAMIENTAS HIDRAULICO PARA MOLDES



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	FIG.	WEIGHT (Kg)
40	CBT40-HMC6-120	6	20	44.5	120	70	27	M5×0.8	1	1.40
	CBT40-HMC6-150	6	20	44.5	150	100	27	M5×0.8	1	1.65
	CBT40-HMC8-120	8	22	44.5	120	70	27	M6×1.0	1	1.40
	CBT40-HMC8-150	8	22	44.5	150	100	27	M6×1.0	1	1.65
	CBT40-HMC10-120	10	24	44.5	120	70	32	M8×1.0	1	1.40
	CBT40-HMC10-150	10	24	44.5	150	100	32	M8×1.0	1	1.65
	CBT40-HMC12-120	12	25	44.5	120	70	37	M10×1.0	1	1.40
	CBT40-HMC12-150	12	25	44.5	150	100	37	M10×1.0	1	1.65
	CBT40-HMC14-120	14	27	44.5	120	70	37	M10×1.0	1	1.50
	CBT40-HMC14-150	14	27	44.5	150	100	37	M10×1.0	1	1.65
	CBT40-HMC16-120	16	32	44.5	120	70	42	M12×1.0	1	1.45
	CBT40-HMC16-150	16	32	44.5	150	100	42	M12×1.0	1	1.70
	CBT40-HMC20-120	20	34	43.8	120	93	42	M16×1.0	2	1.50
	CBT40-HMC20-150	20	34	46.9	150	123	42	M16×1.0	2	1.80
50	CBT50-HMC6-150	6	20	50	150	90	27	M5×0.8	1	4.70
	CBT50-HMC8-150	8	22	50	150	90	27	M6×1.0	1	4.70
	CBT50-HMC10-150	10	24	50	150	90	32	M8×1.0	1	4.70
	CBT50-HMC12-150	12	25	50	150	90	37	M10×1.0	1	4.70
	CBT50-HMC14-150	14	27	50	150	100	37	M10×1.0	1	4.80
	CBT50-HMC16-150	16	32	50	150	90	42	M12×1.0	1	4.90
CBT50-HMC20-150	20	34	50	150	90	42	M16×1.0	1	5.00	

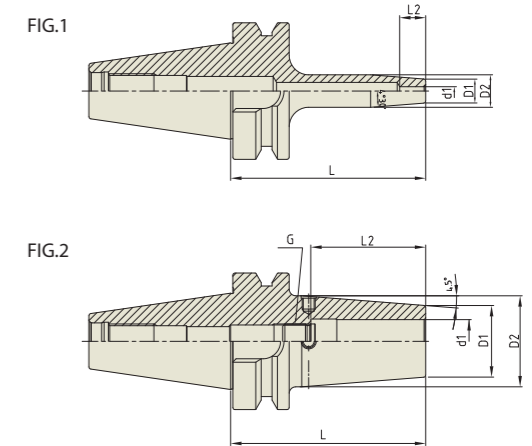
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

CBT (BT DUAL CONTACT)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)	
30	CBT30-SFH3-60	3	11	15	60	10	-	1	0.40	
	CBT30-SFH4-60	4	11	15	60	12	-	1	0.40	
	CBT30-SFH5-60	5	11	15	60	15	-	1	0.40	
	CBT30-SFH6-60	6	21	27	60	36	M5×0.8	2	0.40	
	CBT30-SFH8-60	8	21	27	60	36	M6×1.0	2	0.40	
	CBT30-SFH10-80	10	24	32	80	41	M8×1.0	2	0.40	
	CBT30-SFH12-80	12	24	32	80	48	M10×1.0	2	0.42	
	CBT30-SFH14-80	14	27	34	80	48	M10×1.0	2	0.42	
	CBT30-SFH16-80	16	27	34	80	51	M12×1.0	2	0.42	
	CBT30-SFH18-80	18	27	34	80	51	M12×1.0	2	0.42	
	CBT30-SFH20-90	20	33	42	90	53	M16×1.0	2	0.44	
	40	CBT40-SFH3-90	3	11	15	90	10	-	1	1.00
		CBT40-SFH4-90	4	11	15	90	12	-	1	1.00
		CBT40-SFH5-90	5	11	15	90	23	-	1	1.00
CBT40-SFH6-90		6	21	27	90	36	M5×0.8	2	1.10	
CBT40-SFH6-130		6	21	27	130	36	M5×0.8	2	-	
CBT40-SFH6-160		6	21	27	160	36	M5×0.8	2	1.15	
CBT40-SFH8-90		8	21	27	90	36	M6×1.0	2	1.11	
CBT40-SFH8-130		8	21	27	130	36	M6×1.0	2	-	
CBT40-SFH8-160		8	21	27	160	36	M6×1.0	2	1.15	
CBT40-SFH10-90		10	24	32	90	41	M8×1.0	2	1.10	
CBT40-SFH10-130		10	24	32	130	41	M8×1.0	2	-	
CBT40-SFH10-160		10	24	32	160	41	M8×1.0	2	1.15	
CBT40-SFH12-90		12	24	32	90	47	M10×1.0	2	1.10	
CBT40-SFH12-130		12	24	32	130	47	M10×1.0	2	-	
CBT40-SFH12-160		12	24	32	160	47	M10×1.0	2	1.15	
CBT40-SFH14-90		14	27	34	90	47	M10×1.0	2	1.20	
CBT40-SFH14-130	14	27	34	130	47	M10×1.0	2	-		
CBT40-SFH14-160	14	27	34	160	47	M10×1.0	2	1.50		

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

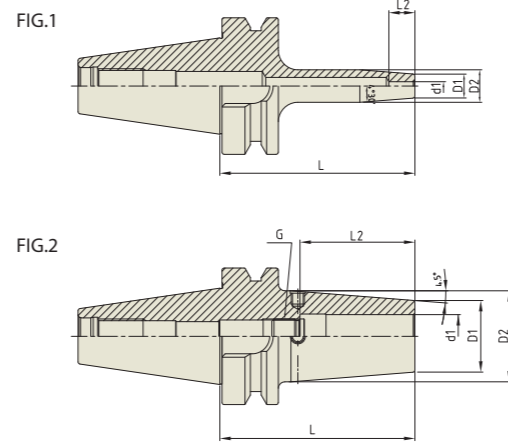
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CBT (BT DUAL CONTACT)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
40	CBT40-SFH16-90	16	27	34	90	50	M12×1.0	2	1.20
	CBT40-SFH16-130	16	27	34	130	50	M12×1.0	2	-
	CBT40-SFH16-160	16	27	34	160	50	M12×1.0	2	1.50
	CBT40-SFH18-90	18	33	42	90	50	M12×1.0	2	1.30
	CBT40-SFH18-130	18	33	42	130	50	M12×1.0	2	-
	CBT40-SFH18-160	18	33	42	160	50	M12×1.0	2	1.60
	CBT40-SFH20-90	20	33	42	90	52	M16×1.0	2	1.40
	CBT40-SFH20-130	20	33	42	130	52	M16×1.0	2	-
	CBT40-SFH20-160	20	33	42	160	52	M16×1.0	2	1.70
	CBT40-SFH25-100	25	44	53	100	58	M16×1.0	2	1.70
	CBT40-SFH25-130	25	44	53	130	58	M16×1.0	2	-
	CBT40-SFH25-160	25	44	53	160	58	M16×1.0	2	2.00
50	CBT50-SFH3-100	3	11	15	100	10	-	1	1.50
	CBT50-SFH4-100	4	11	15	100	12	-	1	1.50
	CBT50-SFH5-100	5	11	15	100	15	-	1	1.50
	CBT50-SFH6-100	6	21	27	100	36	M5×0.8	2	1.50
	CBT50-SFH6-130	6	21	27	130	36	M5×0.8	2	-
	CBT50-SFH6-160	6	21	27	160	36	M5×0.8	2	2.00
	CBT50-SFH6-200	6	21	27	200	36	M5×0.8	2	-
	CBT50-SFH8-100	8	21	27	100	36	M6×1.0	2	1.50
	CBT50-SFH8-130	8	21	27	130	36	M6×1.0	2	-
	CBT50-SFH8-160	8	21	27	160	36	M6×1.0	2	2.00
	CBT50-SFH8-200	8	21	27	200	36	M6×1.0	2	-
	CBT50-SFH10-100	10	24	32	100	42	M8×1.0	2	1.50
	CBT50-SFH10-130	10	24	32	130	42	M8×1.0	2	-
	CBT50-SFH10-160	10	24	32	160	42	M8×1.0	2	2.00
	CBT50-SFH10-200	10	24	32	200	42	M8×1.0	2	-
	CBT50-SFH12-100	12	24	32	100	47	M10×1.0	2	1.50
	CBT50-SFH12-130	12	24	32	130	47	M10×1.0	2	-
	CBT50-SFH12-160	12	24	32	160	47	M10×1.0	2	2.00
CBT50-SFH12-200	12	24	32	200	47	M10×1.0	2	-	

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

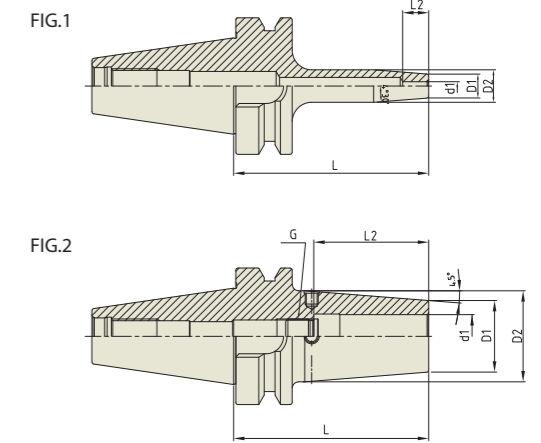
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CBT (BT DUAL CONTACT)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
50	CBT50-SFH14-100	14	27	34	100	47	M10×1.0	2	1.60
	CBT50-SFH14-130	14	27	34	130	47	M10×1.0	2	-
	CBT50-SFH14-160	14	27	34	160	47	M10×1.0	2	2.10
	CBT50-SFH14-200	14	27	34	200	47	M10×1.0	2	-
	CBT50-SFH16-100	16	27	34	100	50	M12×1.0	2	1.60
	CBT50-SFH16-130	16	27	34	130	50	M12×1.0	2	-
	CBT50-SFH16-160	16	27	34	160	50	M12×1.0	2	2.10
	CBT50-SFH16-200	16	27	34	200	50	M12×1.0	2	-
	CBT50-SFH18-100	18	33	42	100	50	M12×1.0	2	1.60
	CBT50-SFH18-130	18	33	42	130	50	M12×1.0	2	-
	CBT50-SFH18-160	18	33	42	160	50	M12×1.0	2	2.00
	CBT50-SFH18-200	18	33	42	200	50	M12×1.0	2	-
	CBT50-SFH20-100	20	33	42	100	52	M16×1.0	2	1.80
	CBT50-SFH20-130	20	33	42	130	52	M16×1.0	2	-
	CBT50-SFH20-160	20	33	42	160	52	M16×1.0	2	2.20
	CBT50-SFH20-200	20	33	42	200	52	M16×1.0	2	-
	CBT50-SFH25-100	25	44	53	100	58	M16×1.0	2	2.00
	CBT50-SFH25-130	25	44	53	130	58	M16×1.0	2	-
	CBT50-SFH25-160	25	44	53	160	58	M16×1.0	2	2.40
	CBT50-SFH25-200	25	44	53	200	58	M16×1.0	2	-

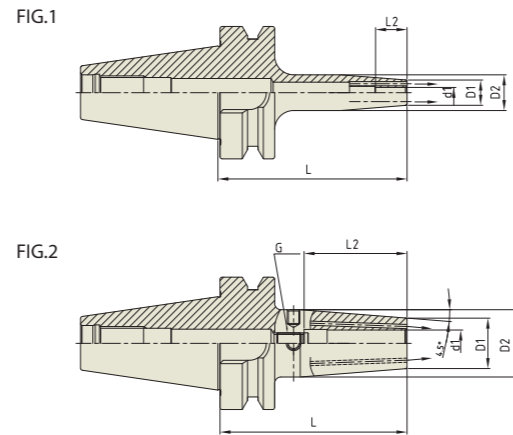
- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

CBT (BT DUAL CONTACT)

SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR

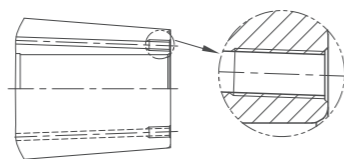


CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD+C
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
40	CBT40-SFH3C-90*1	3	12	17	90	10	-	1	-
	CBT40-SFH4C-90*1	4	12	17	90	12	-	1	-
	CBT40-SFH5C-90*1	5	12	17	90	15	-	1	-
	CBT40-SFH6C-90	6	21	27	90	36	M5x0.8	2	1.10
	CBT40-SFH6C-130	6	21	27	130	36	M5x0.8	2	-
	CBT40-SFH6C-160	6	21	27	160	36	M5x0.8	2	1.15
	CBT40-SFH8C-90	8	21	27	90	36	M6x1.0	2	1.11
	CBT40-SFH8C-130	8	21	27	130	36	M6x1.0	2	-
	CBT40-SFH8C-160	8	21	27	160	36	M6x1.0	2	1.15
	CBT40-SFH10C-90	10	24	32	90	41	M8x1.0	2	1.10
	CBT40-SFH10C-130	10	24	32	130	41	M8x1.0	2	-
	CBT40-SFH10C-160	10	24	32	160	41	M8x1.0	2	1.15
	CBT40-SFH12C-90	12	24	32	90	47	M10x1.0	2	1.10
	CBT40-SFH12C-130	12	24	32	130	47	M10x1.0	2	-
	CBT40-SFH12C-160	12	24	32	160	47	M10x1.0	2	1.15
	CBT40-SFH14C-90	14	27	34	90	47	M10x1.0	2	1.20
	CBT40-SFH14C-130	14	27	34	130	47	M10x1.0	2	-
	CBT40-SFH14C-160	14	27	34	160	47	M10x1.0	2	1.50
	CBT40-SFH16C-90	16	27	34	90	50	M12x1.0	2	1.20
	CBT40-SFH16C-130	16	27	34	130	50	M12x1.0	2	-
CBT40-SFH16C-160	16	27	34	160	50	M12x1.0	2	1.50	
CBT40-SFH18C-90	18	33	42	90	50	M12x1.0	2	1.30	
CBT40-SFH18C-130	18	33	42	130	50	M12x1.0	2	-	
CBT40-SFH18C-160	18	33	42	160	50	M12x1.0	2	1.60	

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request.
(Thread for plugging screw & 2 screws)
- ▶ *1 Resealable type is not available.



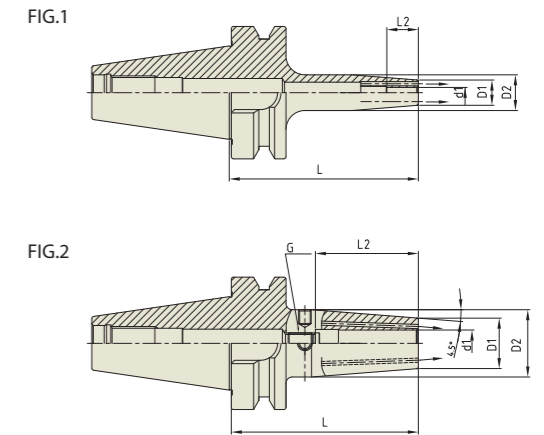
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CBT (BT DUAL CONTACT)

SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR

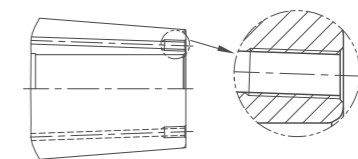


CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD+C
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
40	CBT40-SFH20C-90	20	33	42	90	52	M16x1.0	2	1.40
	CBT40-SFH20C-130	20	33	42	130	52	M16x1.0	2	-
	CBT40-SFH20C-160	20	33	42	160	52	M16x1.0	2	1.70
	CBT40-SFH25C-100	25	44	53	100	58	M16x1.0	2	1.70
	CBT40-SFH25C-130	25	44	53	130	58	M16x1.0	2	-
	CBT40-SFH25C-160	25	44	53	160	58	M16x1.0	2	2.00
	CBT50-SFH3C-100*1	3	12	17	100	10	-	1	-
50	CBT50-SFH4C-100*1	4	12	17	100	12	-	1	-
	CBT50-SFH5C-100*1	5	12	17	100	15	-	1	-
	CBT50-SFH6C-100	6	21	27	100	36	M5x0.8	2	1.50
	CBT50-SFH6C-130	6	21	27	130	36	M5x0.8	2	-
	CBT50-SFH6C-160	6	21	27	160	36	M5x0.8	2	2.00
	CBT50-SFH6C-200	6	21	27	200	36	M5x0.8	2	-
	CBT50-SFH8C-100	8	21	27	100	36	M6x1.0	2	1.50
	CBT50-SFH8C-130	8	21	27	130	36	M6x1.0	2	-
	CBT50-SFH8C-160	8	21	27	160	36	M6x1.0	2	2.00
	CBT50-SFH8C-200	8	21	27	200	36	M6x1.0	2	-
	CBT50-SFH10C-100	10	24	32	100	42	M8x1.0	2	1.10
	CBT50-SFH10C-130	10	24	32	130	42	M8x1.0	2	-
	CBT50-SFH10C-160	10	24	32	160	42	M8x1.0	2	1.15
	CBT50-SFH10C-200	10	24	32	200	42	M8x1.0	2	-
	CBT50-SFH12C-100	12	24	32	100	47	M10x1.0	2	1.60
	CBT50-SFH12C-130	12	24	32	130	47	M10x1.0	2	-
CBT50-SFH12C-160	12	24	32	160	47	M10x1.0	2	2.10	

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request.
(Thread for plugging screw & 2 screws)
- ▶ *1 Resealable type is not available.



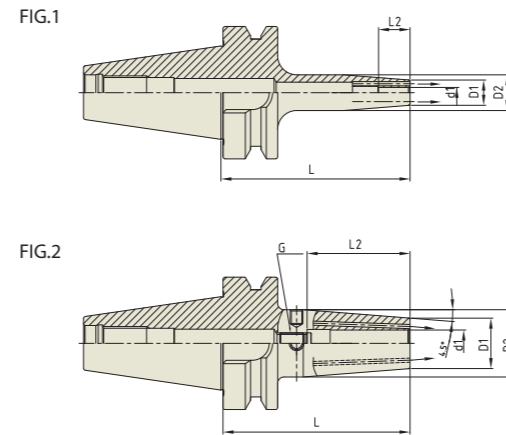
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CBT (BT DUAL CONTACT)

SHRINK FIT HOLDER (COOLANT CHANNEL)



SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR

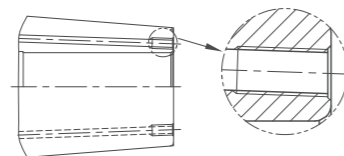


CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD+C
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
50	CBT50-SFH12C-200	12	24	32	200	47	M10x1.0	2	-
	CBT50-SFH14C-100	14	27	34	100	47	M10x1.0	2	1.60
	CBT50-SFH14C-130	14	27	34	130	47	M10x1.0	2	-
	CBT50-SFH14C-160	14	27	34	160	47	M10x1.0	2	2.10
	CBT50-SFH14C-200	14	27	34	200	47	M10x1.0	2	-
	CBT50-SFH16C-100	16	27	34	100	50	M12x1.0	2	1.60
	CBT50-SFH16C-130	16	27	34	130	50	M12x1.0	2	-
	CBT50-SFH16C-160	16	27	34	160	50	M12x1.0	2	2.10
	CBT50-SFH16C-200	16	27	34	200	50	M12x1.0	2	-
	CBT50-SFH18C-100	18	33	42	100	50	M12x1.0	2	1.60
	CBT50-SFH18C-130	18	33	42	130	50	M12x1.0	2	-
	CBT50-SFH18C-160	18	33	42	160	50	M12x1.0	2	2.00
	CBT50-SFH18C-200	18	33	42	200	50	M12x1.0	2	-
	CBT50-SFH20C-100	20	33	42	100	52	M16x1.0	2	1.80
	CBT50-SFH20C-130	20	33	42	130	52	M16x1.0	2	-
	CBT50-SFH20C-160	20	33	42	160	52	M16x1.0	2	2.20
	CBT50-SFH20C-200	20	33	42	200	52	M16x1.0	2	-
	CBT50-SFH25C-100	25	44	53	100	58	M16x1.0	2	2.00
	CBT50-SFH25C-130	25	44	53	130	58	M16x1.0	2	-
	CBT50-SFH25C-160	25	44	53	160	58	M16x1.0	2	2.40
CBT50-SFH25C-200	25	44	53	200	58	M16x1.0	2	-	

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)

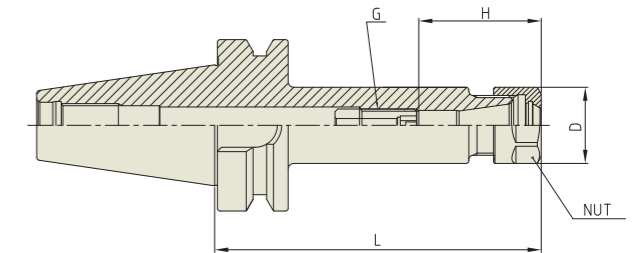


CBT (BT DUAL CONTACT)

ER COLLET CHUCK



SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	G	H	NUT / COLLET	WEIGHT (Kg)	
30	CBT30-ER11-70	0.5 - 7.0	70	19	M6	45	ER11	0.50	
	CBT30-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	0.50	
	CBT30-ER16-70	0.5 - 10.0	70	28	M10	45	ER16	1.00	
	CBT30-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	1.10	
	CBT30-ER20-80	0.5 - 13.0	80	34	M12	50	ER20	1.20	
	CBT30-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	1.30	
	CBT30-ER25-70	1.0 - 16.0	70	42	M12	65	ER25	1.20	
	CBT30-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	1.30	
	CBT30-ER32-60	1.0 - 20.0	60	50	M12	65	ER32	1.40	
	CBT30-ER32-90	1.0 - 20.0	90	50	M12	65	ER32	1.90	
	40	CBT40-ER11-75	0.5 - 7.0	75	19	M6	45	ER11	1.00
		CBT40-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	1.10
CBT40-ER16-75		0.5 - 10.0	75	28	M10	45	ER16	1.10	
CBT40-ER16-100		0.5 - 10.0	100	28	M10	45	ER16	1.20	
CBT40-ER16-120		0.5 - 10.0	120	28	M12	45	ER16	1.40	
CBT40-ER20-75		0.5 - 13.0	75	34	M12	50	ER20	1.40	
CBT40-ER20-100		0.5 - 13.0	100	34	M12	50	ER20	1.80	
CBT40-ER20-135		0.5 - 13.0	135	34	M12	50	ER20	2.20	
CBT40-ER25-75		1.0 - 16.0	75	42	M12	65	ER25	1.40	
CBT40-ER25-100		1.0 - 16.0	100	42	M12	65	ER25	1.80	
CBT40-ER25-135		1.0 - 16.0	135	42	M12	65	ER25	2.20	
CBT40-ER25-150		1.0 - 16.0	150	42	M12	65	ER25	2.40	
CBT40-ER32-60	1.0 - 20.0	60	50	M12	65	ER32	1.80		
CBT40-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	2.20		
CBT40-ER32-120	1.0 - 20.0	120	50	M12	65	ER32	2.40		
CBT40-ER32-150	1.0 - 20.0	150	50	M12	65	ER32	2.60		
CBT40-ER40-80	2.0 - 30.0	80	63	M12	75	ER40	1.50		

- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

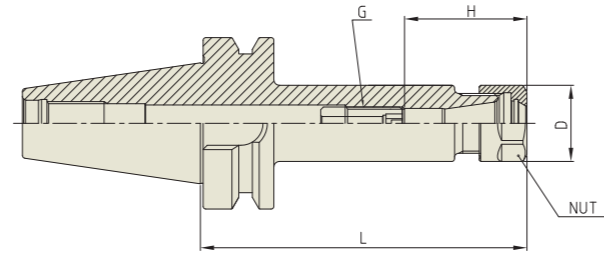
▶ NEXT PAGE

CBT (BT DUAL CONTACT)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
50	CBT50-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	4.20
	CBT50-ER16-120	0.5 - 10.0	120	28	M10	45	ER16	4.40
	CBT50-ER16-165	0.5 - 10.0	165	28	M10	45	ER16	4.60
	CBT50-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	4.60
	CBT50-ER20-135	0.5 - 13.0	135	34	M12	50	ER20	4.80
	CBT50-ER20-165	0.5 - 13.0	165	34	M12	50	ER20	5.00
	CBT50-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	4.70
	CBT50-ER25-135	1.0 - 16.0	135	42	M12	65	ER25	4.80
	CBT50-ER25-165	1.0 - 16.0	165	42	M12	65	ER25	5.00
	CBT50-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	5.20
	CBT50-ER32-135	1.0 - 20.0	135	50	M12	65	ER32	5.70
	CBT50-ER32-165	1.0 - 20.0	165	50	M12	65	ER32	5.80
	CBT50-ER40-100	2.0 - 30.0	100	63	M12	75	ER40	5.60
	CBT50-ER40-150	2.0 - 30.0	150	63	M12	75	ER40	6.10
	CBT50-ER50-100	4.0 - 34.0	100	78	M16	85	ER50	5.80
	CBT50-ER50-150	4.0 - 34.0	150	78	M16	85	ER50	6.30

- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

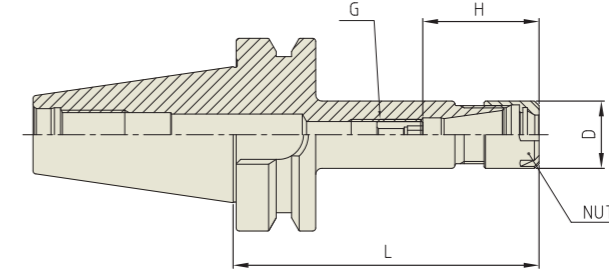
CBT (BT DUAL CONTACT)

ER COLLET CHUCK (SLIM)

NEW

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
30	CBT30-ER11M-70	0.5 - 7.0	70	16	M6	29.5	ER11M / ER11	-
	CBT30-ER11M-100	0.5 - 7.0	100	16	M6	29.5	ER11M / ER11	-
	CBT30-ER16M-70	0.5 - 10.0	70	22	M10	38	ER16M / ER16	-
	CBT30-ER16M-100	0.5 - 10.0	100	22	M10	38	ER16M / ER16	-
	CBT30-ER20M-80	0.5 - 13.0	80	28	M12	44.5	ER20M / ER20	-
	CBT30-ER20M-100	0.5 - 13.0	100	28	M12	44.5	ER20M / ER20	-
40	CBT30-ER25M-70	1.0 - 16.0	70	35	M12	52	ER25M / ER25	-
	CBT30-ER25M-100	1.0 - 16.0	100	35	M12	52	ER25M / ER25	-
	CBT40-ER11M-75	0.5 - 7.0	75	16	M6	29.5	ER11M / ER11	-
	CBT40-ER11M-100	0.5 - 7.0	100	16	M6	29.5	ER11M / ER11	-
	CBT40-ER11M-130	0.5 - 7.0	130	16	M6	29.5	ER11M / ER11	-
	CBT40-ER11M-160	0.5 - 7.0	160	16	M6	29.5	ER11M / ER11	-
	CBT40-ER16M-75	0.5 - 10.0	75	22	M10	38	ER16M / ER16	-
	CBT40-ER16M-100	0.5 - 10.0	100	22	M10	38	ER16M / ER16	-
	CBT40-ER16M-130	0.5 - 10.0	130	22	M10	38	ER16M / ER16	-
	CBT40-ER16M-160	0.5 - 10.0	160	22	M10	38	ER16M / ER16	-
	CBT40-ER20M-75	0.5 - 13.0	75	28	M12	44.5	ER20M / ER20	-
	CBT40-ER20M-100	0.5 - 13.0	100	28	M12	44.5	ER20M / ER20	-
50	CBT40-ER20M-130	0.5 - 13.0	130	28	M12	44.5	ER20M / ER20	-
	CBT40-ER20M-160	0.5 - 13.0	160	28	M12	44.5	ER20M / ER20	-
	CBT40-ER25M-75	1.0 - 16.0	75	35	M12	52	ER25M / ER25	-
	CBT40-ER25M-100	1.0 - 16.0	100	35	M12	52	ER25M / ER25	-
	CBT40-ER25M-130	1.0 - 16.0	130	35	M12	52	ER25M / ER25	-
	CBT40-ER25M-160	1.0 - 16.0	160	35	M12	52	ER25M / ER25	-
50	CBT50-ER16M-100	0.5 - 10.0	100	22	M10	38	ER16M / ER16	-
	CBT50-ER16M-130	0.5 - 10.0	130	22	M10	38	ER16M / ER16	-
	CBT50-ER16M-160	0.5 - 10.0	160	22	M10	38	ER16M / ER16	-
	CBT50-ER20M-100	0.5 - 13.0	100	28	M12	44.5	ER20M / ER20	-
	CBT50-ER20M-130	0.5 - 13.0	130	28	M12	44.5	ER20M / ER20	-
	CBT50-ER20M-160	0.5 - 13.0	160	28	M12	44.5	ER20M / ER20	-
	CBT50-ER25M-100	1.0 - 16.0	100	35	M12	52	ER25M / ER25	-
	CBT50-ER25M-130	1.0 - 16.0	130	35	M12	52	ER25M / ER25	-
CBT50-ER25M-160	1.0 - 16.0	160	35	M12	52	ER25M / ER25	-	

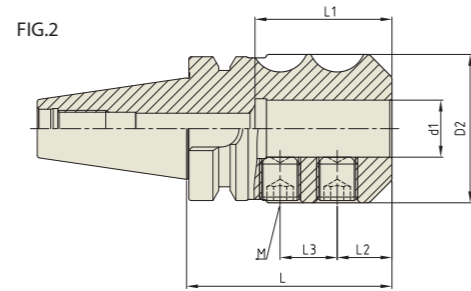
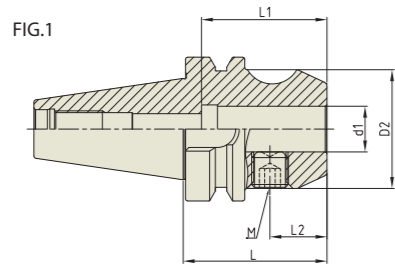
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable ER collet please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk, please refer to page 323 & 327.

CBT (BT DUAL CONTACT)

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
30	CBT30-EMH6-50	6	25	50	37	18	-	M6	1	-
	CBT30-EMH8-50	8	28	50	37	18	-	M8	1	-
	CBT30-EMH10-50	10	35	50	41	20	-	M10	1	-
	CBT30-EMH12-55	12	42	55	46	22.5	-	M12	1	-
	CBT30-EMH16-63	16	48	63	54	24	-	M14	1	-
	CBT30-EMH20-70	20	52	70	53	25	-	M16	1	-
40	CBT40-EMH6-50	6	25	50	35	18	-	M6	1	-
	CBT40-EMH6-100	6	25	100	35	18	-	M6	1	-
	CBT40-EMH8-50	8	28	50	35	18	-	M8	1	-
	CBT40-EMH8-100	8	28	100	35	18	-	M8	1	-
	CBT40-EMH10-63	10	35	63	36	20	-	M10	1	-
	CBT40-EMH10-100	10	35	100	36	20	-	M10	1	-
	CBT40-EMH12-63	12	42	63	36	22.5	-	M12	1	-
	CBT40-EMH12-100	12	42	100	36	22.5	-	M12	1	-
	CBT40-EMH16-63	16	48	63	54	24	-	M14	1	-
	CBT40-EMH16-100	16	48	100	54	24	-	M14	1	-
	CBT40-EMH20-63	20	52	63	55	25	-	M16	1	-
	CBT40-EMH20-100	20	52	100	55	25	-	M16	1	-
CBT40-EMH25-90	25	65	90	60	24	25	M18	2	-	
50	CBT50-EMH6-63	6	25	63	35	18	-	M6	1	-
	CBT50-EMH8-63	8	28	63	35	18	-	M8	1	-
	CBT50-EMH10-70	10	35	70	36	20	-	M10	1	-
	CBT50-EMH12-80	12	42	80	46	22.5	-	M12	1	-
	CBT50-EMH16-80	16	48	80	49	24	-	M14	1	-
	CBT50-EMH20-80	20	52	80	52	25	-	M16	1	-
	CBT50-EMH25-100	25	65	100	60	24	25	M18	2	-

- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

CBT (BT DUAL CONTACT)

SIDE LOCK ARBOR

SLA

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



FIG.1

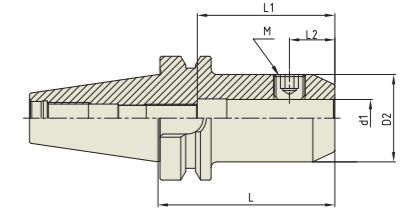
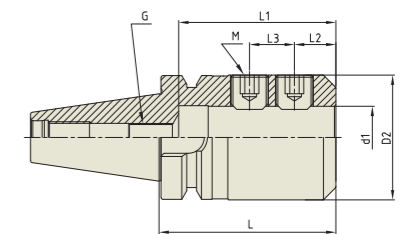


FIG.2



CBT	Taper Accuracy AT3	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	G	FIG.	WEIGHT (Kg)
30	CBT30-SLA6-60	6	25	60	35	18	-	M5	M5	1	0.70
	CBT30-SLA8-60	8	28	60	35	18	-	M6	M6	1	0.80
	CBT30-SLA10-60	10	35	60	50	14	13	M8	M8	2	0.90
	CBT30-SLA12-60	12	40	60	50	14	13	M10	M10	2	1.10
	CBT30-SLA14-60	14	40	60	50	14	13	M10	M10	2	1.20
	CBT30-SLA16-75	16	40	75	70	25	20	M12	M12	2	1.30
	CBT30-SLA20-75	20	50	75	70	25	20	M12	M12	2	1.40
	CBT30-SLA25-75	25	50	75	70	25	20	M14	M12	2	1.50
	CBT30-SLA32-105	32	60	105	80	25	25	M16	M12	2	1.60
	CBT40-SLA6-60	6	25	60	35	18	-	M5	M5	1	1.10
40	CBT40-SLA8-60	8	28	60	35	18	-	M6	M6	1	1.10
	CBT40-SLA10-60	10	35	60	50	14	13	M8	M8	2	1.20
	CBT40-SLA12-60	12	40	60	50	14	13	M10	M10	2	1.40
	CBT40-SLA16-90	16	40	90	70	25	20	M12	M10	2	1.50
	CBT40-SLA20-90	20	50	90	70	25	20	M12	M12	2	1.80
	CBT40-SLA25-90	25	50	90	70	25	20	M14	M12	2	1.70
	CBT40-SLA32-90	32	60	90	80	25	25	M16	M12	2	1.90
	CBT40-SLA40-90	40	63	90	80	25	25	M16	M12	2	1.80
	CBT40-SLA42-90	42	63	90	80	25	25	M16	M12	2	1.80
	CBT50-SLA6-90	6	25	90	40	18	-	M5	M5	1	3.70
50	CBT50-SLA8-90	8	28	90	40	18	-	M6	M6	1	3.90
	CBT50-SLA10-90	10	35	90	50	15	15	M8	M8	2	4.10
	CBT50-SLA12-90	12	40	90	55	15	15	M10	M10	2	4.30
	CBT50-SLA14-90	14	40	90	55	15	15	M10	M10	2	4.30
	CBT50-SLA16-105	16	40	105	70	25	20	M12	M12	2	4.40
	CBT50-SLA20-105	20	50	105	70	25	20	M12	M12	2	4.80
	CBT50-SLA25-105	25	50	105	70	25	20	M14	M12	2	4.70
	CBT50-SLA32-105	32	60	105	80	25	25	M16	M12	2	4.00
	CBT50-SLA40-105	40	70	105	80	25	25	M16	M12	2	4.50
	CBT50-SLA42-105	42	70	105	80	25	25	M16	M12	2	4.70
	CBT50-SLA50.8-121	50.8	95	121	87	33.9	35.8	M20	-	2	5.00

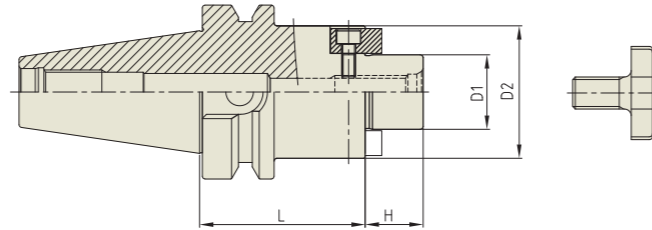
- ▶ Inch type products are available.
- ▶ Standard design of Side Lock Arbor is for cutting tools with straight shank having flat face.
- ▶ Side Lock Arbor is Non-Balancing.

CBT (BT DUAL CONTACT)

SHELL MILL ARBOR

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
30	CBT30-SMA16-50	16	32	50	17	M8x16L	0.58
	CBT30-SMA22-50	22	40	50	19	M10x18L	0.70
	CBT30-SMA27-50	27	48	50	21	M12x22L	0.85
40	CBT40-SMA16-60	16	32	60	17	M8x16L	1.17
	CBT40-SMA16-120	16	32	120	17	M8x16L	1.50
	CBT40-SMA22-60	22	40	60	19	M10x18L	1.31
	CBT40-SMA22-120	22	40	120	19	M10x18L	1.85
	CBT40-SMA27-60	27	48	60	21	M12x22L	1.48
	CBT40-SMA27-120	27	48	120	21	M12x22L	2.27
	CBT40-SMA32-60	32	58	60	24	M16x26L	1.72
	CBT40-SMA32-120	32	58	120	24	M16x26L	2.90
	CBT40-SMA40-60	40	70	60	27	M20x30L	2.00
50	CBT50-SMA16-75	16	32	75	17	M8x16L	3.75
	CBT50-SMA16-120	16	32	120	17	M8x16L	4.03
	CBT50-SMA22-75	22	40	75	19	M10x18L	3.90
	CBT50-SMA22-120	22	40	120	19	M10x18L	4.25
	CBT50-SMA27-75	27	48	75	21	M12x22L	4.09
	CBT50-SMA27-120	27	48	120	21	M12x22L	4.56
	CBT50-SMA32-75	32	58	75	24	M16x26L	4.35
	CBT50-SMA32-120	32	58	120	24	M16x26L	5.22
	CBT50-SMA40-75	40	70	75	27	M20x30L	4.77
	CBT50-SMA40-120	40	70	120	27	M20x30L	6.04
	CBT50-SMA50-75	50	90	75	30	M24x36L	5.63

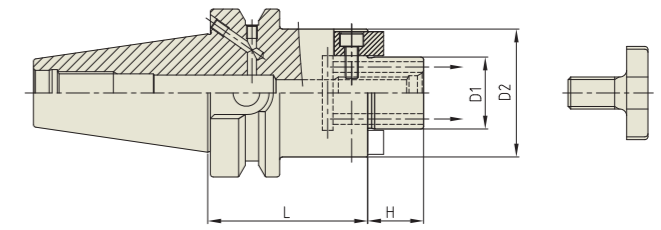
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For parts, please refer to page 329.

CBT (BT DUAL CONTACT)

SHELL MILL ARBOR (COOLANT CHANNEL & SMALL FACE)

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD/B+C
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Unit : mm

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
40	CBT40AD/B-SMA16C-60	16	32	60	17	M8x16L	1.20
	CBT40AD/B-SMA16C-120	16	32	120	17	M8x16L	1.20
	CBT40AD/B-SMA22C-60	22	40	60	19	M10x18L	1.27
	CBT40AD/B-SMA22C-120	22	40	120	19	M10x18L	1.84
	CBT40AD/B-SMA27C-60	27	48	60	21	M12x22L	1.44
	CBT40AD/B-SMA27C-120	27	48	120	21	M12x22L	2.26
50	CBT50AD/B-SMA16C-60	16	32	60	17	M8x16L	3.00
	CBT50AD/B-SMA16C-120	16	32	120	17	M8x16L	3.30
	CBT50AD/B-SMA22C-75	22	40	75	19	M10x18L	3.83
	CBT50AD/B-SMA22C-120	22	40	120	19	M10x18L	4.24
	CBT50AD/B-SMA27C-75	27	48	75	21	M12x22L	4.03
	CBT50AD/B-SMA27C-120	27	48	120	21	M12x22L	4.64
	CBT50AD/B-SMA32C-75	32	58	75	24	M16x26L	4.31
	CBT50AD/B-SMA32C-120	32	58	120	24	M16x26L	5.19
	CBT50AD/B-SMA40C-75	40	70	75	27	M20x30L	4.75
	CBT50AD/B-SMA40C-120	40	70	120	27	M20x30L	6.02

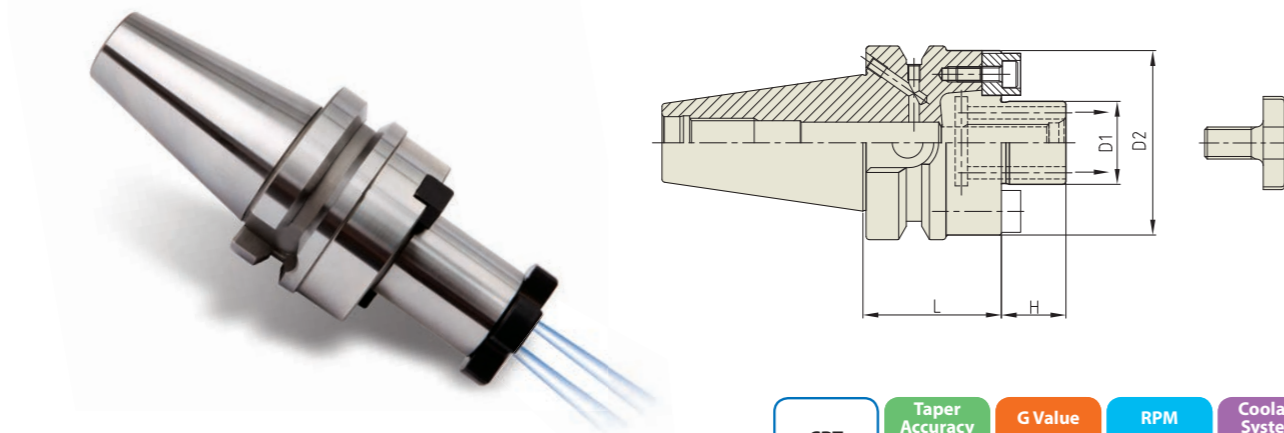
- ▶ Inch type products are available.
- ▶ With "Coolant Through" by coolant channels.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For parts, please refer to page 329.

CBT (BT DUAL CONTACT)

SHELL MILL ARBOR (COOLANT CHANNEL & LARGE FACE)

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD+C or AD/B+C
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Unit : mm

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
30	CBT30-SMA16CE-40	16	38	40	17	M8x16L	0.55
	CBT30-SMA22CE-40	22	48	40	19	M10x18L	0.69
	CBT30-SMA27CE-40	27	60	40	21	M12x22L	0.85
	CBT30-SMA32CE-45	32	78	45	24	M16x26L	1.32
40	CBT40AD/B-SMA16CE-50	16	38	50	17	M10x18L	1.14
	CBT40AD/B-SMA22CE-45	22	48	45	19	M10x18L	1.22
	CBT40AD/B-SMA27CE-45	27	60	45	21	M12x22L	1.39
	CBT40AD/B-SMA32CE-50	32	78	50	24	M16x26L	1.80
	CBT40AD/B-SMA40CE-50	40	89	50	27	M20x30L	2.05
50	CBT50AD/B-SMA22CE-55	22	48	55	19	M10x18L	3.72
	CBT50AD/B-SMA27CE-55	27	60	55	21	M12x22L	3.89
	CBT50AD/B-SMA32CE-55	32	78	55	24	M16x26L	4.21
	CBT50AD/B-SMA40CE-55	40	89	55	27	M20x30L	4.52

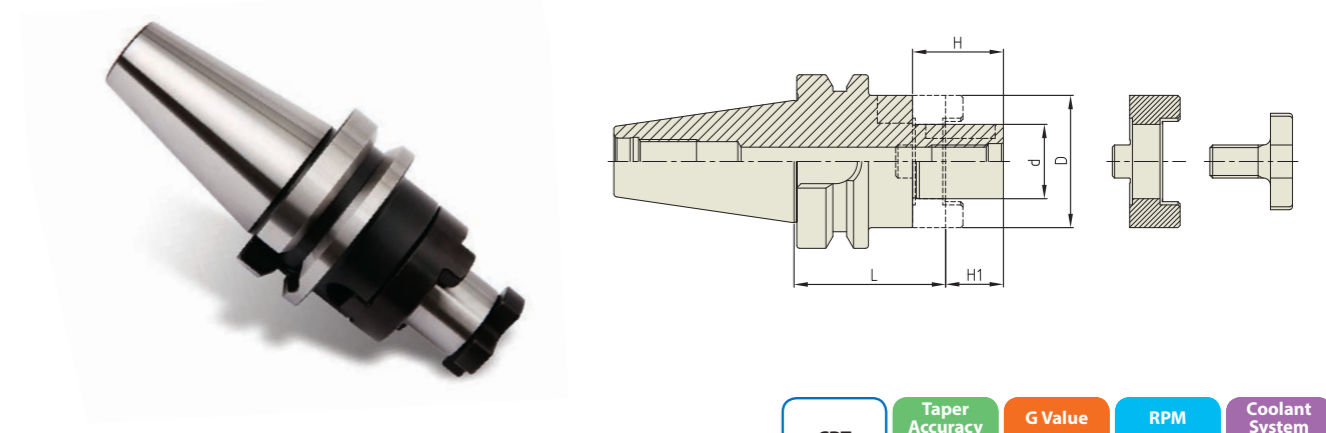
- ▶ Inch type products are available.
- ▶ With "Coolant Through" by coolant channels.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For parts, please refer to page 329.

CBT (BT DUAL CONTACT)

COMBI-SHELL MILL ARBOR

CMA

KOMBI-AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES COMBINÉS
 MANDRINO PORTA FRESE
 PORTA FRESAS COMBINADO



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	WEIGHT (Kg)
30	CBT30-CMA16-50	16	50	32	17	27	0.61
	CBT30-CMA22-50	22	50	40	19	31	0.70
	CBT30-CMA27-55	27	55	48	21	33	0.92
40	CBT40-CMA16-55	16	55	32	17	27	1.14
	CBT40-CMA16-100	16	100	32	17	27	1.41
	CBT40-CMA22-55	22	55	40	19	31	1.26
	CBT40-CMA22-100	22	100	40	19	31	1.68
	CBT40-CMA27-55	27	55	48	21	33	1.42
	CBT40-CMA27-100	27	100	48	21	33	2.02
	CBT40-CMA32-60	32	60	58	24	38	1.72
	CBT40-CMA32-100	32	100	58	24	38	2.51
	CBT40-CMA40-70	40	70	70	27	41	2.46
	CBT40-CMA40-100	40	100	70	27	41	2.46
50	CBT50-CMA16-70	16	70	32	17	27	3.74
	CBT50-CMA16-100	16	100	32	17	27	3.92
	CBT50-CMA22-70	22	70	40	19	31	3.86
	CBT50-CMA22-100	22	100	40	19	31	4.15
	CBT50-CMA27-70	27	70	48	21	33	4.04
	CBT50-CMA27-100	27	100	48	21	33	4.45
	CBT50-CMA32-70	32	70	58	24	38	4.28
	CBT50-CMA32-100	32	100	58	24	38	4.86
	CBT50-CMA40-70	40	70	70	27	41	4.62
	CBT50-CMA40-100	40	100	70	27	41	5.47
CBT50-CMA50-70	50	70	90	30	46	5.48	

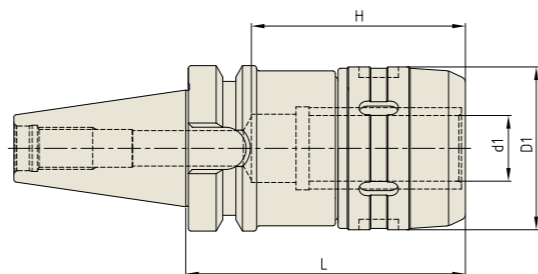
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For parts, please refer to page 330.

CBT (BT DUAL CONTACT)

HIGH-SPEED POWER MILLING CHUCK

C

HOCHGESCHWINDIGKEITS FRÄSERFUTTER
MANDRIN PORTE FRAISE À GRANDE VITESSE
MANDRINI PORTA FRESA PER ALTA VELOCITÀ
PORTAHERRAMIENTAS PARA FRESADO DE ALTA VELOCIDAD



CBT	Taper Accuracy AT3	G Value 6.3	RPM 20,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	WEIGHT (Kg)
30	CBT30-C20-75HS	20	54	75	70	1.50
	CBT30-C25-80HS	25	62	80	70	2.00
40	CBT40-C20-80HS	20	54	80	70	2.00
	CBT40-C20-105HS	20	54	105	70	2.10
	CBT40-C25-105HS	25	62	105	80	2.50
	CBT40-C32-90HS	32	72	90	100	3.00
	CBT40-C32-105HS	32	72	105	100	3.10
	CBT40-C32-135HS	32	72	135	100	3.30
	CBT50-C20-105HS	20	54	105	70	4.50
50	CBT50-C20-135HS	20	54	135	70	4.90
	CBT50-C20-165HS	20	54	165	70	5.40
	CBT50-C25-105HS	25	62	105	80	5.20
	CBT50-C25-135HS	25	62	135	80	5.80
	CBT50-C25-165HS	25	62	165	80	6.20
	CBT50-C32-105HS	32	72	105	100	6.00
	CBT50-C32-135HS	32	72	135	100	6.70
	CBT50-C32-165HS	32	72	165	100	7.40
	CBT50-C42-115HS	42	92	115	110	6.70
	CBT50-C42-135HS	42	92	135	110	7.60
	CBT50-C42-165HS	42	92	165	110	8.30

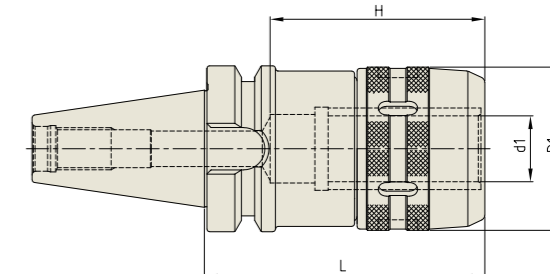
- ▶ Inch type products are available.
- ▶ Balancing Grade is adjusted on Basic holder only without Clamping Cap.
- ▶ For applicable collet and spanner, please refer to the page 332.

CBT (BT DUAL CONTACT)

POWER MILLING CHUCK

C

FRÄSPANNFUTTER
MANDRIN PORTE FRAISE
MANDRINI PORTA FRESA
PORTAHERRAMIENTAS PARA FRESADO



CBT	Taper Accuracy AT3	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	WEIGHT (Kg)
30	CBT30-C20-75	20	54	75	70	1.50
	CBT30-C25-80	25	62	80	70	2.00
40	CBT40-C20-80	20	54	80	70	2.00
	CBT40-C20-105	20	54	105	70	2.10
	CBT40-C25-105	25	62	105	80	2.50
	CBT40-C32-90	32	72	90	100	3.00
	CBT40-C32-105	32	72	105	100	3.10
	CBT40-C32-135	32	72	135	100	3.30
	CBT50-C20-105	20	54	105	70	4.50
50	CBT50-C20-135	20	54	135	70	4.90
	CBT50-C20-165	20	54	165	70	5.40
	CBT50-C25-105	25	62	105	80	5.20
	CBT50-C25-135	25	62	135	80	5.80
	CBT50-C25-165	25	62	165	80	6.20
	CBT50-C32-105	32	72	105	100	6.00
	CBT50-C32-115	32	72	115	100	6.20
	CBT50-C32-135	32	72	135	100	6.70
	CBT50-C32-165	32	72	165	100	7.40
	CBT50-C42-115	42	92	115	110	6.70
	CBT50-C42-135	42	92	135	110	7.60
	CBT50-C42-165	42	92	165	110	8.30

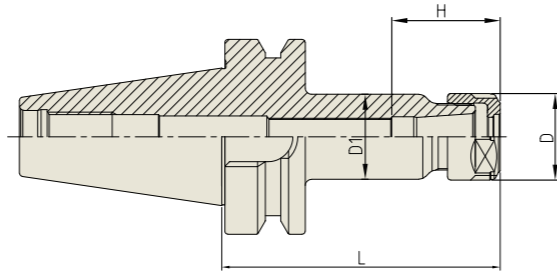
- ▶ Inch type products are available.
- ▶ For applicable collet and spanner, please refer to the page 332.

CBT (BT DUAL CONTACT)

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
 MANDRIN TYPE SK MINCE
 SK MANDRINI SOTTILI
 PORTAHERRAMIENTAS SK EJE REDUCIDO



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	D1	H	COLLET	WEIGHT (Kg)
30	CBT30-SKA06-60	1.8 - 6.0	60	20	19.5	31	SKC6	0.70
	CBT30-SKA06-90	1.8 - 6.0	90	20	19.5	31	SKC6	0.80
	CBT30-SKA10-60	1.75 - 10.0	60	28	27.5	35	SKC10	0.90
	CBT30-SKA10-90	1.75 - 10.0	90	28	27.5	35	SKC10	1.00
	CBT30-SKA13-60	2.75 - 13.0	60	33	33	43.6	SKC13	1.00
	CBT30-SKA13-90	2.75 - 13.0	90	33	33	43.6	SKC13	1.10
	CBT30-SKA16-60	2.75 - 16.0	60	40	40	52	SKC16	1.10
	CBT30-SKA16-90	2.75 - 16.0	90	40	40	52	SKC16	1.20
	CBT30-SKA20-60	3.5 - 20.0	60	48.5	40	59.6	SKC20	1.30
	CBT30-SKA20-90	3.5 - 20.0	90	48.5	40	59.6	SKC20	1.40
	CBT30-SKA25-90	16.0 - 25.4	90	55	45	63.4	SKC25	1.50
	40	CBT40-SKA06-90	1.8 - 6.0	90	20	19.5	31	SKC6
CBT40-SKA06-120		1.8 - 6.0	120	20	19.5	31	SKC6	1.40
CBT40-SKA06-150		1.8 - 6.0	150	20	19.5	31	SKC6	1.50
CBT40-SKA10-90		1.75 - 10.0	90	28	27.5	35	SKC10	1.20
CBT40-SKA10-120		1.75 - 10.0	120	28	27.5	35	SKC10	1.40
CBT40-SKA10-150		1.75 - 10.0	150	28	27.5	35	SKC10	1.60
CBT40-SKA13-90		2.75 - 13.0	90	33	33	43.6	SKC13	1.40
CBT40-SKA13-120		2.75 - 13.0	120	33	33	43.6	SKC13	1.60
CBT40-SKA13-150		2.75 - 13.0	150	33	33	43.6	SKC13	1.80
CBT40-SKA16-90		2.75 - 16.0	90	40	40	52	SKC16	1.50
CBT40-SKA16-120		2.75 - 16.0	120	40	40	52	SKC16	1.70
CBT40-SKA16-150		2.75 - 16.0	150	40	40	52	SKC16	1.90
CBT40-SKA20-90		3.5 - 20.0	90	48.5	48.5	59.6	SKC20	1.60
CBT40-SKA20-120		3.5 - 20.0	120	48.5	48.5	59.6	SKC20	2.00
CBT40-SKA20-150		3.5 - 20.0	150	48.5	48.5	59.6	SKC20	2.40
CBT40-SKA25-90		16.0 - 25.4	90	55	55	63.4	SKC25	1.80
CBT40-SKA25-120		16.0 - 25.4	120	55	55	63.4	SKC25	2.00
CBT40-SKA25-150		16.0 - 25.4	150	55	55	63.4	SKC25	2.30

- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

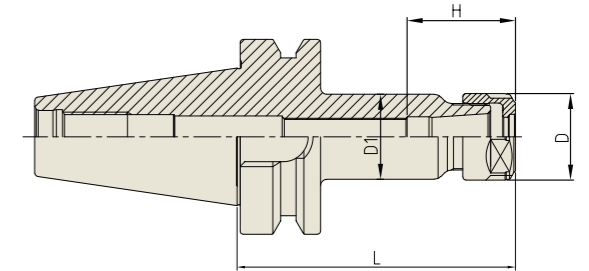
▶ NEXT PAGE

CBT (BT DUAL CONTACT)

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
 MANDRIN TYPE SK MINCE
 SK MANDRINI SOTTILI
 PORTAHERRAMIENTAS SK EJE REDUCIDO



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	D1	H	COLLET	WEIGHT (Kg)
50	CBT50-SKA06-105	1.8 - 6.0	105	20	19.5	31	SKC6	3.80
	CBT50-SKA06-135	1.8 - 6.0	135	20	19.5	31	SKC6	3.90
	CBT50-SKA06-165	1.8 - 6.0	165	20	19.5	31	SKC6	4.00
	CBT50-SKA06-195	1.8 - 6.0	195	20	19.5	31	SKC6	4.20
	CBT50-SKA10-105	1.75 - 10.0	105	28	27.5	35	SKC10	4.20
	CBT50-SKA10-135	1.75 - 10.0	135	28	27.5	35	SKC10	4.40
	CBT50-SKA10-165	1.75 - 10.0	165	28	27.5	35	SKC10	4.60
	CBT50-SKA10-195	1.75 - 10.0	195	28	27.5	35	SKC10	4.80
	CBT50-SKA13-105	2.75 - 13.0	105	33	33	43.6	SKC13	4.50
	CBT50-SKA13-135	2.75 - 13.0	135	33	33	43.6	SKC13	4.70
	CBT50-SKA13-165	2.75 - 13.0	165	33	33	43.6	SKC13	4.90
	CBT50-SKA13-195	2.75 - 13.0	195	33	33	43.6	SKC13	5.20
	CBT50-SKA16-105	2.75 - 16.0	105	40	40	52	SKC16	4.70
	CBT50-SKA16-135	2.75 - 16.0	135	40	40	52	SKC16	4.90
	CBT50-SKA16-165	2.75 - 16.0	165	40	40	52	SKC16	5.10
	CBT50-SKA16-195	2.75 - 16.0	195	40	40	52	SKC16	5.50
	CBT50-SKA20-105	3.5 - 20.0	105	48.5	48.5	59.6	SKC20	4.30
	CBT50-SKA20-135	3.5 - 20.0	135	48.5	48.5	59.6	SKC20	4.60
	CBT50-SKA20-165	3.5 - 20.0	165	48.5	48.5	59.6	SKC20	5.00
	CBT50-SKA20-195	3.5 - 20.0	195	48.5	48.5	59.6	SKC20	5.40
CBT50-SKA25-105	16.0 - 25.4	105	55	55	63.4	SKC25	5.20	
CBT50-SKA25-135	16.0 - 25.4	135	55	55	63.4	SKC25	5.40	
CBT50-SKA25-165	16.0 - 25.4	165	55	55	63.4	SKC25	5.60	
CBT50-SKA25-195	16.0 - 25.4	195	55	55	63.4	SKC25	6.00	

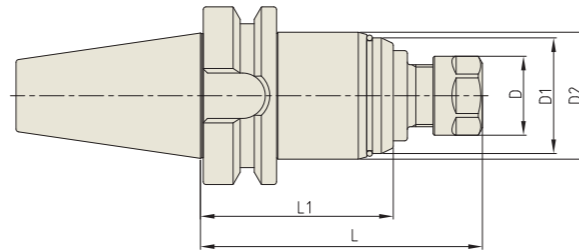
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

CBT (BT DUAL CONTACT)

TAPPING ER CHUCK

TER

ER - GEWINDESCHNEIDFUTTER
MANDRIN DE TARAUDAGE PINCE ER
MANDRINI PORTAPINZA ER PER MASCHIATURA
PORTAPINZAS ER PARA MACHOS



CBT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT / COLLET	WEIGHT (Kg)
40	CBT40-TER16-100	28	41	45	100	68.4	ER16	1.45
	CBT40-TER16-150	28	41	45	150	118.4	ER16	2.00
	CBT40-TER32-110	50	58	63	110	72	ER32	2.20
	CBT40-TER32-150	50	58	63	150	112	ER32	2.70
50	CBT50-TER16-115	28	41	45	115	79.4	ER16	3.95
	CBT50-TER16-150	28	41	45	150	114.4	ER16	4.35
	CBT50-TER32-120	50	58	63	120	83	ER32	4.70
	CBT50-TER32-150	50	58	63	150	113	ER32	5.20

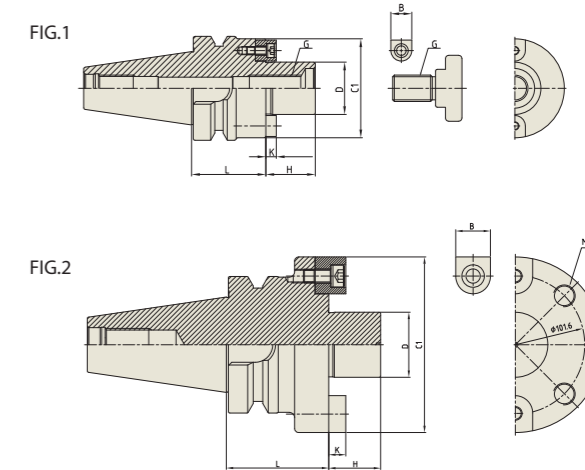
- ▶ Inch type products are available.
- ▶ ER collet of page 314~320 and Tap ER collet of page 321~322 are applicable.

CBT (BT DUAL CONTACT)

FACE MILL ARBOR

FMA

ER - GEWINDESCHNEIDFUTTER
MANDRIN DE TARAUDAGE PINCE ER
MANDRINI PORTAPINZA ER PER MASCHIATURA
PORTAPINZAS ER PARA MACHOS



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

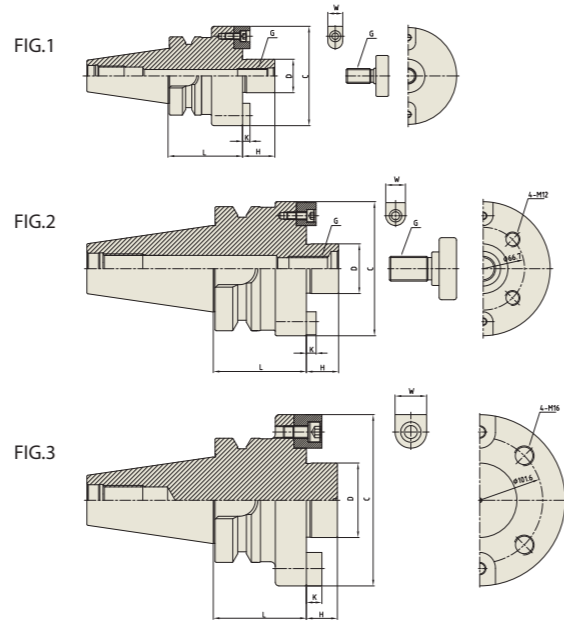
TAPER No.	MODEL No.	D	L	C1	H	B	K	G	FIG.	WEIGHT (Kg)
30	CBT30-FMA25.4-45	25.4	45	50	22	9.52	4.8	M12	1	1.10
	CBT30-FMA31.75-45	31.75	45	60	30	12.7	6.35	M16	1	1.20
40	CBT40-FMA25.4-45	25.4	45	50	22	9.52	4.8	M12	1	1.50
	CBT40-FMA25.4-90	25.4	90	50	22	9.52	4.8	M12	1	3.10
	CBT40-FMA31.75-45	31.75	45	60	30	12.7	6.35	M16	1	1.90
	CBT40-FMA31.75-75	31.75	75	60	30	12.7	6.35	M16	1	2.70
	CBT40-FMA38.1-60	38.1	60	80	34	15.87	8.87	M20	1	2.90
	CBT40-FMA38.1-75	38.1	75	80	34	15.87	8.87	M20	1	3.70
50	CBT50-FMA25.4-45	25.4	45	50	22	9.52	4.8	M12	1	3.70
	CBT50-FMA25.4-90	25.4	90	50	22	9.52	4.8	M12	1	4.60
	CBT50-FMA25.4-150	25.4	150	50	22	9.52	4.8	M12	1	5.50
	CBT50-FMA31.75-45	31.75	45	60	30	12.7	6.35	M16	1	4.50
	CBT50-FMA31.75-75	31.75	75	60	30	12.7	6.35	M16	1	5.30
	CBT50-FMA31.75-105	31.75	105	60	30	12.7	6.35	M16	1	5.80
	CBT50-FMA31.75-150	31.75	150	60	30	12.7	6.35	M16	1	6.30
	CBT50-FMA38.1-45	38.1	45	80	34	15.87	8.87	M20	1	4.30
	CBT50-FMA38.1-75	38.1	75	80	34	15.87	8.87	M20	1	5.60
	CBT50-FMA38.1-105	38.1	105	80	34	15.87	8.87	M20	1	6.00
	CBT50-FMA38.1-150	38.1	150	80	34	15.87	8.87	M20	1	6.50
	CBT50-FMA50.8-45	50.8	45	98	36	19.05	11	M24	1	4.90
CBT50-FMA50.8-75	50.8	75	98	36	19.05	11	M24	1	6.80	
CBT50-FMA47.625-75	47.625	75	128.57	38	25.4	12.5	-	2	7.70	

- ▶ Fig. 2 : Without "Coolant Through".
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For parts, please refer to page 331.

CBT (BT DUAL CONTACT) FACE MILL ARBOR

FMB

AUFNAHMEDORN FÜR MESSERKÖPFE
ARBRE PORTE FRAISE À ALÉSAGE
MANDRINO PORTA FRESE FRONTALE
EJE PARA PLATOS DE PLACAS



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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◆ METRIC TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	WEIGHT (Kg)
30	CBT30-FMB27-45	27	45	80	26	12	6	M12	1	2.10
40	CBT40-FMB27-60	27	60	80	26	12	6	M12	1	2.50
	CBT40-FMB27-90	27	90	80	26	12	6	M12	1	4.70
50	CBT40-FMB40-60	40	60	85	26	15.87	7	M20	1	7.40
	CBT50-FMB27-45	27	45	80	26	12	6	M12	1	4.00
	CBT50-FMB27-90	27	90	80	26	12	6	M12	1	5.80
	CBT50-FMB27-150	27	150	80	26	12	6	M12	1	8.20
	CBT50-FMB40-45	40	45	85	26	15.87	7.8	M20	1	4.70
	CBT50-FMB40-75	40	75	85	26	15.87	7	M20	1	6.10
	CBT50-FMB40-105	40	105	85	26	15.87	7	M20	1	8.10
	CBT50-FMB40F-75	40	75	108	26	15.87	7.87	M20	2	6.60
CBT50-FMB60-75	60	75	138	25	25.4	12.5	-	3	7.90	

◆ INCH TYPE

Unit : mm

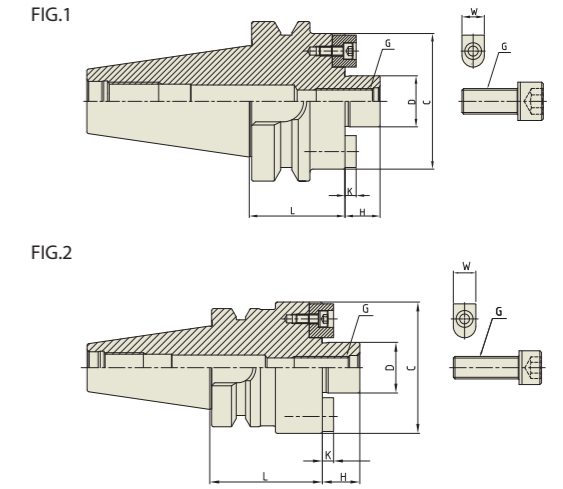
TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	WEIGHT (Kg)
30	CBT30-FMB25.4-45	25.4	45	80	26	9.5	5	M12	1	2.10
40	CBT40-FMB25.4-60	25.4	60	80	26	9.5	5	M12	1	2.50
	CBT40-FMB38.1-60	38.1	60	85	26	15.9	9	M20	1	7.40
50	CBT50-FMB25.4-45	25.4	45	80	26	9.5	5	M12	1	4.00
	CBT50-FMB25.4-90	25.4	90	80	26	9.5	5	M12	1	5.80
	CBT50-FMB25.4-150	25.4	150	80	26	9.5	5	M12	1	8.20
	CBT50-FMB38.1-45	38.1	45	85	26	15.9	9	M20	1	4.70
	CBT50-FMB38.1-75	38.1	75	85	26	15.9	9	M20	1	6.10
	CBT50-FMB38.1-105	38.1	105	85	26	15.9	9	M20	1	8.70
	CBT50-FMB38.1F-75	38.1	75	110	26	15.9	9	M20	2	6.60

- ▶ Fig. 3 : Without "Coolant Through".
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For parts, please refer to page 331.

CBT (BT DUAL CONTACT) FACE MILL ARBOR

FMC

AUFNAHMEDORN FÜR MESSERKÖPFE
ARBRE PORTE FRAISE À ALÉSAGE
MANDRINO PORTA FRESE FRONTALE
EJE PARA PLATOS DE PLACAS



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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◆ METRIC TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	WEIGHT (Kg)
30	CBT30-FMC22-45	22	45	45	18	10	5	M10	1	0.80
40	CBT40-FMC22-45	22	45	45	18	10	5	M10	1	1.30
	CBT40-FMC27-60	27	60	70	20	12	6	M12	2	1.50
50	CBT40-FMC32-60	32	60	83	22	14	7	M16	2	2.30
	CBT50-FMC22-60	22	60	45	18	10	5	M10	1	4.20
	CBT50-FMC22-105	22	105	45	18	10	5	M10	1	4.70
	CBT50-FMC22-150	22	150	45	18	10	5	M10	1	5.30
	CBT50-FMC27-45	27	45	70	20	12	6	M12	1	4.10
	CBT50-FMC27-90	27	90	70	20	12	6	M12	1	5.50
	CBT50-FMC27-150	27	150	70	20	12	6	M12	1	7.30
	CBT50-FMC32-60	32	60	85	22	14	7	M16	1	4.20
	CBT50-FMC32-105	32	105	85	22	14	7	M16	1	5.50
	CBT50-FMC32-150	32	150	85	22	14	7	M16	1	7.00

◆ INCH TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	WEIGHT (Kg)
30	CBT30-FMC25.4-45	25.4	45	70	20	9.5	6	M12	2	1.10
40	CBT40-FMC25.4-60	25.4	60	70	20	9.5	6	M12	2	1.50
	CBT40-FMC25.4-90	25.4	90	70	20	9.5	6	M12	2	2.20
50	CBT40-FMC38.1-60	38.1	60	85	22	15.9	7	M16	2	2.30
	CBT40-FMC38.1-75	38.1	75	85	22	15.9	7	M16	2	2.60
	CBT50-FMC25.4-45	25.4	45	70	20	9.5	6	M12	1	4.10
	CBT50-FMC25.4-90	25.4	90	70	20	9.5	6	M12	1	5.50
	CBT50-FMC25.4-150	25.4	150	70	20	9.5	6	M12	1	7.30
	CBT50-FMC38.1-45	38.1	45	85	22	15.9	7	M16	1	4.20
	CBT50-FMC38.1-75	38.1	75	85	22	15.9	7	M16	1	5.50
	CBT50-FMC38.1-105	38.1	105	85	22	15.9	7	M16	1	7.00

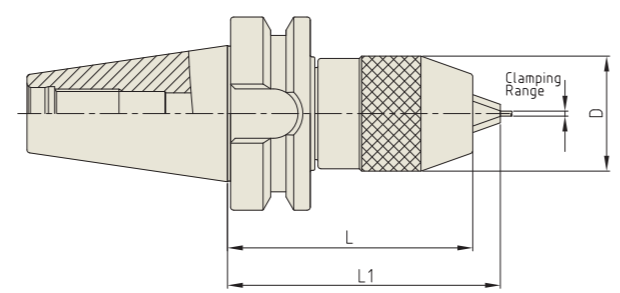
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For parts, please refer to page 331.

CBT (BT DUAL CONTACT)

NC DRILL CHUCK (KEYLESS TYPE)



NC - BOHRFUTTER
 MANDRIN DE PERÇAGE NC
 NC MANDRINI PORTA PUNTE
 PORTABROCAS PARA BROCAS NC



CBT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L (Min.)	L1 (Max.)	WEIGHT (Kg)
30	CBT30-NPU8-75	0.3 - 8.0	36.5	75	80.7	0.80
	CBT30-NPU13-105	1.0 - 13.0	50.4	105	115	1.80
40	CBT40-NPU8-80	0.3 - 8.0	36.5	80	85.7	1.50
	CBT40-NPU8-110	0.3 - 8.0	36.5	110	115.7	1.80
	CBT40-NPU8-150	0.3 - 8.0	36.5	150	155.7	2.60
	CBT40-NPU13-95	1.0 - 13.0	50.4	95	105	2.10
	CBT40-NPU13-130	1.0 - 13.0	50.4	130	140	2.70
	CBT40-NPU13-150	1.0 - 13.0	50.4	150	160	3.40
50	CBT50-NPU8-90	0.3 - 8.0	36.5	90	95.7	4.20
	CBT50-NPU8-110	0.3 - 8.0	36.5	110	115.7	4.50
	CBT50-NPU8-170	0.3 - 8.0	36.5	170	175.7	5.20
	CBT50-NPU13-105	1.0 - 13.0	50.4	105	115	4.80
	CBT50-NPU13-130	1.0 - 13.0	50.4	130	140	5.20
	CBT50-NPU13-150	1.0 - 13.0	50.4	150	160	5.50
	CBT50-NPU13-190	1.0 - 13.0	50.4	190	200	5.90

▶ Supplied with hook wrench. (Size NPU 8 : 8S, NPU 13 : 13S)

SSK TOOLING SYSTEM

BT (JIS B6339/MAS 403)

- HYDRAULIC CHUCK 114-119P
- SHRINK FIT HOLDER 120-129P
- ER COLLET CHUCK 130-136P
- END MILL HOLDER (SIDE LOCK ARBOR) ... 137-144P
- SHELL MILL ARBOR 145-148P
- COMBI-SHELL MILL ARBOR 149P
- POWER MILLING CHUCK 150-151P
- MORSE TAPER ARBOR 152-153P
- SK SLIM CHUCK 154-157P
- SYNCHRO TAPPING CHUCK 158P
- ONE STEP TAPPING CHUCK 159P
- TAPPING ER CHUCK 160P
- TAPPING CHUCK 161P
- FACE MILL ARBOR 162-164P
- COPY MILL ARBOR 165P
- INDEXABLE DRILL HOLDER 166P
- NC DRILL CHUCK 167-168P
- SIDE CUT ARBOR 169P
- JACOBS TAPER ARBOR 170P
- BLANK BAR 171P
- TEST BAR 172P



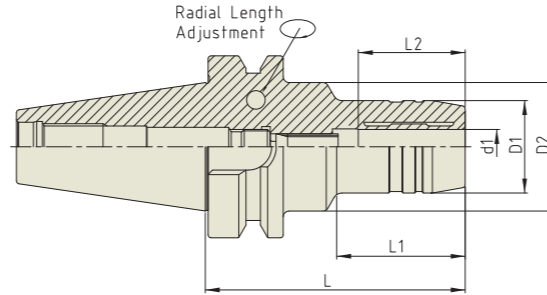
CBT (BT DUAL CONTACT)

BT (JIS B6339/MAS 403)

HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)

HCR

HYDRAULIK SPANNFUTTER (RADIALE WERKZEUGLÄGEN VOREINSTELLUNG)
 MANDRIN HYDRAULIQUE (BANC DE PRÉ-RÉGLAGE RADIAL)
 MANDRINI IDRAULICI (UTENSILI RADIALI PER AZZERAMENTO)
 PORTAHERRAMIENTAS HIDRAULICO (AJUSTE DE LONGITUD TIPO PRE-SETTING)



JIS B6339 -BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
30	BT30-HCR12-85	12	32	44.5	85	40	37	0.90
	BT30-HCR20-85	20	44	44	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	47.5	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

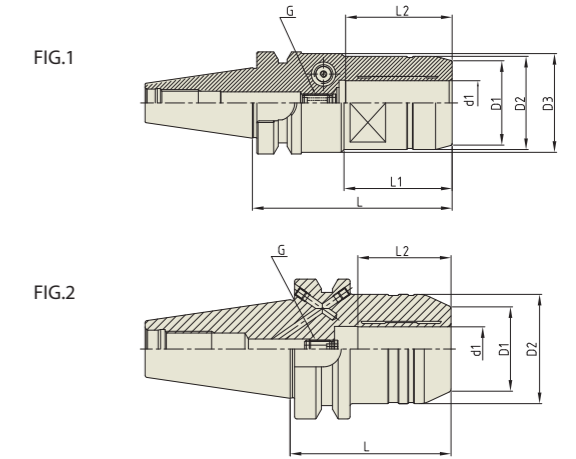
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

BT (JIS B6339/MAS 403)

HYDRAULIC CHUCK (Power E Hydro)

HCP

HYDRAULIK SPANNFUTTER (POWER E HYDRO)
 MANDRIN HYDRAULIQUE (POWER E HYDRO)
 MANDRINI IDRAULICI (POWER E HYDRO)
 PORTAHERRAMIENTAS HIDRAULICO (POWER E HYDRO)



JIS B6339 -BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	D3	L	L1	L2	G	FIG.	WEIGHT (Kg)
30	BT30-HC12P-69	12	32	42	44.5	69	30.75	41	M8x1.0	1	0.80
	BT30-HC20P-90	20	38	42	44.5	90	48.75	48	M8x1.0	1	0.90
40	BT40AD/B-HC12P-58	12	32	42	-	58	-	41	M8x1.0	2	1.10
	BT40AD/B-HC20P-72.5	20	39.25	49.25	-	72.5	-	48	M8x1.0	2	1.40
50	BT50AD/B-HC20P-83.5	20	39.25	49.25	-	83.5	-	48	M8x1.0	2	3.90
	BT50AD/B-HC32P-90	32	58.5	72	-	90	-	57	M8x1.0	2	4.60

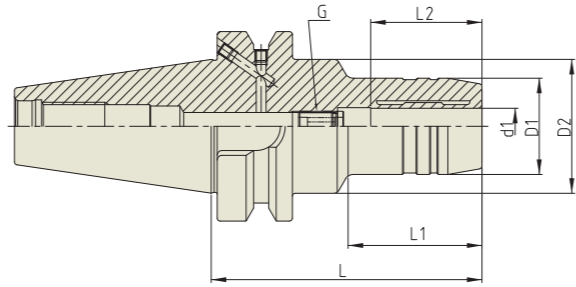
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

BT (JIS B6339/MAS 403)

HYDRAULIC CHUCK (STANDARD)

HC

HYDRAULIK SPANNFUTTER (STANDARD)
 MANDRIN HYDRAULIQUE (STANDARD)
 MANDRINI IDRAULICI (STANDARD)
 PORTAHERRAMIENTAS HIDRAULICO (ESTÁNDAR)



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
30	BT30-HC6-70	6	26	44.5	70	29.5	27	M5x0.8	0.65
	BT30-HC8-70	8	28	44.5	70	30	27	M6x1.0	0.65
	BT30-HC10-75	10	30	44.5	75	31	32	M8x1.0	0.73
	BT30-HC12-85	12	32	45	85	45	37	M10x1.0	0.80
	BT30-HC14-85	14	34	45	85	45	37	M10x1.0	0.80
	BT30-HC16-90	16	38	45	90	50	42	M10x1.0	0.90
	BT30-HC18-90	18	40	45	90	50	42	M10x1.0	0.90
	BT30-HC20-90	20	42	45	90	50	42	M6x1.0	0.90
	BT40AD/B-HC6-90	6	26	44.5	90	43	27	M5x0.8	1.30
BT40AD/B-HC8-90	8	28	44.5	90	44.5	27	M6x1.0	1.30	
BT40AD/B-HC10-90	10	30	44.5	90	44.5	32	M8x1.0	1.35	
BT40AD/B-HC12-90	12	32	44.5	90	44.5	37	M10x1.0	1.35	
BT40AD/B-HC14-90	14	34	44.5	90	44.5	37	M10x1.0	1.35	
BT40AD/B-HC16-90	16	38	44.5	90	47.5	42	M12x1.0	1.40	
BT40AD/B-HC18-90	18	40	44.5	90	47.5	42	M12x1.0	1.45	
BT40AD/B-HC20-90	20	42	44.5	90	47.5	42	M16x1.0	1.50	
BT40AD/B-HC25-100	25	50	60	100	47.5	48	M16x1.0	1.70	
BT40AD/B-HC32-105	32	60	-	105	-	55	M16x1.0	2.10	

- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

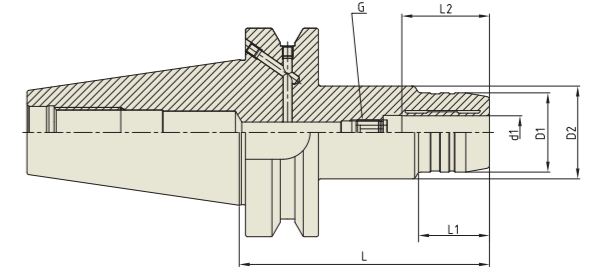
▶ NEXT PAGE

BT (JIS B6339/MAS 403)

HYDRAULIC CHUCK (STANDARD)

HC

HYDRAULIK SPANNFUTTER (STANDARD)
 MANDRIN HYDRAULIQUE (STANDARD)
 MANDRINI IDRAULICI (STANDARD)
 PORTAHERRAMIENTAS HIDRAULICO (ESTÁNDAR)



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
50	BT50AD/B-HC6-90	6	26	44.5	90	34	27	M5x0.8	3.75
	BT50AD/B-HC6-120	6	26	44.5	120	34	27	M5x0.8	4.10
	BT50AD/B-HC6-150	6	26	44.5	150	34	27	M5x0.8	4.70
	BT50AD/B-HC8-90	8	28	44.5	90	34	27	M6x1.0	3.75
	BT50AD/B-HC8-120	8	28	44.5	120	34	27	M6x1.0	4.10
	BT50AD/B-HC8-150	8	28	44.5	150	34	27	M6x1.0	4.10
	BT50AD/B-HC10-90	10	30	44.5	90	34	32	M8x1.0	3.90
	BT50AD/B-HC10-120	10	30	44.5	120	34	32	M8x1.0	4.30
	BT50AD/B-HC10-150	10	30	44.5	150	34	32	M8x1.0	4.90
	BT50AD/B-HC12-90	12	32	44.5	90	34	37	M10x1.0	3.90
	BT50AD/B-HC12-120	12	32	44.5	120	34	37	M10x1.0	4.30
	BT50AD/B-HC12-150	12	32	44.5	150	34	37	M10x1.0	4.90
	BT50AD/B-HC14-90	14	34	44.5	90	34	37	M10x1.0	3.90
	BT50AD/B-HC14-120	14	34	44.5	120	34	37	M10x1.0	4.30
	BT50AD/B-HC14-150	14	34	44.5	150	34	37	M10x1.0	4.90
	BT50AD/B-HC16-90	16	38	44.5	90	34	42	M12x1.0	4.00
	BT50AD/B-HC16-120	16	38	44.5	120	34	42	M12x1.0	4.40
	BT50AD/B-HC16-150	16	38	44.5	150	34	42	M12x1.0	5.00
	BT50AD/B-HC18-90	18	40	44.5	90	34	42	M12x1.0	4.00
	BT50AD/B-HC18-120	18	40	44.5	120	34	42	M12x1.0	4.40
	BT50AD/B-HC18-150	18	40	44.5	150	34	42	M12x1.0	5.00
	BT50AD/B-HC20-90	20	42	44.5	90	34	42	M16x1.0	4.00
	BT50AD/B-HC20-120	20	42	44.5	120	34	42	M16x1.0	4.40
	BT50AD/B-HC20-150	20	42	44.5	150	34	42	M16x1.0	5.00
BT50AD/B-HC25-105	25	57	63	105	52	48	M16x1.0	4.40	
BT50AD/B-HC25-150	25	57	63	150	97	48	M16x1.0	5.60	
BT50AD/B-HC32-115	32	64	75	115	62	55	M16x1.0	4.70	
BT50AD/B-HC32-150	32	64	75	150	97	55	M16x1.0	6.00	

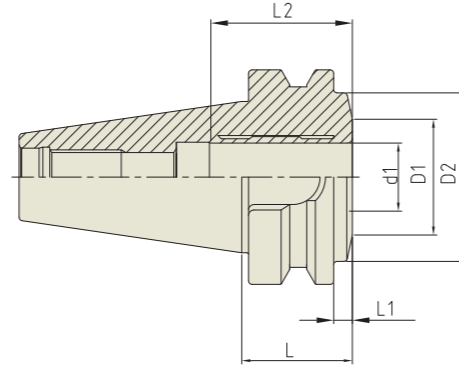
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

BT (JIS B6339/MAS 403)

HYDRAULIC CHUCK (ULTRA SHORT)

HC

HYDRAULIK SPANNFUTTER (KURZ)
 MANDRIN HYDRAULIQUE (COURT)
 MANDRINI IDRAULICI (CORTO)
 PORTAHERRAMIENTAS HIDRAULICO (CORTO)



JIS B6339 -BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
40	BT40-HC20-32.5	20	34	49.5	32.5	5.5	42	0.99
50	BT50-HC32-50	32	49	70.5	50	12	55	3.73

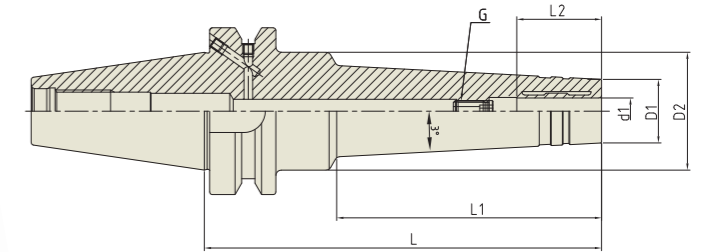
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

BT (JIS B6339/MAS 403)

HYDRAULIC CHUCK (SLIM)

HMC

HYDRAULIK SPANNFUTTER FÜR DEN FORMENBAU
 MANDRIN HYDRAULIQUE POUR MOULISTE
 MANDRINI IDRAULICI PER STAMPAGGIO
 PORTAHERRAMIENTAS HIDRAULICO PARA MOLDES



JIS B6339 -BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3D) ≤3μm	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
40	BT40AD/B-HMC6-120	6	20	44.5	120	70	27	M5×0.8	1.40
	BT40AD/B-HMC6-150	6	20	44.5	150	100	27	M5×0.8	1.65
	BT40AD/B-HMC8-120	8	22	44.5	120	70	27	M6×1.0	1.40
	BT40AD/B-HMC8-150	8	22	44.5	150	100	27	M6×1.0	1.65
	BT40AD/B-HMC10-120	10	24	44.5	120	70	32	M8×1.0	1.40
	BT40AD/B-HMC10-150	10	24	44.5	150	100	32	M8×1.0	1.65
	BT40AD/B-HMC12-120	12	25	44.5	120	70	37	M10×1.0	1.40
	BT40AD/B-HMC12-150	12	25	44.5	150	100	37	M10×1.0	1.65
	BT40AD/B-HMC14-120	14	27	44.5	120	70	37	M10×1.0	1.40
	BT40AD/B-HMC14-150	14	27	44.5	150	100	37	M10×1.0	1.65
	BT40AD/B-HMC16-120	16	32	44.5	120	70	42	M12×1.0	1.45
	BT40AD/B-HMC16-150	16	32	44.5	150	100	42	M12×1.0	1.70
	BT40AD/B-HMC20-120	20	34	43.8	120	93	42	M16×1.0	1.50
	BT40AD/B-HMC20-150	20	34	46.9	150	123	42	M16×1.0	1.80
50	BT50AD/B-HMC6-150	6	20	50	150	90	27	M5×0.8	4.70
	BT50AD/B-HMC8-150	8	22	50	150	90	27	M6×1.0	4.70
	BT50AD/B-HMC10-150	10	24	50	150	90	32	M8×1.0	4.70
	BT50AD/B-HMC12-150	12	25	50	150	90	37	M10×1.0	4.70
	BT50AD/B-HMC14-150	14	27	50	150	90	37	M10×1.0	4.70
	BT50AD/B-HMC16-150	16	32	50	150	90	42	M12×1.0	4.90
	BT50AD/B-HMC20-150	20	34	50	150	90	42	M16×1.0	5.00

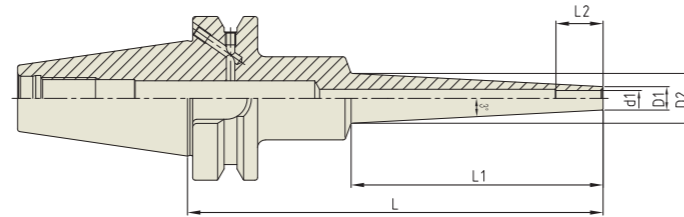
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER (EXTRA SLIM)

SFHS

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3μm	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
30	BT30-SFHS3-60	3	6	20	60	22	9	-
	BT30-SFHS3-80	3	6	25	80	42	9	-
	BT30-SFHS3-120	3	6	25	120	67	9	-
	BT30-SFHS4-60	4	7	20	60	22	12	-
	BT30-SFHS4-80	4	7	25	80	42	12	-
	BT30-SFHS4-120	4	7	25	120	67	12	-
	BT30-SFHS6-60	6	9	20	60	22	18	-
	BT30-SFHS6-80	6	9	25	80	42	18	-
	BT30-SFHS6-120	6	9	25	120	67	18	-
	BT40AD/B-SFHS3-95	3	6	25	95	42	9	-
BT40AD/B-SFHS3-120	3	6	25	120	67	9	-	
BT40AD/B-SFHS3-160	3	6	25	160	97	9	-	
BT40AD/B-SFHS4-95	4	7	25	95	42	12	-	
BT40AD/B-SFHS4-120	4	7	25	120	67	12	-	
BT40AD/B-SFHS4-160	4	7	32	160	97	12	-	
BT40AD/B-SFHS6-95	6	9	25	95	42	18	-	
BT40AD/B-SFHS6-120	6	9	25	120	67	18	-	
BT40AD/B-SFHS6-160	6	9	32	160	97	18	-	
BT40AD/B-SFHS8-95	8	11	25	95	42	24	-	
BT40AD/B-SFHS8-120	8	11	32	120	67	24	-	
BT40AD/B-SFHS8-160	8	11	32	160	97	24	-	
BT40AD/B-SFHS10-95	10	13	25	95	42	30	-	
BT40AD/B-SFHS10-120	10	13	32	120	67	30	-	
BT40AD/B-SFHS10-160	10	13	32	160	97	30	-	
BT40AD/B-SFHS12-95	12	15	32	95	42	30	-	
BT40AD/B-SFHS12-120	12	15	32	120	67	30	-	
BT40AD/B-SFHS12-160	12	15	32	160	97	30	-	

▶ Inch type products are available.
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

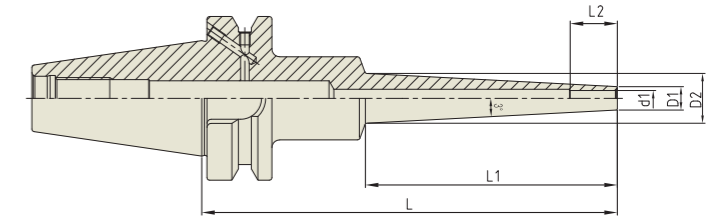
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BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER (EXTRA SLIM)

SFHS

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3μm	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
50	BT50AD/B-SFHS3-110	3	6	26	110	42	9	-
	BT50AD/B-SFHS3-160	3	6	26	160	97	9	-
	BT50AD/B-SFHS4-110	4	7	26	110	42	12	-
	BT50AD/B-SFHS4-160	4	7	26	160	97	12	-
	BT50AD/B-SFHS6-110	6	9	26	110	42	18	-
	BT50AD/B-SFHS6-160	6	9	26	160	97	18	-
	BT50AD/B-SFHS8-110	8	11	36	110	42	24	-
	BT50AD/B-SFHS8-160	8	11	36	160	97	24	-
	BT50AD/B-SFHS10-110	10	13	36	110	42	30	-
	BT50AD/B-SFHS10-160	10	13	36	160	97	30	-
	BT50AD/B-SFHS12-110	12	15	36	110	42	30	-
	BT50AD/B-SFHS12-160	12	15	36	160	97	30	-

▶ Inch type products are available.
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



FIG.1

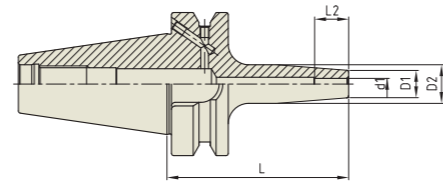
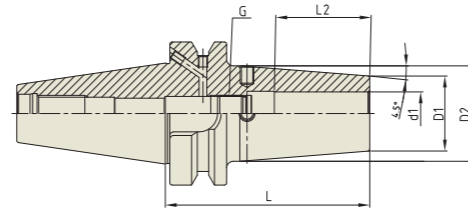


FIG.2



JIS B6339 -BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
30	BT30-SFH3-60	3	11	15	60	10	-	1	0.40
	BT30-SFH4-60	4	11	15	60	12	-	1	0.40
	BT30-SFH5-60	5	11	15	60	15	-	1	0.40
	BT30-SFH6-60	6	21	27	60	36	M5×0.8	2	0.40
	BT30-SFH8-60	8	21	27	60	36	M6×1.0	2	0.40
	BT30-SFH10-80	10	24	32	80	42	M8×1.0	2	0.40
	BT30-SFH12-80	12	24	32	80	47	M10×1.0	2	0.42
	BT30-SFH14-80	14	27	34	80	47	M10×1.0	2	0.42
	BT30-SFH16-80	16	27	34	80	50	M12×1.0	2	0.42
	BT30-SFH18-80	18	33	42	80	50	M12×1.0	2	0.42
BT30-SFH20-90	20	33	42	90	52	M16×1.0	2	0.44	
40	BT40AD/B-SFH3-90	3	11	15	90	10	-	1	1.00
	BT40AD/B-SFH4-90	4	11	15	90	12	-	1	1.00
	BT40AD/B-SFH5-90	5	11	15	90	15	-	1	1.00
	BT40AD/B-SFH6-90	6	21	27	90	36	M5×0.8	2	1.10
	BT40AD/B-SFH6-130	6	21	27	130	36	M5×0.8	2	-
	BT40AD/B-SFH6-160	6	21	27	160	36	M5×0.8	2	1.15
	BT40AD/B-SFH8-90	8	21	27	90	36	M6×1.0	2	1.11
	BT40AD/B-SFH8-130	8	21	27	130	36	M6×1.0	2	-
	BT40AD/B-SFH8-160	8	21	27	160	36	M6×1.0	2	1.15
	BT40AD/B-SFH10-90	10	24	32	90	42	M8×1.0	2	1.10
	BT40AD/B-SFH10-130	10	24	32	130	42	M8×1.0	2	-
	BT40AD/B-SFH10-160	10	24	32	160	42	M8×1.0	2	1.15
	BT40AD/B-SFH12-90	12	24	32	90	47	M10×1.0	2	1.10
	BT40AD/B-SFH12-130	12	24	32	130	47	M10×1.0	2	-
	BT40AD/B-SFH12-160	12	24	32	160	47	M10×1.0	2	1.15
	BT40AD/B-SFH14-90	14	27	34	90	47	M10×1.0	2	1.20
	BT40AD/B-SFH14-130	14	27	34	130	47	M10×1.0	2	-
	BT40AD/B-SFH14-160	14	27	34	160	47	M10×1.0	2	1.50

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

▶ NEXT PAGE

BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



FIG.1

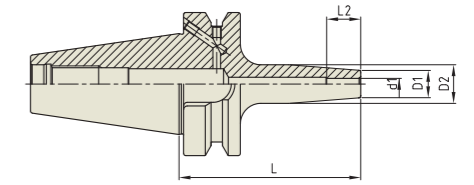
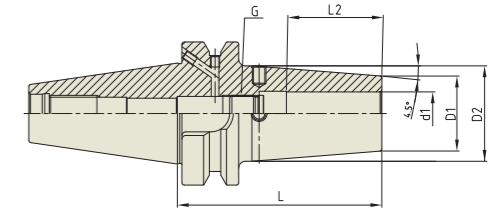


FIG.2



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

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)	
40	BT40AD/B-SFH16-90	16	27	34	90	50	M12×1.0	2	1.20	
	BT40AD/B-SFH16-130	16	27	34	130	50	M12×1.0	2	-	
	BT40AD/B-SFH16-160	16	27	34	160	50	M12×1.0	2	1.50	
	BT40AD/B-SFH18-90	18	33	42	90	50	M12×1.0	2	1.30	
	BT40AD/B-SFH18-130	18	33	42	130	50	M12×1.0	2	-	
	BT40AD/B-SFH18-160	18	33	42	160	50	M12×1.0	2	1.60	
	BT40AD/B-SFH20-90	20	33	42	90	52	M16×1.0	2	1.40	
	BT40AD/B-SFH20-130	20	33	42	130	52	M16×1.0	2	-	
	BT40AD/B-SFH20-160	20	33	42	160	52	M16×1.0	2	1.70	
	BT40AD/B-SFH25-100	25	44	53	100	58	M16×1.0	2	1.70	
	BT40AD/B-SFH25-130	25	44	53	130	58	M16×1.0	2	-	
	BT40AD/B-SFH25-160	25	44	53	160	58	M16×1.0	2	2.00	
	50	BT50AD/B-SFH3-100	3	11	15	100	10	-	1	1.50
		BT50AD/B-SFH4-100	4	11	15	100	12	-	1	1.50
BT50AD/B-SFH5-100		5	11	15	100	15	-	1	1.50	
BT50AD/B-SFH6-100		6	21	27	100	36	M5×0.8	2	1.50	
BT50AD/B-SFH6-130		6	21	27	130	36	M5×0.8	2	-	
BT50AD/B-SFH6-160		6	21	27	160	36	M5×0.8	2	2.00	
BT50AD/B-SFH6-200		6	21	27	200	36	M5×0.8	2	-	
BT50AD/B-SFH8-100		8	21	27	100	36	M6×1.0	2	1.50	
BT50AD/B-SFH8-130		8	21	27	130	36	M6×1.0	2	-	
BT50AD/B-SFH8-160		8	21	27	160	36	M6×1.0	2	2.00	
BT50AD/B-SFH8-200		8	21	27	200	36	M6×1.0	2	-	
BT50AD/B-SFH10-100		10	24	32	100	42	M8×1.0	2	1.50	
BT50AD/B-SFH10-130		10	24	32	130	42	M8×1.0	2	-	
BT50AD/B-SFH10-160		10	24	32	160	42	M8×1.0	2	2.00	
BT50AD/B-SFH10-200		10	24	32	200	42	M8×1.0	2	-	
BT50AD/B-SFH12-100		12	24	32	100	47	M10×1.0	2	1.50	
BT50AD/B-SFH12-130	12	24	32	130	47	M10×1.0	2	-		
BT50AD/B-SFH12-160	12	24	32	160	47	M10×1.0	2	2.00		
BT50AD/B-SFH12-200	12	24	32	200	47	M10×1.0	2	-		

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

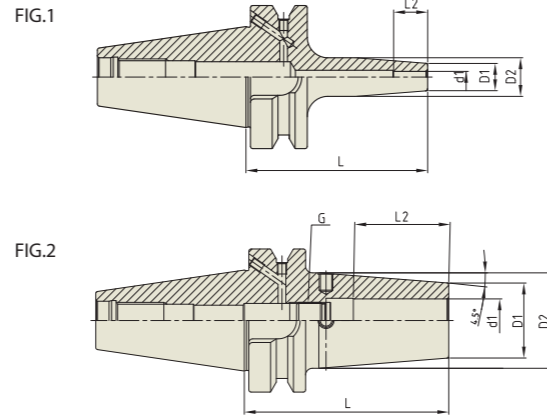
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BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



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

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
50	BT50AD/B-SFH14-100	14	27	34	100	47	M10×1.0	2	1.60
	BT50AD/B-SFH14-130	14	27	34	130	47	M10×1.0	2	-
	BT50AD/B-SFH14-160	14	27	34	160	47	M10×1.0	2	2.10
	BT50AD/B-SFH14-200	14	27	34	200	47	M10×1.0	2	-
	BT50AD/B-SFH16-100	16	27	34	100	50	M12×1.0	2	1.60
	BT50AD/B-SFH16-130	16	27	34	130	50	M12×1.0	2	-
	BT50AD/B-SFH16-160	16	27	34	160	50	M12×1.0	2	2.10
	BT50AD/B-SFH16-200	16	27	34	200	50	M12×1.0	2	-
	BT50AD/B-SFH18-100	18	33	42	100	50	M12×1.0	2	1.60
	BT50AD/B-SFH18-130	18	33	42	130	50	M12×1.0	2	-
	BT50AD/B-SFH18-160	18	33	42	160	50	M12×1.0	2	2.00
	BT50AD/B-SFH18-200	18	33	42	200	50	M12×1.0	2	-
	BT50AD/B-SFH20-100	20	33	42	100	52	M16×1.0	2	1.80
	BT50AD/B-SFH20-130	20	33	42	130	52	M16×1.0	2	-
	BT50AD/B-SFH20-160	20	33	42	160	52	M16×1.0	2	2.20
	BT50AD/B-SFH20-200	20	33	42	200	52	M16×1.0	2	-
	BT50AD/B-SFH25-100	25	44	53	100	58	M16×1.0	2	2.00
	BT50AD/B-SFH25-130	25	44	53	130	58	M16×1.0	2	-
	BT50AD/B-SFH25-160	25	44	53	160	58	M16×1.0	2	2.40
	BT50AD/B-SFH25-200	25	44	53	200	58	M16×1.0	2	-

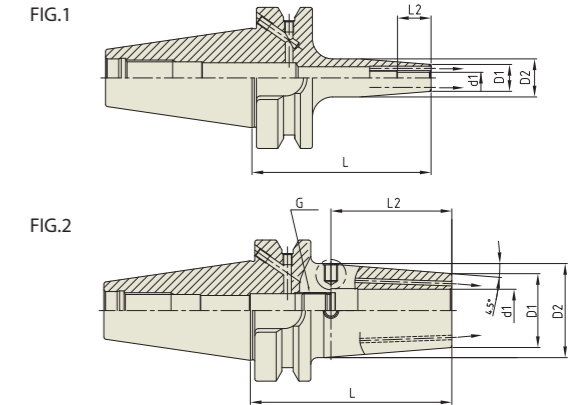
- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR

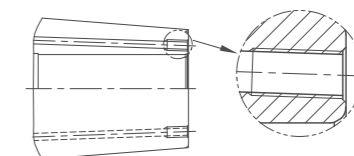


JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3μm	Coolant System AD/B+C
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
40	BT40AD/B-SFH3C-90*1	3	12	17	90	10	-	1	-
	BT40AD/B-SFH4C-90*1	4	12	17	90	12	-	1	-
	BT40AD/B-SFH5C-90*1	5	12	17	90	15	-	1	-
	BT40AD/B-SFH6C-90	6	21	27	90	36	M5x0.8	2	1.10
	BT40AD/B-SFH6C-130	6	21	27	130	36	M5x0.8	2	-
	BT40AD/B-SFH6C-160	6	21	27	160	36	M5x0.8	2	1.15
	BT40AD/B-SFH8C-90	8	21	27	90	36	M6x1.0	2	1.11
	BT40AD/B-SFH8C-130	8	21	27	130	36	M6x1.0	2	-
	BT40AD/B-SFH8C-160	8	21	27	160	36	M6x1.0	2	1.15
	BT40AD/B-SFH10C-90	10	24	32	90	41	M8x1.0	2	1.10
	BT40AD/B-SFH10C-130	10	24	32	130	41	M8x1.0	2	-
	BT40AD/B-SFH10C-160	10	24	32	160	41	M8x1.0	2	1.15
	BT40AD/B-SFH12C-90	12	24	32	90	47	M10x1.0	2	1.10
	BT40AD/B-SFH12C-130	12	24	32	130	47	M10x1.0	2	-
	BT40AD/B-SFH12C-160	12	24	32	160	47	M10x1.0	2	1.15
	BT40AD/B-SFH14C-90	14	27	34	90	47	M10x1.0	2	1.20
	BT40AD/B-SFH14C-130	14	27	34	130	47	M10x1.0	2	-
	BT40AD/B-SFH14C-160	14	27	34	160	47	M10x1.0	2	1.50
	BT40AD/B-SFH16C-90	16	27	34	90	50	M12x1.0	2	1.20
	BT40AD/B-SFH16C-130	16	27	34	130	50	M12x1.0	2	-
BT40AD/B-SFH16C-160	16	27	34	160	50	M12x1.0	2	1.50	
BT40AD/B-SFH18C-90	18	33	42	90	50	M12x1.0	2	1.30	
BT40AD/B-SFH18C-130	18	33	42	130	50	M12x1.0	2	-	
BT40AD/B-SFH18C-160	18	33	42	160	50	M12x1.0	2	1.60	
BT40AD/B-SFH20C-90	20	33	42	90	52	M16x1.0	2	1.40	
BT40AD/B-SFH20C-130	20	33	42	130	52	M16x1.0	2	-	
BT40AD/B-SFH20C-160	20	33	42	160	52	M16x1.0	2	1.70	
BT40AD/B-SFH25C-100	25	44	53	100	58	M16x1.0	2	1.70	
BT40AD/B-SFH25C-130	25	44	53	130	58	M16x1.0	2	-	
BT40AD/B-SFH25C-160	25	44	53	160	58	M16x1.0	2	2.00	

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)
- ▶ *1 Resealable type is not available.



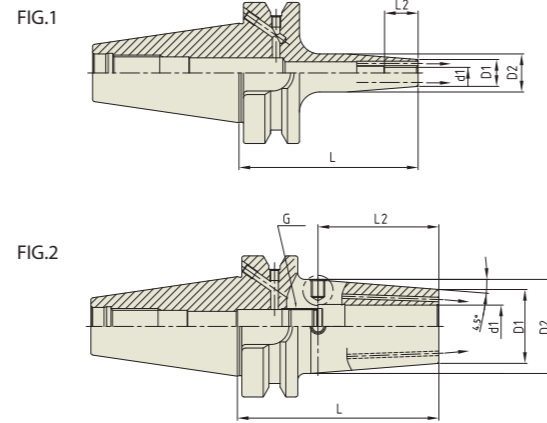
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BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR

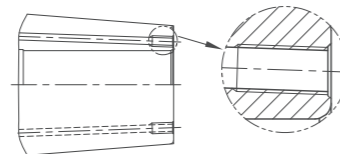


JIS B6339 -BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD/B+C
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
50	BT50AD/B-SFH3C-100*1	3	12	17	100	10	-	1	-
	BT50AD/B-SFH4C-100*1	4	12	17	100	12	-	1	-
	BT50AD/B-SFH5C-100*1	5	12	17	100	15	-	1	-
	BT50AD/B-SFH6C-100	6	21	27	100	36	M5x0.8	2	1.50
	BT50AD/B-SFH6C-130	6	21	27	130	36	M5x0.8	2	-
	BT50AD/B-SFH6C-160	6	21	27	160	36	M5x0.8	2	2.00
	BT50AD/B-SFH6C-200	6	21	27	200	36	M5x0.8	2	-
	BT50AD/B-SFH8C-100	8	21	27	100	36	M6x1.0	2	1.50
	BT50AD/B-SFH8C-130	8	21	27	130	36	M6x1.0	2	-
	BT50AD/B-SFH8C-160	8	21	27	160	36	M6x1.0	2	2.00
	BT50AD/B-SFH8C-200	8	21	27	200	36	M6x1.0	2	-
	BT50AD/B-SFH10C-100	10	24	32	100	42	M8x1.0	2	1.10
	BT50AD/B-SFH10C-130	10	24	32	130	42	M8x1.0	2	-
	BT50AD/B-SFH10C-160	10	24	32	160	42	M8x1.0	2	1.15
	BT50AD/B-SFH10C-200	10	24	32	200	42	M8x1.0	2	-
	BT50AD/B-SFH12C-100	12	24	32	100	47	M10x1.0	2	1.60
	BT50AD/B-SFH12C-130	12	24	32	130	47	M10x1.0	2	-
	BT50AD/B-SFH12C-160	12	24	32	160	47	M10x1.0	2	2.10
	BT50AD/B-SFH12C-200	12	24	32	200	47	M10x1.0	2	-
	BT50AD/B-SFH14C-100	14	27	34	100	47	M10x1.0	2	1.60
	BT50AD/B-SFH14C-130	14	27	34	130	47	M10x1.0	2	-
	BT50AD/B-SFH14C-160	14	27	34	160	47	M10x1.0	2	2.10
	BT50AD/B-SFH14C-200	14	27	34	200	47	M10x1.0	2	-
	BT50AD/B-SFH16C-100	16	27	34	100	50	M12x1.0	2	1.60
BT50AD/B-SFH16C-130	16	27	34	130	50	M12x1.0	2	-	
BT50AD/B-SFH16C-160	16	27	34	160	50	M12x1.0	2	2.10	
BT50AD/B-SFH16C-200	16	27	34	200	50	M12x1.0	2	-	

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)
- ▶ *1 Resealable type is not available.



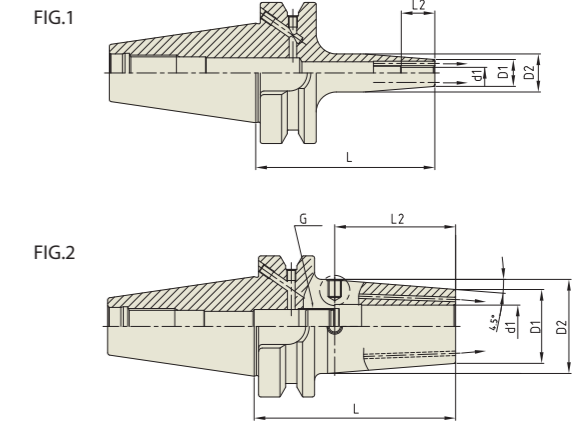
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BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR

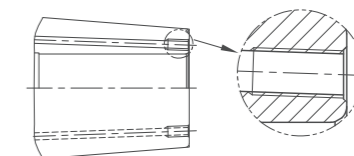


JIS B6339 -BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD/B+C
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
50	BT50AD/B-SFH18C-100	18	33	42	100	50	M12x1.0	2	1.60
	BT50AD/B-SFH18C-130	18	33	42	130	50	M12x1.0	2	-
	BT50AD/B-SFH18C-160	18	33	42	160	50	M12x1.0	2	2.00
	BT50AD/B-SFH18C-200	18	33	42	200	50	M12x1.0	2	-
	BT50AD/B-SFH20C-100	20	33	42	100	52	M16x1.0	2	1.80
	BT50AD/B-SFH20C-130	20	33	42	130	52	M16x1.0	2	-
	BT50AD/B-SFH20C-160	20	33	42	160	52	M16x1.0	2	2.20
	BT50AD/B-SFH20C-200	20	33	42	200	52	M16x1.0	2	-
	BT50AD/B-SFH25C-100	25	44	53	100	58	M16x1.0	2	2.00
	BT50AD/B-SFH25C-130	25	44	53	130	58	M16x1.0	2	-
	BT50AD/B-SFH25C-160	25	44	53	160	58	M16x1.0	2	2.40
	BT50AD/B-SFH25C-200	25	44	53	200	58	M16x1.0	2	-

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)

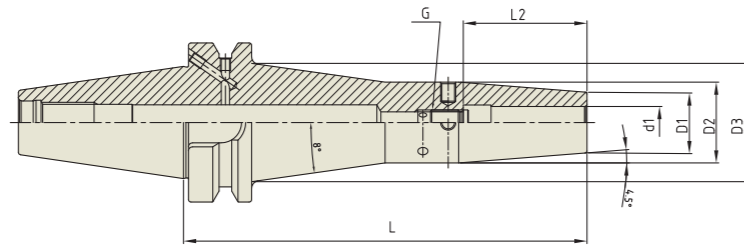


BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER (REINFORCED)

SFH

SCHRUMPFUTTER (VERSTÄRKT)
 MANDRIN DE FRETTAGE (RENFORCÉ)
 MADRINI PER CALLETAMENTO A CALDO (RINFORZATO)
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR (REFORZADO)



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

TAPER No.	MODEL No.	d1	D1	D2	D3	L	L2	G	WEIGHT (Kg)
40	BT40AD/B-SFH6 TW-160	6	21	27	41.9	160	36	M5x0.8	1.64
	BT40AD/B-SFH8 TW-160	8	21	27	41.9	160	36	M6x1.0	1.63
	BT40AD/B-SFH10 TW-160	10	24	32	46.9	160	42	M8x1.0	1.84
	BT40AD/B-SFH12 TW-160	12	24	32	46.9	160	47	M10x1.0	1.83
	BT40AD/B-SFH14 TW-160	14	27	34	48.9	160	47	M10x1.0	1.80
	BT40AD/B-SFH16 TW-160	16	27	34	48.9	160	50	M12x1.0	1.92
50	BT50AD/B-SFH6 TW-160	6	21	27	38.8	160	36	M5x0.8	4.12
	BT50AD/B-SFH8 TW-160	8	21	27	38.8	160	36	M6x1.0	4.57
	BT50AD/B-SFH10 TW-160	10	24	32	43.8	160	42	M8x1.0	4.76
	BT50AD/B-SFH12 TW-160	12	24	32	43.8	160	47	M10x1.0	4.74
	BT50AD/B-SFH14 TW-160	14	27	34	45.8	160	47	M10x1.0	4.70
	BT50AD/B-SFH16 TW-160	16	27	34	45.8	160	50	M12x1.0	4.69
	BT50AD/B-SFH20 TW-160	20	33	42	53.8	160	52	M16x1.0	5.17

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

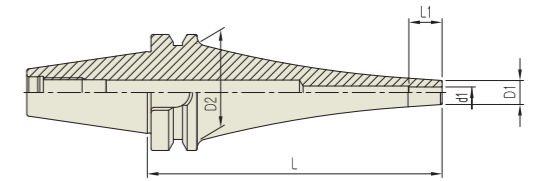
BT (JIS B6339/MAS 403)

SHRINK FIT HOLDER (CURVED)

NEW

SFH

SCHRUMPFUTTER (GEBOGEN)
 MANDRIN DE FRETTAGE (INCURVÉ)
 MADRINI PER CALLETAMENTO A CALDO (CURVO)
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR (CURVADO)



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3μm	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	WEIGHT (Kg)
30	BT30-SFH4CV-90	4	10	34	90	12	-
	BT30-SFH4CV-120	4	10	34	120	12	-
	BT30-SFH6CV-90	6	13	34	90	18	-
	BT30-SFH6CV-120	6	13	34	120	18	-
	BT30-SFH8CV-90	8	16	34	90	18	-
	BT30-SFH10CV-90	10	19	34	90	18	-
40	BT40AD/B-SFH4CV-120	4	10	53	120	12	-
	BT40AD/B-SFH4CV-150	4	10	53	150	12	-
	BT40AD/B-SFH6CV-90	6	13	53	90	18	-
	BT40AD/B-SFH6CV-120	6	13	53	120	18	-
	BT40AD/B-SFH6CV-150	6	13	53	150	18	-
	BT40AD/B-SFH8CV-90	8	16	53	90	24	-
	BT40AD/B-SFH8CV-120	8	16	53	120	24	-
	BT40AD/B-SFH8CV-150	8	16	53	150	24	-
	BT40AD/B-SFH10CV-90	10	19	53	90	30	-
	BT40AD/B-SFH10CV-120	10	19	53	120	30	-
	BT40AD/B-SFH10CV-150	10	19	53	150	30	-
	BT40AD/B-SFH12CV-90	12	22	53	90	30	-
50	BT40AD/B-SFH12CV-120	12	22	53	120	30	-
	BT40AD/B-SFH12CV-150	12	22	53	150	30	-
	BT50AD/B-SFH8CV-195	8	16	85	195	24	-
	BT50AD/B-SFH8CV-225	8	16	85	225	24	-
	BT50AD/B-SFH10CV-165	10	19	85	165	30	-
	BT50AD/B-SFH10CV-195	10	19	85	195	30	-
	BT50AD/B-SFH10CV-225	10	19	85	225	30	-
	BT50AD/B-SFH12CV-165	12	22	85	165	30	-
BT50AD/B-SFH12CV-195	12	22	85	195	30	-	
BT50AD/B-SFH12CV-225	12	22	85	225	30	-	

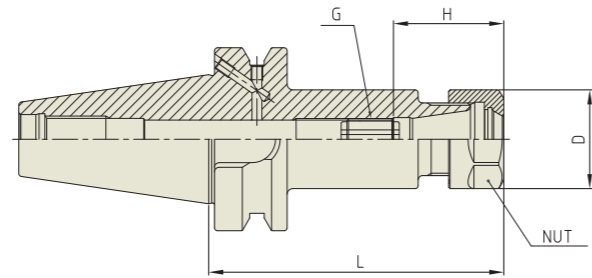
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

BT (JIS B6339/MAS 403)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



JIS B6339 -BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
30	BT30-ER11-70	0.5 - 7.0	70	19	M6	45	ER11	0.50
	BT30-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	0.50
	BT30-ER16-70	0.5 - 10.0	70	28	M10	45	ER16	1.00
	BT30-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	1.10
	BT30-ER20-80	0.5 - 13.0	80	34	M12	50	ER20	1.20
	BT30-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	1.30
	BT30-ER25-70	1.0 - 16.0	70	42	M12	65	ER25	1.20
	BT30-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	1.30
	BT30-ER32-60	1.0 - 20.0	60	50	M12	65	ER32	1.40
	BT30-ER32-90	1.0 - 20.0	90	50	M12	65	ER32	1.90
40	BT40AD/B-ER11-75	0.5 - 7.0	75	19	M6	45	ER11	1.00
	BT40AD/B-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	1.10
	BT40AD/B-ER16-75	0.5 - 10.0	75	28	M10	45	ER16	1.10
	BT40AD/B-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	1.20
	BT40AD/B-ER16-120	0.5 - 10.0	120	28	M10	45	ER16	1.40
	BT40AD/B-ER20-75	0.5 - 13.0	75	34	M12	50	ER20	1.40
	BT40AD/B-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	1.80
	BT40AD/B-ER20-135	0.5 - 13.0	135	34	M12	50	ER20	2.20
	BT40AD/B-ER25-75	1.0 - 16.0	75	42	M12	65	ER25	1.40
	BT40AD/B-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	1.80
	BT40AD/B-ER25-135	1.0 - 16.0	135	42	M12	65	ER25	2.20
	BT40AD/B-ER25-150	1.0 - 16.0	150	42	M12	65	ER25	2.40
	BT40AD/B-ER32-60	1.0 - 20.0	60	50	M12	65	ER32	1.80
	BT40AD/B-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	2.20

- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

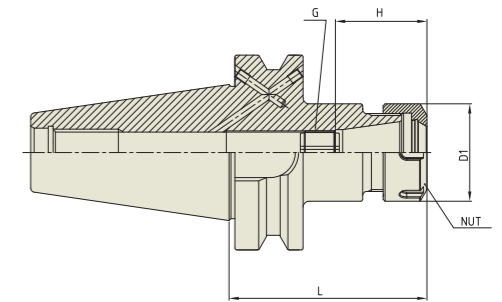
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BT (JIS B6339/MAS 403)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



JIS B6339 -BT	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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
50	BT50AD/B-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	4.20
	BT50AD/B-ER16-120	0.5 - 10.0	120	28	M10	45	ER16	4.40
	BT50AD/B-ER16-165	0.5 - 10.0	165	28	M10	45	ER16	4.60
	BT50AD/B-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	4.60
	BT50AD/B-ER20-135	0.5 - 13.0	135	34	M12	50	ER20	4.80
	BT50AD/B-ER20-165	0.5 - 13.0	165	34	M12	50	ER20	5.00
	BT50AD/B-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	4.70
	BT50AD/B-ER25-135	1.0 - 16.0	135	42	M12	65	ER25	4.80
	BT50AD/B-ER25-165	1.0 - 16.0	150	42	M12	65	ER25	5.00
	BT50AD/B-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	5.20
	BT50AD/B-ER32-135	1.0 - 20.0	135	50	M12	65	ER32	5.70
	BT50AD/B-ER32-165	1.0 - 20.0	165	50	M12	65	ER32	5.80
	BT50AD/B-ER40-100	2.0 - 30.0	100	63	M12	75	ER40	5.60
	BT50AD/B-ER40-150	2.0 - 30.0	150	63	M12	75	ER40	6.10
	BT50AD/B-ER50-100	4.0 - 34.0	100	78	M16	85	ER50	5.80
	BT50AD/B-ER50-150	4.0 - 34.0	150	78	M16	85	ER50	6.30

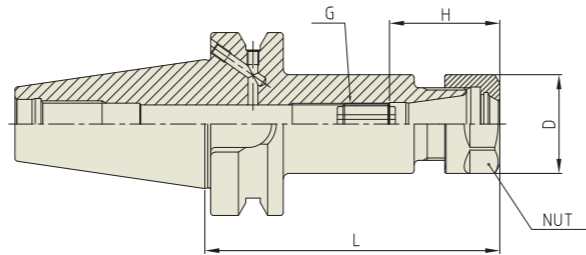
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

BT (JIS B6339/MAS 403)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



JIS B6339 -BT	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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
40	BT40AD/B-ER11-75	0.5 - 7.0	75	19	M6	45	ER11	1.00
	BT40AD/B-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	1.10
	BT40AD/B-ER16-75	0.5 - 10.0	75	28	M10	45	ER16	1.10
	BT40AD/B-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	1.20
	BT40AD/B-ER16-120	0.5 - 10.0	120	28	M10	45	ER16	1.40
	BT40AD/B-ER20-75	0.5 - 13.0	75	34	M12	50	ER20	1.40
	BT40AD/B-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	1.80
	BT40AD/B-ER20-135	0.5 - 13.0	135	34	M12	50	ER20	2.20
	BT40AD/B-ER25-75	1.0 - 16.0	75	42	M12	65	ER25	1.40
	BT40AD/B-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	1.80
	BT40AD/B-ER25-135	1.0 - 16.0	135	42	M12	65	ER25	2.20
	BT40AD/B-ER25-150	1.0 - 16.0	150	42	M12	65	ER25	2.40
	BT40AD/B-ER32-60	1.0 - 20.0	60	50	M12	65	ER32	1.80
	BT40AD/B-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	2.20
50	BT50AD/B-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	4.20
	BT50AD/B-ER16-120	0.5 - 10.0	120	28	M10	45	ER16	4.40
	BT50AD/B-ER16-165	0.5 - 10.0	165	28	M10	45	ER16	4.60
	BT50AD/B-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	4.60
	BT50AD/B-ER20-135	0.5 - 13.0	135	34	M12	50	ER20	4.80
	BT50AD/B-ER20-165	0.5 - 13.0	165	34	M12	50	ER20	5.00
	BT50AD/B-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	4.70
	BT50AD/B-ER25-135	1.0 - 16.0	135	42	M12	65	ER25	4.80
	BT50AD/B-ER25-165	1.0 - 16.0	165	42	M12	65	ER25	5.00
	BT50AD/B-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	5.20
	BT50AD/B-ER32-135	1.0 - 20.0	135	50	M12	65	ER32	5.70
	BT50AD/B-ER32-165	1.0 - 20.0	165	50	M12	65	ER32	5.80
	BT50AD/B-ER40-100	2.0 - 30.0	100	63	M12	75	ER40	5.60
	BT50AD/B-ER40-150	2.0 - 30.0	150	63	M12	75	ER40	6.10
	BT50AD/B-ER50-100	4.0 - 34.0	100	78	M16	85	ER50	5.80
	BT50AD/B-ER50-150	4.0 - 34.0	150	78	M16	85	ER50	6.30

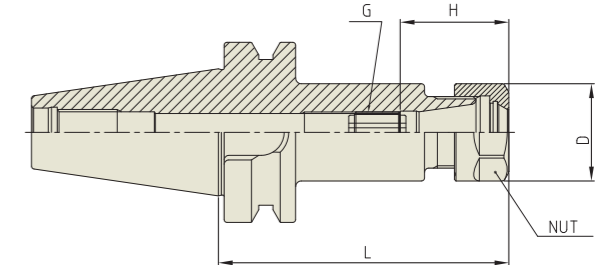
- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

BT (JIS B6339/MAS 403)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



JIS B6339 -BT	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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)	
30	BT30-ER11-70	0.5 - 7.0	70	19	M6	45	ER11	0.50	
	BT30-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	0.50	
	BT30-ER16-70	0.5 - 10.0	70	28	M10	45	ER16	1.00	
	BT30-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	1.10	
	BT30-ER20-80	0.5 - 13.0	80	34	M12	50	ER20	1.20	
	BT30-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	1.30	
	BT30-ER25-70	1.0 - 16.0	70	42	M12	65	ER25	1.20	
	BT30-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	1.30	
	BT30-ER32-60	1.0 - 20.0	60	50	M12	65	ER32	1.40	
	BT30-ER32-90	1.0 - 20.0	90	50	M12	65	ER32	1.90	
	40	BT40-ER11-75	0.5 - 7.0	75	19	M6	45	ER11	1.00
		BT40-ER11-100	0.5 - 7.0	100	19	M6	45	ER11	1.10
BT40-ER16-75		0.5 - 10.0	75	28	M10	45	ER16	1.10	
BT40-ER16-100		0.5 - 10.0	100	28	M10	45	ER16	1.20	
BT40-ER16-120		0.5 - 10.0	120	28	M10	45	ER16	1.40	
BT40-ER20-75		0.5 - 13.0	75	34	M12	50	ER20	1.40	
BT40-ER20-100		0.5 - 13.0	100	34	M12	50	ER20	1.80	
BT40-ER20-135		0.5 - 13.0	135	34	M12	50	ER20	2.20	
BT40-ER25-75		1.0 - 16.0	75	42	M12	65	ER25	1.40	
BT40-ER25-100		1.0 - 16.0	100	42	M12	65	ER25	1.80	
BT40-ER25-135		1.0 - 16.0	135	42	M12	65	ER25	2.20	
BT40-ER25-150		1.0 - 16.0	150	42	M12	65	ER25	2.40	
BT40-ER32-60		1.0 - 20.0	60	50	M12	65	ER32	1.80	
BT40-ER32-100		1.0 - 20.0	100	50	M12	65	ER32	2.20	
BT40-ER32-120		1.0 - 20.0	120	50	M12	65	ER32	2.40	
BT40-ER32-150		1.0 - 20.0	150	50	M12	65	ER32	2.60	
BT40-ER40-80	2.0 - 30.0	80	63	M12	75	ER40	1.50		

- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

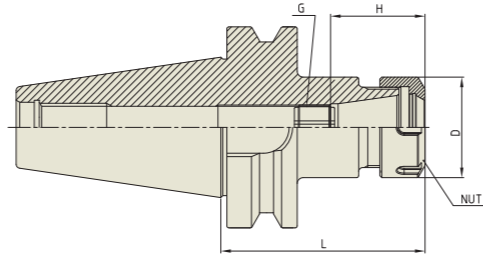
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BT (JIS B6339/MAS 403)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



JIS B6339 -BT	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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
50	BT50-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	4.20
	BT50-ER16-120	0.5 - 10.0	120	28	M10	45	ER16	4.40
	BT50-ER16-165	0.5 - 10.0	165	28	M10	45	ER16	4.60
	BT50-ER20-100	0.5 - 13.0	100	34	M12	50	ER20	4.60
	BT50-ER20-135	0.5 - 13.0	135	34	M12	50	ER20	4.80
	BT50-ER20-165	0.5 - 13.0	165	34	M12	50	ER20	5.00
	BT50-ER25-100	1.0 - 16.0	100	42	M12	65	ER25	4.70
	BT50-ER25-135	1.0 - 16.0	135	42	M12	65	ER25	4.80
	BT50-ER25-165	1.0 - 16.0	165	42	M12	65	ER25	5.00
	BT50-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	5.20
	BT50-ER32-135	1.0 - 20.0	135	50	M12	65	ER32	5.70
	BT50-ER32-165	1.0 - 20.0	165	50	M12	65	ER32	5.80
	BT50-ER40-100	2.0 - 30.0	100	63	M12	75	ER40	5.60
	BT50-ER40-150	2.0 - 30.0	150	63	M12	75	ER40	6.10
	BT50-ER50-100	4.0 - 34.0	100	78	M16	85	ER50	5.80
	BT50-ER50-150	4.0 - 34.0	150	78	M16	85	ER50	6.30

- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

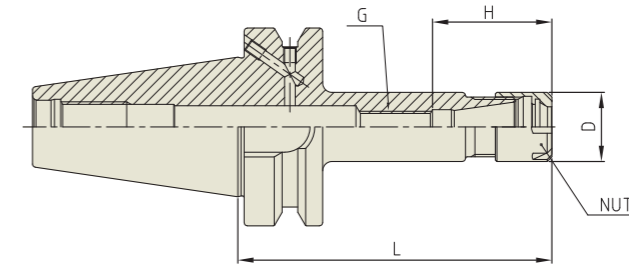
BT (JIS B6339/MAS 403)

ER COLLET CHUCK (SLIM)

NEW

ERM

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



JIS B6339 -BT	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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
40	BT40AD/B-ER11M-60	0.5 - 7.0	60	16	M6	29.5	ER11M / ER11	1.00
	BT40AD/B-ER11M-90	0.5 - 7.0	90	16	M6	29.5	ER11M / ER11	1.10
	BT40AD/B-ER11M-135	0.5 - 7.0	135	16	M6	29.5	ER11M / ER11	1.20
	BT40AD/B-ER16M-60	0.5 - 10.0	60	22	M10	38	ER16M / ER16	1.10
	BT40AD/B-ER16M-90	0.5 - 10.0	90	22	M10	38	ER16M / ER16	1.20
	BT40AD/B-ER16M-135	0.5 - 10.0	135	22	M10	38	ER16M / ER16	1.40
	BT40AD/B-ER20M-60	0.5 - 13.0	60	28	M12	44.5	ER20M / ER20	1.10
	BT40AD/B-ER20M-90	0.5 - 13.0	90	28	M12	44.5	ER20M / ER20	1.50
	BT40AD/B-ER20M-150	0.5 - 13.0	150	28	M12	44.5	ER20M / ER20	1.80
	BT40AD/B-ER25M-60	1.0 - 16.0	60	35	M12	52	ER25M / ER25	1.20
	BT40AD/B-ER25M-90	1.0 - 16.0	90	35	M12	52	ER25M / ER25	1.40
	BT40AD/B-ER25M-150	1.0 - 16.0	150	35	M12	52	ER25M / ER25	1.80
	BT50AD/B-ER11M-90	0.5 - 7.0	90	16	M6	29.5	ER11M / ER11	3.80
	BT50AD/B-ER11M-120	0.5 - 7.0	120	16	M6	29.5	ER11M / ER11	3.90
	BT50AD/B-ER11M-165	0.5 - 7.0	165	16	M6	29.5	ER11M / ER11	4.00
	BT50AD/B-ER16M-90	0.5 - 10.0	90	22	M10	38	ER16M / ER16	3.80
BT50AD/B-ER16M-120	0.5 - 10.0	120	22	M10	38	ER16M / ER16	4.00	
BT50AD/B-ER16M-165	0.5 - 10.0	165	22	M10	38	ER16M / ER16	4.20	
BT50AD/B-ER20M-75	0.5 - 13.0	75	28	M12	44.5	ER20M / ER20	3.80	
BT50AD/B-ER20M-105	0.5 - 13.0	105	28	M12	44.5	ER20M / ER20	3.90	
BT50AD/B-ER20M-165	0.5 - 13.0	165	28	M12	44.5	ER20M / ER20	4.50	
BT50AD/B-ER25M-75	1.0 - 16.0	75	35	M12	52	ER25M / ER25	3.90	
BT50AD/B-ER25M-105	1.0 - 16.0	105	35	M12	52	ER25M / ER25	4.10	

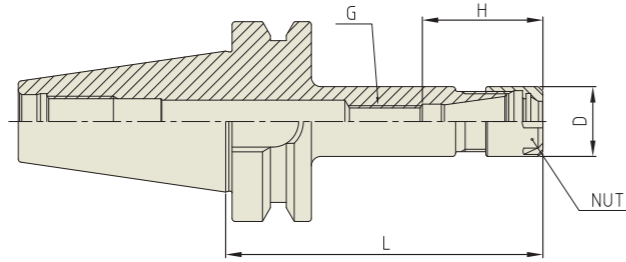
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable ER collet please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk, please refer to page 325 & 327.

BT (JIS B6339/MAS 403)

ER COLLET CHUCK (SLIM)

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



JIS B6339 -BT	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	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
30	BT30-ER11M-50	0.5 - 7.0	50	16	M6	29.5	ER11M / ER11	0.50
	BT30-ER11M-75	0.5 - 7.0	75	16	M6	29.5	ER11M / ER11	0.50
	BT30-ER11M-100	0.5 - 7.0	100	16	M6	29.5	ER11M / ER11	0.60
	BT30-ER16M-50	0.5 - 10.0	50	22	M10	38	ER16M / ER16	0.50
	BT30-ER16M-75	0.5 - 10.0	75	22	M10	38	ER16M / ER16	0.50
	BT30-ER16M-100	0.5 - 10.0	100	22	M10	38	ER16M / ER16	0.60
	BT30-ER20M-50	0.5 - 13.0	50	28	M12	44.5	ER20M / ER20	0.50
	BT30-ER20M-75	0.5 - 13.0	75	28	M12	44.5	ER20M / ER20	0.60
	BT30-ER20M-100	0.5 - 13.0	100	28	M12	44.5	ER20M / ER20	0.70
	BT30-ER25M-50	1.0 - 16.0	50	35	M12	52	ER25M / ER25	0.60
	BT30-ER25M-75	1.0 - 16.0	75	35	M12	52	ER25M / ER25	0.70
	BT30-ER25M-100	1.0 - 16.0	100	35	M12	52	ER25M / ER25	0.80
40	BT40-ER11M-60	0.5 - 7.0	60	16	M6	29.5	ER11M / ER11	1.00
	BT40-ER11M-90	0.5 - 7.0	90	16	M6	29.5	ER11M / ER11	1.10
	BT40-ER11M-135	0.5 - 7.0	135	16	M6	29.5	ER11M / ER11	1.20
	BT40-ER16M-60	0.5 - 10.0	60	22	M10	38	ER16M / ER16	1.10
	BT40-ER16M-90	0.5 - 10.0	90	22	M10	38	ER16M / ER16	1.20
	BT40-ER16M-135	0.5 - 10.0	135	22	M10	38	ER16M / ER16	1.40
	BT40-ER20M-60	0.5 - 13.0	60	28	M12	44.5	ER20M / ER20	1.10
	BT40-ER20M-90	0.5 - 13.0	90	28	M12	44.5	ER20M / ER20	1.50
	BT40-ER20M-150	0.5 - 13.0	150	28	M12	44.5	ER20M / ER20	1.80
	BT40-ER25M-60	1.0 - 16.0	60	35	M12	52	ER25M / ER25	1.20
	BT40-ER25M-90	1.0 - 16.0	90	35	M12	52	ER25M / ER25	1.40
	BT40-ER25M-150	1.0 - 16.0	150	35	M12	52	ER25M / ER25	1.80
50	BT50-ER11M-90	0.5 - 7.0	90	16	M6	29.5	ER11M / ER11	3.80
	BT50-ER11M-120	0.5 - 7.0	120	16	M6	29.5	ER11M / ER11	3.90
	BT50-ER11M-165	0.5 - 7.0	165	16	M6	29.5	ER11M / ER11	4.00
	BT50-ER16M-90	0.5 - 10.0	90	22	M10	38	ER16M / ER16	3.80
	BT50-ER16M-120	0.5 - 10.0	120	22	M10	38	ER16M / ER16	4.00
	BT50-ER16M-165	0.5 - 10.0	165	22	M10	38	ER16M / ER16	4.20
	BT50-ER20M-75	0.5 - 13.0	75	28	M12	44.5	ER20M / ER20	3.80
	BT50-ER20M-105	0.5 - 13.0	105	28	M12	44.5	ER20M / ER20	3.90
	BT50-ER20M-165	0.5 - 13.0	165	28	M12	44.5	ER20M / ER20	4.50
	BT50-ER25M-75	1.0 - 16.0	75	35	M12	52	ER25M / ER25	3.90
	BT50-ER25M-105	1.0 - 16.0	105	35	M12	52	ER25M / ER25	4.10

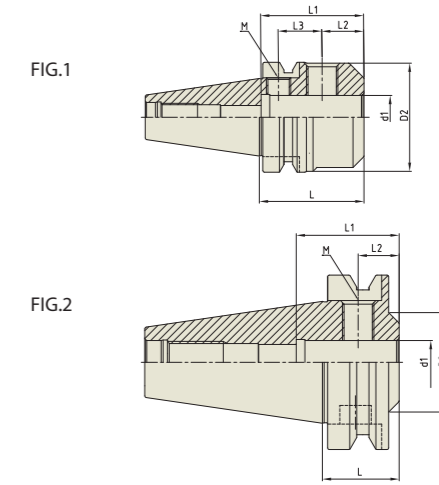
- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

BT (JIS B6339/MAS 403)

END MILL HOLDER (SHORT TYPE)

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECION LATERAL



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40	BT40-EMH25-60	25	62	60	59	24	25	M18/M14	1	1.50
	BT40-EMH32-65	32	62	65	63	24	28	M20/M14	1	1.45
50	BT50-EMH25-44	25	57	44	59	24	-	M18	2	3.45
	BT50-EMH32-60	32	72	60	63	24	28	M20/M14	1	3.80

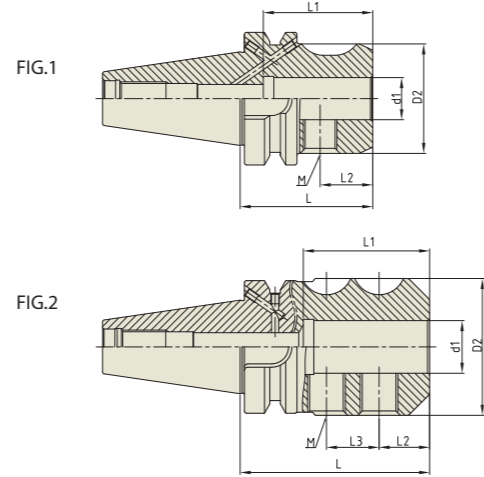
▶ Inch type products are available.

BT (JIS B6339/MAS 403)

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
30	BT30-EMH6-50	6	25	50	37	18	-	M6	1	0.47
	BT30-EMH8-50	8	28	50	37	18	-	M8	1	0.49
	BT30-EMH10-50	10	35	50	41	20	-	M10	1	0.55
	BT30-EMH12-55	12	42	55	46	22.5	-	M12	1	0.67
	BT30-EMH14-55	14	44	55	46	22.5	-	M12	1	0.68
	BT30-EMH16-63	16	48	63	54	24	-	M14	1	0.83
	BT30-EMH18-63	18	50	63	49	24	-	M14	1	0.85
	BT30-EMH20-70	20	52	70	48	25	-	M16	1	0.98
40	BT40AD/B-EMH6-50	6	25	50	35	18	-	M6	1	1.00
	BT40AD/B-EMH8-50	8	28	50	37	18	-	M8	1	1.00
	BT40AD/B-EMH10-63	10	35	63	39	20	-	M10	1	1.10
	BT40AD/B-EMH12-63	12	42	63	44	22.5	-	M12	1	1.30
	BT40AD/B-EMH14-63	14	44	63	49	22.5	-	M12	1	1.40
	BT40AD/B-EMH16-63	16	48	63	52	24	-	M14	1	1.70
	BT40AD/B-EMH18-63	18	50	63	52	24	-	M14	1	1.70
	BT40AD/B-EMH20-63	20	52	63	52	25	-	M16	1	1.80
	BT40AD/B-EMH25-90	25	65	90	60	24	25	M18	2	1.80
	BT40AD/B-EMH32-100	32	72	100	64	24	28	M20	2	2.00
50	BT50AD/B-EMH6-63	6	25	63	35	18	-	M6	1	3.30
	BT50AD/B-EMH8-63	8	28	63	35	18	-	M8	1	3.60
	BT50AD/B-EMH10-65	10	35	65	39	20	-	M10	1	3.80
	BT50AD/B-EMH12-80	12	42	80	46	22.5	-	M12	1	3.80
	BT40AD/B-EMH14-80	14	44	80	46	22.5	-	M12	1	4.00
	BT50AD/B-EMH16-80	16	48	80	49	24	-	M14	1	4.00
	BT50AD/B-EMH18-80	18	50	80	49	24	-	M14	1	4.20
	BT50AD/B-EMH20-80	20	52	80	52	25	-	M16	1	4.20
	BT50AD/B-EMH25-100	25	65	100	60	24	25	M18	2	4.60
	BT50AD/B-EMH32-105	32	72	105	64	24	28	M20	2	4.70
	BT50AD/B-EMH40-120	40	80	120	73	30	32	M20	2	4.90

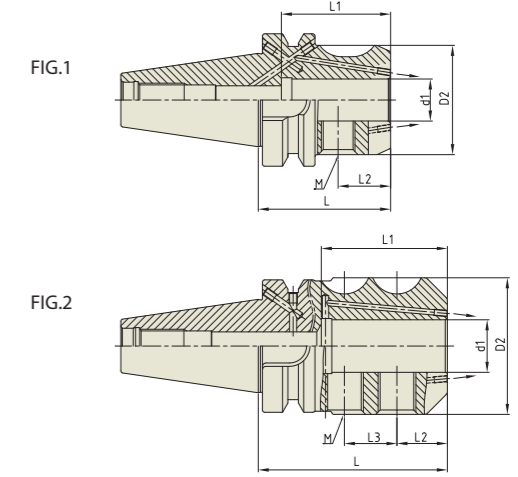
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

BT (JIS B6339/MAS 403)

END MILL HOLDER (COOLANT CHANNEL)

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD/B+C
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40	BT40AD/B-EMH6C-50	6	25	50	35	18	-	M6	1	1.00
	BT40AD/B-EMH8C-50	8	28	50	35	18	-	M8	1	1.00
	BT40AD/B-EMH10C-63	10	35	63	39	20	-	M10	1	1.10
	BT40AD/B-EMH12C-63	12	42	63	44	22.5	-	M12	1	1.30
	BT40AD/B-EMH14C-63	14	44	63	49	22.5	-	M12	1	1.40
	BT40AD/B-EMH16C-63	16	48	63	52	24	-	M14	1	1.70
	BT40AD/B-EMH18C-63	18	50	63	50	24	-	M14	1	1.70
	BT40AD/B-EMH20C-63	20	52	63	52	25	-	M16	1	1.80
	BT40AD/B-EMH25C-90	25	65	90	60	24	25	M18	2	1.80
	BT40AD/B-EMH32C-100	32	72	100	64	24	28	M20	2	2.00
50	BT50AD/B-EMH6C-63	6	25	63	35	18	-	M6	1	3.30
	BT50AD/B-EMH8C-63	8	28	63	35	18	-	M8	1	3.60
	BT50AD/B-EMH10C-65	10	35	65	39	20	-	M10	1	3.80
	BT50AD/B-EMH12C-80	12	42	80	46	22.5	-	M12	1	3.80
	BT40AD/B-EMH14C-80	14	44	80	46	22.5	-	M12	1	4.00
	BT50AD/B-EMH16C-80	16	48	80	49	24	-	M14	1	4.00
	BT50AD/B-EMH18C-80	18	50	80	49	24	-	M14	1	4.20
	BT50AD/B-EMH20C-80	20	52	80	52	25	-	M16	1	4.20
	BT50AD/B-EMH25C-100	25	65	100	60	24	25	M18	2	4.60
	BT50AD/B-EMH32C-105	32	72	105	64	24	28	M20	2	4.70
BT50AD/B-EMH40C-120	40	80	120	74	30	32	M20	2	4.90	

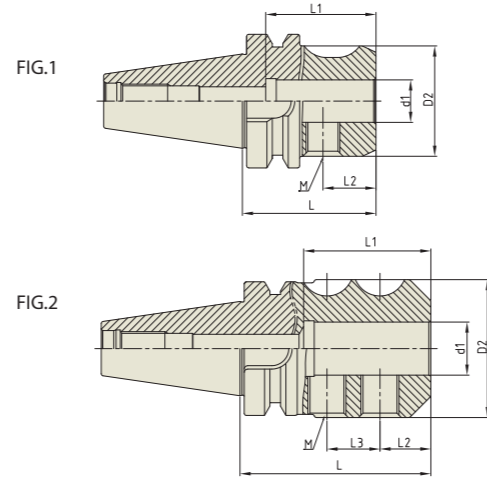
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

BT (JIS B6339/MAS 403)

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
30	BT30-EMH6-50	6	25	50	37	18	-	M6	1	0.47
	BT30-EMH8-50	8	28	50	37	18	-	M8	1	0.49
	BT30-EMH10-50	10	35	50	41	20	-	M10	1	0.55
	BT30-EMH12-55	12	42	55	46	22.5	-	M12	1	0.67
	BT30-EMH14-55	14	44	55	46	22.5	-	M12	1	0.68
	BT30-EMH16-63	16	48	63	54	24	-	M14	1	0.83
	BT30-EMH18-63	18	50	63	49	24	-	M14	1	0.85
	BT30-EMH20-70	20	52	70	48	25	-	M16	1	0.98
40	BT40-EMH6-50	6	25	50	35	18	-	M6	1	1.00
	BT40-EMH8-50	8	28	50	37	18	-	M8	1	1.00
	BT40-EMH10-63	10	35	63	39	20	-	M10	1	1.10
	BT40-EMH12-63	12	42	63	44	22.5	-	M12	1	1.30
	BT40-EMH14-63	14	44	63	49	22.5	-	M12	1	1.40
	BT40-EMH16-63	16	48	63	52	24	-	M14	1	1.70
	BT40-EMH18-63	18	50	63	52	24	-	M14	1	1.70
	BT40-EMH20-63	20	52	63	52	25	-	M16	1	1.80
	BT40-EMH25-90	25	65	90	60	24	25	M18	2	1.80
	BT40-EMH32-100	32	72	100	64	24	28	M20	2	2.00
50	BT50-EMH6-63	6	25	63	35	18	-	M6	1	3.30
	BT50-EMH8-63	8	28	63	35	18	-	M8	1	3.60
	BT50-EMH10-65	10	35	65	39	20	-	M10	1	3.80
	BT50-EMH12-80	12	42	80	46	22.5	-	M12	1	3.80
	BT40-EMH14-80	14	44	80	46	22.5	-	M12	1	4.00
	BT50-EMH16-80	16	48	80	49	24	-	M14	1	4.00
	BT50-EMH18-80	18	50	80	49	24	-	M14	1	4.20
	BT50-EMH20-80	20	52	80	52	25	-	M16	1	4.20
	BT50-EMH25-100	25	65	100	60	24	25	M18	2	4.60
	BT50-EMH32-105	32	72	105	64	24	28	M20	2	4.70
	BT50-EMH40-120	40	80	120	73	30	32	M20	2	4.90

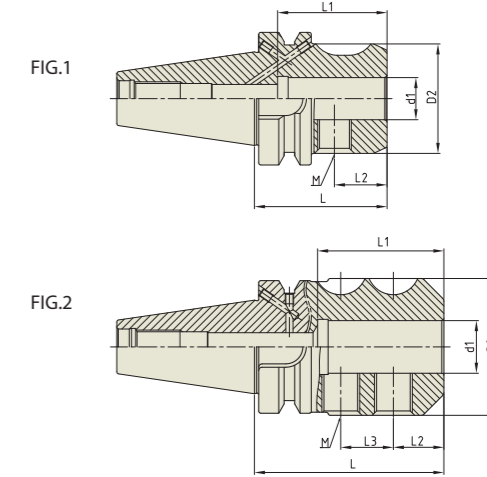
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.

BT (JIS B6339/MAS 403)

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40	BT40AD/B-EMH6-50	6	25	50	35	18	-	M6	1	1.00
	BT40AD/B-EMH8-50	8	28	50	37	18	-	M8	1	1.00
	BT40AD/B-EMH10-63	10	35	63	39	20	-	M10	1	1.10
	BT40AD/B-EMH12-63	12	42	63	44	22.5	-	M12	1	1.30
	BT40AD/B-EMH14-63	14	44	63	49	22.5	-	M12	1	1.40
	BT40AD/B-EMH16-63	16	48	63	52	24	-	M14	1	1.70
	BT40AD/B-EMH18-63	18	50	63	52	24	-	M14	1	1.70
	BT40AD/B-EMH20-63	20	52	63	52	25	-	M16	1	1.80
	BT40AD/B-EMH25-90	25	65	90	60	24	25	M18	2	1.80
	BT40AD/B-EMH32-100	32	72	100	64	24	28	M20	2	2.00
50	BT50AD/B-EMH6-63	6	25	63	35	18	-	M6	1	3.30
	BT50AD/B-EMH8-63	8	28	63	35	18	-	M8	1	3.60
	BT50AD/B-EMH10-65	10	35	65	39	20	-	M10	1	3.80
	BT50AD/B-EMH12-80	12	42	80	46	22.5	-	M12	1	3.80
	BT40AD/B-EMH14-80	14	44	80	46	22.5	-	M12	1	4.00
	BT50AD/B-EMH16-80	16	48	80	49	24	-	M14	1	4.00
	BT50AD/B-EMH18-80	18	50	80	49	24	-	M14	1	4.20
	BT50AD/B-EMH20-80	20	52	80	52	25	-	M16	1	4.20
	BT50AD/B-EMH25-100	25	65	100	60	24	25	M18	2	4.60
	BT50AD/B-EMH32-105	32	72	105	64	24	28	M20	2	4.70
BT50AD/B-EMH40-120	40	80	120	73	30	32	M20	2	4.90	

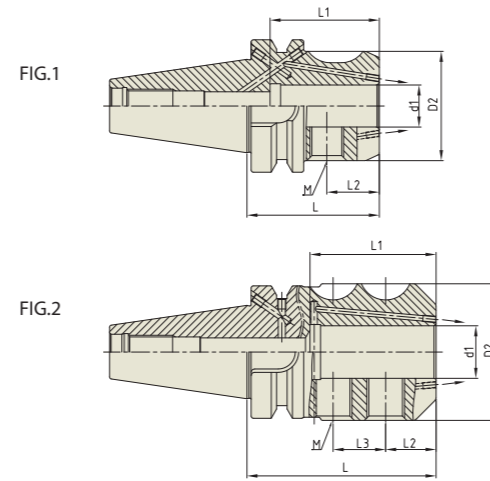
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.

BT (JIS B6339/MAS 403)

END MILL HOLDER (COOLANT CHANNEL)

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



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

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40	BT40AD/B-EMH6C-50	6	25	50	35	18	-	M6	1	1.00
	BT40AD/B-EMH8C-50	8	28	50	35	18	-	M8	1	1.00
	BT40AD/B-EMH10C-63	10	35	63	39	20	-	M10	1	1.10
	BT40AD/B-EMH12C-63	12	42	63	44	22.5	-	M12	1	1.30
	BT40AD/B-EMH14C-63	14	44	63	49	22.5	-	M12	1	1.40
	BT40AD/B-EMH16C-63	16	48	63	52	24	-	M14	1	1.70
	BT40AD/B-EMH18C-63	18	50	63	50	24	-	M14	1	1.70
	BT40AD/B-EMH20C-63	20	52	63	52	25	-	M16	1	1.80
	BT40AD/B-EMH25C-90	25	65	90	60	24	25	M18	2	1.80
	BT40AD/B-EMH32C-100	32	72	100	64	24	28	M20	2	2.00
50	BT50AD/B-EMH6C-63	6	25	63	35	18	-	M6	1	3.30
	BT50AD/B-EMH8C-63	8	28	63	35	18	-	M8	1	3.60
	BT50AD/B-EMH10C-65	10	35	65	39	20	-	M10	1	3.80
	BT50AD/B-EMH12C-80	12	42	80	46	22.5	-	M12	1	3.80
	BT40AD/B-EMH14C-80	14	44	80	46	22.5	-	M12	1	4.00
	BT50AD/B-EMH16C-80	16	48	80	49	24	-	M14	1	4.00
	BT50AD/B-EMH18C-80	18	50	80	49	24	-	M14	1	4.20
	BT50AD/B-EMH20C-80	20	52	80	52	25	-	M16	1	4.20
	BT50AD/B-EMH25C-100	25	65	100	60	24	25	M18	2	4.60
	BT50AD/B-EMH32C-105	32	72	105	64	24	28	M20	2	4.70
	BT50AD/B-EMH40C-120	40	80	120	74	30	32	M20	2	4.90

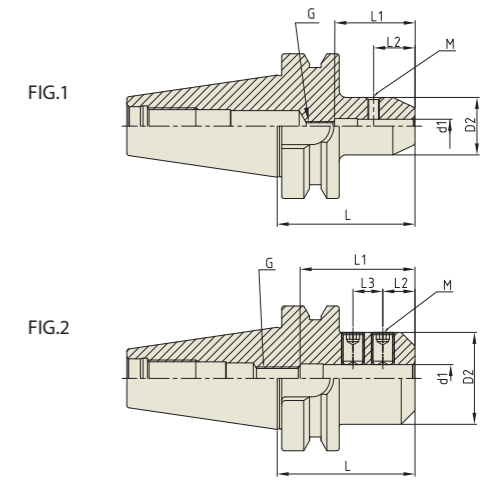
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with Weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.

BT (JIS B6339/MAS 403)

SIDE LOCK ARBOR

SLA

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



JIS B6339 -BT	Taper Accuracy AT3	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	G	FIG.	WEIGHT (Kg)
30	BT30-SLA6-60	6	25	60	35	18	-	M5	M5	1	0.70
	BT30-SLA8-60	8	28	60	35	18	-	M6	M6	1	0.80
	BT30-SLA10-60	10	35	60	50	14	13	M8	M8	2	0.90
	BT30-SLA12-60	12	40	60	50	14	13	M10	M10	2	1.10
	BT30-SLA14-60	14	40	60	50	14	13	M10	M10	2	1.20
	BT30-SLA16-75	16	40	75	70	25	20	M12	M12	2	1.30
	BT30-SLA20-75	20	50	75	70	25	20	M12	M12	2	1.40
	BT30-SLA25-75	25	50	75	70	25	20	M14	M12	2	1.50
	BT30-SLA32-105	32	60	105	80	25	25	M16	M12	2	1.60
	40	BT40-SLA6-60	6	25	60	35	18	-	M5	M5	1
BT40-SLA8-60		8	28	60	35	18	-	M6	M6	1	1.10
BT40-SLA10-60		10	35	60	50	14	13	M8	M8	2	1.20
BT40-SLA12-60		12	40	60	50	14	13	M10	M10	2	1.40
BT40-SLA16-90		16	40	90	70	25	20	M12	M12	2	1.50
BT40-SLA20-90		20	50	90	70	25	20	M12	M12	2	1.80
BT40-SLA25-90		25	50	90	70	25	20	M14	M12	2	1.70
BT40-SLA32-90		32	60	90	80	25	25	M16	M12	2	1.90
BT40-SLA40-90		40	63	90	80	25	25	M16	M12	2	1.80
BT40-SLA42-90		42	63	90	80	25	25	M16	M12	2	1.80
50	BT50-SLA6-90	6	25	90	40	18	-	M5	M5	1	3.70
	BT50-SLA8-90	8	28	90	40	18	-	M6	M6	1	3.90
	BT50-SLA10-90	10	35	90	50	15	15	M8	M8	2	4.10
	BT50-SLA12-90	12	40	90	55	15	15	M10	M10	2	4.30
	BT50-SLA14-90	14	40	90	55	15	15	M10	M10	2	4.30
	BT50-SLA16-105	16	40	105	70	25	20	M12	M12	2	4.40
	BT50-SLA20-105	20	50	105	70	25	20	M12	M12	2	4.80
	BT50-SLA25-105	25	50	105	70	25	20	M14	M12	2	4.70
	BT50-SLA32-105	32	60	105	80	25	25	M16	M12	2	4.00
	BT50-SLA40-105	40	70	105	80	25	25	M16	M12	2	4.50
	BT50-SLA42-105	42	70	105	80	25	25	M16	M12	2	4.70
	BT50-SLA50.8-121	50.8	95	121	87	33.9	35.8	M20	-	2	5.00

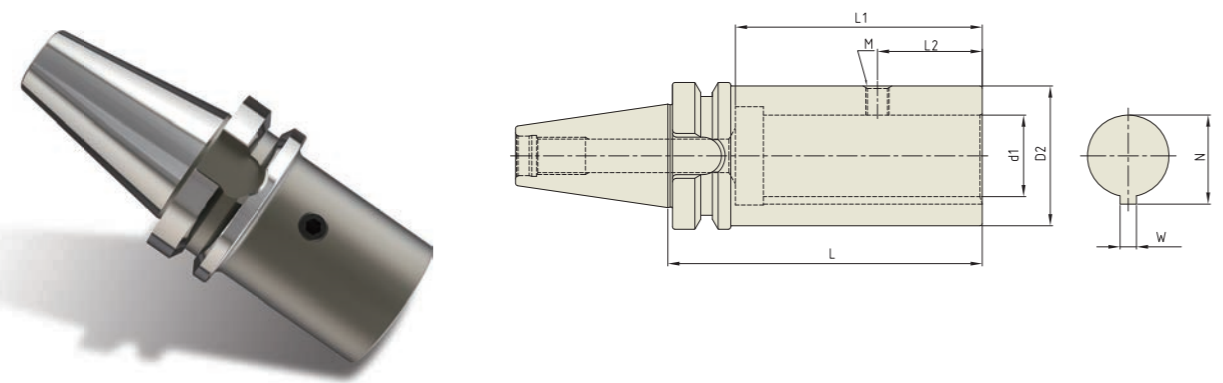
- ▶ Inch type products are available.
- ▶ Standard design of Side Lock Arbor is for cutting tools with straight shank having flat face.
- ▶ Side Lock Arbor is Non-Balancing.

BT (JIS B6339/MAS 403)

SIDE LOCK ARBOR



FRÄSERFUTTER UND FLÄCHENSPIANNFUTTER
 MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
 MANDRINI PORTA FRESA TIPO WELDON
 PORTAFRESAS Y EJES DE SUJECCION LATERAL



JIS B6339 -BT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	M	N	W	WEIGHT (Kg)
40	BT40-SLB26-105	26	50	105	85	40	M10	28.2	5	1.30
	BT40-SLB35-135	35	60	135	105	55	M10	37.6	6	2.20
	BT40-SLB35T-135	35	60	135	105	55	M10	38.2	7	2.20
50	BT50-SLB26-105	26	50	105	85	40	M10	28.2	5	1.30
	BT50-SLB35-135	35	60	135	106	55	M10	37.6	6	2.20
	BT50-SLB35T-135	35	60	135	106	55	M10	38.2	7	2.20
	BT50-SLB48-165	48	80	165	129	65	M10	51	8	3.80

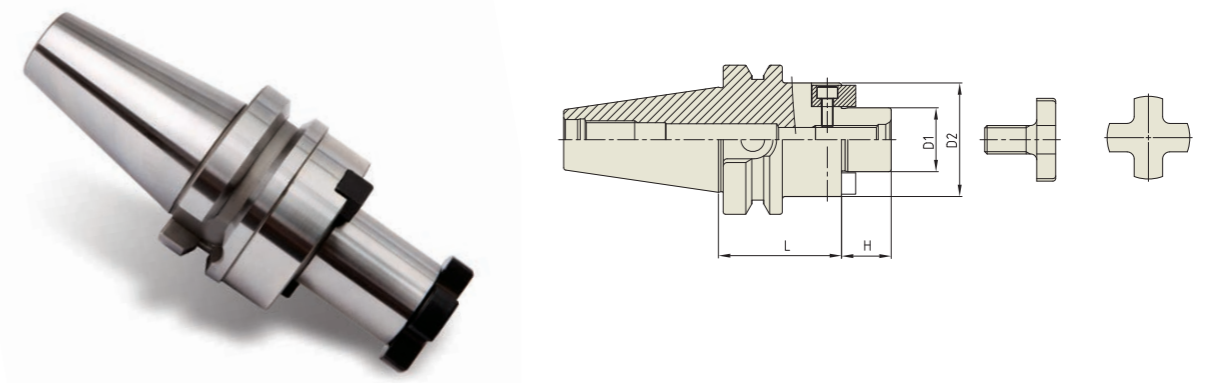
- ▶ Inch type products are available.
- ▶ Standard design of Side Lock Arbor is for cutting tools with straight shank having flat face.
- ▶ Side Lock Arbor is Non-Balancing.

BT (JIS B6339/MAS 403)

SHELL MILL ARBOR



AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
30	BT30-SMA16-50	16	32	50	17	M8x16L	0.58
	BT30-SMA22-50	22	40	50	19	M10x18L	0.70
	BT30-SMA27-50	27	48	50	21	M12x22L	0.85
40	BT40-SMA16-60	16	32	60	17	M8x16L	1.17
	BT40-SMA16-120	16	32	120	17	M8x16L	1.50
	BT40-SMA22-60	22	40	60	19	M10x18L	1.31
	BT40-SMA22-120	22	40	120	19	M10x18L	1.85
	BT40-SMA27-60	27	48	60	21	M12x22L	1.48
	BT40-SMA27-120	27	48	120	21	M12x22L	2.27
	BT40-SMA32-60	32	58	60	24	M16x26L	1.72
	BT40-SMA32-120	32	58	120	24	M16x26L	2.90
	BT40-SMA40-60	40	70	60	27	M20x30L	2.00
	BT50-SMA16-75	16	32	75	17	M8x16L	3.75
50	BT50-SMA16-120	16	32	120	17	M8x16L	4.03
	BT50-SMA22-75	22	40	75	19	M10x18L	3.90
	BT50-SMA22-120	22	40	120	19	M10x18L	4.25
	BT50-SMA27-75	27	48	75	21	M12x22L	4.09
	BT50-SMA27-120	27	48	120	21	M12x22L	4.56
	BT50-SMA32-75	32	58	75	24	M16x26L	4.35
	BT50-SMA32-120	32	58	120	24	M16x26L	5.22
	BT50-SMA40-75	40	70	75	27	M20x30L	4.77
	BT50-SMA40-120	40	70	120	27	M20x30L	6.04
	BT50-SMA50-75	50	90	75	30	M24x36L	5.60

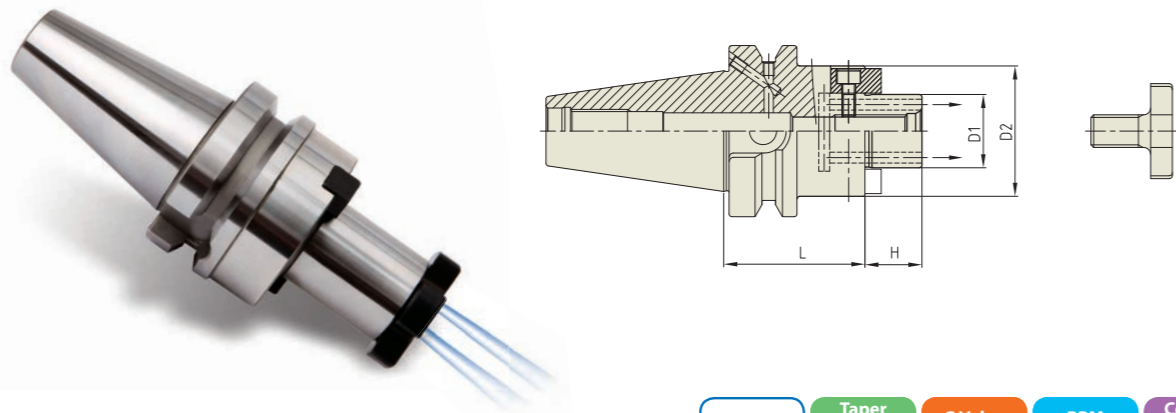
- ▶ Inch type products are available.
- ▶ For parts, please refer to page 329.

BT (JIS B6339/MAS 403)

SHELL MILL ARBOR (COOLANT CHANNEL & SMALL FACE)

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
MANDRIN PORTE-FRAISES
MANDRINO CON TRASCINAMENTO FISSO
PORTA FRESAS



JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD+C or AD/B+C
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Unit : mm

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
30	BT30-SMA16C-40	16	32	40	17	M8x16L	0.55
	BT30-SMA22C-40	22	40	40	19	M10x18L	0.61
	BT30-SMA22C-100	22	40	100	19	M10x18L	1.18
	BT30-SMA27C-40	27	48	40	21	M12x22L	0.86
	BT30-SMA27C-100	27	48	100	21	M12x22L	1.67
	BT40AD/B-SMA16C-60	16	32	60	17	M8x16L	1.00
40	BT40AD/B-SMA22C-60	22	40	60	19	M10x18L	1.20
	BT40AD/B-SMA22C-100	22	40	100	19	M10x18L	1.65
	BT40AD/B-SMA27C-60	27	48	60	21	M12x22L	1.34
	BT40AD/B-SMA27C-100	27	48	100	21	M12x22L	1.99
	BT40AD/B-SMA32C-60	32	58	60	24	M16x26L	1.55
	BT40AD/B-SMA40C-60	40	70	60	27	M20x30L	1.97
	BT50AD/B-SMA16C-75	16	32	75	17	M8x16L	3.00
	BT50AD/B-SMA16C-120	16	32	120	17	M8x16L	3.40
	BT50AD/B-SMA22C-75	22	40	75	19	M10x18L	3.72
	BT50AD/B-SMA22C-100	22	40	100	19	M10x18L	4.06
50	BT50AD/B-SMA22C-120	22	40	120	19	M10x18L	4.40
	BT50AD/B-SMA22C-160	22	40	160	19	M10x18L	4.61
	BT50AD/B-SMA27C-75	27	48	75	21	M12x22L	3.87
	BT50AD/B-SMA27C-100	27	48	100	21	M12x22L	4.37
	BT50AD/B-SMA27C-120	27	48	120	21	M12x22L	4.68
	BT50AD/B-SMA27C-160	27	48	160	21	M12x22L	5.18
	BT50AD/B-SMA32C-75	32	58	75	24	M16x26L	4.08
	BT50AD/B-SMA32C-100	32	58	100	24	M16x26L	4.80
	BT50AD/B-SMA32C-120	32	58	120	24	M16x26L	5.40
	BT50AD/B-SMA32C-160	32	58	160	24	M16x26L	5.98
	BT50AD/B-SMA40C-75	40	70	75	27	M20x30L	4.41
	BT50AD/B-SMA40C-100	40	70	100	27	M20x30L	5.45
	BT50AD/B-SMA40C-120	40	70	120	27	M20x30L	6.00
	BT50AD/B-SMA40C-160	40	70	160	27	M20x30L	7.15

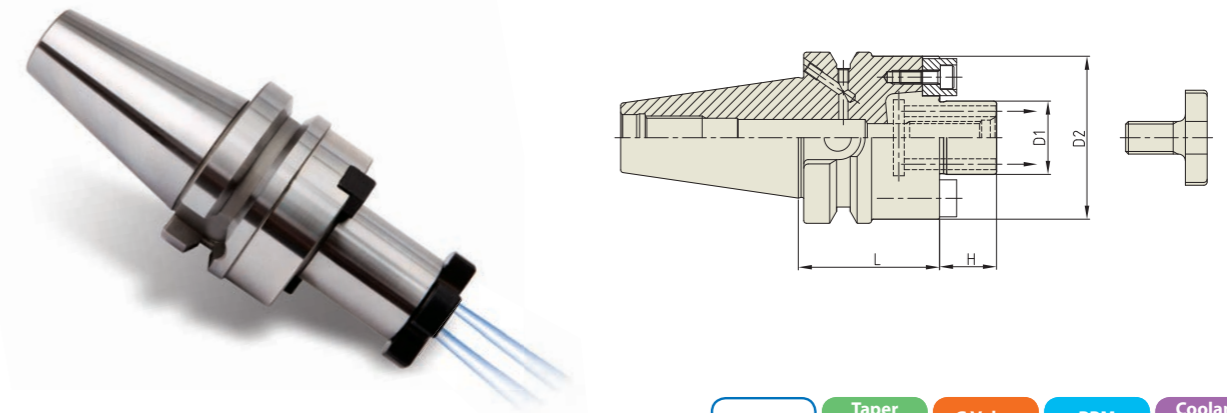
- ▶ Inch type products are available.
- ▶ With "Coolant Through" by coolant channels.
- ▶ For parts, please refer to page 329.

BT (JIS B6339/MAS 403)

SHELL MILL ARBOR (COOLANT CHANNEL & LARGE FACE)

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
MANDRIN PORTE-FRAISES
MANDRINO CON TRASCINAMENTO FISSO
PORTA FRESAS



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

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)	
40	BT40AD/B-SMA16CE-45	16	38	45	17	M8x16L	1.09	
	BT40AD/B-SMA16CE-100	16	38	100	17	M8x16L	1.57	
	BT40AD/B-SMA22CE-45	22	48	45	19	M10x18L	1.22	
	BT40AD/B-SMA22CE-100	22	48	100	19	M10x18L	1.97	
	BT40AD/B-SMA27CE-45	27	60	45	21	M12x22L	1.39	
	BT40AD/B-SMA27CE-100	27	60	100	21	M12x22L	2.58	
	BT40AD/B-SMA32CE-50	32	78	50	24	M16x26L	1.80	
	BT40AD/B-SMA40CE-50	40	89	50	27	M20x30L	2.05	
	50	BT50AD/B-SMA22CE-55	22	48	55	19	M10x18L	3.72
		BT50AD/B-SMA22CE-100	22	48	100	19	M10x18L	4.33
BT50AD/B-SMA22CE-160		22	48	160	19	M10x18L	5.14	
BT50AD/B-SMA27CE-55		27	60	55	21	M12x22L	3.89	
BT50AD/B-SMA27CE-100		27	60	100	21	M12x22L	4.86	
BT50AD/B-SMA27CE-160		27	60	160	21	M12x22L	6.15	
BT50AD/B-SMA32CE-55		32	78	55	24	M16x26L	4.21	
BT50AD/B-SMA32CE-100		32	78	100	24	M16x26L	5.87	
BT50AD/B-SMA32CE-160		32	78	160	24	M16x26L	8.08	
BT50AD/B-SMA40CE-55		40	89	55	27	M20x30L	4.52	
50	BT50AD/B-SMA40CE-100	40	89	100	27	M20x30L	6.68	
	BT50AD/B-SMA40CE-160	40	89	160	27	M20x30L	9.57	

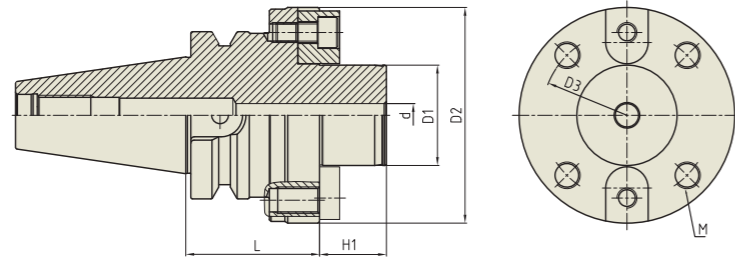
- ▶ Inch type products are available.
- ▶ With "Coolant Through" by coolant channels.
- ▶ For parts, please refer to page 329.

BT (JIS B6339/MAS 403)

SHELL MILL ARBOR (FLANGE MOUNTING)

SMF

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	D3	L	H1	M (TAP)	DRIVE KEY & BOLT	WEIGHT (Kg)
50	BT50-SMF40-70	14	40	89	66.7	70	30	4-M12	15.9 x 16 x 21.5, M6-15L	-
	BT50-SMF60-80	14	60	129	101.6	80	40	4-M16	25.4 x 25.4 x 31.5, M12-25L	-

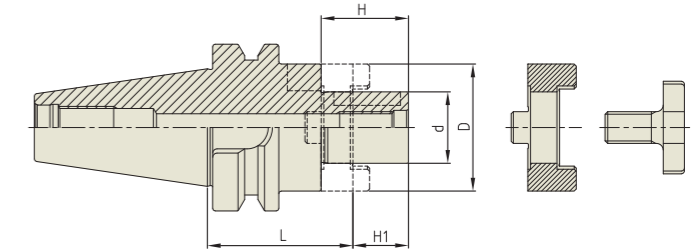
▶ Inch type products are available.

BT (JIS B6339/MAS 403)

COMBI-SHELL MILL ARBOR

CMA

KOMBI-AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES COMBINÉS
 MANDRINO PORTA FRESE
 PORTA FRESAS COMBINADO



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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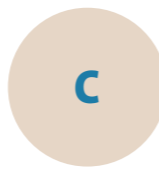
Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	WEIGHT (Kg)
30	BT30-CMA16-50	16	50	32	17	27	0.61
	BT30-CMA22-50	22	50	40	19	31	0.7
	BT30-CMA27-55	27	55	48	21	33	0.92
40	BT40-CMA16-55	16	55	32	17	27	1.14
	BT40-CMA16-100	16	100	32	17	27	1.41
	BT40-CMA22-55	22	55	40	19	31	1.26
	BT40-CMA22-100	22	100	40	19	31	1.68
	BT40-CMA27-55	27	55	48	21	33	1.42
	BT40-CMA27-100	27	100	48	21	33	2.02
	BT40-CMA32-60	32	60	58	24	38	1.72
	BT40-CMA32-100	32	100	58	24	38	2.51
	BT40-CMA40-70	40	70	70	27	41	2.46
50	BT50-CMA16-70	16	70	32	17	27	3.74
	BT50-CMA16-100	16	100	32	17	27	3.92
	BT50-CMA22-70	22	70	40	19	31	3.86
	BT50-CMA22-100	22	100	40	19	31	4.15
	BT50-CMA27-70	27	70	48	21	33	4.04
	BT50-CMA27-100	27	100	48	21	33	4.45
	BT50-CMA32-70	32	70	58	24	38	4.28
	BT50-CMA32-100	32	100	58	24	38	4.86
	BT50-CMA40-70	40	70	70	27	41	4.62
	BT50-CMA40-100	40	100	70	27	41	5.47
BT50-CMA50-70	50	70	90	30	46	5.48	

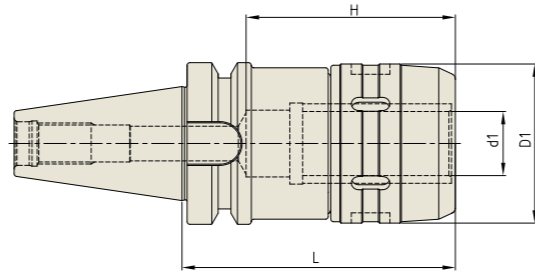
▶ Inch type products are available.
 ▶ For parts, please refer to page 330.

BT (JIS B6339/MAS 403)

HIGH-SPEED POWER MILLING CHUCK



HOCHGESCHWINDIGKEITS FRÄSERFUTTER
 MANDRIN PORTE FRAISE À GRANDE VITESSE
 MANDRINI PORTA FRESA PER ALTA VELOCITÀ
 PORTAHERRAMIENTAS PARA FRESADO DE ALTA VELOCIDAD



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 20,000	Coolant System AD
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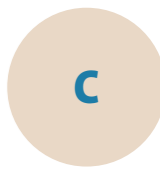
Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	WEIGHT (Kg)
30	BT30-C20-75HS	20	54	75	70	1.50
	BT30-C25-80HS	25	62	80	70	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	105	80	2.50
	BT40-C32-90HS	32	72	90	100	3.00
	BT40-C32-105HS	32	72	105	100	3.10
	BT40-C32-135HS	32	72	135	100	3.30
	50	BT50-C20-105HS	20	54	105	70
BT50-C20-135HS		20	54	135	70	4.90
BT50-C20-165HS		20	54	165	70	5.40
BT50-C25-105HS		25	62	105	80	5.20
BT50-C25-135HS		25	62	135	80	5.80
BT50-C25-165HS		25	62	165	80	6.20
BT50-C32-105HS		32	72	105	100	6.00
BT50-C32-135HS		32	72	135	100	6.70
BT50-C32-165HS		32	72	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

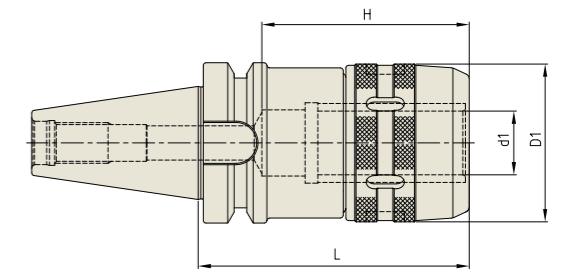
- ▶ Inch type products are available.
- ▶ Balancing Grade is adjusted on Basic holder only without Clamping Cap.
- ▶ For applicable collet and spanner, please refer to the page 332.

BT (JIS B6339/MAS 403)

POWER MILLING CHUCK



FRÄSPANNFUTTER
 MANDRIN PORTE FRAISE
 MANDRINI PORTA FRESA
 PORTAHERRAMIENTAS PARA FRESADO



JIS B6339 -BT	Taper Accuracy AT3	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	WEIGHT (Kg)
30	BT30-C20-75	20	54	75	70	1.50
	BT30-C25-80	25	62	80	70	2.00
40	BT40-C20-80	20	54	80	70	2.00
	BT40-C20-105	20	54	105	70	2.10
	BT40-C25-105	25	62	105	80	2.50
	BT40-C32-90	32	72	90	100	3.00
	BT40-C32-105	32	72	105	100	3.10
	BT40-C32-135	32	72	135	100	3.30
	50	BT50-C20-105	20	54	105	70
BT50-C20-135		20	54	135	70	4.90
BT50-C20-165		20	54	165	70	5.40
BT50-C25-105		25	62	105	80	5.20
BT50-C25-135		25	62	135	80	5.80
BT50-C25-165		25	62	165	80	6.20
BT50-C32-105		32	72	105	100	6.00
BT50-C32-115		32	72	115	100	6.20
BT50-C32-135		32	72	135	100	6.70
BT50-C32-165		32	72	165	100	7.40
BT50-C42-115		42	92	115	110	6.70
BT50-C42-135		42	92	135	110	7.60
BT50-C42-165	42	92	165	110	8.30	

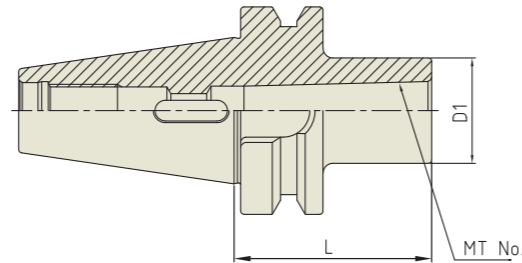
- ▶ Inch type products are available.
- ▶ For applicable collet and spanner, please refer to the page 332.

BT (JIS B6339/MAS 403)

MORSE TAPER ARBOR

MTA

EINSATZHÜLSEN FÜR MORSEKEGEL
DOUILLES DE RÉDUCTION CÔNE MORSE
MANDRINO RIDUZIONE CONO MORSE
REDUCTORES A MORSE



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	MT No.	D1	L	WEIGHT (Kg)
30	BT30-MTA1-45	1	25	45	0.40
	BT30-MTA2-60	2	32	60	0.50
	BT30-MTA2-120	2	32	120	0.60
	BT30-MTA3-75	3	40	75	0.70
40	BT40-MTA1-45	1	25	45	1.00
	BT40-MTA1-120	1	25	120	1.30
	BT40-MTA2-60	2	32	60	1.00
	BT40-MTA2-120	2	32	120	1.40
	BT40-MTA3-75	3	40	75	1.20
	BT40-MTA3-135	3	40	135	1.80
	BT40-MTA4-95	4	50	95	1.10
	BT40-MTA4-165	4	50	165	2.40
	BT50-MTA1-45	1	25	45	4.00
	BT50-MTA1-120	1	25	120	4.30
50	BT50-MTA1-180	1	25	180	4.30
	BT50-MTA2-45	2	32	45	4.00
	BT50-MTA2-135	2	32	135	4.40
	BT50-MTA2-180	2	32	180	4.60
	BT50-MTA3-45	3	40	45	3.90
	BT50-MTA3-150	3	40	150	4.70
	BT50-MTA3-180	3	40	180	4.90
	BT50-MTA4-75	4	50	75	4.00
	BT50-MTA4-105	4	50	105	4.50
	BT50-MTA4-180	4	50	180	5.40
	BT50-MTA5-105	5	65	105	4.50
	BT50-MTA5-210	5	65	210	7.20
BT50-MTA5-270	5	65	270	7.50	

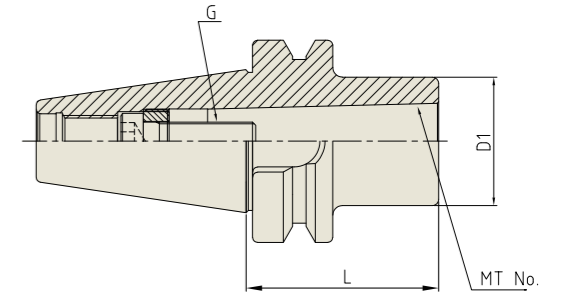
▶ Inch type products are available.

BT (JIS B6339/MAS 403)

MORSE TAPER ARBOR

MTB

EINSATZHÜLSEN FÜR MORSEKEGEL
DOUILLES DE RÉDUCTION CÔNE MORSE
MANDRINO RIDUZIONE CONO MORSE
REDUCTORES A MORSE



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	MT No.	D1	L	G	WEIGHT (Kg)
30	BT30-MTB1-45	1	25	45	M6×1.0	0.80
	BT30-MTB2-45	2	32	45	M10×1.5	0.80
40	BT40-MTB1-45	1	25	45	M6×1.0	1.00
	BT40-MTB2-45	2	32	45	M10×1.5	1.10
	BT40-MTB3-60	3	40	60	M12×1.75	1.10
	BT40-MTB4-85	4	50	85	M16×2.0	1.30
50	BT50-MTB1-45	1	25	45	M6×1.0	3.90
	BT50-MTB2-45	2	32	45	M10×1.5	3.90
	BT50-MTB3-60	3	40	60	M12×1.75	3.90
	BT50-MTB4-75	4	50	75	M16×2.0	3.90

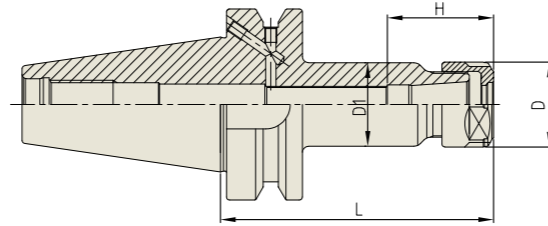
▶ Inch type products are available.

BT (JIS B6339/MAS 403)

SK SLIM CHUCK



SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	D1	H	COLLET	WEIGHT (Kg)
30	BT30-SKA06-60	1.8 - 6.0	60	20	19.5	31	SKC6	0.70
	BT30-SKA06-90	1.8 - 6.0	90	20	19.5	31	SKC6	0.80
	BT30-SKA10-60	1.75 - 10.0	60	28	27.5	35	SKC10	0.90
	BT30-SKA10-90	1.75 - 10.0	90	28	27.5	35	SKC10	1.00
	BT30-SKA13-60	2.75 - 13.0	60	33	33	43.6	SKC13	1.00
	BT30-SKA13-90	2.75 - 13.0	90	33	33	43.6	SKC13	1.10
	BT30-SKA16-60	2.75 - 16.0	60	40	40	52	SKC16	1.10
	BT30-SKA16-90	2.75 - 16.0	90	40	40	52	SKC16	1.20
	BT30-SKA20-60	3.5 - 20.0	60	48.5	40	59.6	SKC20	1.30
	BT30-SKA20-90	3.5 - 20.0	90	48.5	40	59.6	SKC20	1.40
	BT30-SKA25-90	16.0 - 25.4	90	45	55	63.4	SKC25	1.50
	40	BT40AD/B-SKA06-90	1.8 - 6.0	90	20	19.5	31	SKC6
BT40AD/B-SKA06-120		1.8 - 6.0	120	20	19.5	31	SKC6	1.40
BT40AD/B-SKA06-150		1.8 - 6.0	150	20	19.5	31	SKC6	1.50
BT40AD/B-SKA10-90		1.75 - 10.0	90	28	27.5	35	SKC10	1.20
BT40AD/B-SKA10-120		1.75 - 10.0	120	28	27.5	35	SKC10	1.40
BT40AD/B-SKA10-150		1.75 - 10.0	150	28	27.5	35	SKC10	1.60
BT40AD/B-SKA13-90		2.75 - 13.0	90	33	33	43.6	SKC13	1.40
BT40AD/B-SKA13-120		2.75 - 13.0	120	33	33	43.6	SKC13	1.60
BT40AD/B-SKA13-150		2.75 - 13.0	150	33	33	43.6	SKC13	1.80
BT40AD/B-SKA16-90		2.75 - 16.0	90	40	40	52	SKC16	1.50
BT40AD/B-SKA16-120		2.75 - 16.0	120	40	40	52	SKC16	1.70
BT40AD/B-SKA16-150		2.75 - 16.0	150	40	40	52	SKC16	1.90
50	BT40AD/B-SKA20-90	3.5 - 20.0	90	48.5	48.5	59.6	SKC20	1.60
	BT40AD/B-SKA20-120	3.5 - 20.0	120	48.5	48.5	59.6	SKC20	2.00
	BT40AD/B-SKA20-150	3.5 - 20.0	150	48.5	48.5	59.6	SKC20	2.40
	BT40AD/B-SKA25-90	16.0 - 25.4	90	55	55	63.4	SKC25	1.80
	BT40AD/B-SKA25-120	16.0 - 25.4	120	55	55	63.4	SKC25	2.00
	BT40AD/B-SKA25-150	16.0 - 25.4	150	55	55	63.4	SKC25	2.30

▶ Inch type products are available.
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

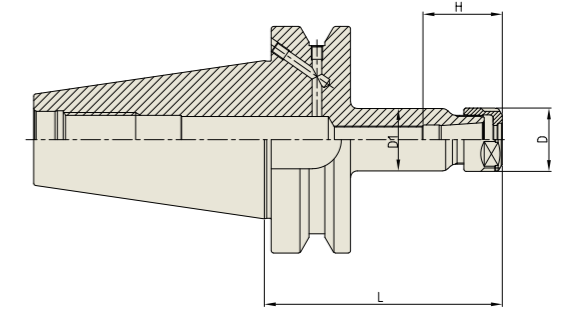
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BT (JIS B6339/MAS 403)

SK SLIM CHUCK



SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



JIS B6339 - BT	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	L	D	D1	H	COLLET	WEIGHT (Kg)
50	BT50AD/B-SKA06-105	1.8 - 6.0	105	20	19.5	31	SKC6	3.80
	BT50AD/B-SKA06-135	1.8 - 6.0	135	20	19.5	31	SKC6	3.90
	BT50AD/B-SKA06-165	1.8 - 6.0	165	20	19.5	31	SKC6	4.00
	BT50AD/B-SKA06-195	1.8 - 6.0	195	20	19.5	31	SKC6	4.20
	BT50AD/B-SKA10-105	1.75 - 10.0	105	28	27.5	35	SKC10	4.20
	BT50AD/B-SKA10-135	1.75 - 10.0	135	28	27.5	35	SKC10	4.40
	BT50AD/B-SKA10-165	1.75 - 10.0	165	28	27.5	35	SKC10	4.60
	BT50AD/B-SKA10-195	1.75 - 10.0	195	28	27.5	35	SKC10	4.80
	BT50AD/B-SKA13-105	2.75 - 13.0	105	33	33	43.6	SKC13	4.50
	BT50AD/B-SKA13-135	2.75 - 13.0	135	33	33	43.6	SKC13	4.70
	BT50AD/B-SKA13-165	2.75 - 13.0	165	33	33	43.6	SKC13	4.90
	BT50AD/B-SKA13-195	2.75 - 13.0	195	33	33	43.6	SKC13	5.20
	BT50AD/B-SKA16-105	2.75 - 16.0	105	40	40	52	SKC16	4.70
	BT50AD/B-SKA16-135	2.75 - 16.0	135	40	40	52	SKC16	4.90
	BT50AD/B-SKA16-165	2.75 - 16.0	165	40	40	52	SKC16	5.10
	BT50AD/B-SKA16-195	2.75 - 16.0	195	40	40	52	SKC16	5.50
	BT50AD/B-SKA20-105	3.5 - 20.0	105	48.5	48.5	59.6	SKC20	4.30
	BT50AD/B-SKA20-135	3.5 - 20.0	135	48.5	48.5	59.6	SKC20	4.60
	BT50AD/B-SKA20-165	3.5 - 20.0	165	48.5	48.5	59.6	SKC20	5.00
	BT50AD/B-SKA20-195	3.5 - 20.0	195	48.5	48.5	59.6	SKC20	5.40
	BT50AD/B-SKA25-105	16.0 - 25.4	105	55	55	63.4	SKC25	5.20
	BT50AD/B-SKA25-135	16.0 - 25.4	135	55	55	63.4	SKC25	5.40
	BT50AD/B-SKA25-165	16.0 - 25.4	165	55	55	63.4	SKC25	5.60
	BT50AD/B-SKA25-195	16.0 - 25.4	195	55	55	63.4	SKC25	6.00

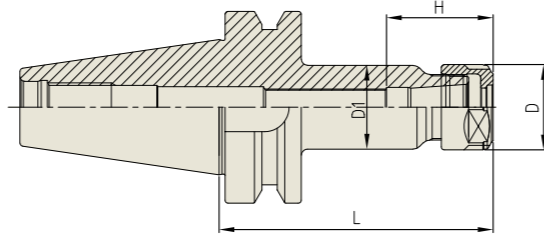
▶ Inch type products are available.
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

BT (JIS B6339/MAS 403)

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



JIS B6339 -BT	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	L	D	D1	H	COLLET	WEIGHT (Kg)
30	BT30-SKA06-60	1.8 - 6.0	60	20	19.5	31	SKC6	0.70
	BT30-SKA06-90	1.8 - 6.0	90	20	19.5	31	SKC6	0.80
	BT30-SKA10-60	1.75 - 10.0	60	28	27.5	35	SKC10	0.90
	BT30-SKA10-90	1.75 - 10.0	90	28	27.5	35	SKC10	1.00
	BT30-SKA13-60	2.75 - 13.0	60	33	33	43.6	SKC13	1.00
	BT30-SKA13-90	2.75 - 13.0	90	33	33	43.6	SKC13	1.10
	BT30-SKA16-60	2.75 - 16.0	60	40	40	52	SKC16	1.10
	BT30-SKA16-90	2.75 - 16.0	90	40	40	52	SKC16	1.20
	BT30-SKA20-60	3.5 - 20.0	60	48.5	40	59.6	SKC20	1.30
	BT30-SKA20-90	3.5 - 20.0	90	48.5	40	59.6	SKC20	1.40
	BT30-SKA25-90	16.0 - 25.4	90	55	45	63.4	SKC25	1.50
	40	BT40-SKA06-90	1.8 - 6.0	90	20	19.5	31	SKC6
BT40-SKA06-120		1.8 - 6.0	120	20	19.5	31	SKC6	1.40
BT40-SKA06-150		1.8 - 6.0	150	20	19.5	31	SKC6	1.50
BT40-SKA10-90		1.75 - 10.0	90	28	27.5	35	SKC10	1.20
BT40-SKA10-120		1.75 - 10.0	120	28	27.5	35	SKC10	1.40
BT40-SKA10-150		1.75 - 10.0	150	28	27.5	35	SKC10	1.60
BT40-SKA13-90		2.75 - 13.0	90	33	33	43.6	SKC13	1.40
BT40-SKA13-120		2.75 - 13.0	120	33	33	43.6	SKC13	1.60
BT40-SKA13-150		2.75 - 13.0	150	33	33	43.6	SKC13	1.80
BT40-SKA16-90		2.75 - 16.0	90	40	40	52	SKC16	1.50
BT40-SKA16-120		2.75 - 16.0	120	40	40	52	SKC16	1.70
BT40-SKA16-150		2.75 - 16.0	150	40	40	52	SKC16	1.90
40	BT40-SKA20-90	3.5 - 20.0	90	48.5	48.5	59.6	SKC20	1.60
	BT40-SKA20-120	3.5 - 20.0	120	48.5	48.5	59.6	SKC20	2.00
	BT40-SKA20-150	3.5 - 20.0	150	48.5	48.5	59.6	SKC20	2.40
	BT40-SKA25-90	16.0 - 25.4	90	55	55	63.4	SKC25	1.80
	BT40-SKA25-120	16.0 - 25.4	120	55	55	63.4	SKC25	2.00
	BT40-SKA25-150	16.0 - 25.4	150	55	55	63.4	SKC25	2.30

▶ Inch type products are available.
▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

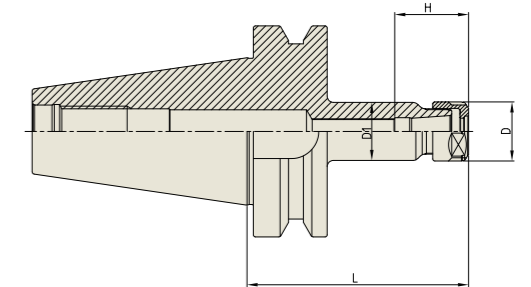
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BT (JIS B6339/MAS 403)

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



JIS B6339 -BT	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	L	D	D1	H	COLLET	WEIGHT (Kg)
50	BT50-SKA06-105	1.8 - 6.0	105	20	19.5	31	SKC6	3.80
	BT50-SKA06-135	1.8 - 6.0	135	20	19.5	31	SKC6	3.90
	BT50-SKA06-165	1.8 - 6.0	165	20	19.5	31	SKC6	4.00
	BT50-SKA06-195	1.8 - 6.0	195	20	19.5	31	SKC6	4.20
	BT50-SKA10-105	1.75 - 10.0	105	28	27.5	35	SKC10	4.20
	BT50-SKA10-135	1.75 - 10.0	135	28	27.5	35	SKC10	4.40
	BT50-SKA10-165	1.75 - 10.0	165	28	27.5	35	SKC10	4.60
	BT50-SKA10-195	1.75 - 10.0	195	28	27.5	35	SKC10	4.80
	BT50-SKA13-105	2.75 - 13.0	105	33	33	43.6	SKC13	4.50
	BT50-SKA13-135	2.75 - 13.0	135	33	33	43.6	SKC13	4.70
	BT50-SKA13-165	2.75 - 13.0	165	33	33	43.6	SKC13	4.90
	BT50-SKA13-195	2.75 - 13.0	195	33	33	43.6	SKC13	5.20
	BT50-SKA16-105	2.75 - 16.0	105	40	40	52	SKC16	4.70
	BT50-SKA16-135	2.75 - 16.0	135	40	40	52	SKC16	4.90
	BT50-SKA16-165	2.75 - 16.0	165	40	40	52	SKC16	5.10
	BT50-SKA16-195	2.75 - 16.0	195	40	40	52	SKC16	5.50
	BT50-SKA20-105	3.5 - 20.0	105	48.5	48.5	59.6	SKC20	4.30
	BT50-SKA20-135	3.5 - 20.0	135	48.5	48.5	59.6	SKC20	4.60
	BT50-SKA20-165	3.5 - 20.0	165	48.5	48.5	59.6	SKC20	5.00
	BT50-SKA20-195	3.5 - 20.0	195	48.5	48.5	59.6	SKC20	5.40
	BT50-SKA25-105	16.0 - 25.4	105	55	55	63.4	SKC25	5.20
	BT50-SKA25-135	16.0 - 25.4	135	55	55	63.4	SKC25	5.40
	BT50-SKA25-165	16.0 - 25.4	165	55	55	63.4	SKC25	5.60
	BT50-SKA25-195	16.0 - 25.4	195	55	55	63.4	SKC25	6.00

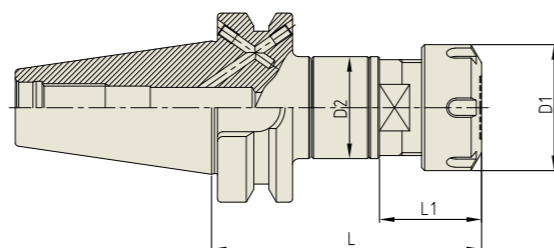
▶ Inch type products are available.
▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

BT (JIS B6339/MAS 403)

SYNCHRO TAPPING CHUCK (ER TYPE)

SYTER

SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



JIS B6339 -BT	Taper Accuracy AT3	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	TAP SIZE	NUT / COLLET	D1	D2	L	L1	TENSION/ COMPRESSION	WEIGHT (Kg)
30	BT30AD/B-SYTER12-85	M3-M12	ER16	28	34	85	26	±0.2	-
	BT30AD/B-SYTER20-95	M3-M20	ER25	42	34	95	34	±0.2	-
	BT30AD/B-SYTER27-90	M4-M27	ER32	50	45	90	31	±0.2	-
40	BT40AD/B-SYTER12-79	M3-M12	ER16	28	34	79	26	±0.2	1.14
	BT40AD/B-SYTER16-85	M3-M16	ER20	34	34	85	27	±0.2	1.17
	BT40AD/B-SYTER20-90	M3-M20	ER25	42	34	90	34	±0.2	1.17
	BT40AD/B-SYTER27-100	M4-M27	ER32	50	45	100	31	±0.2	1.45
50	BT40AD/B-SYTER33-125	M4-M33	ER40	63	62	125	35	±0.2	2.40
	BT50AD/B-SYTER12-100	M3-M12	ER16	28	34	100	26	±0.2	3.79
	BT50AD/B-SYTER16-100	M3-M16	ER20	34	34	100	27	±0.2	3.79
	BT50AD/B-SYTER20-100	M3-M20	ER25	42	34	100	34	±0.2	3.75
	BT50AD/B-SYTER27-110	M4-M27	ER32	50	45	110	31	±0.2	3.99
BT50AD/B-SYTER33-125	M4-M33	ER40	63	62	125	35	±0.2	4.75	

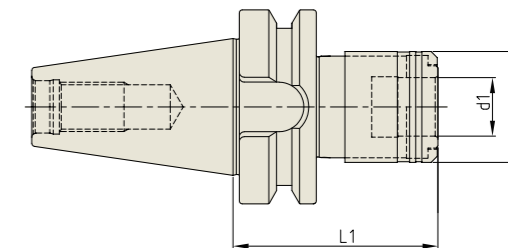
- Feature :
- Compensation for synchronization errors to extend tap life and to improve thread quality.
 - To compensate for pitch tolerances of taps.
 - For machine with synchronized spindle
- Inch type products are available.
- ER collet of page 314~320, and Tap ER collet of page 321~322 are applicable.

BT (JIS B6339/MAS 403)

ONE STEP TAPPING CHUCK

OTC

GEWINDE-SCHNELLWECHSELFUTTER
MANDRIN DE TARAUDAGE À CHANGEMENT RAPIDE
PORTAMASCHI A CAMBIO RAPIDO
MANDRINO DE CAMBIO RÁPIDO CON ROSCA



JIS B6339 -BT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L1	LENGTH COMPENSATION		WEIGHT (Kg)
					Compression	Tension	
40	BT40-OTC-M3-M12-66.5	19	36	66.5	7.5	7.5	1.10
	BT40-OTC-M8-M20-93.5	31	53	93.5	12.5	12.5	1.50
	BT40-OTC-M14-M36-162.5	48	78	162.5	20	20	3.30
50	BT50-OTC-M3-M12-85	19	36	85	7.5	7.5	3.00
	BT50-OTC-M8-M20-101.5	31	53	101.5	12.5	12.5	3.30
	BT50-OTC-M14-M36-141	48	78	141	20	20	5.20

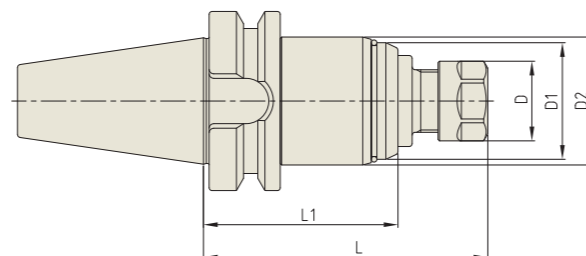
► For applicable Tap Adaptor, please refer to the page 336~337.

BT (JIS B6339/MAS 403)

TAPPING ER CHUCK



ER - GEWINDESCHNEIDFUTTER
 MANDRIN DE TARAUDAGE PINCE ER
 MANDRINI PORTAPINZA ER PER MASCHIATURA
 PORTAPINZAS ER PARA MACHOS



JIS B6339 -BT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT / COLLET	WEIGHT (Kg)
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
50	BT40-TER32-150	50	58	63	150	112	ER32	2.70
	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

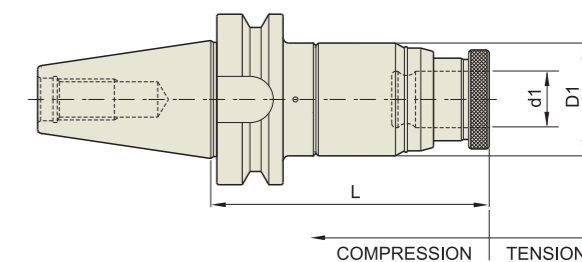
▶ Inch type products are available.
 ▶ ER collet of page 314~320 and Tap ER collet of page 321~322 are applicable.

BT (JIS B6339/MAS 403)

TAPPING CHUCK



GEWINDESCHNEID - SCHNELLWECHSELFUTTER
 TARAUDER À CHANGEMENT RAPIDE
 MANDRINO PER MASCHIARE
 PORTAMACHOS DE CAMBIO RAPIDO



JIS B6339 -BT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	TAP SIZE	TAP ADAPTOR	LENGTH COMPENSATION		d1	D1	L	WEIGHT (Kg)
				Compression	Tension				
30	BT30-TC12-105	M3-M12	TCS12	5	15	19	45	105	1.00
40	BT40-TC12-90	M3-M12	TCS12	5	15	19	45	95	1.50
	BT40-TC12-130	M3-M12	TCS12	5	15	19	45	130	1.60
	BT40-TC24-100	M6-M24	TCS24	5	20	31	63	100	2.10
50	BT40-TC24-142	M6-M24	TCS24	5	20	31	63	142	2.90
	BT50-TC12-130	M3-M12	TCS12	5	15	19	45	130	4.20
	BT50-TC12-175	M3-M12	TCS12	5	15	19	45	175	4.80
	BT50-TC12-220	M3-M12	TCS12	5	15	19	45	220	5.10
	BT50-TC24-142	M6-M24	TCS24	5	20	31	63	142	5.80
	BT50-TC24-187	M6-M24	TCS24	5	20	31	63	187	6.00
	BT50-TC38-175	M18-M38	TCS38	10	25	48	98	175	8.30

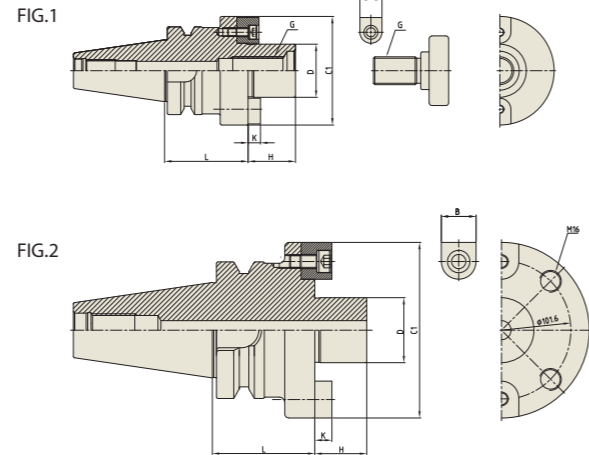
▶ Inch type products are available.
 ▶ For applicable Tap Adaptor, please refer to page 336~337.

BT (JIS B6339/MAS 403)

FACE MILL ARBOR



AUFNAHMEDORN FÜR MESSERKÖPFE
ARBRE PORTE FRAISE À ALÉSAGE
MANDRINO PORTA FRESE FRONTALE
EJE PARA PLATOS DE PLACAS



JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	D	L	C1	H	B	K	G	FIG.	WEIGHT (Kg)
30	BT30-FMA25.4-45	25.4	45	50	22	9.52	4.8	M12	1	1.10
	BT30-FMA31.75-45	31.75	45	60	30	12.7	6.35	M16	1	1.20
40	BT40-FMA25.4-45	25.4	45	50	22	9.52	4.8	M12	1	1.50
	BT40-FMA25.4-90	25.4	90	50	22	9.52	4.8	M12	1	3.10
	BT40-FMA31.75-45	31.75	45	60	30	12.7	6.35	M16	1	1.90
	BT40-FMA31.75-75	31.75	75	60	30	12.7	6.35	M16	1	2.70
	BT40-FMA38.1-60	38.1	60	80	34	15.87	8.87	M20	1	2.90
	BT50-FMA25.4-45	25.4	45	50	22	9.52	4.8	M12	1	3.70
50	BT50-FMA25.4-90	25.4	90	50	22	9.52	4.8	M12	1	4.60
	BT50-FMA25.4-150	25.4	150	50	22	9.52	4.8	M12	1	5.50
	BT50-FMA31.75-45	31.75	45	60	30	12.7	6.35	M16	1	4.50
	BT50-FMA31.75-75	31.75	75	60	30	12.7	6.35	M16	1	5.30
	BT50-FMA31.75-105	31.75	105	60	30	12.7	6.35	M16	1	5.80
	BT50-FMA31.75-150	31.75	150	60	30	12.7	6.35	M16	1	6.30
	BT50-FMA38.1-45	38.1	45	80	34	15.87	8.87	M20	1	4.30
	BT50-FMA38.1-75	38.1	75	80	34	15.87	8.87	M20	1	5.60
	BT50-FMA38.1-105	38.1	105	80	34	15.87	8.87	M20	1	6.00
	BT50-FMA38.1-150	38.1	150	80	34	15.87	8.87	M20	1	6.50
	BT50-FMA50.8-45	50.8	45	98	36	19.05	11	M24	1	4.90
	BT50-FMA50.8-75	50.8	75	98	36	19.05	11	M24	1	6.80
	BT50-FMA47.625-75	47.625	75	128.57	38	25.4	12.5	-	2	7.70

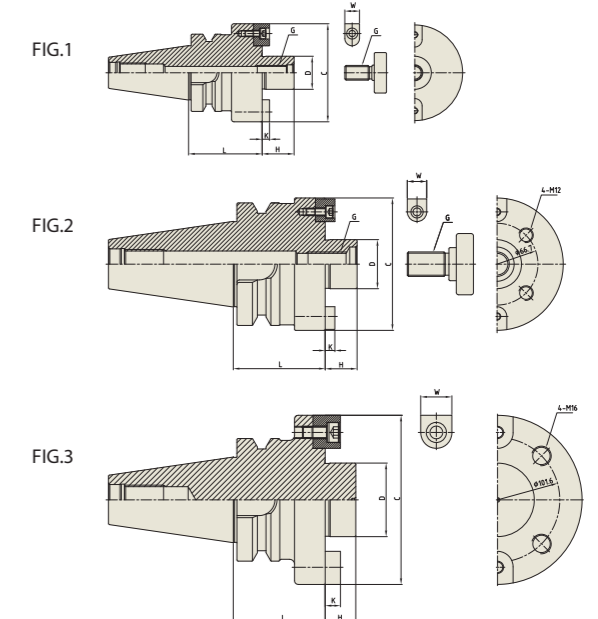
▶ CAT(ASME B5.50) taper products are available.
▶ For parts, please refer to page 331.

BT (JIS B6339/MAS 403)

FACE MILL ARBOR



AUFNAHMEDORN FÜR MESSERKÖPFE
ARBRE PORTE FRAISE À ALÉSAGE
MANDRINO PORTA FRESE FRONTALE
EJE PARA PLATOS DE PLACAS



JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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Unit : mm

◆ METRIC TYPE

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	WEIGHT (Kg)
30	BT30-FMB27-45	27	45	80	26	12	6	M12	1	2.10
	BT40-FMB27-60	27	60	80	26	12	6	M12	1	2.50
40	BT40-FMB27-90	27	90	80	26	12	6	M12	1	4.70
	BT40-FMB40-60	40	60	85	26	15.875	7	M20	1	7.40
	BT50-FMB27-45	27	45	80	26	12	6	M12	1	4.00
50	BT50-FMB27-90	27	90	80	26	12	6	M12	1	5.80
	BT50-FMB27-150	27	150	80	26	12	6	M12	1	8.20
	BT50-FMB40-45	40	45	85	26	15.875	7.8	M20	1	4.70
	BT50-FMB40-75	40	75	85	26	15.875	7	M20	1	6.10
	BT50-FMB40-105	40	105	85	26	15.875	7	M20	1	8.10
	BT50-FMB40F-75	40	75	108	26	15.875	7.87	M20	2	6.60
BT50-FMB60-75	60	75	138	25	25.4	12.5	-	3	7.90	

◆ INCH TYPE

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	WEIGHT (Kg)
30	BT30-FMB25.4-45	25.4	45	80	26	9.5	5	M12	1	2.10
	BT40-FMB25.4-60	25.4	60	80	26	9.5	5	M12	1	2.50
40	BT40-FMB25.4-90	25.4	90	80	26	9.5	5	M12	1	4.70
	BT40-FMB38.1-60	38.1	60	85	26	15.9	9	M20	1	7.40
	BT50-FMB25.4-45	25.4	45	80	26	9.5	5	M12	1	4.00
50	BT50-FMB25.4-90	25.4	90	80	26	9.5	5	M12	1	5.80
	BT50-FMB25.4-150	25.4	150	80	26	9.5	5	M12	1	8.20
	BT50-FMB38.1-45	38.1	45	85	26	15.9	9	M20	1	4.70
	BT50-FMB38.1-75	38.1	75	85	26	15.9	9	M20	1	6.10
	BT50-FMB38.1-105	38.1	105	85	26	15.9	9	M20	1	8.70
	BT50-FMB38.1F-75	38.1	75	110	26	15.9	9	M20	2	6.60

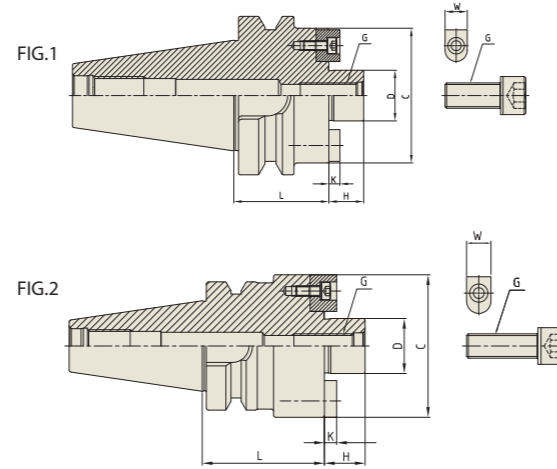
▶ CAT(ASME B5.50) taper products are available.
▶ Fig. 3 : Without "Coolant Through."
▶ For parts, please refer to page 331.

BT (JIS B6339/MAS 403)

FACE MILL ARBOR

FMC

AUFNAHMEDORN FÜR MESSERKÖPFE
ARBRE PORTE FRAISE À ALÉSAGE
MANDRINO PORTA FRESE FRONTALE
EJE PARA PLATOS DE PLACAS



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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◆ METRIC TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	WEIGHT (Kg)
30	BT30-FMC22-45	22	45	45	18	10	5	M10	1	0.80
	BT30-FMC22-60	22	60	45	18	10	5	M10	1	1.00
40	BT40-FMC16-90	16	90	34	17	8	4	M8	1	-
	BT40-FMC22-45	22	45	45	18	10	5	M10	1	1.30
	BT40-FMC22-90	22	90	45	18	10	5	M10	1	1.84
	BT40-FMC22-105	22	105	45	18	10	5	M10	1	2.02
	BT40-FMC27-60	27	60	70	20	12	6	M12	2	1.50
	BT40-FMC32-60	32	60	83	22	14	7	M16	2	2.30
	BT50-FMC22-60	22	60	45	18	10	5	M10	1	4.20
50	BT50-FMC22-105	22	105	45	18	10	5	M10	1	4.70
	BT50-FMC22-150	22	150	45	18	10	5	M10	1	5.30
	BT50-FMC27-45	27	45	70	20	12	6	M12	1	4.10
	BT50-FMC27-90	27	90	70	20	12	6	M12	1	5.50
	BT50-FMC27-150	27	150	70	20	12	6	M12	1	7.30
	BT50-FMC32-60	32	60	85	22	14	7	M16	1	4.20
	BT50-FMC32-105	32	105	85	22	14	7	M16	1	5.50
	BT50-FMC32-150	32	150	85	22	14	7	M16	1	7.00

◆ INCH TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	WEIGHT (Kg)
30	BT30-FMC25.4-45	25.4	45	70	20	12	6	M12	2	1.10
	BT40-FMC25.4-60	25.4	60	70	20	9.5	6	M12	2	1.50
40	BT40-FMC25.4-90	25.4	90	70	20	9.5	6	M12	2	2.20
	BT40-FMC38.1-60	38.1	60	85	22	15.9	7	M16	2	2.30
	BT40-FMC38.1-75	38.1	75	85	22	15.9	7	M16	2	2.60
50	BT50-FMC25.4-45	25.4	45	70	20	9.5	6	M12	1	4.10
	BT50-FMC25.4-90	25.4	90	70	20	9.5	6	M12	1	5.50
	BT50-FMC25.4-150	25.4	150	70	20	9.5	6	M12	1	7.30
	BT50-FMC38.1-45	38.1	45	85	22	15.9	7	M16	1	4.20
	BT50-FMC38.1-75	38.1	75	85	22	15.9	7	M16	1	5.50
	BT50-FMC38.1-105	38.1	105	85	22	15.9	7	M16	1	7.00

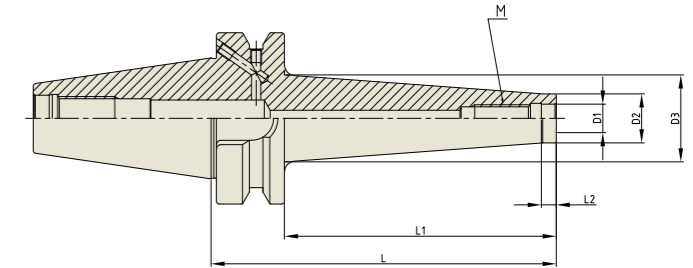
▶ CAT(ASME B5.50) taper products are available.
▶ For parts, please refer to page 331.

BT (JIS B6339/MAS 403)

COPY MILL ARBOR

M

WERKZEUGAUFNAHME FÜR EINSCHRAUBFRÄSER MIT GEWINDE
MANDRIN POUR FRAISES À QUEUE FILETÉE AVEC FILETAGE
MANDRINO PER FRESE MODULARI FILETTATE
PORTAHERRAMIENTAS PARA FRESAS DE ENROSCAR CON ROSCA



JIS B6339 -BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at I.D.) ≤3μm	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No. (M-L1)	D1	D2	D3	L	L1	L2	WEIGHT (Kg)
40	BT40AD/B-M6-25	6.5	10	13	52	25	5	0.94
	BT40AD/B-M6-50	6.5	10	20	77	50	5	0.99
	BT40AD/B-M6-75	6.5	10	23	102	75	5	1.04
	BT40AD/B-M8-25	8.5	13	15	52	25	5	0.95
	BT40AD/B-M8-50	8.5	13	23	77	50	5	1.01
	BT40AD/B-M8-75	8.5	13	23	102	75	5	1.05
	BT40AD/B-M10-25	10.5	18	20	52	25	5	0.97
	BT40AD/B-M10-50	10.5	18	23	77	50	5	1.04
	BT40AD/B-M10-75	10.5	18	32	102	75	5	1.28
	BT40AD/B-M12-25	12.5	21	15	52	25	5	0.98
	BT40AD/B-M12-75	12.5	21	23	102	75	5	1.22
	BT40AD/B-M12-125	12.5	21	23	152	125	5	1.50
	BT40AD/B-M16-25	17	29	29	52	25	5	1.01
	BT40AD/B-M16-75	17	29	34	102	75	5	1.32
BT40AD/B-M16-125	17	29	40	152	125	5	1.75	
50	BT50AD/B-M8-50	8.5	13	23	88	50	5	3.51
	BT50AD/B-M10-50	10.5	18	23	88	50	5	3.54
	BT50AD/B-M10-100	10.5	18	32	138	100	10	3.77
	BT50AD/B-M12-50	12.5	21	24	88	50	10	3.55
	BT50AD/B-M12-100	12.5	21	33	138	100	10	3.82
	BT50AD/B-M16-50	17	29	29	88	50	10	3.63
	BT50AD/B-M16-100	17	29	36	138	100	10	3.98
	BT50AD/B-M16-150	17	29	42.5	188	150	10	4.48

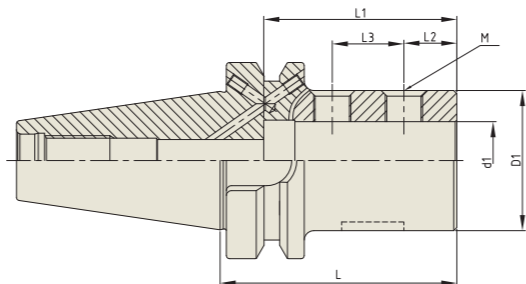
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1 gmm.
▶ For the screw-in milling cutters with thread.

BT (JIS B6339/MAS 403)

INDEXABLE DRILL HOLDER

SL

WERKZEUGHALTER FÜR VOLLBOHRER
 MANDRIN POUR FORETS À PLAQUETTES
 MANDRINO PER PUNTE A INSERTI
 SOPORTE PARA HERRAMIENTAS PARA BROCAS DE ACERO MACIZO



JIS B6339 -BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD/B
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Unit : mm

TAPER No.	MODEL No.	d1	D1	L	L1	L2	L3	M	WEIGHT (Kg)
40	BT40AD/B-SL20-72	20	40	72	54	15	20	M10	1.09
	BT40AD/B-SL25-76	25	45	76	62	17	23	M12	1.11
	BT40AD/B-SL32-80	32	52	80	67	17	27	M12	1.17
	BT40AD/B-SL40-100	40	60	100	73	22	28	M16	1.67
50	BT50AD/B-SL20-90	20	40	90	54	15	20	M10	3.74
	BT50AD/B-SL25-90	25	45	90	59	17	23	M12	3.81
	BT50AD/B-SL32-90	32	52	90	70	17	27	M12	3.90
	BT50AD/B-SL40-100	40	60	100	80	22	28	M16	4.12

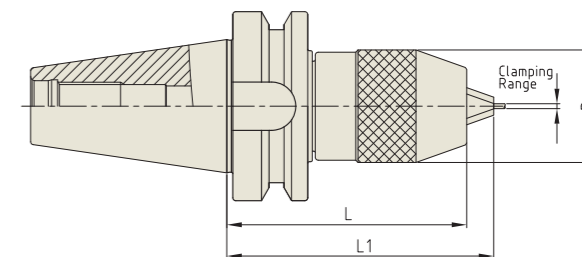
► For the indexable drills with parallel shank.

BT (JIS B6339/MAS 403)

NC DRILL CHUCK (KEYLESS TYPE)

NPU

NC - BOHRFUTTER
 MANDRIN DE PERÇAGE NC
 NC MANDRINI PORTA PUNTE
 PORTABROCAS PARA BROCAS NC



JIS B6339 -BT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L (Min.)	L1 (Max.)	WEIGHT (Kg)
30	BT30-NPU8-75	0.3 - 8.0	36.5	75	80.7	0.80
	BT30-NPU13-105	0.3 - 13.0	50.4	105	115	1.80
40	BT40-NPU8-80	0.3 - 8.0	36.5	80	85.7	1.50
	BT40-NPU8-110	0.3 - 8.0	36.5	110	115.7	1.80
	BT40-NPU8-150	0.3 - 8.0	36.5	150	155.7	2.60
	BT40-NPU13-95	0.3 - 13.0	50.4	95	100.7	2.10
	BT40-NPU13-130	0.3 - 13.0	50.4	130	140	2.70
	BT40-NPU13-150	0.3 - 13.0	50.4	150	160	3.40
50	BT50-NPU8-90	0.3 - 8.0	36.5	90	95.7	4.20
	BT50-NPU8-110	0.3 - 8.0	36.5	110	115.7	4.50
	BT50-NPU8-170	0.3 - 8.0	36.5	170	180.7	5.20
	BT50-NPU13-105	0.3 - 13.0	50.4	105	115	4.80
	BT50-NPU13-130	0.3 - 13.0	50.4	130	140	5.20
	BT50-NPU13-150	0.3 - 13.0	50.4	150	160	5.50
	BT50-NPU13-190	0.3 - 13.0	50.4	190	200	5.90

► Supplied with hook wrench. (Size NPU 8 : 8S, NPU 13 : 13S)

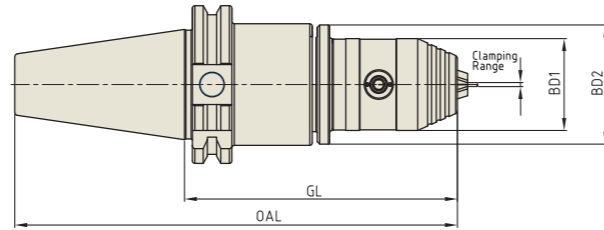
BT (JIS B6339/MAS 403)

NC DRILL CHUCK (HEX. KEY TYPE)

NEW

HKD

NC - BOHRFUTTER
MANDRIN DE PERÇAGE NC
NC MANDRINI PORTA PUNTE
PORTABROCAS PARA BROCAS NC



JIS B6339 - BT	Taper Accuracy AT3	Coolant System AD or AD/B
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	OAL	GL	BD1	BD2	WEIGHT (Kg)
40	BT40-HKD8-90	0.3 - 8.0	155.4	90	37	48	-
	BT40-HKD13-110	0.3 - 13.0	175.4	110	50.1	50.1	-
	BT40AD/B-HKD8-120	0.3 - 8.0	185.4	120	37	48	-
	BT40AD/B-HKD13-140	0.3 - 13.0	205.4	140	50.1	50.1	-

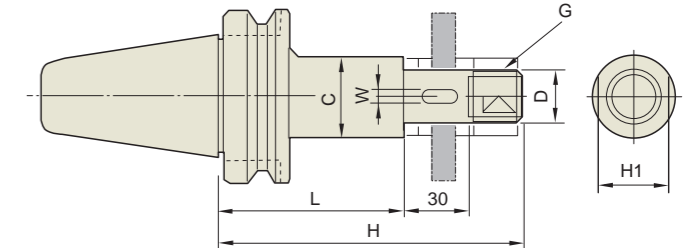
► Supplied with hex. wrench. (Size HKD 8 : 4mm, HKD 13 : 6mm)

BT (JIS B6339/MAS 403)

SIDE CUTTER ARBOR

SCA

SEITENSCHNEIDER LAUBE
TONNELLE PINCE COUPANTE
LATO CUTTER PERGOLATO
LADO DEL EJE DE CORTE



JIS B6339 - BT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	H	H1	C	W	G	D	L	WEIGHT (Kg)
30	BT30-SCA12.7-60	105	17	20	-	M12	12.7	60	1.00
	BT30-SCA15.875-60	106	23	26	3.18	M14	15.875	60	1.10
	BT30-SCA22.225-60	110	29	34	3.18	M20	22.225	60	1.20
	BT30-SCA25.4-60	115	32	40	6.35	M24	25.4	60	1.30
40	BT40-SCA12.7-75	120	17	20	-	M12	12.7	75	1.20
	BT40-SCA12.7-105	150	17	20	-	M12	12.7	105	1.30
	BT40-SCA15.875-75	121	23	26	3.18	M14	15.875	75	1.40
	BT40-SCA15.875-120	151	23	26	3.18	M14	15.875	120	1.50
	BT40-SCA22.225-75	126	29	34	3.18	M20	22.225	75	1.70
	BT40-SCA22.225-120	171	29	34	3.18	M20	22.225	120	2.00
	BT40-SCA25.4-75	130	32	40	6.35	M24	25.4	75	2.00
	BT40-SCA25.4-120	175	32	40	6.35	M24	25.4	120	2.40
50	BT40-SCA31.75-90	150	41	46	7.92	M30	31.75	90	2.60
	BT50-SCA12.7-75	120	17	20	-	M12	12.7	75	4.10
	BT50-SCA12.7-105	150	17	20	-	M12	12.7	105	4.20
	BT50-SCA15.875-90	136	23	26	3.18	M14	15.875	90	4.20
	BT50-SCA15.875-120	166	23	26	3.18	M14	15.875	120	4.20
	BT50-SCA22.225-90	144	29	34	3.18	M20	22.225	90	4.40
	BT50-SCA22.225-135	186	29	34	3.18	M20	22.225	135	4.70
	BT50-SCA25.4-90	145	32	40	6.35	M24	25.4	90	4.50
	BT50-SCA25.4-135	190	32	40	6.35	M24	25.4	135	4.90
	BT50-SCA31.75-90	150	41	46	7.92	M30	31.75	90	4.70
50	BT50-SCA31.75-135	195	41	46	7.92	M30	31.75	135	5.20
	BT50-SCA38.1-90	156	46	55	9.52	M36	38.1	90	4.90
	BT50-SCA38.1-135	201	46	55	9.52	M36	38.1	135	5.90

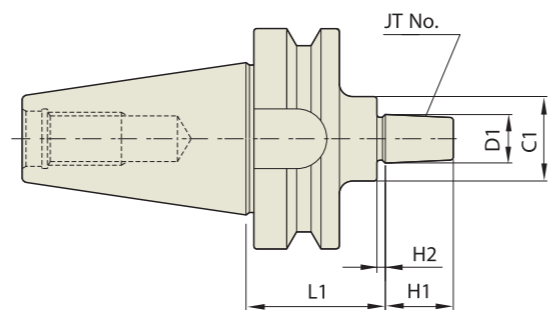
► CAT(ASME B5.50) taper products are available.

BT (JIS B6339/MAS 403)

JACOBS TAPER ARBOR

JTA

JACOBS KEGELZAPFEN ADAPTER
 JACOBS ADAPTEUR DE CÔNE
 JACOBS ADATTATORE DEL CONO
 JACOBS ADAPTADOR DE LA FORMA CONICA



JIS B6339 - BT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	JT No.	D1	L1	H1	H2	C1	WEIGHT (Kg)
30	BT30-JTA1-45	1	9.754	45	14	3	30	0.90
	BT30-JTA2-45	2	14.199	45	20	4	30	1.00
	BT30-JTA6-45	6	17.17	45	24	4	30	1.00
40	BT40-JTA1-45	1	9.754	45	14	3	30	1.10
	BT40-JTA1-90	1	9.754	90	14	3	30	1.10
	BT40-JTA2S-45	2(SHORT)	13.94	45	18	3	30	1.40
	BT40-JTA2S-90	2(SHORT)	13.94	90	18	3	30	1.40
	BT40-JTA2-45	2	14.199	45	20	4	30	1.10
	BT40-JTA2-90	2	14.199	90	20	4	30	1.40
	BT40-JTA33-45	33	15.85	45	24	4	30	1.10
	BT40-JTA33-90	33	15.85	90	24	4	30	1.40
	BT40-JTA6-45	6	17.17	45	24	4	30	1.10
	BT40-JTA6-90	6	17.17	90	24	4	30	1.40
	BT40-JTA3-45	3	20.599	45	28	5	35	1.20
	BT40-JTA3-90	3	20.599	90	28	5	35	1.50
50	BT50-JTA1-45	1	9.754	45	14	3	30	4.00
	BT50-JTA1-105	1	9.754	105	14	3	30	4.40
	BT50-JTA2S-45	2(SHORT)	13.94	45	18	3	30	4.00
	BT50-JTA2S-105	2(SHORT)	13.94	105	18	3	30	4.40
	BT50-JTA2-45	2	14.199	45	20	4	30	4.00
	BT50-JTA2-105	2	14.199	105	20	4	30	4.40
	BT50-JTA33-45	33	15.85	45	24	4	30	4.00
	BT50-JTA33-105	33	15.85	105	24	4	30	4.40
	BT50-JTA6-45	6	17.17	45	24	4	30	4.00
	BT50-JTA6-105	6	17.17	105	24	4	30	4.40
	BT50-JTA3-45	3	20.599	45	28	5	35	4.00
	BT50-JTA3-105	3	20.599	105	28	5	35	4.60

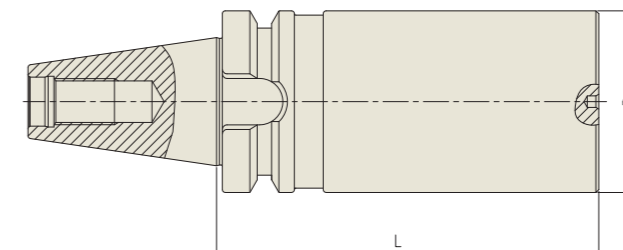
▶ CAT(ASME B5.50) taper and Inch type products are available.

BT (JIS B6339/MAS 403)

BLANK BAR

BL

BOHRSTANGENROHLING
 EBAUCHE DE BARRES D ALÉSAGE
 BARRA ALESATRICE GREZZA
 PIEZA EN BRUTO PARA BARRAS DE MANDRINAR



JIS B6339 - BT	Taper Accuracy AT3	Coolant System A
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Unit : mm

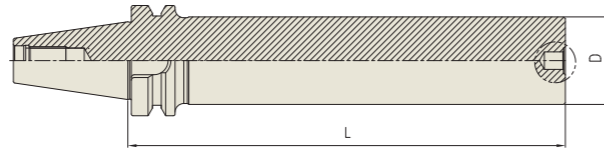
TAPER No.	MODEL No.	D	L	WEIGHT(Kg)
40	BT40-BL63-250	63	250	6.37
50	BT50-BL97-315	97	315	19.60

BT (JIS B6339/MAS 403)

TEST BAR

TB

KONTROLLDORN
 MANDRIN DE CONTRÔLE
 MANDRINO DI CONTROLLO
 MANDRIL DE CONTROL



JIS B6339 -BT	Taper Accuracy AT3	Run-Out ≤3μm	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	D	L	WEIGHT(Kg)
40	BT40-TB40-300	40	300	4.59
50	BT50-TB50-300	50	300	6.88

SSK TOOLING SYSTEM

HSK (DIN 69893/ISO 12164)

- HYDRAULIC CHUCK 174-181P
- SHRINK FIT HOLDER 182-195P
- ER COLLET CHUCK 196-203P
- END MILL HOLDER 204-207P
- SHELL MILL ARBOR 208-211P
- COMBI-SHELL MILL ARBOR 212P
- POWER MILLING CHUCK 213-214P
- MORSE TAPER ARBOR 215P
- SK SLIM CHUCK 216-218P
- SYNCHRO TAPPING CHUCK 219-220P
- ONE STEP TAPPING CHUCK 221P
- TAPPING ER CHUCK 222P
- TAPPING CHUCK 223P
- FACE MILL ARBOR 224-225P
- COPY MILL ARBOR 226P
- INDEXABLE DRILL HOLDER 227P
- NC DRILL CHUCK 228-229P
- BLANK BAR 230P
- TEST BAR 230P



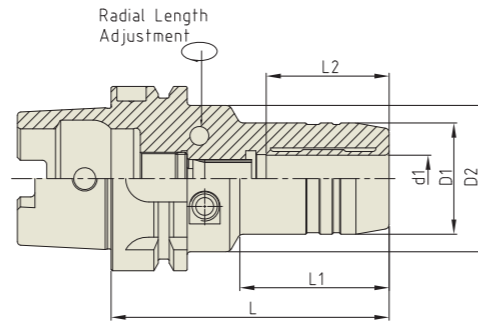
SSK

HSK-A (DIN 69893/ISO 12164)

HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)

HCR

HYDRAULIK SPANNFUTTER (RADIALE WERKZEUGLÄGEN VOREINSTELLUNG)
 MANDRIN HYDRAULIQUE (BANC DE PRÉ-RÉGLAGE RADIAL)
 MANDRINI IDRAULICI (UTENSILI RADIALI PER AZZERAMENTO)
 PORTAHERRAMIENTAS HIDRAULICO (AJUSTE DE LONGITUD TIPO PRE-SETTING)



DIN 69893 - HSK	G Value	RPM	Run-Out (at 3D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
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	40	80	35	27	0.70
	HSK50A-HCR8-80	8	28	40	80	36	27	0.70
	HSK50A-HCR10-85	10	30	40	85	38	32	0.73
	HSK50A-HCR12-90	12	32	40	90	40	37	0.80
	HSK50A-HCR14-90	14	34	40	90	40	42	0.80
	HSK50A-HCR16-95	16	38	53	95	36.5	42	1.00
	HSK50A-HCR18-95	18	40	57	95	36.5	42	1.00
	HSK50A-HCR20-100	20	42	60	100	39	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

- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

HSK-A (DIN 69893/ISO 12164)

HYDRAULIC CHUCK (Power E Hydro)

HCP

HYDRAULIK SPANNFUTTER (POWER E HYDRO)
 MANDRIN HYDRAULIQUE (POWER E HYDRO)
 MANDRINI IDRAULICI (POWER E HYDRO)
 PORTAHERRAMIENTAS HIDRAULICO (POWER E HYDRO)

FIG.1

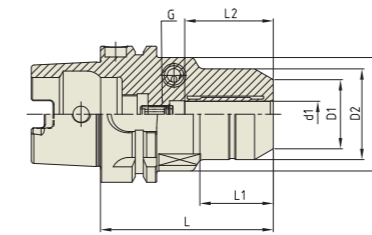
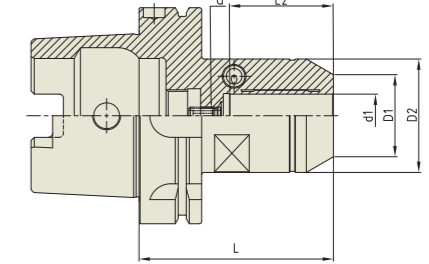


FIG.2



DIN 69893 - HSK	G Value	RPM	Run-Out (at 3D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	D3	L	L1	L2	G	FIG.	WEIGHT (Kg)
63A	HSK63A-HC12P-80	12	32	42	52.5	80	34	41	M8x1.0	1	1.20
	HSK63A-HC20P-80	20	38	52.5	-	80	-	48	M8x1.0	2	1.30
100A	HSK100A-HC20P-90	20	38	52.5	-	90	-	48	M8x1.0	2	2.80
	HSK100A-HC32P-100	32	58.5	72	-	100	-	57	M8x1.0	2	3.70

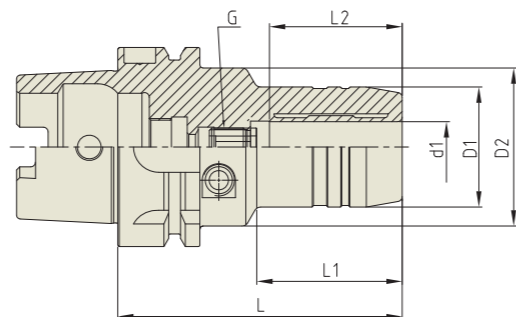
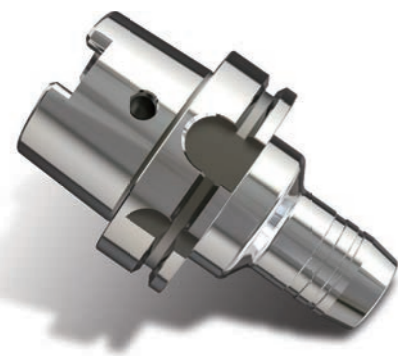
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

HSK-A (DIN 69893/ISO 12164)

HYDRAULIC CHUCK (STANDARD)

HC

HYDRAULIK SPANNFUTTER (STANDARD)
 MANDRIN HYDRAULIQUE (STANDARD)
 MANDRINI IDRAULICI (STANDARD)
 PORTAHERRAMIENTAS HIDRAULICO (ESTÁNDAR)



DIN 69893 - HSK	G Value	RPM	Run-Out (at 3D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
32A	HSK32A-HC6-80	6	26	40	80	29	27	M5×0.8	0.30
	HSK32A-HC8-80	8	28	40	80	29	27	M6×1.0	0.30
	HSK32A-HC10-85	10	30	40	85	35	32	M6×1.0	0.30
	HSK32A-HC12-90	12	32	40	90	40	37	M6×1.0	0.30
40A	HSK40A-HC6-70	6	26	34	70	36	27	M5×0.8	0.50
	HSK40A-HC8-70	8	28	34	70	36	27	M6×1.0	0.50
	HSK40A-HC10-75	10	30	34	75	42	32	M6×1.0	0.60
	HSK40A-HC12-80	12	32	34	80	48	37	M6×1.0	0.65
	HSK50A-HC6-70	6	26	40	70	28	27	M5×0.8	0.65
50A	HSK50A-HC8-70	8	28	40	70	28	27	M6×1.0	0.65
	HSK50A-HC10-75	10	30	40	75	34	32	M8×1.0	0.70
	HSK50A-HC12-85	12	32	40	85	44	37	M10×1.0	0.75
	HSK50A-HC14-85	14	34	40	85	43	37	M10×1.0	0.75
	HSK50A-HC16-90	16	38	53	90	30	42	M12×1.0	0.90
	HSK50A-HC18-90	18	40	57	90	30	42	M12×1.0	0.90
	HSK50A-HC20-90	20	42	60	90	29	42	M16×1.0	1.00
	HSK63A-HC6-70	6	26	50	70	24	27	M5×0.8	0.53
63A	HSK63A-HC8-70	8	28	50	70	25	27	M6×1.0	0.55
	HSK63A-HC10-80	10	30	50	80	35	32	M8×1.0	1.00
	HSK63A-HC12-85	12	32	50	85	40	37	M10×1.0	1.03
	HSK63A-HC14-85	14	34	50	85	40	37	M10×1.0	1.05
	HSK63A-HC16-90	16	38	50	90	46	42	M12×1.0	1.15
	HSK63A-HC18-90	18	40	50	90	47	42	M12×1.0	1.15
	HSK63A-HC20-90	20	42	50	90	48	42	M16×1.0	1.20
	HSK63A-HC25-120	25	57	63	120	59	48	M16×1.0	2.20
	HSK63A-HC32-125	32	64	75	125	63	55	M16×1.0	2.40

- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

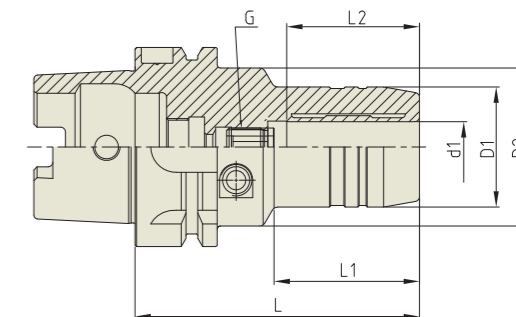
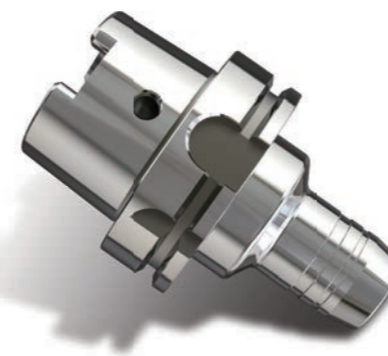
▶ NEXT PAGE

HSK-A (DIN 69893/ISO 12164)

HYDRAULIC CHUCK (STANDARD)

HC

HYDRAULIK SPANNFUTTER (STANDARD)
 MANDRIN HYDRAULIQUE (STANDARD)
 MANDRINI IDRAULICI (STANDARD)
 PORTAHERRAMIENTAS HIDRAULICO (ESTÁNDAR)



DIN 69893 - HSK	G Value	RPM	Run-Out (at 3D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
80A	HSK80A-HC12-85	12	32	50	85	40	37	M10×1.0	1.60
	HSK80A-HC20-95	20	42	50	95	52	42	M16×1.0	1.80
	HSK80A-HC32-125	32	64	75	125	63	55	M16×1.0	3.30
100A	HSK100A-HC6-75	6	26	50	75	26	27	M5×0.8	3.20
	HSK100A-HC8-75	8	28	50	75	26	27	M6×1.0	3.20
	HSK100A-HC10-90	10	30	50	90	42	32	M8×1.0	3.40
	HSK100A-HC12-95	12	32	50	95	47	37	M10×1.0	3.40
	HSK100A-HC14-95	14	34	50	95	47	37	M10×1.0	3.40
	HSK100A-HC16-100	16	38	50	100	53	42	M12×1.0	3.50
	HSK100A-HC18-100	18	40	50	100	53	42	M12×1.0	3.60
	HSK100A-HC20-105	20	42	50	105	59	42	M16×1.0	4.00
	HSK100A-HC25-110	25	57	63	110	62	48	M16×1.0	4.20
HSK100A-HC32-110	32	64	75	110	62	55	M16×1.0	4.30	

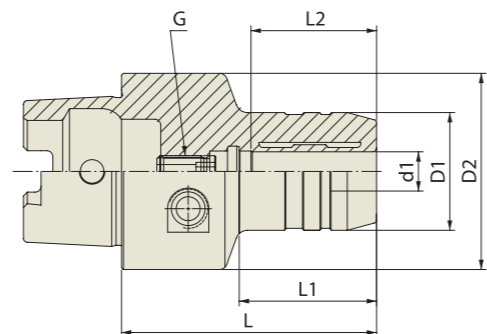
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

HSK-C (DIN 69893/ISO 12164)

HYDRAULIC CHUCK (STANDARD)

HC

HYDRAULIK SPANNFUTTER (STANDARD)
 MANDRIN HYDRAULIQUE (STANDARD)
 MANDRINI IDRAULICI (STANDARD)
 PORTAHERRAMIENTAS HIDRAULICO (ESTÁNDAR)



DIN 69893 - HSK	G Value	RPM	Run-Out (at 3D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
32C	HSK32C-HC6-65	6	26	32	65	30	27	M5x0.8	0.30
	HSK32C-HC8-70	8	28	32	70	34	27	M6x1.0	0.30
	HSK32C-HC10-75	10	30	32	75	39	32	M6x1.0	0.30
	HSK32C-HC12-80	12	32	32	80	-	37	M6x1.0	0.30
40C	HSK40C-HC6-60	6	26	40	60	36	27	M5x0.8	0.55
	HSK40C-HC8-60	8	28	40	60	36	27	M6x1.0	0.55
	HSK40C-HC10-65	10	30	40	65	41	32	M6x1.0	0.65
	HSK40C-HC12-70	12	32	40	70	47	37	M6x1.0	0.70
50C	HSK50C-HC6-60	6	26	50	60	30	27	M5x0.8	0.65
	HSK50C-HC8-60	8	28	50	60	30	27	M6x1.0	0.65
	HSK50C-HC10-65	10	30	50	65	35	32	M8x1.0	0.70
	HSK50C-HC12-75	12	32	50	75	44	37	M10x1.0	0.75
	HSK50C-HC14-75	14	34	50	75	46	37	M10x1.0	0.75
	HSK50C-HC16-80	16	38	50	80	51	42	M12x1.0	0.90
63C	HSK50C-HC18-80	18	40	50	80	51	42	M12x1.0	0.90
	HSK50C-HC20-80	20	42	50	80	48	42	M16x1.0	1.00
	HSK63C-HC6-60	6	26	63	60	25	27	M5x0.8	0.96
	HSK63C-HC8-60	8	28	63	60	25	27	M6x1.0	0.98
	HSK63C-HC10-65	10	30	63	65	31	32	M8x1.0	1.04
	HSK63C-HC12-75	12	32	63	75	41	37	M10x1.0	1.06
	HSK63C-HC14-75	14	34	63	75	42	37	M10x1.0	1.08
	HSK63C-HC16-80	16	38	63	80	48	42	M12x1.0	1.18
	HSK63C-HC18-80	18	40	63	80	47	42	M12x1.0	1.20
	HSK63C-HC20-80	20	42	63	80	49	42	M16x1.0	1.22
	HSK63C-HC25-95	25	57	63	95	63	48	M16x1.0	2.20
	HSK63C-HC32-100	32	63	63	100	-	55	M16x1.0	2.60

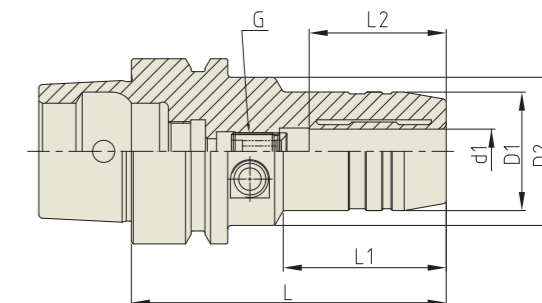
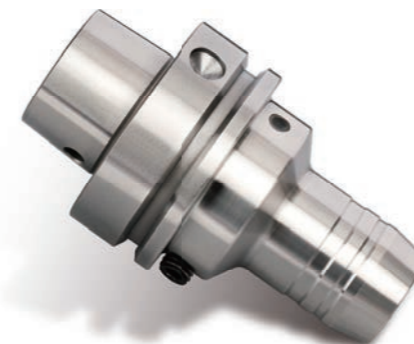
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

HSK-E (DIN 69893/ISO 12164)

HYDRAULIC CHUCK (STANDARD)

HC

HYDRAULIK SPANNFUTTER (STANDARD)
 MANDRIN HYDRAULIQUE (STANDARD)
 MANDRINI IDRAULICI (STANDARD)
 PORTAHERRAMIENTAS HIDRAULICO (ESTÁNDAR)



DIN 69893 - HSK	G Value	RPM	Run-Out (at 3D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
40E	HSK40E-HC6-70	6	26	34	70	36	27	M5x0.8	0.55
	HSK40E-HC8-70	8	28	34	70	36	27	M6x1.0	0.55
	HSK40E-HC10-75	10	30	34	75	42	32	M6x1.0	0.65
	HSK40E-HC12-80	12	32	34	80	48	37	M6x1.0	0.70
50E	HSK50E-HC6-70	6	26	40	70	28	27	M5x0.8	0.65
	HSK50E-HC8-70	8	28	40	70	28	27	M6x1.0	0.65
	HSK50E-HC10-75	10	30	40	75	34	32	M8x1.0	0.70
	HSK50E-HC12-85	12	32	40	85	44	37	M10x1.0	0.75
	HSK50E-HC16-90	16	38	53	90	30	42	M12x1.0	0.90
63F	HSK63F-HC20-85	20	42	50	85	29	42	M16x1.0	1.00
		20	42	50	85	46	42	M12x1.0	1.20

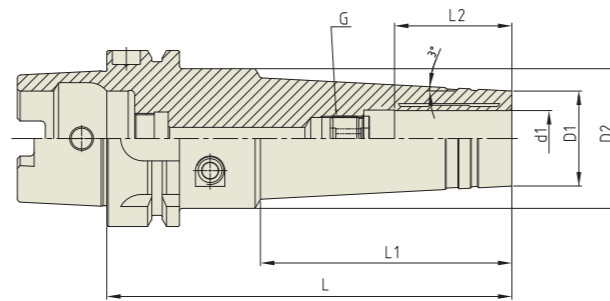
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

HSK-A (DIN 69893/ISO 12164)

HYDRAULIC CHUCK (SLIM)

HMC

HYDRAULIK SPANNFUTTER FÜR DEN FORMENBAU
 MANDRIN HYDRAULIQUE POUR MOULISTE
 MANDRINI IDRAULICI PER STAMPAGGIO
 PORTAHERRAMIENTAS HIDRAULICO PARA MOLDES



DIN 69893 - HSK	G Value	RPM	Run-Out (at 3D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
63A	HSK63A-HMC6-145	6	20	50	145	90	27	M5×0.8	1.40
	HSK63A-HMC8-145	8	22	50	145	90	27	M6×1.0	1.40
	HSK63A-HMC10-145	10	24	50	145	90	32	M8×1.0	1.40
	HSK63A-HMC12-145	12	25	50	145	90	37	M10×1.0	1.40
	HSK63A-HMC14-145	14	27	50	145	90	37	M10×1.0	1.40
	HSK63A-HMC16-145	16	32	50	145	90	42	M12×1.0	1.45
	HSK63A-HMC20-145	20	34	50	145	90	42	M16×1.0	1.50
100A	HSK100A-HMC6-150	6	20	50	150	90	27	M5×0.8	4.50
	HSK100A-HMC8-150	8	22	50	150	90	27	M6×1.0	4.50
	HSK100A-HMC10-150	10	24	50	150	90	32	M8×1.0	4.50
	HSK100A-HMC12-150	12	25	50	150	90	37	M10×1.0	4.50
	HSK100A-HMC14-150	14	27	50	150	90	37	M10×1.0	4.50
	HSK100A-HMC16-150	16	32	50	150	90	42	M12×1.0	4.70
	HSK100A-HMC20-150	20	34	50	150	90	42	M16×1.0	5.00

- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

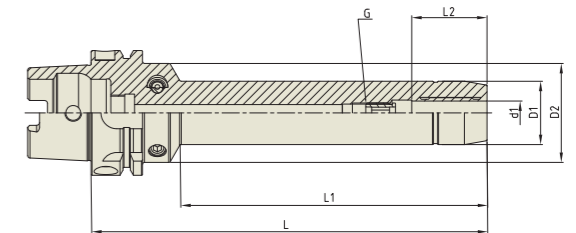
HSK-A (DIN 69893/ISO 12164)

HYDRAULIC CHUCK (LONG & SLIM)

NEW

HC-LS

HYDRAULIK SPANNFUTTER (LANG & SCHLANK)
 MANDRIN HYDRAULIQUE (LONGUE ET MINCE)
 MANDRINI IDRAULICI (LUNGO E SOTTILE)
 PORTAHERRAMIENTAS HIDRAULICO (LARGO Y DELGADO)



DIN 69893 - HSK	G Value	RPM	Run-Out (at 3D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
63A	HSK63A-HC6LS-150	6	26	50	150	103	25	M5×0.8	1.40
	HSK63A-HC6LS-200	6	26	50	200	153	25	M5×0.8	1.60
	HSK63A-HC8LS-150	8	28	50	150	104	25	M6×1.0	1.40
	HSK63A-HC8LS-200	8	28	50	200	154	25	M6×1.0	1.60
	HSK63A-HC10LS-150	10	30	50	150	104	29	M8×1.0	1.50
	HSK63A-HC10LS-200	10	30	50	200	154	29	M8×1.0	1.70
	HSK63A-HC12LS-150	12	32	50	150	105	34	M10×1.0	1.50
	HSK63A-HC12LS-200	12	32	50	200	155	34	M10×1.0	1.80
	HSK63A-HC14LS-150	14	34	50	150	105	34.5	M10×1.0	1.60
	HSK63A-HC16LS-150	16	38	50	150	106	39	M12×1.0	1.80
	HSK63A-HC16LS-200	16	38	50	200	156	39	M12×1.0	2.20
	HSK63A-HC18LS-150	18	40	50	150	107	40.5	M12×1.0	1.80
	HSK63A-HC20LS-150	20	42	50	150	108	40.5	M16×1.0	1.90
	HSK63A-HC20LS-200	20	42	50	200	158	40.5	M16×1.0	2.40

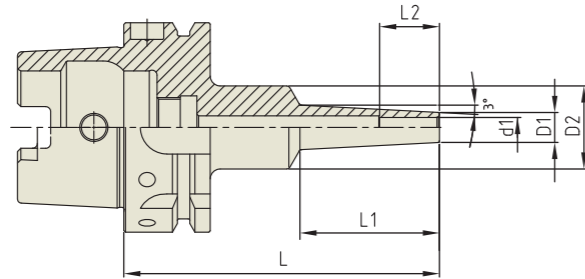
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER (EXTRA SLIM)

SFHS

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



DIN 69893 - HSK	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
40A	HSK40A-SFHS3-60	3	6	20	60	22	9	-
	HSK40A-SFHS3-90	3	6	25	80	42	9	-
	HSK40A-SFHS4-60	4	7	20	60	22	12	-
	HSK40A-SFHS4-90	4	7	25	80	42	12	-
	HSK40A-SFHS6-60	6	9	20	60	22	18	-
	HSK40A-SFHS6-90	6	9	25	80	42	18	-
50A	HSK50A-SFHS3-95	3	6	25	95	42	9	-
	HSK50A-SFHS3-120	3	6	25	120	67	9	-
	HSK50A-SFHS4-95	4	7	25	95	42	12	-
	HSK50A-SFHS4-120	4	7	25	120	67	12	-
	HSK50A-SFHS6-95	6	9	25	95	42	18	-
	HSK50A-SFHS6-120	6	9	25	120	67	18	-
	HSK50A-SFHS8-95	8	11	32	95	42	24	-
	HSK50A-SFHS8-120	8	11	32	120	67	24	-
	HSK50A-SFHS10-95	10	13	32	95	42	30	-
	HSK50A-SFHS10-120	10	13	32	120	67	30	-
63A	HSK63A-SFHS3-95	3	6	25	95	42	9	0.75
	HSK63A-SFHS3-120	3	6	25	120	67	9	0.77
	HSK63A-SFHS4-95	4	7	25	95	42	12	0.75
	HSK63A-SFHS4-120	4	7	25	120	67	12	0.78
	HSK63A-SFHS6-95	6	9	25	95	42	18	0.76
	HSK63A-SFHS6-120	6	9	25	120	97	18	0.78
	HSK63A-SFHS8-95	8	11	25	95	42	24	0.75
	HSK63A-SFHS8-160	8	11	32	160	97	24	0.97
	HSK63A-SFHS10-95	10	13	25	95	42	30	0.76
	HSK63A-SFHS10-160	10	13	32	160	97	30	1.00
	HSK63A-SFHS12-95	12	15	32	95	42	30	0.83
	HSK63A-SFHS12-160	12	15	32	160	97	30	1.04

▶ Inch type products are available.
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

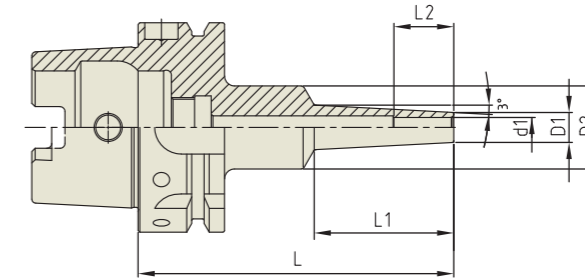
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HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER (EXTRA SLIM)

SFHS

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



DIN 69893 - HSK	G Value 2.5	RPM 25,000	Run-Out (I.D.) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	WEIGHT (Kg)
100A	HSK100A-SFHS3-95	3	6	26	95	42	9	2.12
	HSK100A-SFHS3-120	3	6	26	120	67	9	2.14
	HSK100A-SFHS4-95	4	7	26	95	42	12	2.12
	HSK100A-SFHS4-120	4	7	26	120	67	12	2.14
	HSK100A-SFHS6-95	6	9	26	95	42	18	2.12
	HSK100A-SFHS6-120	6	9	26	120	67	18	2.15
	HSK100A-SFHS8-95	8	11	36	95	42	24	2.18
	HSK100A-SFHS8-160	8	11	36	160	97	24	2.33
	HSK100A-SFHS10-95	10	13	36	95	42	30	2.19
	HSK100A-SFHS10-160	10	13	36	160	97	30	2.34
	HSK100A-SFHS12-95	12	15	36	95	42	30	2.20
	HSK100A-SFHS12-160	12	15	36	160	97	30	2.38

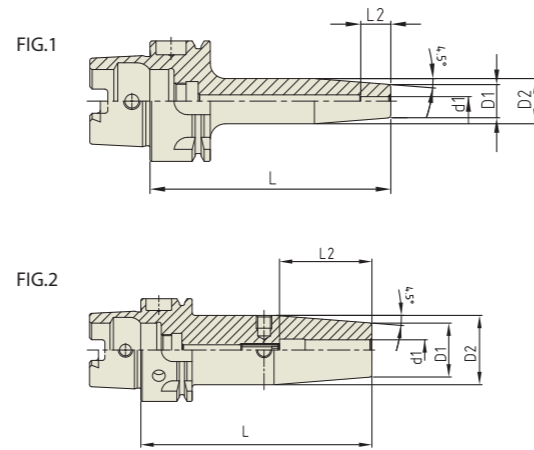
▶ Inch type products are available.
▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
40A	HSK40A-SFH3-60	3	11	15	60	10	-	1	0.30
	HSK40A-SFH3-80	3	11	15	80	10	-	1	0.40
	HSK40A-SFH4-60	4	11	15	60	12	-	1	0.30
	HSK40A-SFH4-80	4	11	15	80	12	-	1	0.40
	HSK40A-SFH5-60	5	11	15	60	15	-	1	0.30
	HSK40A-SFH5-80	5	11	15	80	15	-	1	0.40
	HSK40A-SFH6-60	6	21	27	60	36	M5×0.8	2	0.40
	HSK40A-SFH6-80	6	21	27	80	36	M5×0.8	2	0.50
	HSK40A-SFH8-70	8	21	27	70	36	M5×0.8	2	0.40
	HSK40A-SFH8-90	8	21	27	90	36	M5×0.8	2	0.50
	HSK40A-SFH10-70	10	24	32	70	42	M5×0.8	2	0.50
HSK40A-SFH10-90	10	24	32	90	42	M5×0.8	2	0.60	
50A	HSK50A-SFH3-80	3	11	15	80	10	-	1	0.54
	HSK50A-SFH4-80	4	11	15	80	12	-	1	0.55
	HSK50A-SFH5-80	5	11	15	80	15	-	1	0.56
	HSK50A-SFH6-80	6	21	27	80	36	M5×0.8	2	0.57
	HSK50A-SFH8-80	8	21	27	80	36	M6×1.0	2	0.58
	HSK50A-SFH10-85	10	24	32	85	42	M8×1.0	2	0.65
	HSK50A-SFH12-90	12	24	32	90	47	M10×1.0	2	0.67
	HSK50A-SFH14-90	14	27	34	90	47	M10×1.0	2	0.72
	HSK50A-SFH16-95	16	27	34	95	50	M12×1.0	2	0.73
	HSK50A-SFH18-95	18	33	42	95	50	M12×1.0	2	0.9
	HSK50A-SFH20-100	20	33	42	100	52	M16×1.0	2	0.92

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

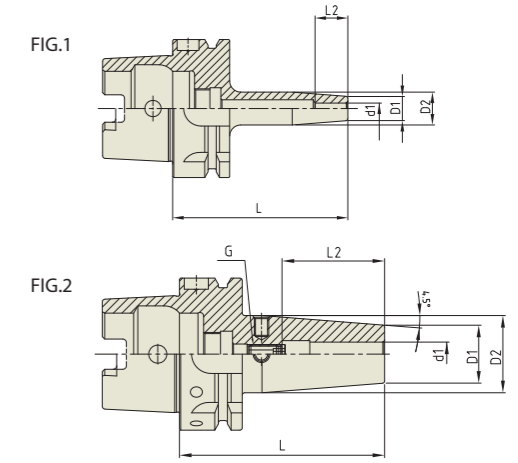
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HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
63A	HSK63A-SFH3-80	3	11	15	80	10	-	1	0.70
	HSK63A-SFH4-80	4	11	15	80	12	-	1	0.70
	HSK63A-SFH5-80	5	11	15	80	15	-	1	0.70
	HSK63A-SFH6-80	6	21	27	80	36	M5×0.8	2	0.83
	HSK63A-SFH6-130	6	21	27	130	36	M5×0.8	2	-
	HSK63A-SFH6-160	6	21	27	160	36	M5×0.8	2	1.00
	HSK63A-SFH8-80	8	21	27	80	36	M6×1.0	2	0.83
	HSK63A-SFH8-130	8	21	27	130	36	M6×1.0	2	-
	HSK63A-SFH8-160	8	21	27	160	36	M6×1.0	2	1.00
	HSK63A-SFH10-85	10	24	32	85	42	M8×1.0	2	0.83
	HSK63A-SFH10-130	10	24	32	130	42	M8×1.0	2	-
	HSK63A-SFH10-160	10	24	32	160	42	M8×1.0	2	1.00
	HSK63A-SFH12-90	12	24	32	90	47	M10×1.0	2	0.83
	HSK63A-SFH12-130	12	24	32	130	47	M10×1.0	2	-
	HSK63A-SFH12-160	12	24	32	160	47	M10×1.0	2	1.00
	HSK63A-SFH14-90	14	27	34	90	47	M10×1.0	2	0.91
	HSK63A-SFH14-130	14	27	34	130	47	M10×1.0	2	-
	HSK63A-SFH14-160	14	27	34	160	47	M10×1.0	2	1.30
	HSK63A-SFH16-95	16	27	34	95	50	M12×1.0	2	0.98
	HSK63A-SFH16-130	16	27	34	130	50	M12×1.0	2	-
	HSK63A-SFH16-160	16	27	34	160	50	M12×1.0	2	1.40
	HSK63A-SFH18-95	18	33	42	95	50	M12×1.0	2	0.98
	HSK63A-SFH18-130	18	33	42	130	50	M12×1.0	2	-
	HSK63A-SFH18-160	18	33	42	160	50	M12×1.0	2	1.40
	HSK63A-SFH20-100	20	33	42	100	52	M16×1.0	2	1.00
	HSK63A-SFH20-130	20	33	42	130	52	M16×1.0	2	-
	HSK63A-SFH20-160	20	33	42	160	52	M16×1.0	2	1.40
	HSK63A-SFH25-115	25	44	53	115	58	M16×1.0	2	1.40
	HSK63A-SFH25-130	25	44	53	130	58	M16×1.0	2	-
	HSK63A-SFH25-160	25	44	53	160	58	M16×1.0	2	1.80

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

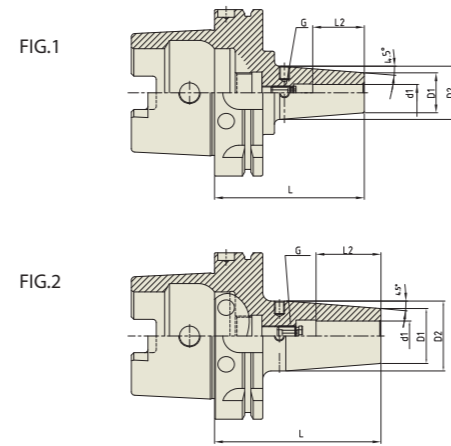
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HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
80A	HSK80A-SFH6-85	6	21	27	85	36	M5x0.8	1	-
	HSK80A-SFH8-85	8	21	27	85	36	M6x1.0	1	-
	HSK80A-SFH10-90	10	24	32	90	41	M8x1.0	2	-
	HSK80A-SFH12-95	12	24	32	95	46	M10x1.0	2	-
	HSK80A-SFH14-95	14	27	34	95	46	M10x1.0	2	-
	HSK80A-SFH16-100	16	27	34	100	49	M12x1.0	2	-
	HSK80A-SFH18-100	18	33	42	100	49	M12x1.0	2	-
	HSK80A-SFH20-105	20	33	42	105	51	M16x1.0	2	-
	HSK80A-SFH25-115	25	44	53	115	57	M16x1.0	2	-
100A	HSK100A-SFH3-85	3	11	15	85	10	-	1	1.30
	HSK100A-SFH4-85	4	11	15	85	12	-	1	1.30
	HSK100A-SFH5-85	5	11	15	85	15	-	1	1.30
	HSK100A-SFH6-85	6	21	27	85	36	M5x0.8	1	1.30
	HSK100A-SFH6-130	6	21	27	130	36	M5x0.8	1	-
	HSK100A-SFH6-160	6	21	27	160	36	M5x0.8	1	1.80
	HSK100A-SFH6-200	6	21	27	200	36	M5x0.8	1	-
	HSK100A-SFH8-85	8	21	27	85	36	M6x1.0	1	1.30
	HSK100A-SFH8-130	8	21	27	130	36	M6x1.0	1	-
	HSK100A-SFH8-160	8	21	27	160	36	M6x1.0	1	1.80
	HSK100A-SFH8-200	8	21	27	200	36	M6x1.0	1	-
	HSK100A-SFH10-90	10	24	32	90	42	M8x1.0	1	1.30
	HSK100A-SFH10-130	10	24	32	130	42	M8x1.0	1	-
	HSK100A-SFH10-160	10	24	32	160	42	M8x1.0	1	1.80
	HSK100A-SFH10-200	10	24	32	200	42	M8x1.0	1	-
	HSK100A-SFH12-95	12	24	32	95	47	M10x1.0	1	1.30
	HSK100A-SFH12-130	12	24	32	130	47	M10x1.0	1	-
	HSK100A-SFH12-160	12	24	32	160	47	M10x1.0	1	1.80
	HSK100A-SFH12-200	12	24	32	200	47	M10x1.0	1	-

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

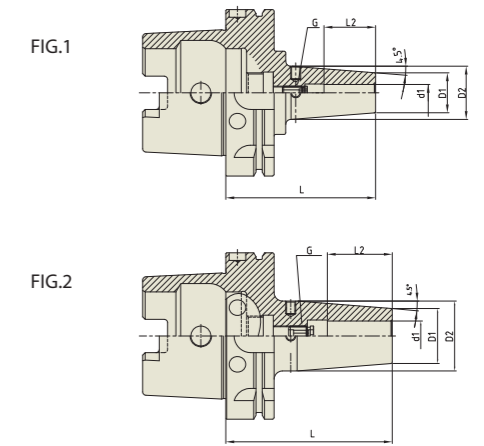
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HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

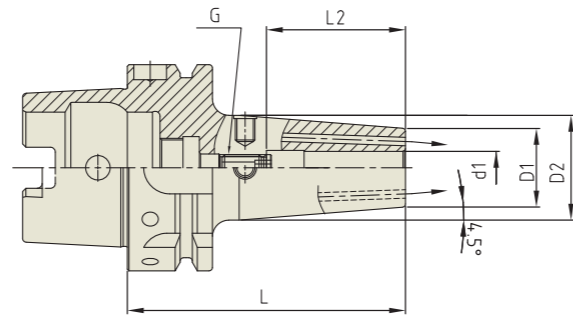
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
100A	HSK100A-SFH14-95	14	27	34	95	47	M10x1.0	1	1.40
	HSK100A-SFH14-130	14	27	34	130	47	M10x1.0	1	-
	HSK100A-SFH14-160	14	27	34	160	47	M10x1.0	1	1.90
	HSK100A-SFH14-200	14	27	34	200	47	M10x1.0	1	-
	HSK100A-SFH16-100	16	27	34	100	50	M12x1.0	1	1.40
	HSK100A-SFH16-130	16	27	34	130	50	M12x1.0	1	-
	HSK100A-SFH16-160	16	27	34	160	50	M12x1.0	1	1.90
	HSK100A-SFH16-200	16	27	34	200	50	M12x1.0	1	-
	HSK100A-SFH18-100	18	33	42	100	50	M12x1.0	2	1.50
	HSK100A-SFH18-130	18	33	42	130	50	M12x1.0	2	-
	HSK100A-SFH18-160	18	33	42	160	50	M12x1.0	2	2.00
	HSK100A-SFH18-200	18	33	42	200	50	M12x1.0	2	-
	HSK100A-SFH20-100	20	33	42	100	52	M16x1.0	2	1.50
	HSK100A-SFH20-130	20	33	42	130	52	M16x1.0	2	-
	HSK100A-SFH20-160	20	33	42	160	52	M16x1.0	2	2.00
	HSK100A-SFH20-200	20	33	42	200	52	M16x1.0	2	-
	HSK100A-SFH25-115	25	44	53	115	58	M16x1.0	2	1.80
	HSK100A-SFH25-130	25	44	53	130	58	M16x1.0	2	-
	HSK100A-SFH25-160	25	44	53	160	58	M16x1.0	2	2.30
	HSK100A-SFH25-200	25	44	53	200	58	M16x1.0	2	-

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



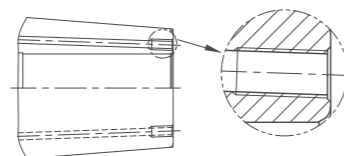
DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD+C

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	WEIGHT (Kg)
63A	HSK63A-SFH3C-80*1	3	12	17	80	10	-	-
	HSK63A-SFH4C-80*1	4	12	17	80	12	-	-
	HSK63A-SFH5C-80*1	5	12	17	80	15	-	-
	HSK63A-SFH6C-80	6	21	27	80	36	M5x0.8	0.83
	HSK63A-SFH6C-130	6	21	27	130	36	M5x0.8	-
	HSK63A-SFH6C-160	6	21	27	160	36	M5x0.8	1.00
	HSK63A-SFH8C-80	8	21	27	80	36	M6x1.0	0.83
	HSK63A-SFH8C-130	8	21	27	130	36	M6x1.0	-
	HSK63A-SFH8C-160	8	21	27	160	36	M6x1.0	1.00
	HSK63A-SFH10C-85	10	24	32	85	42	M8x1.0	0.83
	HSK63A-SFH10C-130	10	24	32	130	42	M8x1.0	-
	HSK63A-SFH10C-160	10	24	32	160	42	M8x1.0	1.00
	HSK63A-SFH12C-90	12	24	32	90	47	M10x1.0	0.83
	HSK63A-SFH12C-130	12	24	32	130	47	M10x1.0	-
	HSK63A-SFH12C-160	12	24	32	160	47	M10x1.0	1.00
	HSK63A-SFH14C-90	14	27	34	90	47	M10x1.0	0.91
	HSK63A-SFH14C-130	14	27	34	130	47	M10x1.0	-
	HSK63A-SFH14C-160	14	27	34	160	47	M10x1.0	1.30
	HSK63A-SFH16C-95	16	27	34	95	50	M12x1.0	0.98
	HSK63A-SFH16C-130	16	27	34	130	50	M12x1.0	-
	HSK63A-SFH16C-160	16	27	34	160	50	M12x1.0	1.40
	HSK63A-SFH18C-95	18	33	42	95	50	M12x1.0	0.98
	HSK63A-SFH18C-130	18	33	42	130	50	M12x1.0	-
	HSK63A-SFH18C-160	18	33	42	160	50	M12x1.0	1.40
	HSK63A-SFH20C-100	20	33	42	100	52	M16x1.0	1.00
	HSK63A-SFH20C-130	20	33	42	130	52	M16x1.0	-
	HSK63A-SFH20C-160	20	33	42	160	52	M16x1.0	1.40
	HSK63A-SFH25C-115	25	44	53	115	58	M16x1.0	1.40
	HSK63A-SFH25C-130	25	44	53	130	58	M16x1.0	-
	HSK63A-SFH25C-160	25	44	53	160	58	M16x1.0	1.80

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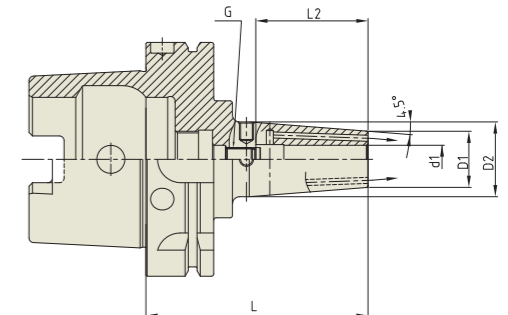
- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)
- ▶ *1 Resealable type is not available.



SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



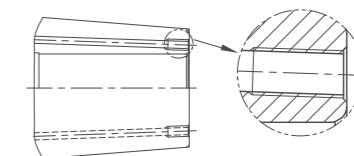
DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD+C

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	WEIGHT (Kg)
100A	HSK100A-SFH3C-85*1	3	12	17	85	10	-	-
	HSK100A-SFH4C-85*1	4	12	17	85	12	-	-
	HSK100A-SFH5C-85*1	5	12	17	85	15	-	-
	HSK100A-SFH6C-85	6	21	27	85	36	M5x0.8	1.30
	HSK100A-SFH6C-130	6	21	27	130	36	M5x0.8	-
	HSK100A-SFH6C-160	6	21	27	160	36	M5x0.8	1.80
	HSK100A-SFH8C-85	8	21	27	85	36	M6x1.0	1.30
	HSK100A-SFH8C-130	8	21	27	130	36	M6x1.0	-
	HSK100A-SFH8C-160	8	21	27	160	36	M6x1.0	1.80
	HSK100A-SFH8C-200	8	21	27	200	36	M6x1.0	-
	HSK100A-SFH10C-90	10	24	32	90	42	M8x1.0	1.30
	HSK100A-SFH10C-130	10	24	32	130	42	M8x1.0	-
	HSK100A-SFH10C-160	10	24	32	160	42	M8x1.0	1.80
	HSK100A-SFH10C-200	10	24	32	200	42	M8x1.0	-
	HSK100A-SFH12C-95	12	24	32	95	47	M10x1.0	1.30
	HSK100A-SFH12C-130	12	24	32	130	47	M10x1.0	-
	HSK100A-SFH12C-160	12	24	32	160	47	M10x1.0	1.80
	HSK100A-SFH12C-200	12	24	32	200	47	M10x1.0	-
	HSK100A-SFH14C-95	14	27	34	95	47	M10x1.0	1.40
	HSK100A-SFH14C-130	14	27	34	130	47	M10x1.0	-
	HSK100A-SFH14C-160	14	27	34	160	47	M10x1.0	1.90
	HSK100A-SFH14C-200	14	27	34	200	47	M10x1.0	-
	HSK100A-SFH16C-100	16	27	34	100	50	M12x1.0	1.40
	HSK100A-SFH16C-130	16	27	34	130	50	M12x1.0	-
	HSK100A-SFH16C-160	16	27	34	160	50	M12x1.0	1.90
	HSK100A-SFH16C-200	16	27	34	200	50	M12x1.0	-

▶ NEXT PAGE

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)
- ▶ *1 Resealable type is not available.

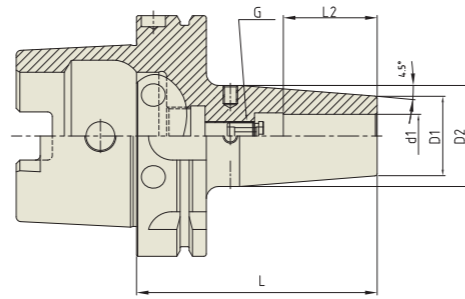


HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER (COOLANT CHANNEL)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR

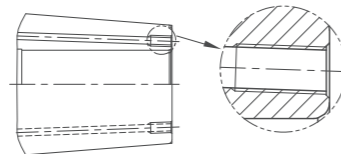


DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD+C

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	WEIGHT (Kg)
100A	HSK100A-SFH18C-100	18	33	42	100	50	M12x1.0	1.50
	HSK100A-SFH18C-130	18	33	42	130	50	M12x1.0	-
	HSK100A-SFH18C-160	18	33	42	160	50	M12x1.0	2.00
	HSK100A-SFH18C-200	18	33	42	200	50	M12x1.0	-
	HSK100A-SFH20C-100	20	33	42	100	52	M16x1.0	1.50
	HSK100A-SFH20C-130	20	33	42	130	52	M16x1.0	-
	HSK100A-SFH20C-160	20	33	42	160	52	M16x1.0	2.00
	HSK100A-SFH20C-200	20	33	42	200	52	M16x1.0	-
	HSK100A-SFH25C-115	25	44	53	115	58	M16x1.0	1.80
	HSK100A-SFH25C-130	25	44	53	130	58	M16x1.0	-
	HSK100A-SFH25C-160	25	44	53	160	58	M16x1.0	2.30
	HSK100A-SFH25C-200	25	44	53	200	58	M16x1.0	-

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ With two coolant channel bores.
- ▶ Resealable coolant channel type is available upon request. (Thread for plugging screw & 2 screws)

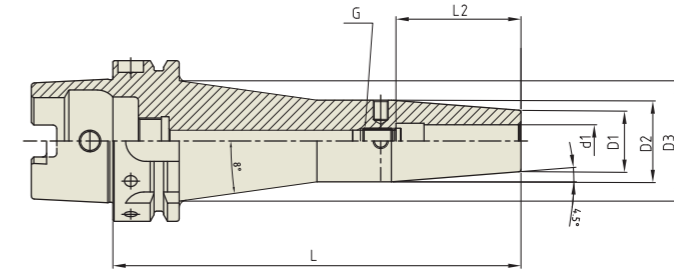


HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER (REINFORCED)

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



DIN 69893 - HSK	Taper Accuracy	G Value	RPM	Run-Out (I.D)	Coolant System
	AT3	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	D3	L	L2	G	WEIGHT (Kg)
63A	HSK63A-SFH6 TW-160	6	21	27	42.2	160	36	M5x0.8	1.36
	HSK63A-SFH8 TW-160	8	21	27	42.2	160	36	M6x1.0	1.35
	HSK63A-SFH10 TW-160	10	24	32	47.2	160	42	M8x1.0	1.56
	HSK63A-SFH12 TW-160	12	24	32	47.2	160	47	M10x1.0	1.55
	HSK63A-SFH14 TW-160	14	27	34	49.2	160	47	M10x1.0	1.52
	HSK63A-SFH16 TW-160	16	27	34	49.2	160	50	M12x1.0	1.64
100A	HSK100A-SFH6 TW-160	6	21	27	41.3	160	36	M5x0.8	2.73
	HSK100A-SFH8 TW-160	8	21	27	41.3	160	36	M6x1.0	2.72
	HSK100A-SFH10 TW-160	10	24	32	46.3	160	42	M8x1.0	2.92
	HSK100A-SFH12 TW-160	12	24	32	46.3	160	47	M10x1.0	2.9
	HSK100A-SFH14 TW-160	14	27	34	48.3	160	47	M10x1.0	3.05
	HSK100A-SFH16 TW-160	16	27	34	48.3	160	50	M12x1.0	3.03
	HSK100A-SFH18 TW-160	18	33	42	56.3	160	50	M12x1.0	3.39
	HSK100A-SFH20 TW-160	20	33	42	56.3	160	52	M16x1.0	3.36

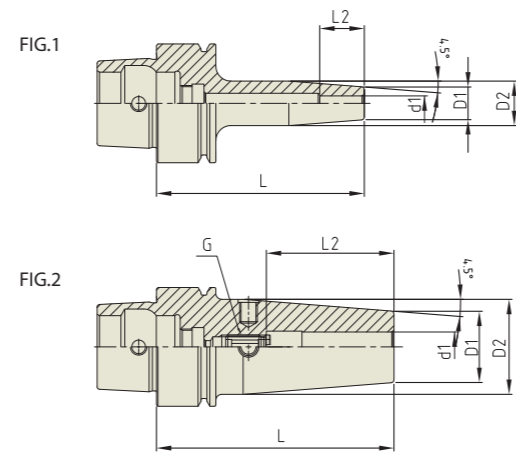
- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

HSK-E (DIN 69893/ISO 12164)

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
MANDRIN DE FRETTAGE
MADRINI PER CALLETAMENTO A CALDO
PORTAHERRAMIENTAS DE COMPRESION POR CALOR



DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)
25E	HSK25E-SFH3-45	3	11	15	45	10	-	1	-
	HSK25E-SFH4-45	4	11	15	45	12	-	1	-
	HSK25E-SFH5-45	5	11	15	45	15	-	1	-
	HSK25E-SFH6-45	6	12	17	45	18	-	2	-
	HSK25E-SFH8-45	8	14	18	45	30	-	2	-
	HSK25E-SFH10-50	10	16	20	50	37	-	2	-
32E	HSK32E-SFH3-60	3	11	15	60	10	-	1	0.40
	HSK32E-SFH4-60	4	11	15	60	12	-	1	0.50
	HSK32E-SFH5-60	5	11	15	60	15	-	1	0.40
	HSK32E-SFH6-70	6	12	17	70	18	-	2	0.50
	HSK32E-SFH8-70	8	14	18	70	30	-	2	0.50
	HSK32E-SFH10-80	10	16	20	80	37	-	2	0.60
40E	HSK40E-SFH3-60	3	11	15	60	10	-	1	0.30
	HSK40E-SFH3-80	3	11	15	80	10	-	1	0.40
	HSK40E-SFH4-60	4	11	15	60	12	-	1	0.30
	HSK40E-SFH4-80	4	11	15	80	12	-	1	0.40
	HSK40E-SFH5-60	5	11	15	60	15	-	1	0.30
	HSK40E-SFH5-80	5	11	15	80	15	-	1	0.40
	HSK40E-SFH6-60	6	21	27	60	36	M5×0.8	2	0.40
	HSK40E-SFH6-80	6	21	27	80	36	M5×0.8	2	0.50
	HSK40E-SFH8-70	8	21	27	70	36	M6×1.0	2	0.40
	HSK40E-SFH8-90	8	21	27	90	36	M6×1.0	2	0.50
HSK40E-SFH10-70	10	24	32	70	42	M8×1.0	2	0.50	
HSK40E-SFH10-90	10	24	32	90	42	M8×1.0	2	0.60	

- ▶ Inch type products are available.
- ▶ Supplied without balancing screws.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

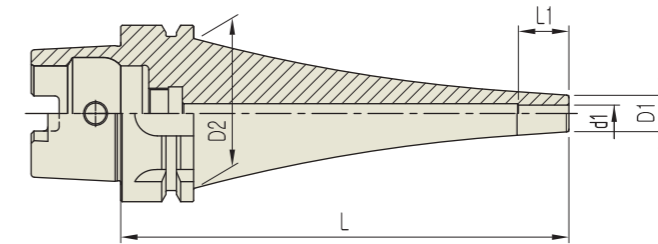
HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER (CURVED)

NEW

SFH

SCHRUMPFUTTER (GEBOGEN)
MANDRIN DE FRETTAGE (INCURVÉ)
MADRINI PER CALLETAMENTO A CALDO (CURVO)
PORTAHERRAMIENTAS DE COMPRESION POR CALOR (CURVADO)



DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	WEIGHT (Kg)
63A	HSK63A-SFH4CV-120	4	10	53	120	12	-
	HSK63A-SFH4CV-150	4	10	53	150	12	-
	HSK63A-SFH6CV-90	6	13	53	90	18	-
	HSK63A-SFH6CV-120	6	13	53	120	18	-
	HSK63A-SFH6CV-150	6	13	53	150	18	-
	HSK63A-SFH8CV-90	8	16	53	90	24	-
	HSK63A-SFH8CV-120	8	16	53	120	24	-
	HSK63A-SFH8CV-150	8	16	53	150	24	-
	HSK63A-SFH10CV-90	10	19	53	90	30	-
	HSK63A-SFH10CV-120	10	19	53	120	30	-
	HSK63A-SFH10CV-150	10	19	53	150	30	-
	HSK63A-SFH12CV-90	12	22	53	90	30	-
	HSK63A-SFH12CV-120	12	22	53	120	30	-
	HSK63A-SFH12CV-150	12	22	53	150	30	-
100A	HSK100A-SFH8CV-195	8	16	85	195	24	-
	HSK100A-SFH8CV-225	8	16	85	225	24	-
	HSK100A-SFH10CV-165	10	19	85	165	30	-
	HSK100A-SFH10CV-195	10	19	85	195	30	-
	HSK100A-SFH10CV-225	10	19	85	225	30	-
	HSK100A-SFH12CV-165	12	22	85	165	30	-
HSK100A-SFH12CV-195	12	22	85	195	30	-	
HSK100A-SFH12CV-225	12	22	85	225	30	-	

- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

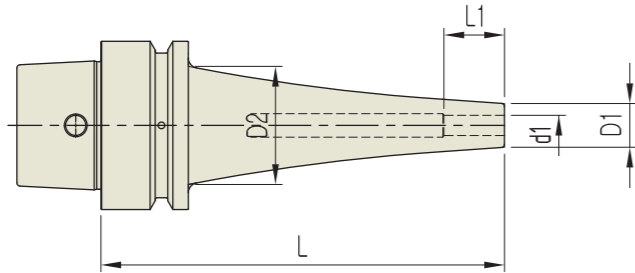
HSK-E (DIN 69893/ISO 12164)

SHRINK FIT HOLDER (CURVED)

NEW

SFH

SCHRUMPFUTTER (GEBOGEN)
 MANDRIN DE FRETAGE (INCURVÉ)
 MADRINI PER CALLETAMENTO A CALDO (CURVO)
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR (CURVADO)



DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD

TAPER No.	MODEL No.	d1	D1	D2	L	L1	WEIGHT (Kg)
40E	HSK40E-SFH4CV-90	4	10	34	90	12	-
	HSK40E-SFH4CV-120	4	10	34	120	12	-
	HSK40E-SFH6CV-90	6	13	34	90	18	-
	HSK40E-SFH6CV-120	6	13	34	120	18	-
	HSK40E-SFH8CV-90	8	16	34	90	24	-
	HSK40E-SFH8CV-120	8	16	34	120	24	-
	HSK40E-SFH10CV-90	10	19	34	90	30	-
	HSK40E-SFH10CV-120	10	19	34	120	30	-
	HSK40E-SFH10CV-150	10	19	34	150	30	-
50E	HSK50E-SFH4CV-120	4	10	42	120	12	-
	HSK50E-SFH4CV-150	4	10	42	150	12	-
	HSK50E-SFH6CV-120	6	13	42	120	18	-
	HSK50E-SFH6CV-150	6	13	42	150	18	-
	HSK50E-SFH8CV-120	8	16	42	120	24	-
	HSK50E-SFH8CV-150	8	16	42	150	24	-
	HSK50E-SFH10CV-120	10	19	42	120	30	-
	HSK50E-SFH10CV-150	10	19	42	150	30	-
	HSK50E-SFH10CV-180	10	19	42	180	30	-

▶ Inch type products are available.
 ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

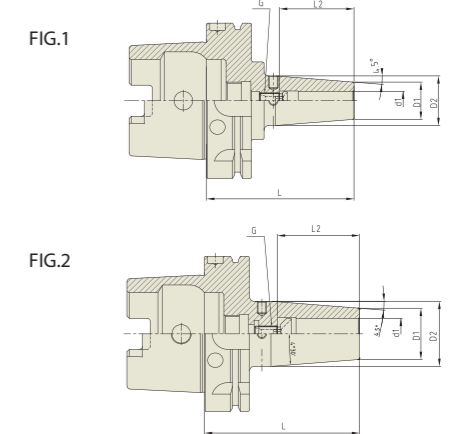
HSK-A (DIN 69893/ISO 12164)

SHRINK FIT HOLDER (MQL1)

NEW

SFH

SCHRUMPFUTTER
 MANDRIN DE FRETAGE
 MADRINI PER CALLETAMENTO A CALDO
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR



DIN 69893 - HSK	G Value	RPM	Run-Out (I.D)	Coolant System
	2.5	25,000	≤3μm	AD

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	FIG.	WEIGHT (Kg)	
63A	HSK63A-SFH6-80 M1	6	21	27	80	36	M5x0.8	2	0.83	
	HSK63A-SFH6-160 M1	6	21	27	160	36	M5x0.8	2	1.00	
	HSK63A-SFH8-80 M1	8	21	27	80	36	M6x1.0	2	0.83	
	HSK63A-SFH8-160 M1	8	21	27	160	36	M6x1.0	2	1.00	
	HSK63A-SFH10-85 M1	10	24	32	85	42	M8x1.0	2	0.83	
	HSK63A-SFH10-160 M1	10	24	32	160	42	M8x1.0	2	1.00	
	HSK63A-SFH12-90 M1	12	24	32	90	47	M10x1.0	2	0.83	
	HSK63A-SFH12-160 M1	12	24	32	160	47	M10x1.0	2	1.00	
	HSK63A-SFH14-90 M1	14	27	34	90	47	M10x1.0	2	0.91	
	HSK63A-SFH14-160 M1	14	27	34	160	47	M10x1.0	2	1.30	
	HSK63A-SFH16-95 M1	16	27	34	95	50	M10x1.0	2	0.98	
	HSK63A-SFH16-160 M1	16	27	34	160	50	M10x1.0	2	1.40	
	HSK63A-SFH18-95 M1	18	33	42	95	50	M10x1.0	2	0.98	
	HSK63A-SFH18-160 M1	18	33	42	160	50	M10x1.0	2	1.40	
	HSK63A-SFH20-100 M1	20	33	42	100	52	M10x1.0	2	1.00	
	HSK63A-SFH20-160 M1	20	33	42	160	52	M10x1.0	2	1.40	
	HSK63A-SFH25-115 M1	25	44	53	115	58	M10x1.0	2	1.40	
	HSK63A-SFH25-160 M1	25	44	53	160	58	M10x1.0	2	1.80	
	100A	HSK100A-SFH6-85 M1	6	21	27	85	36	M5x0.8	1	1.30
		HSK100A-SFH6-160 M1	6	21	27	160	36	M5x0.8	1	1.80
		HSK100A-SFH8-85 M1	8	21	27	85	36	M6x1.0	1	1.30
HSK100A-SFH8-160 M1		8	21	27	160	36	M6x1.0	1	1.80	
HSK100A-SFH10-90 M1		10	24	32	90	42	M8x1.0	1	1.30	
HSK100A-SFH10-160 M1		10	24	32	160	42	M8x1.0	1	1.80	
HSK100A-SFH12-95 M1		12	24	32	95	47	M10x1.0	1	1.30	
HSK100A-SFH12-160 M1		12	24	32	160	47	M10x1.0	1	1.80	
HSK100A-SFH14-95 M1		14	27	34	95	47	M10x1.0	1	1.40	
HSK100A-SFH14-160 M1		14	27	34	160	47	M10x1.0	1	1.90	
HSK100A-SFH16-100 M1		16	27	34	100	50	M10x1.0	1	1.40	
HSK100A-SFH16-160 M1		16	27	34	160	50	M10x1.0	1	1.90	
HSK100A-SFH18-100 M1		18	33	42	100	50	M10x1.0	2	1.50	
HSK100A-SFH18-160 M1		18	33	42	160	50	M10x1.0	2	2.00	
HSK100A-SFH20-100 M1		20	33	42	100	52	M10x1.0	2	1.50	
HSK100A-SFH20-160 M1		20	33	42	160	52	M10x1.0	2	2.00	
HSK100A-SFH25-115 M1		25	44	53	115	58	M10x1.0	2	1.80	
HSK100A-SFH25-160 M1		25	44	53	160	58	M10x1.0	2	2.30	

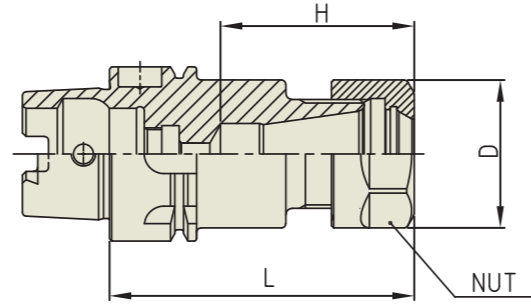
▶ Inch type products are available.
 ▶ Supplied without balancing screws.
 ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

HSK-A (DIN 69893/ISO 12164)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



DIN 69893 - HSK	G Value	RPM	Coolant System
	2.5	25,000	AD

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
32A	HSK32A-ER11-50	0.5 - 7.0	50	19	23.6	ER11	0.18
	HSK32A-ER16-60	0.5 - 10.0	60	28	43.0	ER16	0.21
40A	HSK40A-ER11-60	0.5 - 7.0	60	19	28.6	ER11	0.40
	HSK40A-ER16-60	0.5 - 10.0	60	28	36.6	ER16	0.50
	HSK40A-ER20-70	0.5 - 13.0	70	34	44.5	ER20	0.80

▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

DIN 69893 - HSK	G Value	RPM	Coolant System
	6.3	15,000	AD

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
32A	HSK32A-ER11-50	0.5 - 7.0	50	19	28.6	ER11	0.18
	HSK32A-ER16-60	0.5 - 10.0	60	28	36.6	ER16	0.21
40A	HSK40A-ER11-60	0.5 - 7.0	60	19	28.6	ER11	0.40
	HSK40A-ER16-60	0.5 - 10.0	60	28	36.6	ER16	0.50
	HSK40A-ER20-70	0.5 - 13.0	70	34	44.5	ER20	0.80

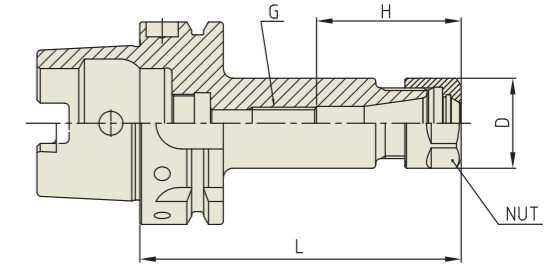
▶ Inch type products are available.
 ▶ For applicable ER collet, please refer to page 314~322.
 ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

HSK-A (DIN 69893/ISO 12164)

ER COLLET CHUCK

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



DIN 69893 - HSK	G Value	RPM	Coolant System
	2.5	25,000	AD

Unit : mm

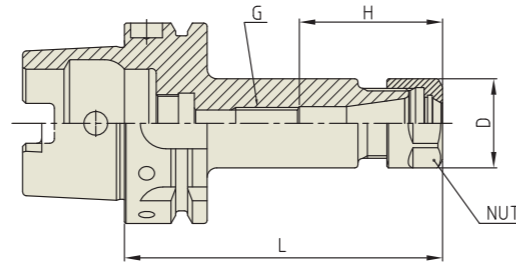
TAPER No.	MODEL No.	CLAMPING RANGE	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
50A	HSK50A-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	0.70
	HSK50A-ER20-100	0.5 - 13.0	100	35	M12	50	ER20	0.90
	HSK50A-ER25-100	1.0 - 16.0	100	42	M12	50	ER25	1.20
	HSK50A-ER32-100	1.0 - 20.0	100	50	M12	47	ER32	1.50
63A	HSK63A-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	1.20
	HSK63A-ER16-130	0.5 - 10.0	130	28	M10	45	ER16	-
	HSK63A-ER16-160	0.5 - 10.0	160	28	M10	45	ER16	-
	HSK63A-ER20-100	0.5 - 13.0	100	35	M12	50	ER20	1.50
	HSK63A-ER20-130	0.5 - 13.0	130	35	M12	50	ER20	-
	HSK63A-ER20-160	0.5 - 13.0	160	35	M12	50	ER20	-
	HSK63A-ER25-100	1.0 - 16.0	100	42	M12	57	ER25	1.80
	HSK63A-ER25-130	1.0 - 16.0	130	42	M12	57	ER25	-
	HSK63A-ER25-160	1.0 - 16.0	160	42	M12	57	ER25	-
	HSK63A-ER32-100	1.0 - 20.0	100	50	M12	60	ER32	2.00
	HSK63A-ER32-130	1.0 - 20.0	130	50	M12	60	ER32	-
	HSK63A-ER32-160	1.0 - 20.0	160	50	M12	60	ER32	-
80A	HSK63A-ER40-120	2.0 - 30.0	120	63	M12	69	ER40	2.30
	HSK63A-ER40-160	2.0 - 30.0	160	63	M12	69	ER40	-
	HSK80A-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	1.77
	HSK80A-ER25-100	1.0 - 16.0	100	42	M12	47	ER20	1.79
100A	HSK80A-ER32-100	1.0 - 20.0	100	50	M12	53	ER25	1.95
	HSK100A-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	2.60
	HSK100A-ER16-130	0.5 - 10.0	130	28	M10	45	ER16	-
	HSK100A-ER16-160	0.5 - 10.0	160	28	M10	45	ER16	-
	HSK100A-ER20-100	0.5 - 13.0	100	35	M12	50	ER20	2.70
	HSK100A-ER20-130	0.5 - 13.0	130	35	M12	50	ER20	-
	HSK100A-ER20-160	0.5 - 13.0	160	35	M12	50	ER20	-
	HSK100A-ER25-100	1.0 - 16.0	100	42	M12	57	ER25	2.90
	HSK100A-ER25-130	1.0 - 16.0	130	42	M12	57	ER25	-
	HSK100A-ER25-160	1.0 - 16.0	160	42	M12	57	ER25	-
100A	HSK100A-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	3.10
	HSK100A-ER32-130	1.0 - 20.0	130	50	M12	65	ER32	-
	HSK100A-ER32-160	1.0 - 20.0	160	50	M12	65	ER32	-
	HSK100A-ER40-120	1.0 - 20.0	120	63	M12	69	ER40	3.30
	HSK100A-ER40-160	1.0 - 20.0	160	63	M12	69	ER40	-

▶ Inch type products are available.
 ▶ For applicable ER collet, please refer to page 314~322.
 ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.
 ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

HSK-A (DIN 69893/ISO 12164)

ER COLLET CHUCK

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



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

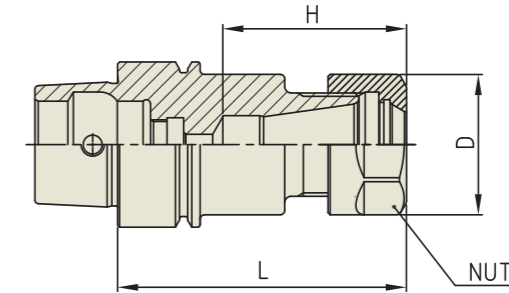
TAPER No.	MODEL No.	CLAMPING RANGE	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
50A	HSK50A-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	0.70
	HSK50A-ER20-100	0.5 - 13.0	100	35	M12	50	ER20	0.90
	HSK50A-ER25-100	1.0 - 16.0	100	42	M12	50	ER25	1.20
	HSK50A-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	1.50
63A	HSK63A-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	1.20
	HSK63A-ER16-130	0.5 - 10.0	130	28	M10	45	ER16	-
	HSK63A-ER16-160	0.5 - 10.0	160	28	M10	45	ER16	-
	HSK63A-ER20-100	0.5 - 13.0	100	35	M12	50	ER20	1.50
	HSK63A-ER20-130	0.5 - 13.0	130	35	M12	50	ER20	-
	HSK63A-ER20-160	0.5 - 13.0	160	35	M12	50	ER20	-
	HSK63A-ER25-100	1.0 - 16.0	100	42	M12	57	ER25	1.80
	HSK63A-ER25-130	1.0 - 16.0	130	42	M12	57	ER25	-
	HSK63A-ER25-160	1.0 - 16.0	160	42	M12	57	ER25	-
	HSK63A-ER32-100	1.0 - 20.0	100	50	M12	60	ER32	2.00
	HSK63A-ER32-130	1.0 - 20.0	130	50	M12	60	ER32	-
	HSK63A-ER32-160	1.0 - 20.0	160	50	M12	60	ER32	-
80A	HSK80A-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	1.77
	HSK80A-ER25-100	1.0 - 16.0	100	42	M12	47	ER20	1.79
	HSK80A-ER32-100	1.0 - 20.0	100	50	M12	53	ER25	1.95
	HSK100A-ER16-100	0.5 - 10.0	100	28	M10	45	ER16	2.60
100A	HSK100A-ER16-130	0.5 - 10.0	130	28	M10	45	ER16	-
	HSK100A-ER16-160	0.5 - 10.0	160	28	M10	45	ER16	-
	HSK100A-ER20-100	0.5 - 13.0	100	35	M12	50	ER20	2.70
	HSK100A-ER25-100	1.0 - 16.0	100	42	M12	57	ER25	2.90
	HSK100A-ER25-130	1.0 - 16.0	130	42	M12	57	ER25	-
	HSK100A-ER25-160	1.0 - 16.0	160	42	M12	57	ER25	-
	HSK100A-ER32-100	1.0 - 20.0	100	50	M12	65	ER32	3.10
	HSK100A-ER32-130	1.0 - 20.0	130	50	M12	65	ER32	-
	HSK100A-ER32-160	1.0 - 20.0	160	50	M12	65	ER32	-
	HSK100A-ER40-120	2.0 - 30.0	120	63	M12	69	ER40	3.30
HSK100A-ER40-160	2.0 - 30.0	160	63	M12	69	ER40	-	

- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

HSK-E (DIN 69893/ISO 12164)

ER COLLET CHUCK

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



DIN 69893 - HSK	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
25E	HSK25E-ER11-40	0.5 - 7.0	40	19	26.6	ER11	0.15
	HSK25E-ER16-50	0.5 - 10.0	50	28	34.6	ER16	0.18
32E	HSK32E-ER11-50	0.5 - 7.0	50	19	23.6	ER11	0.18
	HSK32E-ER16-60	0.5 - 10.0	60	28	41.0	ER16	0.21
40E	HSK40E-ER11-60	0.5 - 7.0	60	19	40.0	ER11	0.40
	HSK40E-ER16-60	0.5 - 10.0	60	28	41.0	ER16	0.50
	HSK40E-ER20-70	0.5 - 13.0	70	34	50.0	ER20	0.80

- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

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

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
25E	HSK25E-ER11-40	0.5 - 7.0	40	19	26.6	ER11	0.16
	HSK25E-ER16-50	0.5 - 10.0	50	28	34.6	ER16	0.16
32E	HSK32E-ER11-50	0.5 - 7.0	50	19	23.6	ER11	0.18
	HSK32E-ER16-60	0.5 - 10.0	60	28	41.0	ER16	0.21
40E	HSK40E-ER11-60	0.5 - 7.0	60	19	40.0	ER11	0.40
	HSK40E-ER16-60	0.5 - 10.0	60	28	41.0	ER16	0.50
	HSK40E-ER20-70	0.5 - 13.0	70	34	50.0	ER20	0.80

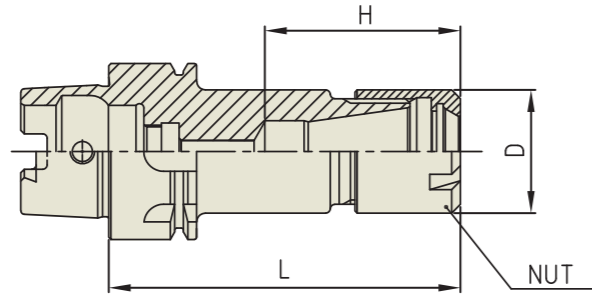
- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

HSK-A (DIN 69893/ISO 12164)

ER COLLET CHUCK (SLIM)

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



DIN 69893 - HSK	G Value	RPM	Coolant System
	2.5	25,000	AD

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
32A	HSK32A-ER8M-40	0.5 - 5.0	40	12	21.0	ER8M / ER8	0.18
	HSK32A-ER11M-40	0.5 - 7.0	40	16	23.0	ER11M / ER11	0.18
	HSK32A-ER16M-60	0.5 - 10.0	60	22	38.0	ER16M / ER16	0.21
	HSK32A-ER20M-60	0.5 - 13.0	60	28	38.0	ER20M / ER20	0.21
40A	HSK40A-ER11M-75	0.5 - 7.0	75	16	29.5	ER11M / ER11	0.40
	HSK40A-ER16M-80	0.5 - 10.0	80	22	38.0	ER16M / ER16	0.50
	HSK40A-ER20M-80	0.5 - 13.0	80	28	44.5	ER20M / ER20	0.70
	HSK40A-ER25M-80	1.0 - 16.0	80	35	52.0	ER25M / ER25	0.80

▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

DIN 69893 - HSK	G Value	RPM	Coolant System
	6.3	15,000	AD

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
32A	HSK32A-ER8M-40	0.5 - 5.0	40	12	21.0	ER8M / ER8	0.15
	HSK32A-ER11M-40	0.5 - 7.0	40	16	23.0	ER11M / ER11	0.15
	HSK32A-ER16M-60	0.5 - 10.0	60	22	38.0	ER16M / ER16	0.21
	HSK32A-ER20M-60	0.5 - 13.0	60	28	39.5	ER20M / ER20	0.20
40A	HSK40A-ER11M-75	0.5 - 7.0	75	16	29.5	ER11M / ER11	0.40
	HSK40A-ER16M-80	0.5 - 10.0	80	22	38.0	ER16M / ER16	0.50
	HSK40A-ER20M-80	0.5 - 13.0	80	28	44.5	ER20M / ER20	0.70
	HSK40A-ER25M-80	1.0 - 16.0	80	35	52.0	ER25M / ER25	0.80

▶ Inch type products are available.
 ▶ For applicable ER collet, please refer to page 314~322.
 ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

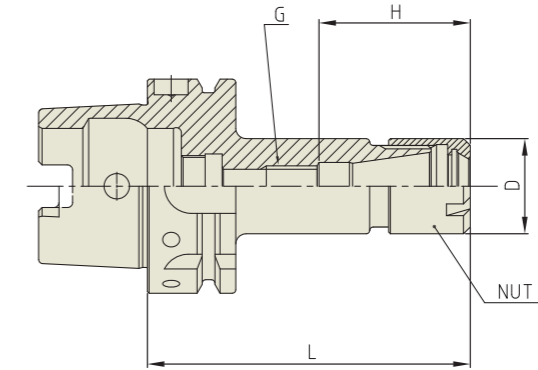
HSK-A (DIN 69893/ISO 12164 -1)

ER COLLET CHUCK (SLIM)

NEW

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



DIN 69893 - HSK	G Value	RPM	Coolant System
	2.5	25,000	AD

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
50A	HSK50A-ER11M-75	0.5 ~ 7.0	75.00	16	M6	29.5	ER11M / ER11	0.30
	HSK50A-ER16M-85	0.5 ~ 10.0	85.00	22	M10	38.0	ER16M / ER16	0.40
	HSK50A-ER20M-90	0.5 ~ 13.0	90.00	28	M12	44.5	ER20M / ER20	0.80
	HSK50A-ER25M-105	1.0 ~ 16.0	105.00	35	M12	52.0	ER25M / ER25	1.20
63A	HSK63A-ER11M-75	0.5 ~ 7.0	75	16	M6	29.5	ER11M / ER11	0.80
	HSK63A-ER11M-100	0.5 ~ 7.0	100	16	M6	29.5	ER11M / ER11	-
	HSK63A-ER11M-130	0.5 ~ 7.0	130	16	M6	29.5	ER11M / ER11	-
	HSK63A-ER11M-160	0.5 ~ 7.0	160	16	M6	29.5	ER11M / ER11	-
	HSK63A-ER16M-85	0.5 ~ 10.0	85	22	M10	38.0	ER16M / ER16	1.00
	HSK63A-ER16M-100	0.5 ~ 10.0	100	22	M10	38.0	ER16M / ER16	-
	HSK63A-ER16M-130	0.5 ~ 10.0	130	22	M10	38.0	ER16M / ER16	-
	HSK63A-ER16M-160	0.5 ~ 10.0	160	22	M10	38.0	ER16M / ER16	-
	HSK63A-ER20M-95	0.5 ~ 13.0	95	28	M12	44.5	ER20M / ER20	1.20
	HSK63A-ER20M-130	0.5 ~ 13.0	130	28	M12	44.5	ER20M / ER20	-
	HSK63A-ER20M-160	0.5 ~ 13.0	160	28	M12	44.5	ER20M / ER20	-
	HSK63A-ER25M-105	1.0 ~ 16.0	105	35	M12	52.0	ER25M / ER25	1.40
100A	HSK63A-ER25M-130	1.0 ~ 16.0	130	35	M12	52.0	ER25M / ER25	-
	HSK63A-ER25M-160	1.0 ~ 16.0	160	35	M12	52.0	ER25M / ER25	-
	HSK100A-ER11M-85	0.5 ~ 7.0	85	16	M6	29.5	ER11M / ER11	2.40
	HSK100A-ER16M-95	0.5 ~ 10.0	95	22	M10	38.0	ER16M / ER16	2.70
100A	HSK100A-ER20M-100	0.5 ~ 13.0	100	28	M12	44.5	ER20M / ER20	3.00
	HSK100A-ER25M-120	1.0 ~ 16.0	120	35	M12	52.0	ER25M / ER25	3.20

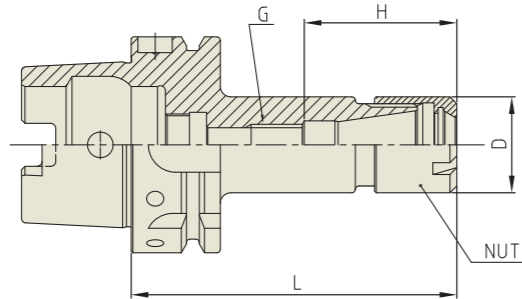
▶ Inch type products are available.
 ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
 ▶ For applicable ER collet, please refer to page 314~322.
 ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

HSK-A (DIN 69893/ISO 12164)

ER COLLET CHUCK (SLIM)

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



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

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	G	H	NUT / COLLET	WEIGHT (Kg)
50A	HSK50A-ER11M-75	0.5 - 7.0	75	16	M6	29.5	ER11M / ER11	0.30
	HSK50A-ER16M-85	0.5 - 10.0	85	22	M10	38.0	ER16M / ER16	0.40
	HSK50A-ER20M-90	0.5 - 13.0	90	28	M12	44.5	ER20M / ER20	0.80
	HSK50A-ER25M-105	1.0 - 16.0	105	35	M12	52.0	ER25M / ER25	1.20
63A	HSK63A-ER11M-75	0.5 - 7.0	75	16	M6	29.5	ER11M / ER11	0.80
	HSK63A-ER11M-100	0.5 - 7.0	100	16	M6	29.5	ER11M / ER11	-
	HSK63A-ER11M-130	0.5 - 7.0	130	16	M6	29.5	ER11M / ER11	-
	HSK63A-ER11M-160	0.5 - 7.0	160	16	M6	29.5	ER11M / ER11	-
	HSK63A-ER16M-85	0.5 - 10.0	85	22	M10	38.0	ER16M / ER16	1.00
	HSK63A-ER16M-100	0.5 - 10.0	100	22	M10	38.0	ER16M / ER16	-
	HSK63A-ER16M-130	0.5 - 10.0	130	22	M10	38.0	ER16M / ER16	-
	HSK63A-ER16M-160	0.5 - 10.0	160	22	M10	38.0	ER16M / ER16	-
	HSK63A-ER20M-95	0.5 - 13.0	95	28	M12	44.5	ER20M / ER20	1.20
	HSK63A-ER20M-130	0.5 - 13.0	130	28	M12	44.5	ER20M / ER20	-
100A	HSK100A-ER11M-85	0.5 - 7.0	85	16	M6	29.5	ER11M / ER11	2.40
	HSK100A-ER16M-95	0.5 - 10.0	95	22	M10	38.0	ER16M / ER16	2.70
	HSK100A-ER20M-100	0.5 - 13.0	100	28	M12	44.5	ER20M / ER20	3.00
	HSK100A-ER25M-120	1.0 - 16.0	120	35	M12	52.0	ER25M / ER25	3.20

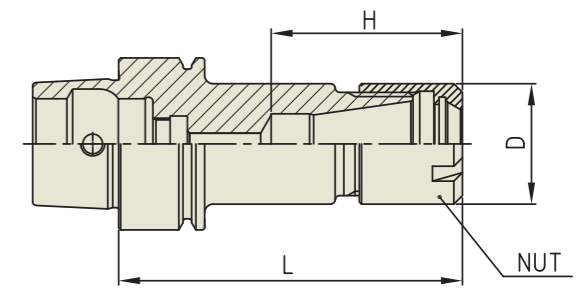
- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

HSK-E (DIN 69893/ISO 12164)

ER COLLET CHUCK (SLIM)

ER

SPANN FUTTER -ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



DIN 69893 - HSK	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
25E	HSK25E-ER8M-35	0.5 - 5.0	35	12	21.0	ER8M / ER8	0.15
	HSK25E-ER11M-40	0.5 - 7.0	40	16	24.5	ER11M / ER11	0.18
32E	HSK32E-ER8M-40	0.5 - 5.0	40	12	21.0	ER8M / ER8	0.15
	HSK32E-ER11M-40	0.5 - 7.0	40	16	23.0	ER11M / ER11	0.18
	HSK32E-ER16M-60	0.5 - 10.0	60	22	38.0	ER16M / ER16	0.21
40E	HSK32E-ER20M-60	0.5 - 13.0	60	28	39.5	ER20M / ER20	0.21
	HSK40E-ER11M-75	0.5 - 7.0	75	16	29.5	ER11M / ER11	0.40
	HSK40E-ER16M-80	0.5 - 10.0	80	22	38.0	ER16M / ER16	0.50
	HSK40E-ER20M-80	0.5 - 13.0	80	28	44.5	ER20M / ER20	0.70
	HSK40E-ER25M-80	1.0 - 16.0	80	35	52.0	ER25M / ER25	0.80

- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

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

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
25E	HSK25E-ER8M-35	0.5 - 5.0	35	12	21.0	ER8M / ER8	0.10
	HSK25E-ER11M-40	0.5 - 7.0	40	16	24.5	ER11M / ER11	0.10
32E	HSK32E-ER8M-40	0.5 - 5.0	40	12	21.0	ER8M / ER8	0.15
	HSK32E-ER11M-40	0.5 - 7.0	40	16	23.0	ER11M / ER11	0.15
	HSK32E-ER16M-60	0.5 - 10.0	60	22	38.0	ER16M / ER16	0.21
40E	HSK32E-ER20M-60	0.5 - 13.0	60	28	39.5	ER20M / ER20	0.20
	HSK40E-ER11M-75	0.5 - 7.0	75	16	29.5	ER11M / ER11	0.40
	HSK40E-ER16M-80	0.5 - 10.0	80	22	38.0	ER16M / ER16	0.50
	HSK40E-ER20M-80	0.5 - 13.0	80	28	44.5	ER20M / ER20	0.70
	HSK40E-ER25M-80	1.0 - 16.0	80	35	52.0	ER25M / ER25	0.80

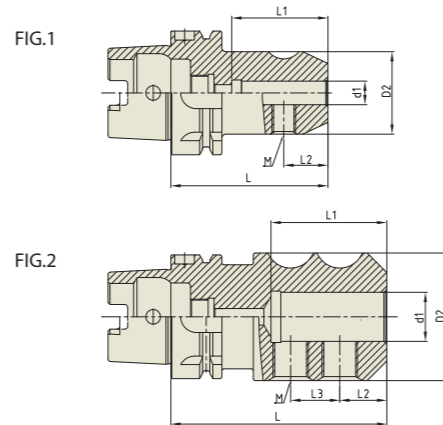
- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

HSK-A (DIN 69893/ISO 12164)

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



DIN 69893 - HSK	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40A	HSK40A-EMH6-60	6	25	60	38	18	-	M6	1	0.30
	HSK40A-EMH8-60	8	28	60	38	18	-	M8	1	0.30
	HSK40A-EMH10-60	10	35	60	42	20	-	M10	1	0.30
	HSK40A-EMH12-70	12	42	70	47	22.5	-	M12	1	0.40
	HSK40A-EMH14-70	14	44	70	47	22.5	-	M12	1	0.40
	HSK40A-EMH16-80	16	48	80	50	24	-	M14	1	0.60
50A	HSK50A-EMH6-65	6	25	65	38	18	-	M6	1	0.70
	HSK50A-EMH8-65	8	28	65	38	18	-	M8	1	0.80
	HSK50A-EMH10-65	10	35	65	42	20	-	M10	1	0.80
	HSK50A-EMH12-80	12	42	80	47	22.5	-	M12	1	1.20
	HSK50A-EMH14-80	14	44	80	47	22.5	-	M12	1	1.30
	HSK50A-EMH16-80	16	48	80	50	24	-	M14	1	1.30
	HSK50A-EMH18-80	18	50	80	50	24	-	M14	1	1.40
	HSK50A-EMH20-80	20	52	80	52	25	-	M16	1	1.50
63A	HSK63A-EMH6-65	6	25	65	35	18	-	M6	1	0.80
	HSK63A-EMH8-65	8	28	65	38	18	-	M8	1	0.80
	HSK63A-EMH10-65	10	35	65	42	20	-	M10	1	0.90
	HSK63A-EMH12-80	12	42	80	47	22.5	-	M12	1	1.10
	HSK63A-EMH14-80	14	44	80	47	22.5	-	M12	1	1.20
	HSK63A-EMH16-80	16	48	80	50	24	-	M14	1	1.30
	HSK63A-EMH18-80	18	50	80	50	24	-	M14	1	1.40
	HSK63A-EMH20-80	20	52	80	52	25	-	M16	1	1.50
	HSK63A-EMH25-110	25	65	110	60	24	25	M18	2	2.30
	HSK63A-EMH32-110	32	72	110	64	24	28	M20	2	2.60
100A	HSK100A-EMH6-80	6	25	80	35	18	-	M6	1	0.80
	HSK100A-EMH8-80	8	28	80	35	18	-	M8	1	0.80
	HSK100A-EMH10-80	10	35	80	39	20	-	M10	1	0.90
	HSK100A-EMH12-80	12	42	80	47	22.5	-	M12	1	1.10
	HSK100A-EMH14-80	14	44	80	47	22.5	-	M12	1	1.20
	HSK100A-EMH16-100	16	48	100	50	24	-	M14	1	1.30
	HSK100A-EMH18-100	18	50	100	50	24	-	M14	1	1.40
	HSK100A-EMH20-100	20	52	100	52	25	-	M16	1	1.50
	HSK100A-EMH25-100	25	65	100	60	24	25	M18	2	2.30
	HSK100A-EMH32-100	32	72	100	64	24	28	M20	2	2.60
	HSK100A-EMH40-120	40	80	120	74	30	32	M20	2	2.60

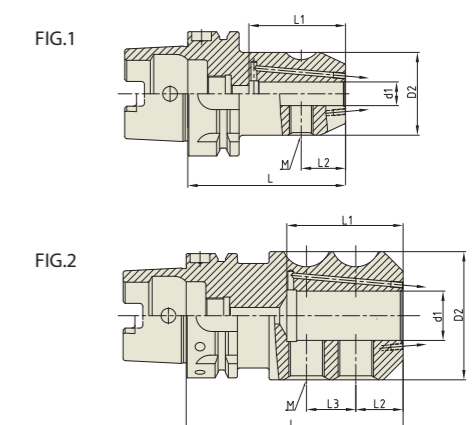
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

HSK-A (DIN 69893/ISO 12164)

END MILL HOLDER (COOLANT CHANNEL)

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



DIN 69893 - HSK	G Value 2.5	RPM 25,000	Coolant System AD+C
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40A	HSK40A-EMH6C-60	6	25	60	38	18	-	M6	1	0.30
	HSK40A-EMH8C-60	8	28	60	38	18	-	M8	1	0.30
	HSK40A-EMH10C-60	10	35	60	42	20	-	M10	1	0.30
	HSK40A-EMH12C-70	12	42	70	47	22.5	-	M12	1	0.40
	HSK40A-EMH14C-70	14	44	70	47	22.5	-	M12	1	0.40
	HSK40A-EMH16C-80	16	48	80	50	24	-	M14	1	0.60
50A	HSK50A-EMH6C-65	6	25	65	38	18	-	M6	1	0.70
	HSK50A-EMH8C-65	8	28	65	38	18	-	M8	1	0.80
	HSK50A-EMH10C-65	10	35	65	42	20	-	M10	1	0.80
	HSK50A-EMH12C-80	12	42	80	47	22.5	-	M12	1	1.20
	HSK50A-EMH14C-80	14	44	80	47	22.5	-	M12	1	1.30
	HSK50A-EMH16C-80	16	48	80	50	24	-	M14	1	1.30
	HSK50A-EMH18C-80	18	50	80	50	24	-	M14	1	1.40
	HSK50A-EMH20C-80	20	52	80	52	25	-	M16	1	1.50
63A	HSK63A-EMH6C-65	6	25	65	35	18	-	M6	1	0.80
	HSK63A-EMH8C-65	8	28	65	38	18	-	M8	1	0.80
	HSK63A-EMH10C-65	10	35	65	40.5	20	-	M10	1	0.90
	HSK63A-EMH12C-80	12	42	80	49	22.5	-	M12	1	1.10
	HSK63A-EMH14C-80	14	44	80	49	22.5	-	M12	1	1.20
	HSK63A-EMH16C-80	16	48	80	52	24	-	M14	1	1.30
	HSK63A-EMH18C-80	18	50	80	52	24	-	M14	1	1.40
	HSK63A-EMH20C-80	20	52	80	53	25	-	M16	1	1.50
	HSK63A-EMH25C-110	25	65	110	59	24	25	M18	2	2.30
	HSK63A-EMH32C-110	32	72	110	63	24	28	M20	2	2.60
100A	HSK100A-EMH6C-80	6	25	80	35	18	-	M6	1	0.80
	HSK100A-EMH8C-80	8	28	80	35	18	-	M8	1	0.80
	HSK100A-EMH10C-80	10	35	80	35.5	20	-	M10	1	0.90
	HSK100A-EMH12C-80	12	42	80	49	22.5	-	M12	1	1.10
	HSK100A-EMH14C-80	14	44	80	49	22.5	-	M12	1	1.20
	HSK100A-EMH16C-100	16	48	100	52	24	-	M14	1	1.30
	HSK100A-EMH18C-100	18	50	100	52	24	-	M14	1	1.40
	HSK100A-EMH20C-100	20	52	100	53	25	-	M16	1	1.50
	HSK100A-EMH25C-100	25	65	100	59	24	25	M18	2	2.30
	HSK100A-EMH32C-100	32	72	100	63	24	28	M20	2	2.60
	HSK100A-EMH40C-120	40	80	120	73	30	32	M20	2	2.60

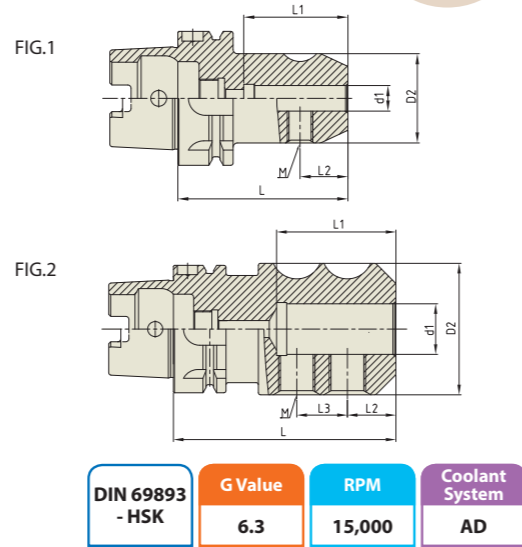
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

HSK-A (DIN 69893/ISO 12164)

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
 MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
 MANDRINI PORTA FRESA TIPO WELDON
 PORTAFRESAS Y EJES DE SUJECCION LATERAL



Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40A	HSK40A-EMH6-60	6	25	60	38	18	-	M6	1	0.30
	HSK40A-EMH8-60	8	28	60	38	18	-	M8	1	0.30
	HSK40A-EMH10-60	10	35	60	42	20	-	M10	1	0.30
	HSK40A-EMH12-70	12	42	70	47	22.5	-	M12	1	0.40
	HSK40A-EMH14-70	14	44	70	47	22.5	-	M12	1	0.40
	HSK40A-EMH16-80	16	48	80	50	24	-	M14	1	0.60
50A	HSK50A-EMH6-65	6	25	65	38	18	-	M6	1	0.70
	HSK50A-EMH8-65	8	28	65	38	18	-	M8	1	0.80
	HSK50A-EMH10-65	10	35	65	42	20	-	M10	1	0.80
	HSK50A-EMH12-80	12	42	80	47	22.5	-	M12	1	1.20
	HSK50A-EMH14-80	14	44	80	47	22.5	-	M12	1	1.30
	HSK50A-EMH16-80	16	48	80	50	24	-	M14	1	1.30
	HSK50A-EMH18-80	18	50	80	50	24	-	M14	1	1.40
	HSK50A-EMH20-80	20	52	80	52	25	-	M16	1	1.50
63A	HSK63A-EMH6-65	6	25	65	35	18	-	M6	1	0.80
	HSK63A-EMH8-65	8	28	65	38	18	-	M8	1	0.80
	HSK63A-EMH10-65	10	35	65	42	20	-	M10	1	0.90
	HSK63A-EMH12-80	12	42	80	47	22.5	-	M12	1	1.10
	HSK63A-EMH14-80	14	44	80	47	22.5	-	M12	1	1.20
	HSK63A-EMH16-80	16	48	80	50	24	-	M14	1	1.30
	HSK63A-EMH18-80	18	50	80	50	24	-	M14	1	1.40
	HSK63A-EMH20-80	20	52	80	52	25	-	M16	1	1.50
	HSK63A-EMH25-110	25	65	110	60	24	25	M18	2	2.30
	HSK63A-EMH32-110	32	72	110	64	24	28	M20	2	2.60
100A	HSK100A-EMH6-80	6	25	80	35	18	-	M6	1	0.80
	HSK100A-EMH8-80	8	28	80	35	18	-	M8	1	0.80
	HSK100A-EMH10-80	10	35	80	39	20	-	M10	1	0.90
	HSK100A-EMH12-80	12	42	80	47	22.5	-	M12	1	1.10
	HSK100A-EMH14-80	14	44	80	47	22.5	-	M12	1	1.20
	HSK100A-EMH16-100	16	48	100	50	24	-	M14	1	1.30
	HSK100A-EMH18-100	18	50	100	50	24	-	M14	1	1.40
	HSK100A-EMH20-100	20	52	100	52	25	-	M16	1	1.50
	HSK100A-EMH25-100	25	65	100	60	24	25	M18	2	2.30
	HSK100A-EMH32-100	32	72	100	64	24	28	M20	2	2.60
	HSK100A-EMH40-120	40	80	120	74	30	32	M20	2	2.60

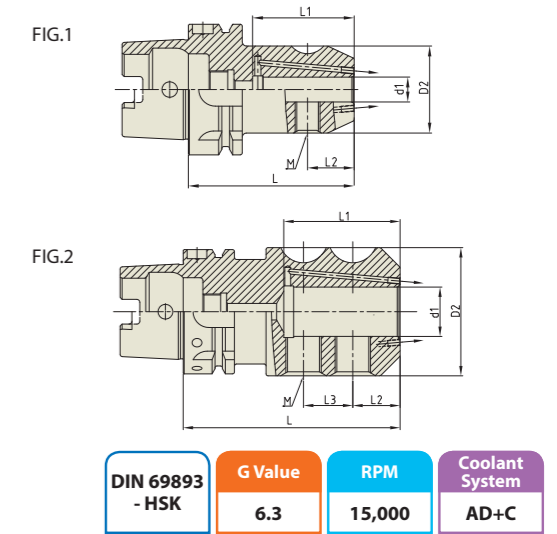
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.

HSK-A (DIN 69893/ISO 12164)

END MILL HOLDER (COOLANT CHANNEL)

EMH

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER
 MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
 MANDRINI PORTA FRESA TIPO WELDON
 PORTAFRESAS Y EJES DE SUJECCION LATERAL



Unit : mm

TAPER No.	MODEL No.	d1	D2	L	L1	L2	L3	M	FIG.	WEIGHT (Kg)
40A	HSK40A-EMH6C-60	6	25	60	38	18	-	M6	1	0.30
	HSK40A-EMH8C-60	8	28	60	38	18	-	M8	1	0.30
	HSK40A-EMH10C-60	10	35	60	42	20	-	M10	1	0.30
	HSK40A-EMH12C-70	12	42	70	47	22.5	-	M12	1	0.40
	HSK40A-EMH14C-70	14	44	70	47	22.5	-	M12	1	0.40
	HSK40A-EMH16C-80	16	48	80	50	24	-	M14	1	0.60
50A	HSK50A-EMH6C-65	6	25	65	38	18	-	M6	1	0.70
	HSK50A-EMH8C-65	8	28	65	38	18	-	M8	1	0.80
	HSK50A-EMH10C-65	10	35	65	42	20	-	M10	1	0.80
	HSK50A-EMH12C-80	12	42	80	47	22.5	-	M12	1	1.20
	HSK50A-EMH14C-80	14	44	80	47	22.5	-	M12	1	1.30
	HSK50A-EMH16C-80	16	48	80	50	24	-	M14	1	1.30
	HSK50A-EMH18C-80	18	50	80	50	24	-	M14	1	1.40
	HSK50A-EMH20C-80	20	52	80	52	25	-	M16	1	1.50
63A	HSK63A-EMH6C-65	6	25	65	35	18	-	M6	1	0.80
	HSK63A-EMH8C-65	8	28	65	38	18	-	M8	1	0.80
	HSK63A-EMH10C-65	10	35	65	42	20	-	M10	1	0.90
	HSK63A-EMH12C-80	12	42	80	47	22.5	-	M12	1	1.10
	HSK63A-EMH14C-80	14	44	80	47	22.5	-	M12	1	1.20
	HSK63A-EMH16C-80	16	48	80	50	24	-	M14	1	1.30
	HSK63A-EMH18C-80	18	50	80	50	24	-	M14	1	1.40
	HSK63A-EMH20C-80	20	52	80	52	25	-	M16	1	1.50
	HSK63A-EMH25C-110	25	65	110	60	24	25	M18	2	2.30
	HSK63A-EMH32C-110	32	72	110	64	24	28	M20	2	2.60
100A	HSK100A-EMH6C-80	6	25	80	35	18	-	M6	1	0.80
	HSK100A-EMH8C-80	8	28	80	35	18	-	M8	1	0.80
	HSK100A-EMH10C-80	10	35	80	35.5	20	-	M10	1	0.90
	HSK100A-EMH12C-80	12	42	80	49	22.5	-	M12	1	1.10
	HSK100A-EMH14C-80	14	44	80	49	22.5	-	M12	1	1.20
	HSK100A-EMH16C-100	16	48	100	52	24	-	M14	1	1.30
	HSK100A-EMH18C-100	18	50	100	52	24	-	M14	1	1.40
	HSK100A-EMH20C-100	20	52	100	53	25	-	M16	1	1.50
	HSK100A-EMH25C-100	25	65	100	59	24	25	M18	2	2.30
	HSK100A-EMH32C-100	32	72	100	63	24	28	M20	2	2.60
	HSK100A-EMH40C-120	40	80	120	73	30	32	M20	2	2.60

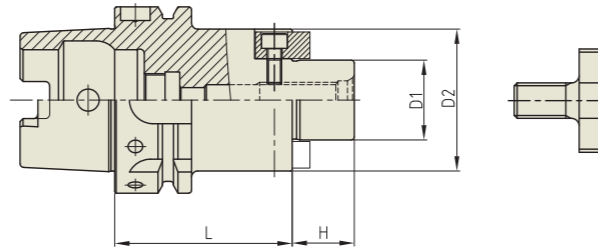
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.

HSK-A (DIN 69893/ISO 12164)

SHELL MILL ARBOR

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
MANDRIN PORTE-FRAISES
MANDRINO CON TRASCINAMENTO FISSO
PORTA FRESAS



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

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
40A	HSK40A-SMA16-50	16	32	50	17	M8x16L	0.40
	HSK40A-SMA22-50	22	40	50	19	M10x18L	0.50
	HSK40A-SMA27-60	27	48	60	21	M12x22L	0.60
50A	HSK50A-SMA16-50	16	32	50	17	M8x16L	0.50
	HSK50A-SMA22-60	22	40	60	19	M10x18L	0.57
	HSK50A-SMA27-60	27	48	60	21	M12x22L	0.75
	HSK50A-SMA32-60	32	58	60	24	M16x26L	0.90
63A	HSK63A-SMA16-50	16	32	50	17	M8x16L	0.81
	HSK63A-SMA22-50	22	40	50	19	M10x18L	0.93
	HSK63A-SMA27-60	27	48	60	21	M12x22L	1.22
	HSK63A-SMA32-60	32	58	60	24	M16x26L	1.46
	HSK63A-SMA40-60	40	70	60	27	M20x30L	1.80
100A	HSK100A-SMA16-50	16	32	50	17	M8x16L	2.14
	HSK100A-SMA22-50	22	40	50	19	M10x18L	2.25
	HSK100A-SMA27-50	27	48	50	21	M12x22L	2.40
	HSK100A-SMA32-50	32	58	50	24	M16x26L	2.60
	HSK100A-SMA40-60	40	70	60	27	M20x30L	3.25
	HSK100A-SMA50-70	50	90	70	30	M24x36L	5.40

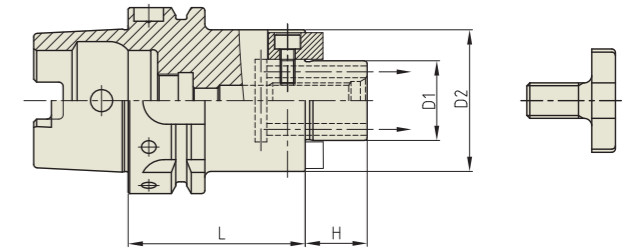
- ▶ Inch type products are available.
- ▶ For parts, please refer to page 329.

HSK-A (DIN 69893/ISO 12164)

SHELL MILL ARBOR (COOLANT CHANNEL & SMALL FACE)

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
MANDRIN PORTE-FRAISES
MANDRINO CON TRASCINAMENTO FISSO
PORTA FRESAS



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

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
63A	HSK63A-SMA16C-50	16	32	50	17	M8x16L	0.80
	HSK63A-SMA22C-50	22	40	50	19	M10x18L	0.92
	HSK63A-SMA22C-100	22	40	100	19	M10x18L	1.40
	HSK63A-SMA22C-160	22	40	160	19	M10x18L	1.97
	HSK63A-SMA27C-60	27	48	60	21	M12x22L	1.19
	HSK63A-SMA27C-100	27	48	100	21	M12x22L	1.74
	HSK63A-SMA27C-160	27	48	160	21	M12x22L	2.55
	HSK63A-SMA32C-60	32	58	60	24	M16x26L	1.50
	HSK63A-SMA32C-100	32	58	100	24	M16x26L	2.72
	HSK63A-SMA40C-60	40	70	60	27	M20x30L	1.66
100A	HSK100A-SMA16C-50	16	32	50	17	M8x16L	2.25
	HSK100A-SMA22C-50	22	40	50	19	M10x18L	2.25
	HSK100A-SMA22C-160	22	40	160	19	M10x18L	3.28
	HSK100A-SMA27C-50	27	48	50	21	M12x22L	2.40
	HSK100A-SMA27C-100	27	48	100	21	M12x22L	3.12
	HSK100A-SMA27C-160	27	48	160	21	M12x22L	4.01
	HSK100A-SMA32C-50	32	58	50	24	M16x26L	2.55
	HSK100A-SMA32C-100	32	58	100	24	M16x26L	3.49
	HSK100A-SMA32C-160	32	58	160	24	M16x26L	4.66
	HSK100A-SMA40C-60	40	70	60	27	M20x30L	3.10
HSK100A-SMA40C-100	40	70	100	27	M20x30L	4.19	
HSK100A-SMA40C-160	40	70	160	27	M20x30L	5.88	

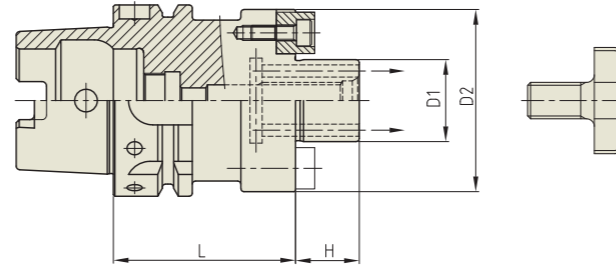
- ▶ Inch type products are available.
- ▶ With "Coolant Through" by coolant channels.
- ▶ For parts, please refer to page 329.

HSK-A (DIN 69893/ISO 12164)

SHELL MILL ARBOR (COOLANT CHANNEL & LARGE FACE)

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
MANDRIN PORTE-FRAISES
MANDRINO CON TRASCINAMENTO FISSO
PORTA FRESAS



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

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
63A	HSK63A-SMA16CE-50	16	38	50	17	M8x16L	0.86
	HSK63A-SMA16CE-100	16	38	100	17	M8x16L	1.29
	HSK63A-SMA16CE-145	16	38	145	17	M8x16L	1.68
	HSK63A-SMA22CE-50	22	48	50	19	M10x18L	1.02
	HSK63A-SMA22CE-100	22	48	100	19	M10x18L	1.71
	HSK63A-SMA22CE-160	22	48	160	19	M10x18L	2.54
	HSK63A-SMA27CE-60	27	60	60	21	M12x22L	1.39
	HSK63A-SMA27CE-100	27	60	100	21	M12x22L	2.25
	HSK63A-SMA27CE-160	27	60	160	21	M12x22L	3.54
	HSK63A-SMA32CE-60	32	78	60	24	M16x26L	1.70
	HSK63A-SMA32CE-100	32	78	100	24	M16x26L	3.40
	HSK63A-SMA40CE-60	40	89	60	27	M20x30L	1.99
100A	HSK100A-SMA16CE-100	16	38	100	17	M8x16L	2.63
	HSK100A-SMA22CE-50	22	48	50	19	M10x18L	2.34
	HSK100A-SMA22CE-100	22	48	100	19	M10x18L	3.02
	HSK100A-SMA22CE-160	22	48	160	19	M10x18L	3.85
	HSK100A-SMA27CE-50	27	60	50	21	M12x22L	2.54
	HSK100A-SMA27CE-100	27	60	100	21	M12x22L	3.60
	HSK100A-SMA27CE-160	27	60	160	21	M12x22L	4.90
	HSK100A-SMA32CE-50	32	78	50	24	M16x26L	2.90
	HSK100A-SMA32CE-100	32	78	100	24	M16x26L	4.68
	HSK100A-SMA32CE-160	32	78	160	24	M16x26L	6.86
	HSK100A-SMA40CE-60	40	89	60	27	M20x30L	3.68
	HSK100A-SMA40CE-100	40	89	100	27	M20x30L	5.51
HSK100A-SMA40CE-160	40	89	160	27	M20x30L	8.32	

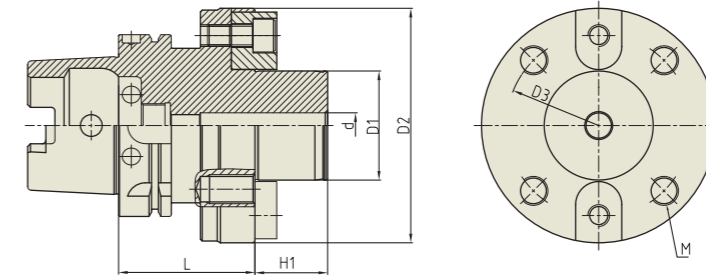
- ▶ Inch type products are available.
- ▶ With "Coolant Through" by coolant channels.
- ▶ For parts, please refer to page 329.

HSK-A (DIN 69893/ISO 12164)

SHELL MILL ARBOR (FLANGE MOUNTING)

SMF

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
MANDRIN PORTE-FRAISES
MANDRINO CON TRASCINAMENTO FISSO
PORTA FRESAS



DIN 69893 - HSK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d	D1	D2	D3	L	H1	M (TAP)	DRIVE KEY & BOLT	WEIGHT (Kg)
100A	HSK100A-SMF60-75	14	60	129	101.6	75	40	4-M16	25.4 x 25.4 x 31.5, M12-25L	-

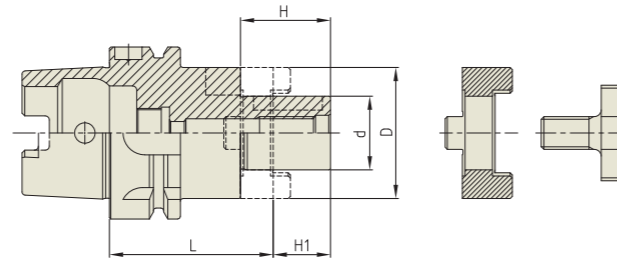
- ▶ Inch type products are available.

HSK-A (DIN 69893/ISO 12164)

COMBI-SHELL MILL ARBOR

CMA

KOMBI-AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
MANDRIN PORTE-FRAISES COMBINÉS
MANDRINO PORTA FRESE
PORTA FRESAS COMBINADO



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

TAPER No.	MODEL No.	d	L	D	H1	H	WEIGHT (Kg)
50A	HSK50A-CMA16-50	16	50	32	17	27	0.56
	HSK50A-CMA22-50	22	50	40	19	31	0.66
	HSK50A-CMA27-65	27	65	48	21	33	0.96
	HSK50A-CMA32-65	32	65	58	24	38	1.15
63A	HSK63A-CMA16-60	16	60	32	17	27	0.88
	HSK63A-CMA22-60	22	60	40	19	31	1.02
	HSK63A-CMA27-60	27	60	48	21	33	1.20
	HSK63A-CMA32-60	32	60	53	24	38	1.43
	HSK63A-CMA40-70	40	70	70	27	41	1.93
	HSK63A-CMA50-80	50	80	90	30	46	4.50
100A	HSK100A-CMA16-60	16	60	32	17	27	2.22
	HSK100A-CMA22-60	22	60	40	19	31	2.34
	HSK100A-CMA27-60	27	60	48	21	33	2.56
	HSK100A-CMA32-60	32	60	58	24	38	2.69
	HSK100A-CMA40-70	40	70	70	27	41	3.39

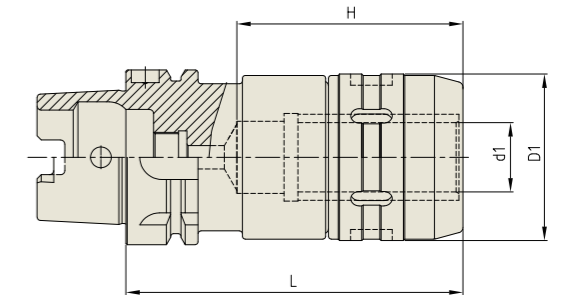
- ▶ Inch type products are available.
- ▶ For parts, please refer to page 330.

HSK-A (DIN 69893/ISO 12164)

HIGH-SPEED POWER MILLING CHUCK

C

HOCHGESCHWINDIGKEITS FRÄSERFUTTER
MANDRIN PORTE FRAISE À GRANDE VITESSE
MANDRINI PORTA FRESA PER ALTA VELOCITÀ
PORTAHERRAMIENTAS PARA FRESADO DE ALTA VELOCIDAD



DIN 69893 - HSK	G Value 6.3	RPM 20,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	WEIGHT (Kg)
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	120	80	2.20
100A	HSK63A-C32-130HS	32	72	130	100	2.70
	HSK100A-C20-110HS	20	54	110	70	3.50
	HSK100A-C25-130HS	25	62	130	80	3.80
	HSK100A-C32-135HS	32	72	135	100	4.20
	HSK100A-C42-135HS	42	72	135	100	5.30

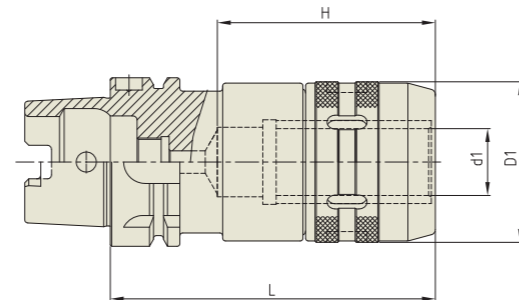
- ▶ Inch type products are available.
- ▶ Balancing Grade is adjusted on Basic holder only without Clamping Cap.
- ▶ For applicable collet and spanner, please refer to the page 332.

HSK-A (DIN 69893/ISO 12164)

POWER MILLING CHUCK

C

FRÄSERSPANNFUTTER
MANDRIN PORTE FRAISE
MANDRINI PORTA FRESA
PORTAHERRAMIENTAS PARA FRESADO



DIN 69893 - HSK
Coolant System AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	WEIGHT (Kg)
50A	HSK50A-C20-100	20	54	100	70	1.30
63A	HSK63A-C20-105	20	54	105	70	1.50
	HSK63A-C32-130	32	72	130	100	2.70
100A	HSK100A-C20-110	20	54	110	70	3.50
	HSK100A-C32-135	32	72	135	100	4.20
	HSK100A-C42-135	42	92	135	100	5.30

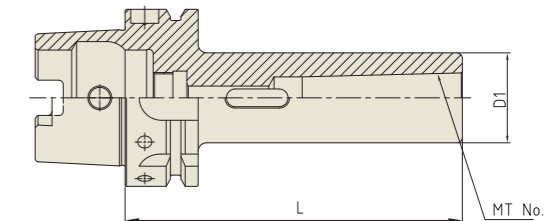
- ▶ Inch type products are available.
- ▶ For applicable collet and spanner, please refer to the page 332.

HSK-A (DIN 69893/ISO 12164)

MORSE TAPER ARBOR

MTA

EINSATZHÜLSEN FÜR MORSEKEGEL
DOUILLES DE RÉDUCTION CÔNE MORSE
MANDRINO RIDUZIONE CONO MORSE
REDUCTORES A MORSE



DIN 69893 - HSK
G Value 6.3
RPM 15,000
Coolant System A

Unit : mm

TAPER No.	MODEL No.	MT No.	D1	L	WEIGHT (Kg)
50A	HSK50A-MTA1-100	1	25	100	0.67
	HSK50A-MTA2-120	2	32	120	0.78
	HSK50A-MTA3-140	3	40	140	0.91
63A	HSK63A-MTA1-100	1	25	100	0.87
	HSK63A-MTA2-120	2	32	120	1.28
	HSK63A-MTA3-140	3	40	140	1.44
	HSK63A-MTA4-160	4	48	160	1.86
100A	HSK100A-MTA1-110	1	25	110	2.12
	HSK100A-MTA2-120	2	32	120	2.41
	HSK100A-MTA3-150	3	40	150	2.82
	HSK100A-MTA4-170	4	48	170	3.63
	HSK100A-MTA5-200	5	63	200	4.80

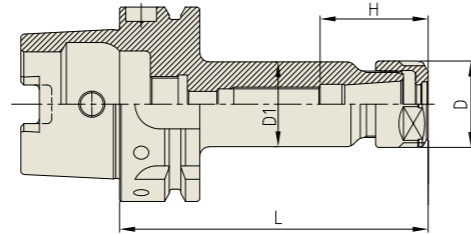
- ▶ Inch type products are available.

HSK-A (DIN 69893/ISO 12164)

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



DIN 69893 - HSK	G Value	RPM	Coolant System
	2.5	25,000	AD

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	D1	H	COLLET	WEIGHT (Kg)
32A	HSK32A-SKA06-50	1.8 - 6.0	50	20	19.5	31	SKC6	0.50
	HSK32A-SKA10-60	1.75 - 10.0	60	28	26	35	SKC10	0.70
40A	HSK40A-SKA06-60	1.8 - 6.0	60	20	19.5	31	SKC6	0.70
	HSK40A-SKA10-60	1.75 - 10.0	60	28	27.5	35	SKC10	0.90
	HSK40A-SKA13-80	2.75 - 13.0	80	33	33	43.6	SKC13	1.00
50A	HSK50A-SKA06-80	1.8 - 6.0	80	20	19.5	31	SKC6	0.90
	HSK50A-SKA10-100	1.75 - 10.0	100	28	27.5	35	SKC10	1.10
	HSK50A-SKA13-100	2.75 - 13.0	100	33	33	43.6	SKC13	1.20
63A	HSK63A-SKA06-100	1.8 - 6.0	100	20	19.5	31	SKC6	1.40
	HSK63A-SKA10-100	1.75 - 10.0	100	28	27.5	35	SKC10	1.60
	HSK63A-SKA13-100	2.75 - 13.0	100	33	33	43.6	SKC13	1.70
	HSK63A-SKA16-120	2.75 - 16.0	120	40	40	52	SKC16	1.70
	HSK63A-SKA20-120	3.5 - 20.0	120	48.5	48.5	59.6	SKC20	2.10
	HSK63A-SKA25-150	16.0 - 25.4	150	55	55	63.4	SKC25	2.40
80A	HSK80A-SKA06-120	1.8 - 6.0	120	20	19.5	31	SKC6	1.60
	HSK80A-SKA10-120	1.75 - 10.0	120	28	27.5	35	SKC10	1.72
	HSK80A-SKA13-120	2.75 - 13.0	120	33	33	43.6	SKC13	1.79
	HSK80A-SKA16-120	2.75 - 16.0	120	40	40	52	SKC16	1.96
	HSK80A-SKA20-130	3.5 - 20.0	130	48.5	48.5	59.6	SKC20	2.39
100A	HSK100A-SKA06-120	1.8 - 6.0	120	20	19.5	31	SKC6	4.00
	HSK100A-SKA10-150	1.75 - 10.0	150	28	27.5	35	SKC10	4.50
	HSK100A-SKA13-150	2.75 - 13.0	150	33	33	43.6	SKC13	4.60
	HSK100A-SKA16-150	2.75 - 16.0	150	40	40	52	SKC16	5.10
	HSK100A-SKA20-150	3.5 - 20.0	150	48.5	48.5	59.6	SKC20	5.40
	HSK100A-SKA25-160	16.0 - 25.4	160	55	55	63.4	SKC25	5.50

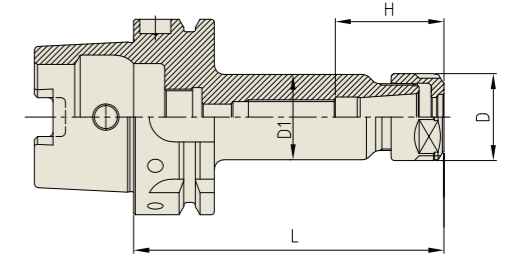
- ▶ Inch type products are available.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

HSK-A (DIN 69893/ISO 12164)

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



DIN 69893 - HSK	G Value	RPM	Coolant System
	6.3	15,000	AD

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	D1	H	COLLET	WEIGHT (Kg)
32A	HSK32A-SKA06-50	1.8 - 6.0	50	20	19.5	31	SKC6	0.50
	HSK32A-SKA10-60	1.75 - 10.0	60	28	26	35	SKC10	0.70
40A	HSK40A-SKA06-60	1.8 - 6.0	60	20	19.5	31	SKC6	0.70
	HSK40A-SKA10-60	1.75 - 10.0	60	28	27.5	35	SKC10	0.90
	HSK40A-SKA13-80	2.75 - 13.0	80	33	33	43.6	SKC13	1.00
50A	HSK50A-SKA06-80	1.8 - 6.0	80	20	19.5	31	SKC6	0.90
	HSK50A-SKA10-100	1.75 - 10.0	100	28	27.5	35	SKC10	1.10
	HSK50A-SKA13-100	2.75 - 13.0	100	33	33	43.6	SKC13	1.20
63A	HSK63A-SKA06-100	1.8 - 6.0	100	20	19.5	31	SKC6	1.40
	HSK63A-SKA10-100	1.75 - 10.0	100	28	27.5	35	SKC10	1.60
	HSK63A-SKA13-100	2.75 - 13.0	100	33	33	43.6	SKC13	1.70
	HSK63A-SKA16-120	2.75 - 16.0	120	40	40	52	SKC16	1.70
	HSK63A-SKA20-120	3.5 - 20.0	120	48.5	48.5	59.6	SKC20	2.10
	HSK63A-SKA25-150	16.0 - 25.4	150	55	55	63.4	SKC25	2.40
80A	HSK80A-SKA06-120	1.8 - 6.0	120	20	19.5	31	SKC6	1.60
	HSK80A-SKA10-120	1.75 - 10.0	120	28	27.5	35	SKC10	1.72
	HSK80A-SKA13-120	2.75 - 13.0	120	33	33	43.6	SKC13	1.79
	HSK80A-SKA16-120	2.75 - 16.0	120	40	40	52	SKC16	1.96
	HSK80A-SKA20-130	3.5 - 20.0	130	48.5	48.5	59.6	SKC20	2.39
100A	HSK100A-SKA06-120	1.8 - 6.0	120	20	19.5	31	SKC6	4.00
	HSK100A-SKA10-150	1.75 - 10.0	150	28	27.5	35	SKC10	4.50
	HSK100A-SKA13-150	2.75 - 13.0	150	33	33	43.6	SKC13	4.60
	HSK100A-SKA16-150	2.75 - 16.0	150	40	40	52	SKC16	5.10
	HSK100A-SKA20-150	3.5 - 20.0	150	48.5	48.5	59.6	SKC20	5.40
	HSK100A-SKA25-160	16.0 - 25.4	160	55	55	63.4	SKC25	5.50

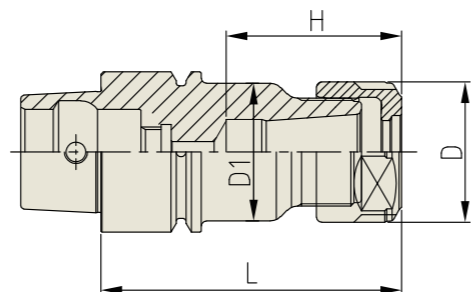
- ▶ Inch type products are available.
- ▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

HSK-E (DIN 69893/ISO 12164)

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



DIN 69893 - HSK	G Value 2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	D1	H	COLLET	WEIGHT (Kg)
25E	HSK25E-SKA06-45	1.8 - 6.0	45	20	19.5	31	SKC6	0.12
	HSK25E-SKA10-50	1.75 - 10.0	50	28	21.5	35	SKC10	0.14
32E	HSK32E-SKA06-50	1.8 - 6.0	50	20	19.5	31	SKC6	0.50
	HSK32E-SKA10-60	1.75 - 10.0	60	28	26	35	SKC10	0.70
40E	HSK40E-SKA06-60	1.8 - 6.0	60	20	19.5	31	SKC6	0.70
	HSK40E-SKA10-60	1.75 - 10.0	60	28	27.5	35	SKC10	0.90
	HSK40E-SKA13-80	2.75 - 13.0	80	33	33	43.6	SKC13	1.00

▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

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

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	D1	H	COLLET	WEIGHT (Kg)
25E	HSK25E-SKA06-45	1.8 - 6.0	45	20	19.5	31	SKC6	0.12
	HSK25E-SKA10-50	1.75 - 10.0	50	28	21.5	35	SKC10	0.14
32E	HSK32E-SKA06-50	1.8 - 6.0	50	20	19.5	31	SKC6	0.50
	HSK32E-SKA10-60	1.75 - 10.0	60	28	26	35	SKC10	0.70
40E	HSK40E-SKA06-60	1.8 - 6.0	60	20	19.5	31	SKC6	0.70
	HSK40E-SKA10-60	1.75 - 10.0	60	28	27.5	35	SKC10	0.90
	HSK40E-SKA13-80	2.75 - 13.0	80	33	33	43.6	SKC13	1.00

▶ Inch type products are available.

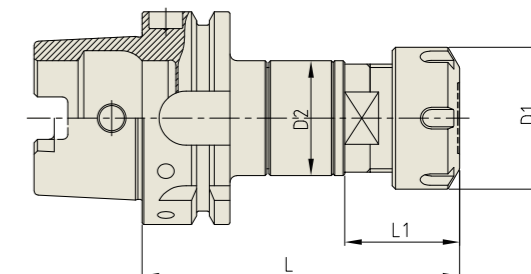
▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

HSK-A (DIN 69893/ISO 12164)

SYNCHRO TAPPING CHUCK (ER TYPE)

SYTER

SYNCHRO GEWINDESCHNEIDFUTTER (ER)
SYNCHRO TARAUDER (ER)
SINCRO MANDRINI PER MASCHIATURA (ER)
SINCRO PORTAMACHOS (ER)



DIN 69893 - HSK	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	TAP SIZE	NUT/ COLLET	D1	D2	L	L1	TENSION/ COMPRESSION	WEIGHT (Kg)
63A	HSK63A-SYTER12-105	M3-M12	ER16	28	34	105	31	±0.2	-
	HSK63A-SYTER16-106	M3-M16	ER20	34	34	106	31	±0.2	0.95
	HSK63A-SYTER16-120	M3-M16	ER20	34	34	120	31	±0.2	-
	HSK63A-SYTER20-110	M3-M20	ER25	42	34	110	37.5	±0.2	0.95
	HSK63A-SYTER20-120	M3-M20	ER25	42	34	120	37.5	±0.2	-
	HSK63A-SYTER27-115	M4-M27	ER32	50	45	115	41	±0.2	1.34
	HSK63A-SYTER27-155	M4-M27	ER32	50	45	155	41	±0.2	-
100A	HSK63A-SYTER33-130	M4-M33	ER40	63	62	130	60	±0.2	-
	HSK100A-SYTER20-106	M3-M20	ER25	42	34	106	36	±0.2	0.95
	HSK100A-SYTER27-124	M4-M27	ER32	50	45	124	41	±0.2	-
	HSK100A-SYTER27-155	M4-M27	ER32	50	45	155	41	±0.2	-
	HSK100A-SYTER33-135	M4-M33	ER40	63	62	135	60	±0.2	-

▶ Feature :

- Compensation for synchronization errors to extend tap life and to improve thread quality.
- To compensate for pitch tolerances of taps.
- For machine with synchronized spindle.

▶ Inch type products are available.

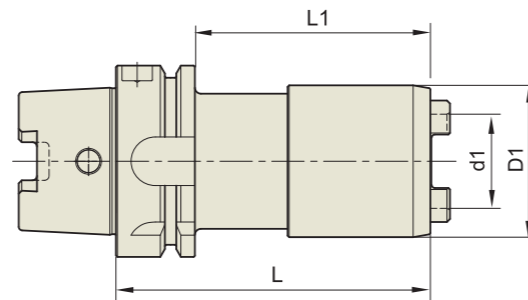
▶ ER collet of page 314~320, and Tap ER collet of page 321~322 are applicable.

HSK-A (DIN 69893/ISO 12164)

SYNCHRO TAPPING CHUCK (QUICK CHANGE TYPE)

SYTC

SYNCHRO GEWINDESCHNEID-SCHNELLWECHSELFUTTER
SYNCHRO TARAUDER À CHANGEMENT RAPIDE
SINCRO MANDRINO PER MASCHIARE
SINCRO PORTAMACHOS DE CAMBIO RAPIDO



Unit : mm

TAPER No.	MODEL No.	TAP SIZE	TAP ADAPTOR	d1	D1	L	L1	WEIGHT (Kg)
32A	HSK32A-SYTC12-75	M3-M12	TCS12	19	36	75	55	0.32
50A	HSK50A-SYTC12-72	M3-M12	TCS12	19	36	72	46	0.54
	HSK50A-SYTC20-91	M6-M24	TCS24	31	50	91	65	0.70
63A	HSK63A-SYTC12-75	M3-M12	TCS12	19	36	75	49	0.82
	HSK63A-SYTC12-80	M3-M12	TCS12	19	36	80	54	0.85
	HSK63A-SYTC12-120	M3-M12	TCS12	19	36	120	94	1.08
	HSK63A-SYTC12-152	M3-M12	TCS12	19	36	152	126	1.27
	HSK63A-SYTC12-180	M3-M12	TCS12	19	36	180	154	1.44
	HSK63A-SYTC20-89	M6-M24	TCS24	31	50	89	63	0.84
	HSK63A-SYTC33-121	M18-M38	TCS38	48	74	121	95	1.45
100A	HSK100A-SYTC12-75	M3-M12	TCS12	19	36	75	43	2.20
	HSK100A-SYTC12-160	M3-M12	TCS12	19	36	160	131	2.60
	HSK100A-SYTC20-94	M6-M24	TCS24	31	50	94	65	2.39
	HSK100A-SYTC20-160	M6-M24	TCS24	31	50	160	131	2.99
	HSK100A-SYTC33-127	M18-M38	TCS38	48	74	127	98	3.11
	HSK100A-SYTC33-160	M18-M38	TCS38	48	74	160	131	4.03

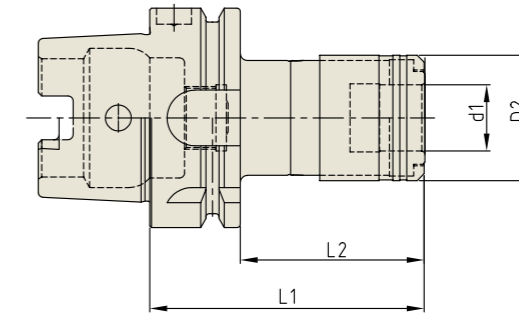
- Feature :
- Compensation for synchronization errors to extend tap life and to improve thread quality.
 - To compensate for pitch tolerances of taps.
 - For machine with synchronized spindle.
- For applicable Tap Adaptor, please refer to page 336~337.

HSK-A (DIN 69893/ISO 12164)

ONE STEP TAPPING CHUCK

OTC

GEWINDE-SCHNELLWECHSELFUTTER
MANDRIN DE TARAUDAGE À CHANGEMENT RAPIDE
PORTAMASCHI A CAMBIO RAPIDO
MANDRINO DE CAMBIO RÁPIDO CON ROSCA



Unit : mm

TAPER No.	MODEL No.	d1	D2	L1	L2	LENGTH COMPENSATION		WEIGHT (Kg)
						Compression	Tension	
63A	HSK63A-OTC-M3-M12-77	19	36	77	51	7.5	7.5	1.10
	HSK63A-OTC-M8-M20-110	31	53	110	84	12.5	12.5	1.50
	HSK63A-OTC-M14-M36-155	48	78	155	129	20	20	3.30
100A	HSK100A-OTC-M3-M12-85.5	19	36	85.5	56.5	7.5	7.5	3.00
	HSK100A-OTC-M8-M20-119.5	31	53	119.5	90.5	12.5	12.5	3.30
	HSK100A-OTC-M14-M36-161	48	78	161	132	20	20	5.20

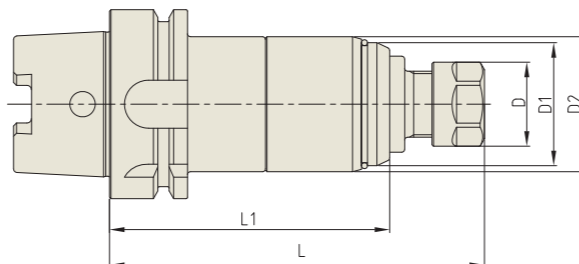
► For applicable Tap Adaptor, please refer to page 336~337.

HSK-A (DIN 69893/ISO 12164)

TAPPING ER CHUCK

TER

ER - GEWINDESCHNEIDFUTTER
MANDRIN DE TARAUDAGE PINCE ER
MANDRINI PORTAPINZA ER PER MASCHIATURA
PORTAPINZAS ER PARA MACHOS



Unit : mm

TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT / COLLET	WEIGHT (Kg)
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

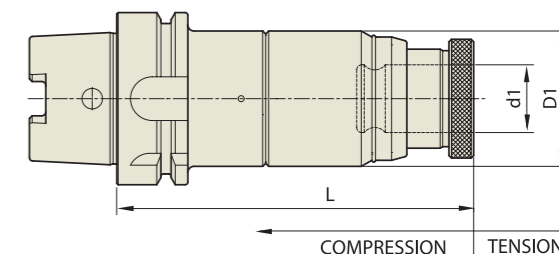
▶ Inch type products are available.
▶ ER collet of page 314~320 and Tap ER collet of page 321~322 are applicable.

HSK-A (DIN 69893/ISO 12164)

TAPPING CHUCK

TC

GEWINDESCHNEID - SCHNELLWECHSELFUTTER
TARAUDER À CHANGEMENT RAPIDE
MANDRINO PER MASCHIARE
PORTAMACHOS DE CAMBIO RAPIDO



Unit : mm

TAPER No.	MODEL No.	TAP SIZE	TAP ADAPTOR	LENGTH COMPENSATION		d1	D1	L	WEIGHT (Kg)
				Compression	Tension				
50A	HSK50A-TC12-120	M3-M12	TCS12	5	15	19	45	120	0.80
63A	HSK63A-TC12-120	M3-M12	TCS12	5	15	19	45	120	1.00
	HSK63A-TC12-150	M3-M12	TCS12	5	15	19	45	150	1.70
	HSK63A-TC24-142	M6-M24	TCS24	5	20	31	63	142	2.40
	HSK63A-TC24-172	M6-M24	TCS24	5	20	31	63	172	2.70
100A	HSK100A-TC12-130	M3-M12	TCS12	5	15	19	45	130	4.30
	HSK100A-TC12-175	M3-M12	TCS12	5	15	19	45	175	4.80
	HSK100A-TC12-220	M3-M12	TCS12	5	15	19	45	220	5.30
	HSK100A-TC24-142	M6-M24	TCS24	5	20	31	63	142	5.20
	HSK100A-TC24-187	M6-M24	TCS24	5	20	31	63	187	6.60
	HSK100A-TC38-200	M18-M38	TCS38	10	25	48	98	200	8.00

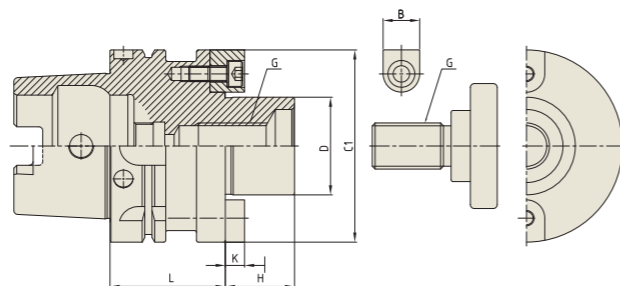
▶ For applicable Tap Adaptor, please refer to page 336~337.

HSK-A (DIN 69893/ISO 12164)

FACE MILL ARBOR

FMA

AUFNAHMEDORN FÜR MESSERKÖPFE
ARBRE PORTE FRAISE À ALÉSAGE
MANDRINO PORTA FRESE FRONTALE
EJE PARA PLATOS DE PLACAS



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

TAPER No.	MODEL No.	D	L	C1	H	B	K	G	WEIGHT (Kg)
40A	HSK40A-FMA25.4-50	25.4	50	50	22	9.52	4.8	M12	0.61
50A	HSK50A-FMA25.4-60	25.4	60	50	22	9.52	4.8	M12	0.90
63A	HSK63A-FMA25.4-45	25.4	45	50	22	9.52	4.8	M12	1.03
	HSK63A-FMA31.75-50	31.75	50	60	30	12.7	6.35	M16	1.26
100A	HSK100A-FMA25.4-45	25.4	45	50	22	9.52	4.8	M12	2.31
	HSK100A-FMA31.75-50	31.75	50	60	30	12.7	6.35	M16	2.61
	HSK100A-FMA38.1-55	38.1	55	80	34	15.87	7.8	M20	3.22
	HSK100A-FMA50.8-60	50.8	60	100	36	19.05	11	M24	4.06

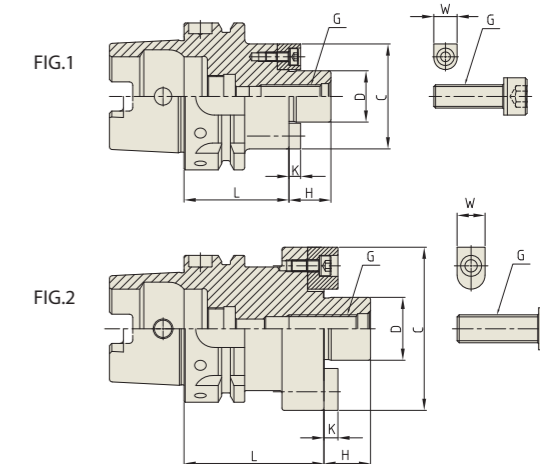
► For parts, please refer to page 331.

HSK-A (DIN 69893/ISO 12164)

FACE MILL ARBOR

FMC

AUFNAHMEDORN FÜR MESSERKÖPFE
ARBRE PORTE FRAISE À ALÉSAGE
MANDRINO PORTA FRESE FRONTALE
EJE PARA PLATOS DE PLACAS



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

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	WEIGHT (Kg)
40A	HSK40A-FMC16-45	16	45	34	17	8	4	M8	1	0.43
	HSK40A-FMC22-50	22	50	45	18	10	5	M10	2	0.56
50A	HSK40A-FMC27-60	27	60	70	20	12	6	M12	2	1.02
	HSK50A-FMC16-40	16	40	34	17	8	4	M8	1	0.54
63A	HSK50A-FMC22-50	22	50	45	18	10	5	M10	2	0.73
	HSK50A-FMC27-60	27	60	70	20	12	6	M12	2	1.20
	HSK63A-FMC22-45	22	45	45	18	10	5	M10	1	0.97
100A	HSK63A-FMC27-60	27	60	70	20	12	6	M12	2	1.57
	HSK63A-FMC32-60	32	60	83	22	14	7	M16	2	1.81
100A	HSK100A-FMC22-50	22	50	45	18	10	5	M10	1	2.33
	HSK100A-FMC27-60	27	60	70	20	12	6	M12	1	3.02
	HSK100A-FMC32-60	32	60	85	22	14	7	M16	1	3.41

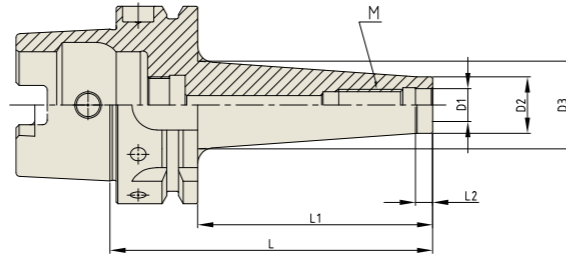
► For parts, please refer to page 331.

HSK-A (DIN 69893/ISO 12164)

COPY MILL ARBOR

M

WERKZEUGAUFNAHME FÜR EINSCHRAUBFRÄSER MIT GEWINDE
MANDRIN POUR FRAISES À QUEUE FILETÉE AVEC FILETAGE
MANDRINO PER FRESE MODULARI FILETTATE
PORTAHERRAMIENTAS PARA FRESAS DE ENROSCAR CON ROSCA



DIN 69893 - HSK	G Value	RPM	Run-Out (at I.D.)	Coolant System
	2.5	25,000	≤3μm	AD

Unit : mm

TAPER No.	MODEL No. (M-L1)	D1	D2	D3	L	L1	L2	WEIGHT (Kg)
63A	HSK63A-M5-25	5.5	10	13	51	25	5	0.77
	HSK63A-M6-25	6.5	10	13	51	25	5	0.77
	HSK63A-M8-25	8.5	13	15	51	25	5	0.81
	HSK63A-M8-50	8.5	13	23	76	50	5	1.09
	HSK63A-M8-75	8.5	13	23	101	75	5	1.29
	HSK63A-M10-25	10.5	18	20	51	25	5	0.90
	HSK63A-M10-50	10.5	18	23	76	50	5	1.20
	HSK63A-M10-75	10.5	18	28	101	75	5	1.33
	HSK63A-M10-100	10.5	18	32	126	100	5	1.45
	HSK63A-M10-150	10.5	18	36.5	176	150	5	1.60
	HSK63A-M12-25	12.5	21	24	51	25	5	0.98
	HSK63A-M12-50	12.5	21	24	76	50	5	1.29
	HSK63A-M12-75	12.5	21	31	101	75	5	1.92
	HSK63A-M12-100	12.5	21	33	126	100	5	2.48
	HSK63A-M12-150	12.5	21	40	176	150	5	4.19
	HSK63A-M16-25	17	29	29	51	25	5	0.78
	HSK63A-M16-50	17	29	34	76	50	5	1.85
	HSK63A-M16-75	17	29	34	101	75	5	2.46
	HSK63A-M16-100	17	29	36	126	100	5	3.23
	HSK63A-M16-150	17	29	42.5	176	150	5	5.39
100A	HSK100A-M8-50	8.5	13	23	79	50	5	2.33
	HSK100A-M10-50	10.5	18	23	79	50	5	2.35
	HSK100A-M10-100	10.5	18	32	129	100	10	2.59
	HSK100A-M10-150	10.5	18	36.5	179	150	10	2.90
	HSK100A-M12-50	12.5	21	24	79	50	5	2.37
	HSK100A-M12-100	12.5	21	33	129	100	10	2.64
	HSK100A-M12-150	12.5	21	40	179	150	10	3.05
	HSK100A-M16-50	17	29	34	79	50	5	2.48
	HSK100A-M16-100	17	29	36	129	100	10	2.81
	HSK100A-M16-150	17	29	42.5	179	150	10	3.32

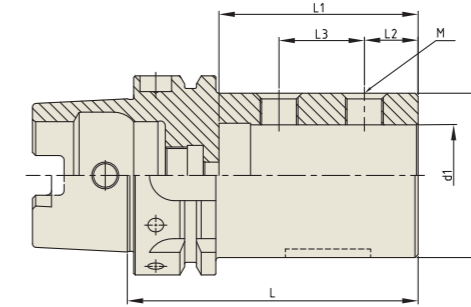
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For the screw-in milling cutters with thread.

HSK-A (DIN 69893/ISO 12164)

INDEXABLE DRILL HOLDER

SL

WERKZEUGHALTER FÜR VOLLBOHRER
MANDRIN POUR FORETS À PLAQUETTES
MANDRINO PER PUNTE A INSERTI
SOPORTE PARA HERRAMIENTAS PARA BROCAS DE ACERO MACIZO



DIN 69893 - HSK	G Value	RPM	Coolant System
	6.3	15,000	AD

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	L1	L2	L3	M	WEIGHT (Kg)
63A	HSK63A-SL20-80	20	40	80	54	15	20	M10	1.04
	HSK63A-SL25-90	25	45	90	59	17	23	M12	1.21
	HSK63A-SL32-90	32	52	90	63	17	27	M12	1.30
	HSK63A-SL40-105	40	60	105	73	22	28	M16	1.58
100A	HSK100A-SL20-90	20	40	90	54	15	20	M10	2.71
	HSK100A-SL25-95	25	45	95	59	17	23	M12	2.84
	HSK100A-SL32-100	32	52	100	63	17	27	M12	3.03
	HSK100A-SL40-110	40	60	110	73	22	28	M16	3.32

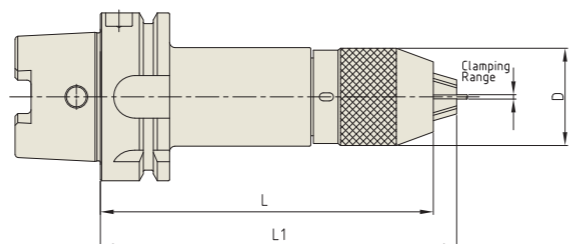
- ▶ Inch type products are available.
- ▶ For the indexable drills with parallel shank.

HSK-A (DIN 69893/ISO 12164)

NC DRILL CHUCK (KEYLESS TYPE)

NPU

NC - BOHRFUTTER
MANDRIN DE PERÇAGE NC
NC MANDRINI PORTA PUNTE
PORTABROCAS PARA BROCAS NC



DIN 69893
- HSK

Coolant System
A

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L (Min.)	L1 (Max.)	WEIGHT (Kg)
40A	HSK40A-NPU 8-120	0.3 - 8.0	36.5	120	125.7	1.00
50A	HSK50A-NPU 8-120	0.3 - 8.0	36.5	120	125.7	1.20
	HSK50A-NPU13-150	0.3 - 13.0	50.4	150	160	2.10
63A	HSK63A-NPU 8-125	0.3 - 8.0	36.5	125	130.7	2.10
	HSK63A-NPU13-150	0.3 - 13.0	50.4	150	160	3.00
100A	HSK100A-NPU 8-130	0.3 - 8.0	36.5	130	135.7	4.80
	HSK100A-NPU13-150	0.3 - 13.0	50.4	150	160	5.50

► Supplied with hook wrench. (Size NPU 8 : 85, NPU 13 : 135)

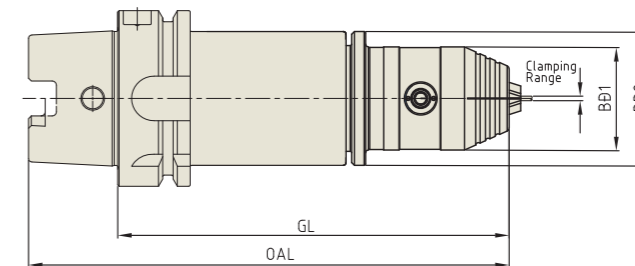
HSK-A (DIN 69893/ISO 12164)

NC DRILL CHUCK (HEX. KEY TYPE)

NEW

HKD

NC - BOHRFUTTER
MANDRIN DE PERÇAGE NC
NC MANDRINI PORTA PUNTE
PORTABROCAS PARA BROCAS NC



DIN 69893
- HSK

Coolant System
AD

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	OAL	GL	BD1	BD2	WEIGHT (Kg)
63A	HSK63A-HKD8-155	0.3 - 8.0	187	155	37	48	-
	HSK63A-HKD13-175	0.3 - 13.0	207	175	50.1	50.1	-

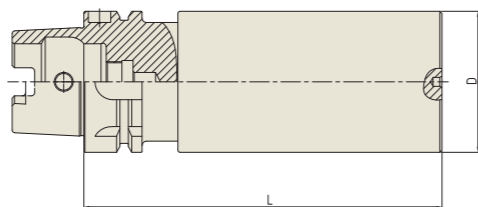
► Supplied with hex. wrench. (Size HKD 8 : 4mm, HKD 13 : 6mm)

HSK-A (DIN 69893/ISO 12164)

BLANK BAR

BL

BOHRSTANGENROHLING
EBAUCHE DE BARRES D ALÉSAGE
BARRA ALESATRICE GREZZA
PIEZA EN BRUTO PARA BARRAS DE MANDRINAR



DIN 69893
- HSK

Coolant
System
A

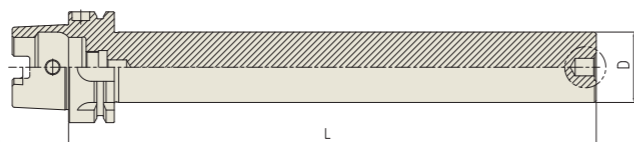
Unit : mm

TAPER No.	MODEL No.	D	L	WEIGHT(Kg)
63A	HSK63A-BL63-160	63	160	3.91
100A	HSK100A-BL97-250	97	250	17.70

TEST BAR

TB

KONTROLLDORN
MANDRIN DE CONTRÔLE
MANDRINO DI CONTROLLO
MANDRIL DE CONTROL



DIN 69893
- HSK

Run-Out
≤3μm

Coolant
System
A

Unit : mm

TAPER No.	MODEL No.	D	L	WEIGHT(Kg)
63A	HSK63A-TB40-300	40	300	2.90
100A	HSK100A-TB50-300	50	300	6.17

SSK TOOLING SYSTEM STRAIGHT

SHRINK FIT HOLDER - EXTENSION 232-233P

ER COLLET CHUCK 234-238P

SK SLIM CHUCK 239P

SYNCHRO TAPPING CHUCK 240-241P

ONE STEP TAPPING CHUCK 242P

TAPPING CHUCK 243P

NC DRILL CHUCK (KEYLESS TYPE) 244P



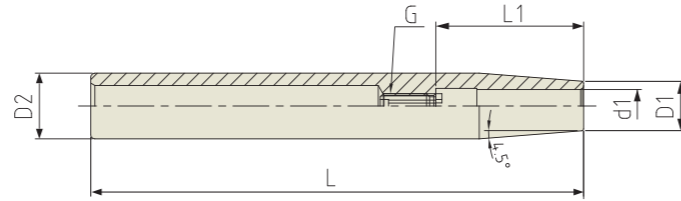
SSK

STRAIGHT

SHRINK FIT HOLDER - EXTENSION

SFH

SCHRUMPFUTTER (VERLÄGERUNG)
 MANDRIN DE FRETTAGE (EXTENSION)
 MADRINI PER CALLETAMENTO A CALDO (PROLUNGHE)
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR (EXTENSION)



Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	G	WEIGHT (Kg)
12	ST12-SFH3-120	3	8	12	120	10	-	0.05
	ST12-SFH4-120	4	8	12	120	12	-	0.05
	ST12-SFH5-120	5	10	12	120	15	-	0.08
	ST12-SFH6-120	6	10	12	120	36	M5×0.8	0.07
16	ST16-SFH3-120	3	10	16	120	10	-	0.14
	ST16-SFH4-120	4	10	16	120	12	-	0.14
	ST16-SFH5-120	5	10	16	120	15	-	0.14
	ST16-SFH6-120	6	10	16	120	36	M5×0.8	0.14
	ST16-SFH8-120	8	12	16	120	36	M6×1.0	0.12
20	ST20-SFH3-120	3	10	20	120	10	-	0.21
	ST20-SFH4-120	4	10	20	120	12	-	0.21
	ST20-SFH5-120	5	10	20	120	15	-	0.20
	ST20-SFH6-120	6	10	20	120	36	M5×0.8	0.20
	ST20-SFH8-120	8	12	20	120	36	M6×1.0	0.19
	ST20-SFH10-120	10	14	20	120	43	M8×1.0	0.20
	ST20-SFH12-120	12	16	20	120	48	M10×1.0	0.18

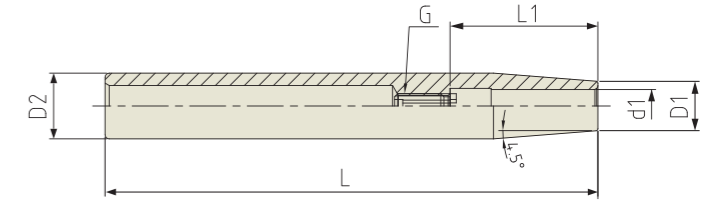
▶ Inch type products are available.

STRAIGHT

SHRINK FIT HOLDER - EXTENSION

SFH

SCHRUMPFUTTER (VERLÄGERUNG)
 MANDRIN DE FRETTAGE (EXTENSION)
 MADRINI PER CALLETAMENTO A CALDO (PROLUNGHE)
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR (EXTENSION)



Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	G	WEIGHT (Kg)
12	ST12-SFH3-160	3	8	12	160	10	-	0.07
	ST12-SFH4-160	4	8	12	160	12	-	0.07
	ST12-SFH5-160	5	10	12	160	15	-	0.10
	ST12-SFH6-160	6	10	12	160	36	M5×0.8	0.13
16	ST16-SFH3-160	3	10	16	160	10	-	0.20
	ST16-SFH4-160	4	10	16	160	12	-	0.20
	ST16-SFH5-160	5	10	16	160	15	-	0.20
	ST16-SFH6-160	6	10	16	160	36	M5×0.8	0.19
	ST16-SFH8-160	8	12	16	160	36	M6×1.0	0.16
20	ST20-SFH3-160	3	10	20	160	10	-	0.30
	ST20-SFH4-160	4	10	20	160	12	-	0.30
	ST20-SFH5-160	5	10	20	160	15	-	0.29
	ST20-SFH6-160	6	10	20	160	36	M5×0.8	0.29
	ST20-SFH8-160	8	12	20	160	36	M6×1.0	0.27
	ST20-SFH10-160	10	14	20	160	43	M8×1.0	0.27
	ST20-SFH12-160	12	16	20	160	48	M10×1.0	0.23
25	ST25-SFH3-160	3	10	25	160	10	-	0.41
	ST25-SFH4-160	4	10	25	160	12	-	0.39
	ST25-SFH5-160	5	15	25	160	15	-	0.50
	ST25-SFH6-160	6	20	25	160	36	M5×0.8	0.55
	ST25-SFH8-160	8	20	25	160	36	M6×1.0	0.51
	ST25-SFH10-160	10	20	25	160	43	M8×1.0	0.50
	ST25-SFH12-160	12	20	25	160	48	M10×1.0	0.44
	ST25-SFH14-160	14	20	25	160	48	M10×1.0	0.40
	ST25-SFH16-160	16	22	25	160	51	M12×1.0	0.39
32	ST32-SFH6-160	6	20	32	160	36	M5×0.8	0.92
	ST32-SFH8-160	8	20	32	160	36	M6×1.0	0.88
	ST32-SFH10-160	10	24	32	160	43	M8×1.0	0.83
	ST32-SFH12-160	12	24	32	160	48	M10×1.0	0.78
	ST32-SFH14-160	14	27	32	160	48	M10×1.0	0.78
	ST32-SFH16-160	16	27	32	160	51	M12×1.0	0.76
	ST32-SFH18-160	18	27	32	160	51	M12×1.0	0.63
	ST32-SFH20-160	20	27	32	160	53	M16×1.0	0.60

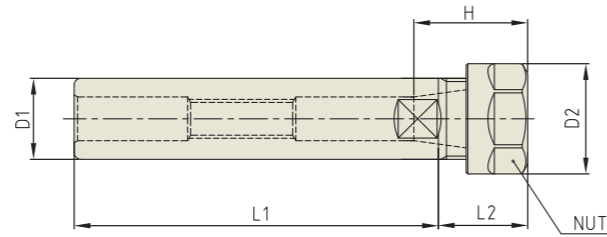
▶ Inch type products are available.

STRAIGHT-K

ER COLLET CHUCK (STANDARD)

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L1	L2	H	NUT / COLLET	WEIGHT (Kg)
16	K16-ER11-100	0.5 - 7.0	16	19	100	32	27	ER11	0.15
	K16-ER16-100	0.5 - 10.0	16	28	100	36	32.6	ER16	0.18
20	K20-ER16-100	0.5 - 10.0	20	28	100	36	35.6	ER16	0.25
	K20-ER20-100	0.5 - 13.0	20	34	100	40	38	ER20	0.29
25	K20-ER25-100	1.0 - 16.0	20	42	100	50	44	ER25	0.35
	K25-ER20-100	0.5 - 13.0	25	34	100	40	71.6	ER20	0.40
32	K25-ER25-100	1.0 - 16.0	25	42	100	50	43.1	ER25	0.45
	K32-ER16-100	0.5 - 10.0	32	28	100	36	-	ER16	0.50
32	K32-ER20-100	0.5 - 13.0	32	34	100	40	71.6	ER20	0.66
	K32-ER25-100	1.0 - 16.0	32	42	100	50	71.1	ER25	0.75
	K32-ER32-100	1.0 - 20.0	32	50	100	58	78	ER32	1.00

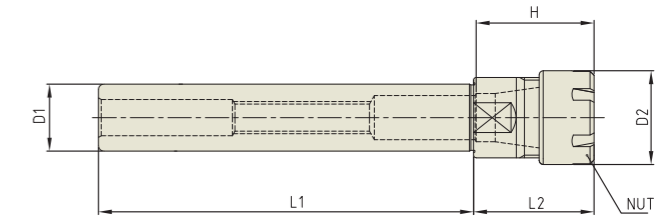
▶ For applicable ER collet, please refer to page 314~322.
 ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

STRAIGHT-K

EXTENSION ER COLLET CHUCK (SLIM)

ER

VERLÄNGERUNG SPANN FUTTER (SCHLANK)
 EXTENSION MANDRIN Á PINCES (MINCE)
 PROLUNGHE MANDRINO PORTA PINZE (SOTTILE)
 EXTENSION PORTAPINZAS (DELGADO)



Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L1	L2	H	NUT / COLLET	WEIGHT (Kg)
12	K12-ER8M-70	0.5 - 5.0	12	12	70	25.0	38.0	ER8M / ER8	0.10
	K12-ER8M-100	0.5 - 5.0	12	12	100	25.0	38.0	ER8M / ER8	0.13
	K12-ER8M-150	0.5 - 5.0	12	12	150	25.0	38.0	ER8M / ER8	0.17
	K12-ER8M-200	0.5 - 5.0	12	12	200	25.0	38.0	ER8M / ER8	0.21
	K12-ER8M-250	0.5 - 5.0	12	12	250	25.0	38.0	ER8M / ER8	0.26
	K12-ER8M-300	0.5 - 5.0	12	12	300	25.0	38.0	ER8M / ER8	0.3
16	K16-ER11M-100	0.5 - 7.0	16	16	100	32.0	29.5	ER11M / ER11	0.18
	K16-ER11M-140	0.5 - 7.0	16	16	140	32.0	29.5	ER11M / ER11	0.23
	K16-ER11M-200	0.5 - 7.0	16	16	200	32.0	29.5	ER11M / ER11	0.37
	K16-ER11M-250	0.5 - 7.0	16	16	250	32.0	29.5	ER11M / ER11	0.45
	K16-ER11M-300	0.5 - 7.0	16	16	300	32.0	29.5	ER11M / ER11	0.52
	K16-ER16M-100	0.5 - 10.0	16	22	100	36.0	38.0	ER16M / ER16	0.18
	K16-ER16M-140	0.5 - 10.0	16	22	140	36.0	38.0	ER16M / ER16	0.23
	K16-ER16M-200	0.5 - 10.0	16	22	200	36.0	38.0	ER16M / ER16	0.37
	K16-ER16M-250	0.5 - 10.0	16	22	250	36.0	38.0	ER16M / ER16	0.45
	K16-ER16M-300	0.5 - 10.0	16	22	300	36.0	38.0	ER16M / ER16	0.52
20	K20-ER16M-100	0.5 - 10.0	20	22	100	41.0	-	ER16M / ER16	0.22
	K20-ER16M-140	0.5 - 10.0	20	22	140	41.0	-	ER16M / ER16	0.28
	K20-ER16M-200	0.5 - 10.0	20	22	200	41.0	-	ER16M / ER16	0.54
	K20-ER16M-250	0.5 - 10.0	20	22	250	41.0	-	ER16M / ER16	0.66
	K20-ER16M-300	0.5 - 10.0	20	22	300	41.0	-	ER16M / ER16	0.78
	K20-ER20M-100	0.5 - 13.0	20	28	100	41.0	41.5	ER20M / ER20	0.25
	K20-ER20M-140	0.5 - 13.0	20	28	140	41.0	41.5	ER20M / ER20	0.32
	K20-ER20M-200	0.5 - 13.0	20	28	200	41.0	41.5	ER20M / ER20	0.54
	K20-ER20M-250	0.5 - 13.0	20	28	250	41.0	41.5	ER20M / ER20	0.66
	K20-ER20M-300	0.5 - 13.0	20	28	300	41.0	41.5	ER20M / ER20	0.78

▶ For applicable ER collet, please refer to page 314~322.
 ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

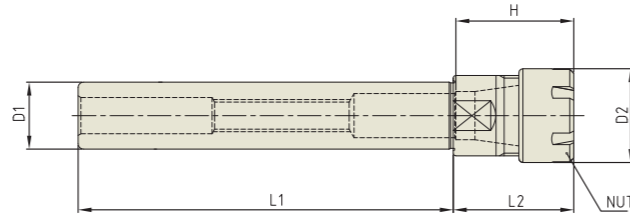
▶ NEXT PAGE

STRAIGHT-K

EXTENSION ER COLLET CHUCK (SLIM)

ER

VERLÄNGERUNG SPANN FUTTER (SCHLANK)
 EXTENSION MANDRIN Á PINCES (MINCE)
 PROLUNGHE MANDRINO PORTA PINZE (SOTTILE)
 EXTENSION PORTAPINZAS (DELGADO)



Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L1	L2	H	NUT / COLLET	WEIGHT (Kg)
25	K25-ER16M-100	0.5 - 10.0	25	22	100	41.0	-	ER16M / ER16	0.38
	K25-ER16M-140	0.5 - 10.0	25	22	140	41.0	-	ER16M / ER16	0.50
	K25-ER16M-200	0.5 - 10.0	25	22	200	41.0	-	ER16M / ER16	0.80
	K25-ER16M-250	0.5 - 10.0	25	22	250	41.0	-	ER16M / ER16	1.00
	K25-ER16M-300	0.5 - 10.0	25	22	300	41.0	-	ER16M / ER16	1.19
	K25-ER20M-140	0.5 - 13.0	25	28	140	41.0	79.0	ER20M / ER20	0.52
	K25-ER20M-200	0.5 - 13.0	25	28	200	41.0	79.0	ER20M / ER20	0.84
	K25-ER20M-250	0.5 - 13.0	25	28	250	41.0	79.0	ER20M / ER20	1.03
	K25-ER20M-300	0.5 - 13.0	25	28	300	41.0	79.0	ER20M / ER20	1.23
	K25-ER25M-140	0.5 - 16.0	25	35	140	45.0	82.0	ER25M / ER25	0.50
	K25-ER25M-200	0.5 - 16.0	25	35	200	45.0	82.0	ER25M / ER25	0.84
	K25-ER25M-250	0.5 - 16.0	25	35	250	45.0	82.0	ER25M / ER25	1.04
	K25-ER25M-300	0.5 - 16.0	25	35	300	45.0	82.0	ER25M / ER25	1.23
	32	K32-ER20M-150	0.5 - 13.0	32	28	150	41.0	41.0	ER20M / ER20
K32-ER20M-200		0.5 - 13.0	32	28	200	41.0	41.0	ER20M / ER20	1.31
K32-ER20M-250		0.5 - 13.0	32	28	250	41.0	41.0	ER20M / ER20	1.62
K32-ER20M-300		0.5 - 13.0	32	28	300	41.0	41.0	ER20M / ER20	1.94
K32-ER25M-150		0.5 - 16.0	32	35	150	41.0	48.0	ER25M / ER25	1.01
K32-ER25M-200		0.5 - 16.0	32	35	200	41.0	48.0	ER25M / ER25	1.32
K32-ER25M-250		0.5 - 16.0	32	35	250	41.0	48.0	ER25M / ER25	1.64
K32-ER25M-300		0.5 - 16.0	32	35	300	41.0	48.0	ER25M / ER25	1.95
K32-ER25M-350		1.0 - 16.0	32	35	350	41.0	41.5	ER25M / ER25	2.27

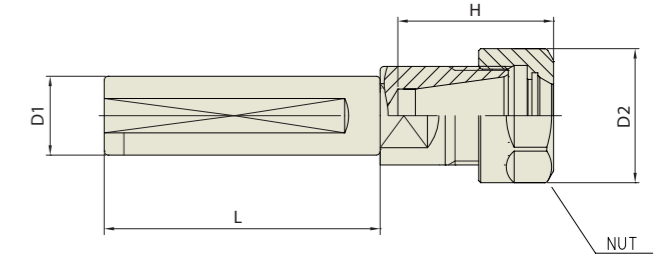
- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

STRAIGHT-K

TENSION ER CHUCK (For TAPPING)

ERT

SPANNUNG SPANN FUTTER - ER - FÜR GEWINDESCHNEID
 TENSION MANDRIN Á PINCES - ER - POUR TARAUDER
 TENSIONAMENTO MANDRINO PORTA PINZE - ER - PER MASCHIARE
 TENSIÓN PORTAPINZAS - ER - PARA HILO



Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L	H	NUT / COLLET	WEIGHT (Kg)
20	K20-ERT16-70	0.5 - 10.0	20	28	70	31.7	ER16	0.40
25	K25-ERT16-80	0.5 - 10.0	25	28	80	31.7	ER16	0.45
	K25-ERT20-80	0.5 - 13.0	25	34	80	35.5	ER20	0.50
32	K32-ERT16-80	0.5 - 10.0	32	28	80	31.7	ER16	0.70
	K32-ERT20-80	0.5 - 13.0	32	34	80	35.5	ER20	0.80
	K32-ERT25-80	1.0 - 16.0	32	42	80	42	ER25	1.00
	K32-ERT32-80	1.0 - 20.0	32	50	80	48	ER32	1.20

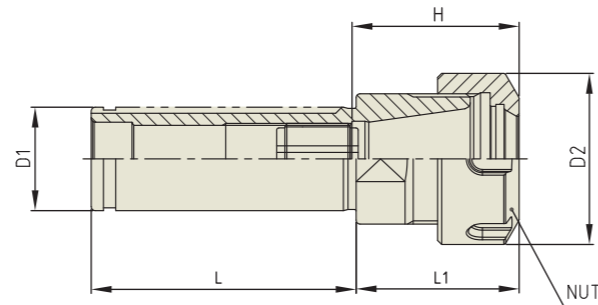
- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

STRAIGHT

ER COLLET CHUCK (NC-for CNC LATHE)

ER

SPANN FUTTER- ER - FÜR CNC DREHBANK
 MANDRIN À PINCES - ER - POUR CNC TOUR
 MANDRINO PORTA PINZE - ER - PER CNC TORNIO
 PORTAPINZAS - ER - PARA CNC TORNO



Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L	L1	H	NUT / COLLET	WEIGHT (Kg)
25	NC25-ER11	0.5 - 7.0	25	19	65	32	28.6	ER11	0.30
	NC25-ER16	0.5 - 10.0	25	28	65	36	35.6	ER16	0.45
	NC25-ER20	0.5 - 13.0	25	34	65	40	44.5	ER20	0.50
	NC25-ER25	1.0 - 16.0	25	42	65	40	41	ER25	0.55
32	NC32-ER20	0.5 - 13.0	32	34	60	39.5	44.5	ER20	0.60
	NC32-ER25	1.0 - 16.0	32	42	70	40.0	41	ER25	0.70
	NC32-ER32	1.0 - 20.0	32	50	70	45.0	47	ER32	0.75
40	NC40-ER32	1.0 - 20.0	40	50	75	45.0	60	ER32	1.25
	NC40-ER40	2.0 - 30.0	40	63	75	55.0	53	ER40	1.30

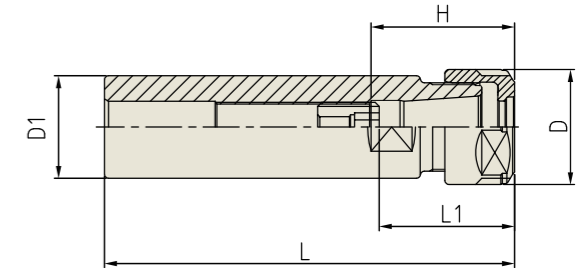
- ▶ Inch type products are available.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

STRAIGHT-K

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
 MANDRIN TYPE SK MINCE
 SK MANDRINI SOTTILI
 PORTAHERRAMIENTAS SK EJE REDUCIDO



Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	L1	D	D1	H	COLLET	WEIGHT (Kg)
20	K20-SKA06-100	1.8 - 6.0	100	21 - 35	20	20	31	SKC6	0.20
	K20-SKA06-140	1.8 - 6.0	140	21 - 35	20	20	31	SKC6	0.30
	K20-SKA10-100	1.75 - 10.0	100	30 - 50	28	20	35	SKC10	0.20
	K20-SKA10-140	1.75 - 10.0	140	30 - 50	28	20	35	SKC10	0.30
25	K25-SKA06-100	1.8 - 6.0	100	21 - 35	20	25	31	SKC6	0.30
	K25-SKA06-140	1.8 - 6.0	140	21 - 35	20	25	31	SKC6	0.50
	K25-SKA10-100	1.75 - 10.0	100	30 - 50	28	25	35	SKC10	0.30
	K25-SKA10-150	1.75 - 10.0	150	30 - 50	28	25	35	SKC10	0.50
	K25-SKA13-100	2.75 - 13.0	100	31 - 65	33	25	43.6	SKC13	0.40
	K25-SKA13-150	2.75 - 13.0	150	31 - 65	33	25	43.6	SKC13	0.60
32	K32-SKA10-100	1.75 - 10.0	100	30 - 50	28	32	35	SKC10	0.50
	K32-SKA10-150	1.75 - 10.0	150	30 - 50	28	32	35	SKC10	0.70
	K32-SKA13-100	2.75 - 13.0	100	31 - 65	33	32	43.6	SKC13	1.00
	K32-SKA13-150	2.75 - 13.0	150	31 - 65	33	32	43.6	SKC13	1.20
	K32-SKA16-100	2.75 - 16.0	100	40 - 70	40	32	52	SKC16	1.00
	K32-SKA16-150	2.75 - 16.0	150	40 - 70	40	32	52	SKC16	1.20
	K32-SKA20-100	3.5 - 20.0	100	47 - 80	48.5	32	59.6	SKC20	1.10
	K32-SKA20-150	3.5 - 20.0	150	47 - 80	48.5	32	59.6	SKC20	1.30

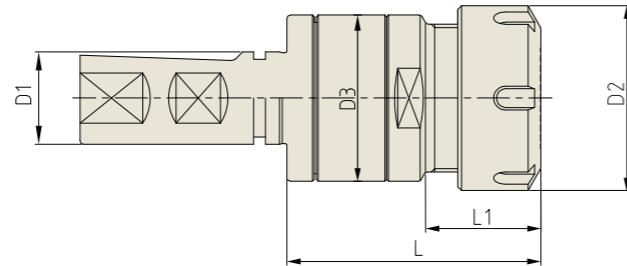
- ▶ Inch type products are available.
- ▶ For applicable Collet, Nut and Spanner, please refer to page 332~335.

STRAIGHT-KW

SYNCHRO TAPPING CHUCK (ER TYPE)

SYTER

SYNCHRO GEWINDESCHNEIDFUTTER (ER)
 SYNCHRO TARAUDER (ER)
 SINCRO MANDRINI PER MASCHIATURA (ER)
 SINCRO PORTAMACHOS (ER)



Unit : mm

MODEL No.	TAP SIZE	NUT/ COLLET	D1	D2	D3	L	L1	Tension/ Compression	WEIGHT (Kg)
KW20-SYTER16	M3-M16	ER20	20	34	34	58	26	±0.2	0.33
KW25-SYTER16	M3-M16	ER20	25	34	34	61	27	±0.2	0.44
KW25-SYTER27	M4-M27	ER32	25	50	45	69	31	±0.2	0.60

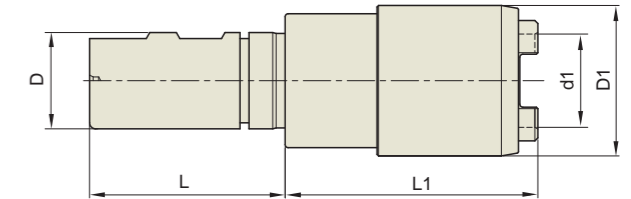
- ▶ Feature :
 - Compensation for synchronization errors to extend tap life and to improve thread quality.
 - To compensate for pitch tolerances of taps.
 - For machine with synchronized spindle.
- ▶ Inch type products are available.
- ▶ ER collet of page 314~320, and Tap ER collet of page 321~322 are applicable.

STRAIGHT-KW

SYNCHRO TAPPING CHUCK (QUICK CHANGE TYPE)

SYTC

SYNCHRO GEWINDESCHNEID-SCHNELLWECHSELFUTTER
 SYNCHRO TARAUDER À CHANGEMENT RAPIDE
 SINCRO MANDRINO PER MASCHIARE
 SINCRO PORTAMACHOS DE CAMBIO RAPIDO



Unit : mm

TAPER No.	MODEL No.	TAP SIZE	TAP ADAPTOR	D	d1	D1	L	L1	WEIGHT (Kg)
20	KW20-SYTC12-46	M3-M12	TCS12	20	19	36	50	46	0.28
	KW20-SYTC12-107.5	M3-M12	TCS12	20	19	36	50	107.5	0.65
25	KW25-SYTC12-46	M3-M12	TCS12	25	19	36	56	46	0.37
	KW25-SYTC20-74	M6-M24	TCS24	25	31	50	56	74	0.69
32	KW25-SYTC33-107.5	M18-M38	TCS38	25	48	74	56	107.5	1.32
	KW32-SYTC12-74	M3-M12	TCS12	32	31	50	60	74	0.71

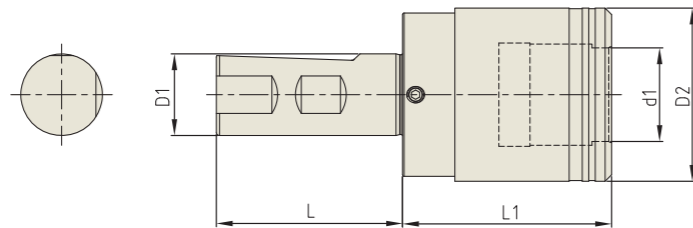
- ▶ Feature :
 - Compensation for synchronization errors to extend tap life and to improve thread quality.
 - To compensate for pitch tolerances of taps.
 - For machine with synchronized spindle.
- ▶ Inch type products are available.
- ▶ For applicable Tap Adaptor, please refer to page 336~337.

STRAIGHT-KW

ONE STEP TAPPING CHUCK

OTC

GEWINDE-SCHNELLWECHSELFUTTER
 MANDRIN DE TARAUDAGE À CHANGEMENT RAPIDE
 PORTAMASCHI A CAMBIO RAPIDO
 MANDRINO DE CAMBIO RÁPIDO CON ROSCA



Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	LENGTH COMPENSATION		WEIGHT (Kg)
							Compression	Tension	
20	KW20-OTC-M3-M12-40	19	20	36	51	40	7.5	7.5	0.80
25	KW25-OTC-M3-M12-40	19	25	36	57	40	7.5	7.5	3.00
	KW25-OTC-M8-M20-64	31	25	53	57	64	12.5	12.5	3.30
32	KW32-OTC-M3-M12-39	19	32	36	60	39	7.5	7.5	3.00
	KW32-OTC-M8-M20-63	31	32	53	60.5	63	12.5	12.5	3.30
	KW32-OTC-M14-M36-124	48	32	78	61	124	20	20	-

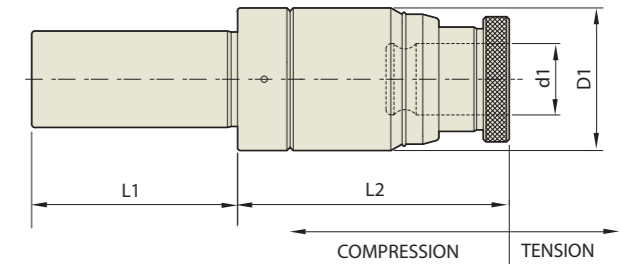
- ▶ Inch type products are available.
- ▶ For applicable Tap Adaptor, please refer to the page 336~337.

STRAIGHT-K

TAPPING CHUCK

TC

GEWINDESCHNEID-SCHNELLWECHSELFUTTER - GERADEAUS SCHAFT
 TARAUDER À CHANGEMENT RAPIDE - TOUT DROIT TIGE
 MANDRINO PER MASCHIARE - TIBIA DIRITTA
 PORTAMACHOS DE CAMBIO RAPIDO - CANA RECTA



Unit : mm

TAPER No.	MODEL No.	TAP SIZE	TAP ADAPTOR	LENGTH COMPENSATION		d1	D1	L1	L2	WEIGHT (Kg)
				Compression	Tension					
32	K32-TC12-100	M3-M12	TCS12	5	15	19	45	60	100	0.90
	K32-TC24-120	M6-M24	TCS24	5	20	31	63	60	120	1.40
42	K42-TC12-100	M3-M12	TCS12	5	15	19	45	70	100	1.10
	K42-TC24-120	M6-M24	TCS24	5	20	31	63	70	120	1.60

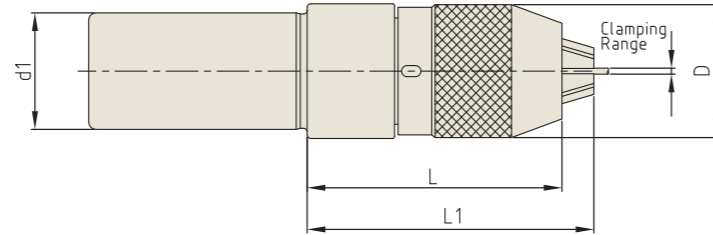
- ▶ Inch type products are available.
- ▶ For applicable Tap Adaptor, please refer to the page 336~337.

STRAIGHT-K

NC DRILL CHUCK (KEYLESS TYPE)



NC - BOHRFUTTER
 MANDRIN DE PERÇAGE NC
 NC MANDRINI PORTA PUNTE
 PORTABROCAS PARA BROCAS NC



Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	d1	L (Min.)	L1 (Max.)	WEIGHT (Kg)
32	K32-NPU8-75	0.3 - 8.0	36.5	32	75	80.7	0.70
	K32-NPU13-100	0.3 - 13.0	50.4	32	100	110	1.50
42	K42-NPU8-70	0.3 - 8.0	36.5	42	70	75.7	0.80
	K42-NPU13-100	0.3 - 13.0	50.4	42	100	110	1.60

▶ Inch type products are available.
 ▶ Supplied with hook wrench. (Size NPU 8 : 8S, NPU 13 : 13S)

SSK TOOLING SYSTEM

**ISO, NT
 MTA/MTB, GOST**

- ISO** SHRINK FIT HOLDER 246P
- ER COLLET CHUCK 247P
- SK SLIM CHUCK 248P
- COMBI-SHELL MILL ARBOR 249P

- NT** MORSE TAPER ARBOR 250P
- FACE MILL ARBOR 251P

- MTA** ER COLLET CHUCK 252P
- POWER MILLING CHUCK 253P
- TAPPING CHUCK 254P
- FACE MILL ARBOR 255P

- MTB** HYDRAULIC CHUCK 256P
- ER COLLET CHUCK 257P
- POWER MILLING CHUCK 258P

- GOST** ER COLLET CHUCK 259P
- END MILL HOLDER 260P
- SHELL MILL ARBOR 261P
- MORSE TAPER ARBOR 262P

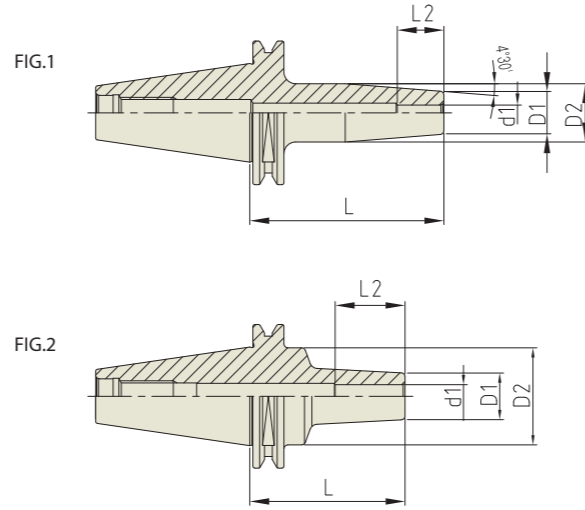


ISO 25

SHRINK FIT HOLDER

SFH

SCHRUMPFUTTER
 MANDRIN DE FRETAGE
 MADRINI PER CALLETAMENTO A CALDO
 PORTAHERRAMIENTAS DE COMPRESION POR CALOR



ISO 25	Taper Accuracy AT3	G Value 2.5	RPM 30,000	Run-Out (I.D) ≤3μm	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	FIG.	WEIGHT (Kg)
25	ISO25-SFH3-50	3	11	15	50	10	1	-
	ISO25-SFH4-50	4	11	15	50	12	1	-
	ISO25-SFH5-50	5	11	15	50	15	1	-
	ISO25-SFH6-40	6	12	25	40	18	2	-
	ISO25-SFH8-50	8	14	18	50	30	1	-
	ISO25-SFH10-50	10	16	20	50	37	1	-

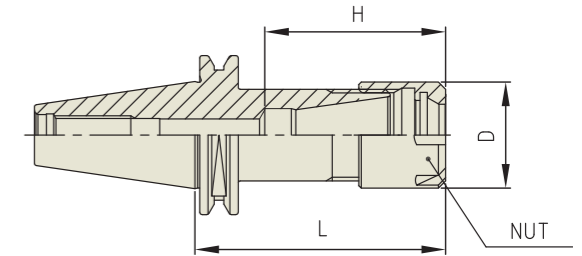
- ▶ Inch type products are available.
- ▶ Higher balancing grade is available upon request.
- ▶ To be supplied with assembling of pull stud bolt.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.

ISO 20/25

ER COLLET CHUCK (SLIM)

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



ISO 20/25	Taper Accuracy AT3	G Value 2.5	RPM 30,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
20	ISO20-ER16M-35	0.5 - 10.0	35	22	37.5	ER16M / ER16	-
25	ISO25-ER16M-35	0.5 - 10.0	35	22	37.5	ER16M / ER16	-
	ISO25-ER20M-36	0.5 - 13.0	36	28	-	ER20M / ER20	-

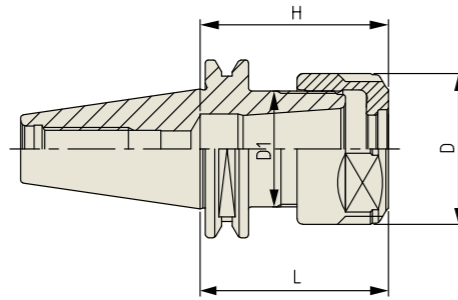
- ▶ Higher balancing grade is available upon request.
- ▶ To be supplied with assembling of pull stud bolt.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 325 & 327.

ISO 20/25

SK SLIM CHUCK

SKA

SK SCHLANKE FUTTER
 MANDRIN TYPE SK MINCE
 SK MANDRINI SOTTILI
 PORTAHERRAMIENTAS SK EJE REDUCIDO



ISO 20/25	Taper Accuracy AT3	G Value 2.5	RPM 30,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	D1	H	COLLET	WEIGHT (Kg)
20	ISO20-SKA10-35	1.75 - 10.0	35	33	21.5	35	SKC10	0.50
25	ISO25-SKA10-35	1.75 - 10.0	35	33	21.5	35	SKC10	0.70

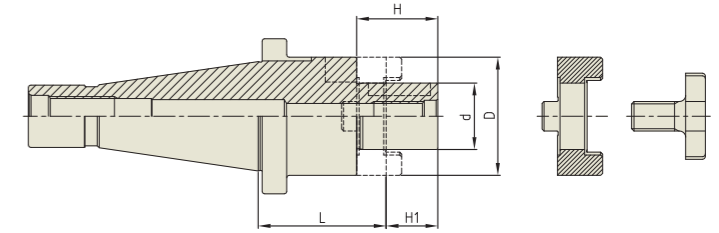
- ▶ Higher balancing grade is available upon request.
- ▶ To be supplied with assembling of pull stud bolt.
- ▶ Balancing grade G2.5 at 25,000RPM or U max. < 1gmm.
- ▶ For applicable Collet, Nut and Spanner, please refer to page 333~335.

DIN 2080 - ISO

COMBI-SHELL MILL ARBOR

CMA

KOMBI-AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES COMBINÉS
 MANDRINO PORTA FRESE
 PORTA FRESAS COMBINADO



DIN 2080 - ISO	Taper Accuracy AT3	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	WEIGHT (Kg)
30	ISO30-CMA16-35	16	35	32	17	27	0.52
	ISO30-CMA22-35	22	35	40	19	31	0.63
	ISO30-CMA27-35	27	35	48	21	33	0.72
40	ISO40-CMA16-52	16	52	32	17	27	0.99
	ISO40-CMA16-125	16	125	32	17	27	1.41
	ISO40-CMA22-52	22	52	40	19	31	1.15
	ISO40-CMA22-125	22	125	40	19	31	1.78
	ISO40-CMA27-52	27	52	48	21	33	1.37
	ISO40-CMA27-125	27	125	48	21	33	2.35
	ISO40-CMA32-52	32	52	58	24	38	1.65
	ISO40-CMA32-125	32	125	58	24	38	3.07
	ISO40-CMA40-52	40	52	70	27	41	1.94
50	ISO50-CMA16-55	16	55	32	17	27	2.79
	ISO50-CMA16-125	16	125	32	17	27	3.21
	ISO50-CMA22-55	22	55	40	19	31	2.95
	ISO50-CMA22-125	22	125	40	19	31	3.6
	ISO50-CMA27-55	27	55	48	21	33	3.17
	ISO50-CMA27-125	27	125	48	21	33	4.11
	ISO50-CMA32-55	32	55	58	24	38	3.49
	ISO50-CMA32-125	32	125	58	24	38	4.85
	ISO50-CMA40-55	40	55	70	27	41	3.85
ISO50-CMA40-125	40	125	70	27	41	5.26	
ISO50-CMA50-55	50	55	90	30	46	4.88	

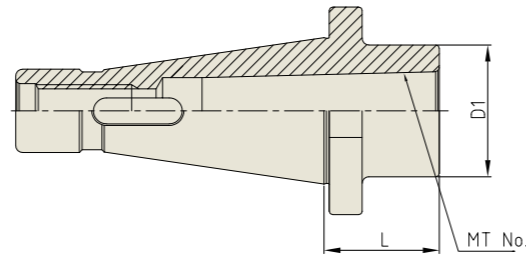
- ▶ Inch type products are available.
- ▶ For parts, please refer to page 330.

ANSI B5.18-NT

MORSE TAPER ARBOR

MTA

AUFNAHMEDORN FÜR MESSERKÖPFE
 ARBRE PORTE FRAISE À ALÉSAGE
 MANDRINO PORTA FRESE FRONTALE
 EJE PARA PLATOS DE PLACAS



ANSI B5.18 - NT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	MT No.	RANGE OF DRILL		D1	L	DRAW THREAD	WEIGHT (Kg)
			Min.	Max.				
40	NT40-MTA1-30	1	2.0	14.0	25	30	U5/8-11(M16x2)	0.90
	NT40-MTA2-30	2	14.1	23.0	32	30	U5/8-11(M16x2)	1.00
	NT40-MTA3-35	3	23.1	32.0	40	35	U5/8-11(M16x2)	1.00
	NT40-MTA4-90	4	32.1	50.0	50	90	U5/8-11(M16x2)	1.20
50	NT50-MTA1-30	1	2.0	14.0	25	30	U1-8(M24x3)	3.50
	NT50-MTA2-30	2	14.1	23.0	32	30	U1-8(M24x3)	3.50
	NT50-MTA3-30	3	23.1	32.0	40	30	U1-8(M24x3)	3.50
	NT50-MTA4-45	4	32.1	50.0	50	45	U1-8(M24x3)	3.50
	NT50-MTA5-105	5	50.1	75.0	60	105	U1-8(M24x3)	4.00

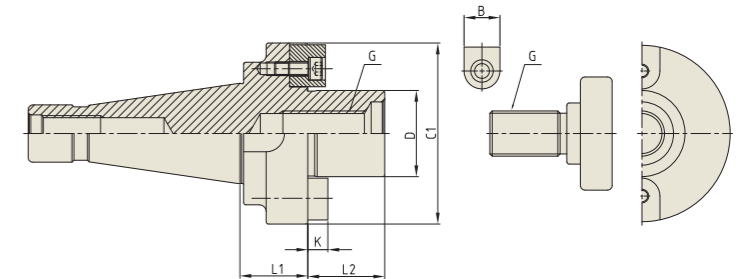
▶ Inch type products are available.

ANSI B5.18-NT

FACE MILL ARBOR

FMA

AUFNAHMEDORN FÜR MESSERKÖPFE
 ARBRE PORTE FRAISE À ALÉSAGE
 MANDRINO PORTA FRESE FRONTALE
 EJE PARA PLATOS DE PLACAS



ANSI B5.18 - NT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	CUTTER (Φ)	D	C1	L1	L2	B	K	G	DRAW THREAD	WEIGHT (kg)
40	NT40-FMA25.4-30	3"(75)	25.4	50	30	22	9.52	4.8	M12	U5/8-11(M16x2)	1.45
	NT40-FMA31.75-30	4"(100)	31.75	60	30	30	12.7	6.35	M16	U5/8-11(M16x2)	1.75
	NT40-FMA38.1-30	5"(125)	38.1	80	30	34	15.87	7.8	M20	U5/8-11(M16x2)	1.93
	NT40-FMA50.8-30	6"(150)	50.8	97.5	30	36	19.05	10.0	M24	U5/8-11(M16x2)	2.55
50	NT50-FMA25.4-30	3"(75)	25.4	50	30	22	9.52	4.8	M12	U1-8(M24x3)	3.30
	NT50-FMA25.4-100	3"(75)	25.4	50	100	22	9.52	4.8	M12	U1-8(M24x3)	4.38
	NT50-FMA25.4-150	3"(75)	25.4	50	150	22	9.52	4.8	M12	U1-8(M24x3)	5.15
	NT50-FMA31.75-30	4"(100)	31.75	60	30	30	12.7	6.35	M16	U1-8(M24x3)	3.40
	NT50-FMA31.75-100	4"(100)	31.75	60	100	30	12.7	6.35	M16	U1-8(M24x3)	3.95
	NT50-FMA31.75-150	4"(100)	31.75	60	150	30	12.7	6.35	M16	U1-8(M24x3)	6.06
	NT50-FMA38.1-30	5"(125)	38.1	80	30	34	15.87	7.8	M20	U1-8(M24x3)	3.60
	NT50-FMA38.1-100	5"(125)	38.1	80	100	34	15.87	7.8	M20	U1-8(M24x3)	6.36
	NT50-FMA38.1-150	5"(125)	38.1	80	150	34	15.87	7.8	M20	U1-8(M24x3)	8.33
	NT50-FMA50.8-30	6"(150)	50.8	97.5	30	36	19.05	10.0	M24	U1-8(M24x3)	3.90
	NT50-FMA50.8-100	6"(150)	50.8	97.5	100	36	19.05	10.0	M24	U1-8(M24x3)	8.00
	NT50-FMA50.8-150	6"(150)	50.8	97.5	150	36	19.05	10.0	M24	U1-8(M24x3)	10.93
	NT50-FMA47.625	8"(200)	47.625	128.57	45	38	-	-	-	U1-8(M24x3)	4.90

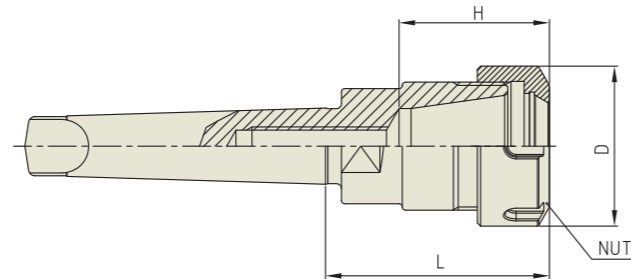
▶ Without "Coolant Through"
 ▶ For parts, please refer to page 331.

DIN 228-MTA

ER COLLET CHUCK (STANDARD)

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
1	MTA1-ER11	0.5 - 7.0	42.1	19	28.6	ER11	0.30
	MTA1-ER16	0.5 - 10.0	43.9	28	36.6	ER16	0.35
2	MTA2-ER20	0.5 - 13.0	50	34	40.5	ER20	0.50
	MTA2-ER25	1.0 - 16.0	50	42	41	ER25	0.60
3	MTA3-ER25	1.0 - 16.0	60	42	52	ER25	0.60
	MTA3-ER32	1.0 - 20.0	70	50	47	ER32	0.65
4	MTA4-ER20	0.5 - 13.0	60	34	50	ER20	1.00
	MTA4-ER25	1.0 - 16.0	60	42	52	ER25	1.10
	MTA4-ER32	1.0 - 20.0	65	50	48	ER32	1.30
	MTA4-ER40	2.0 - 30.0	80	63	69	ER40	1.50
5	MTA5-ER32	1.0 - 20.0	70	50	60	ER32	2.20
	MTA5-ER40	2.0 - 30.0	80	63	69	ER40	2.40
	MTA5-ER50	4.0 - 34.0	80	78	69	ER50	2.80

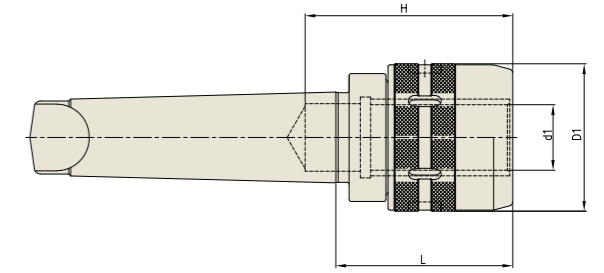
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

DIN 228-MTA

POWER MILLING CHUCK

C

FRÄSERSPANNFUTTER
 MANDRIN PORTE FRAISE
 MANDRINI PORTA FRESA
 PORTAHERRAMIENTAS PARA FRESADO



Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	WEIGHT (Kg)
4	MTA4-C32	32	72	98	85	2.57
5	MTA5-C32	32	72	85	100	3.06
	MTA5-C42	42	92	114	100	3.45
6	MTA6-C42	42	92	99	110	4.14

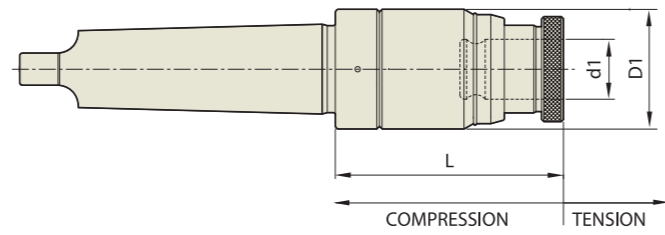
- ▶ Inch type products are available.
- ▶ In the case of MT6, it is required to inform machine model number and company name for selection of cutter groove.
- ▶ For applicable collet and spanner, please refer to the page 332.

DIN 228-MTA

TAPPING CHUCK

TC

GEWINDESCHNEID-SCHNELLWECHSELFUTTER - GERADEAUS SCHAFT
 TARAUDER À CHANGEMENT RAPIDE - TOUT DROIT TIGE
 MANDRINO PER MASCHIARE - TIBIA DIRITTA
 PORTAMACHOS DE CAMBIO RAPIDO - CANA RECTA



Unit : mm

TAPER No.	MODEL No.	TAP SIZE	TAP ADAPTOR	LENGTH COMPENSATION		d1	D1	L	WEIGHT (Kg)
				Compression	Tension				
3	MTA3-TC12-90	M3-M12	TCS12	5	15	19	45	90	1.00
	MTA3-TC24-115	M6-M24	TCS24	5	20	31	63	115	2.00
4	MTA4-TC12-105	M3-M12	TCS12	5	15	19	45	105	1.50
	MTA4-TC24-115	M6-M24	TCS24	5	20	31	63	115	2.20
5	MTA5-TC12-145	M3-M12	TCS12	5	15	19	45	145	1.50
	MTA5-TC24-175	M6-M24	TCS24	5	20	31	63	175	2.60

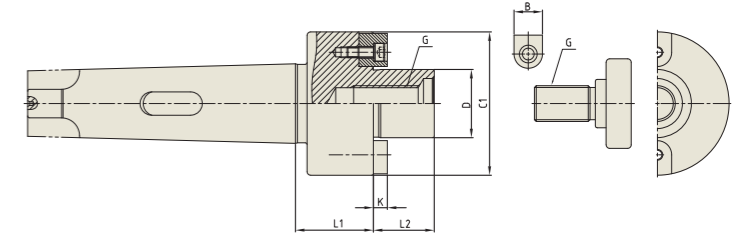
► For applicable Tap Adaptor, please refer to page 336~337.

DIN 228-MTA

FACE MILL ARBOR

FMA

AUFNAHMEDORN FÜR MESSERKÖPFE
 ARBRE PORTE FRAISE À ALÉSAGE
 MANDRINO PORTA FRESE FRONTALE
 EJE PARA PLATOS DE PLACAS



Unit : mm

TAPER No.	MODEL No.	CUTTER (Φ)	D	C1	L1	L2	B	K	G	WEIGHT (kg)
5	MTA5-FMA25.4	3"(75)	25.4	50	43.5	22	9.52	4.8	M12	1.60
	MTA5-FMA31.75	4"(100)	31.75	60	43.5	30	12.7	6.35	M16	1.90
	MTA5-FMA38.1	5"(125)	38.1	80	43.5	34	15.87	7.8	M20	2.20
6	MTA6-FMA25.4	3"(75)	25.4	50	45	22	9.52	4.8	M12	3.50
	MTA6-FMA31.75	4"(100)	31.75	60	45	30	12.7	6.35	M16	3.80
	MTA6-FMA38.1	5"(125)	38.1	80	45	34	15.87	7.8	M20	4.10
	MTA6-FMA50.8	6"(150)	50.8	100	45	36	19.05	10.0	M24	4.60
	MTA6-FMA47.625	8"(200)	47.625	128.57	48	38	-	-	-	5.40

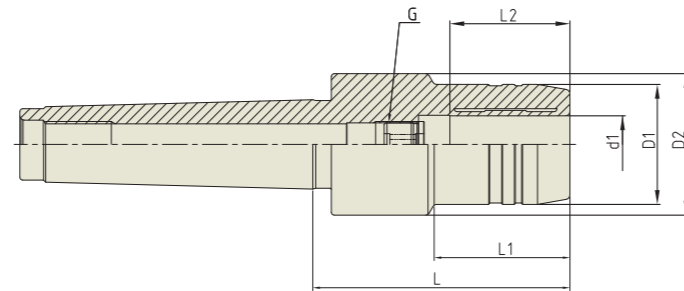
► Without "Coolant Through".
 ► For parts, please refer to page 331.

DIN 228-MTB

HYDRAULIC CHUCK

HC

HYDRAULIK SPANNFUTTER FÜR DEN FORMENBAU
 MANDRIN HYDRAULIQUE POUR MOULISTE
 MANDRINI IDRAULICI PER STAMPAGGIO
 PORTAHERRAMIENTAS HIDRAULICO PARA MOLDES



Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	WEIGHT (Kg)
4	MTB4-HC20-90	20	42	49.5	90	47.5	42	M16×1.0	1.30
	MTB4-HC32-90	32	72	72	90	-	55	-	1.40
5	MTB5-HC20-90	20	42	49.5	90	47.5	42	M16×1.0	2.20
	MTB5-HC32-90	32	72	72	90	-	55	-	2.40

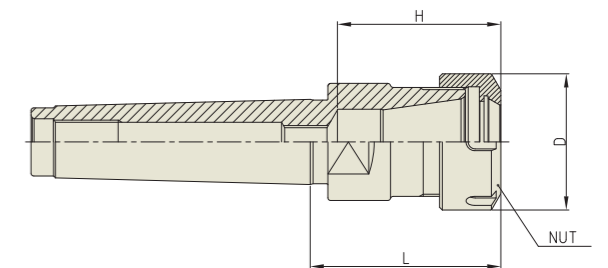
- ▶ Inch type products are available.
- ▶ T.I.R shall be controlled by less than 0.008mm at 3D.
- ▶ Supplied with clamping T-wrench.
- ▶ For applicable Hydraulic Chuck collet, please refer to page 309~312.

DIN 228-MTB

ER COLLET CHUCK

ER

SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	D	H	NUT / COLLET	WEIGHT (Kg)
1	MTB1-ER16	0.5 - 10.0	43.9	28	36.6	ER16	0.35
2	MTB2-ER20	0.5 - 13.0	50	34	40.5	ER20	0.50
	MTB2-ER25	1.0 - 16.0	50	42	41	ER25	0.60
3	MTB3-ER25	1.0 - 16.0	60	42	52	ER25	0.60
	MTB3-ER32	1.0 - 20.0	70	50	47	ER32	0.65
4	MTB4-ER32	1.0 - 20.0	65	50	48	ER32	1.10
	MTB4-ER40	2.0 - 30.0	80	63	69	ER40	1.30
5	MTB5-ER32	1.0 - 20.0	70	50	60	ER32	2.00
	MTB5-ER40	2.0 - 30.0	80	63	69	ER40	2.20
	MTB5-ER50	4.0 - 34.0	80	78	69	ER50	2.60

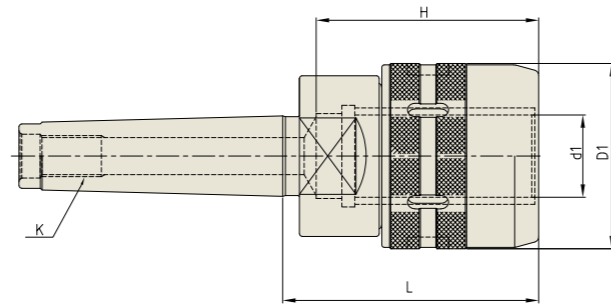
- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

DIN 228-MTB

POWER MILLING CHUCK



FRÄSPANNFUTTER
 MANDRIN PORTE FRAISE
 MANDRINI PORTA FRESA
 PORTAHERRAMIENTAS PARA FRESADO



Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	K	WEIGHT (Kg)
3	MTB3-C20	20	54	74	65	M12	2.10
4	MTB4-C32	32	72	98	80	M16	2.57
5	MTB5-C32	32	72	85	100	M20	3.06
	MTB5-C42	42	92	114	100	M20	3.45

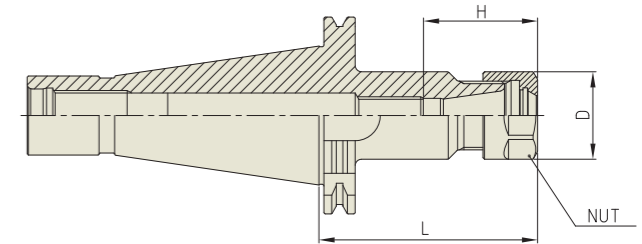
- ▶ Inch type products are available.
- ▶ In the case of MT6, it is required to inform machine model number and company name for selection of cutter groove.
- ▶ For applicable collet and spanner, please refer to the page 332.

GOST 40/50

ER COLLET CHUCK



SPANN FUTTER -ER
 MANDRIN À PINCES - ER
 MANDRINO PORTA PINZE - ER
 PORTAPINZAS - ER



GOST 25827-93	Taper Accuracy AT3	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	H	NUT / COLLET	WEIGHT (Kg)
40	GOST40-ER16-70	0.5 - 10.0	28	70	45	ER16	-
	GOST40-ER16-100	0.5 - 10.0	28	100	45	ER16	-
	GOST40-ER25-70	1.0 - 16.0	42	70	65	ER25	-
	GOST40-ER25-100	1.0 - 16.0	42	100	65	ER25	-
	GOST40-ER32-70	1.0 - 20.0	50	70	65	ER32	-
	GOST40-ER32-100	1.0 - 20.0	50	100	65	ER32	-
50	GOST50-ER16-90	0.5 - 10.0	28	90	45	ER16	-
	GOST50-ER16-150	0.5 - 10.0	28	150	45	ER16	-
	GOST50-ER25-90	1.0 - 16.0	42	90	65	ER25	-
	GOST50-ER25-150	1.0 - 16.0	42	150	65	ER25	-
	GOST50-ER32-90	1.0 - 20.0	50	90	65	ER32	-
	GOST50-ER32-150	1.0 - 20.0	50	150	65	ER32	-
	GOST50-ER40-90	2.0 - 30.0	63	90	65	ER40	-

- ▶ For applicable ER collet, please refer to page 314~322.
- ▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 323~327.

ISO, NT, MTA/MTB, GOST

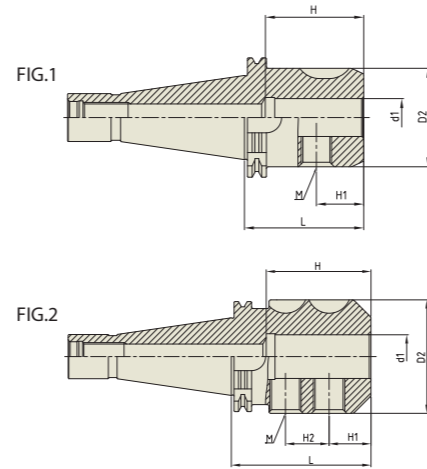
ISO, NT, MTA/MTB, GOST

GOST 40/50

END MILL HOLDER

EMH

FRÄSERFUTTER UND FLÄCHENSPIANNFUTTER
 MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT
 MANDRINI PORTA FRESA TIPO WELDON
 PORTAFRESAS Y EJES DE SUJECCION LATERAL



GOST 25827-93	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	d1	D2	L	H	H1	H2	M	FIG.	WEIGHT (Kg)
40	GOST40-EMH6-50	6	25	50	35	18	-	M6	1	-
	GOST40-EMH8-50	8	28	50	35	18	-	M8	1	-
	GOST40-EMH10-50	10	35	50	35.5	20	-	M10	1	-
	GOST40-EMH12-50	12	42	50	36	22.5	-	M12	1	-
	GOST40-EMH14-63	14	44	63	36	22.5	-	M12	1	-
	GOST40-EMH16-63	16	48	63	46	24	-	M14	1	-
	GOST40-EMH18-63	18	50	63	46	24	-	M14	1	-
	GOST40-EMH20-63	20	52	63	48	25	-	M16	1	-
	GOST40-EMH25-80	25	65	80	55	24	25	M18	2	-
	GOST40-EMH32-80	32	72	80	57	24	28	M20	2	-
50	GOST50-EMH6-63	6	25	63	35	18	-	M6	1	-
	GOST50-EMH8-63	8	28	63	35	18	-	M8	1	-
	GOST50-EMH10-63	10	35	63	35.5	20	-	M10	1	-
	GOST50-EMH12-63	12	42	63	36	22.5	-	M12	1	-
	GOST50-EMH14-63	14	44	63	36	22.5	-	M12	1	-
	GOST50-EMH16-63	16	48	63	46	24	-	M14	1	-
	GOST50-EMH18-63	18	50	63	46	24	-	M14	1	-
	GOST50-EMH20-63	20	52	63	48	25	-	M16	1	-
	GOST50-EMH25-80	25	65	80	55	24	25	M18	2	-
	GOST50-EMH32-80	32	72	80	63	24	28	M20	2	-
	GOST50-EMH40-90	40	80	90	68	30	32	M20	2	-

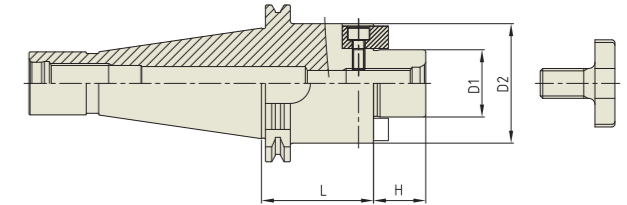
- ▶ Inch type products are available.
- ▶ Standard End Mill Holder is for a cutting tool with weldon shank and End Mill Holder for a cutting tool with Whistle notch is available upon request.
- ▶ Combi-style Holder with ball jointed clamping screw which can be used with cutting tools with Weldon and Whistle notch shank is available.

GOST 40/50

SHELL MILL ARBOR

SMA

AUFNAHMEDORN FÜR FRÄSER MIT BOHRUNG
 MANDRIN PORTE-FRAISES
 MANDRINO CON TRASCINAMENTO FISSO
 PORTA FRESAS



GOST 25827-93	Taper Accuracy AT3	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	D1	D2	L	H	BOLT	WEIGHT (Kg)
40	GOST40-SMA16-40	16	32	40	17	M8x16L	-
	GOST40-SMA16-100	16	32	100	17	M8x16L	-
	GOST40-SMA22-40	22	40	40	19	M10x18L	-
	GOST40-SMA22-100	22	40	100	19	M10x18L	-
	GOST40-SMA27-45	27	48	45	21	M12x22L	-
	GOST40-SMA32-45	32	58	45	24	M16x26L	-
	50	GOST50-SMA16-40	16	32	40	17	M8x16L
GOST50-SMA16-100		16	32	100	17	M8x16L	-
GOST40-SMA22-40		22	40	40	19	M10x18L	-
GOST40-SMA22-100		22	40	100	19	M10x18L	-
GOST40-SMA27-45		27	48	45	21	M12x22L	-
GOST40-SMA27-120		27	48	120	21	M12x22L	-
GOST40-SMA32-45		32	58	45	24	M16x26L	-
GOST40-SMA32-130		32	58	130	24	M16x26L	-
GOST40-SMA40-55		40	70	55	27	M20x30L	-
GOST40-SMA40-150		40	70	150	27	M20x30L	-
GOST40-SMA50-60	50	90	60	30	M24x36L	-	

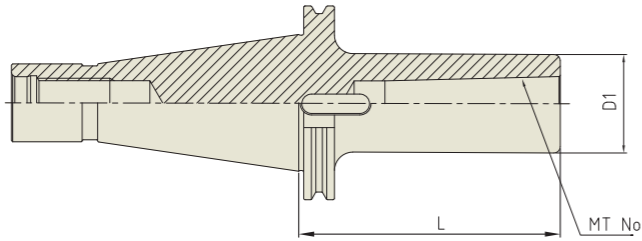
▶ For parts, please refer to page 329.

GOST 40/50

MORSE TAPER ARBOR

MTA

EINSATZHÜLSEN FÜR MORSEKEGEL
DOUILLES DE RÉDUCTION CÔNE MORSE
MANDRINO RIDUZIONE CONO MORSE
REDUCTORES A MORSE



GOST 25827-93	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	MT No.	D1	L	WEIGHT (Kg)
40	GOST40-MTA1-115	1	25	115	-
	GOST40-MTA2-125	2	32	125	-
	GOST40-MTA3-145	3	40	145	-
	GOST40-MTA4-165	4	48	165	-
50	GOST50-MTA2-135	2	32	135	-
	GOST50-MTA3-155	3	40	155	-
	GOST50-MTA4-180	4	48	180	-
	GOST50-MTA5-215	5	63	215	-

SSK TOOLING SYSTEM

TOOL HOLDER SET

HYDRAULIC CHUCK 264P

POWER MILLING CHUCK (STANDARD) 265P

POWER MILLING CHUCK (QUICK CHANGE) 266P



SSK

TOOL HOLDER SET

HYDRAULIC CHUCK SET

HCS



MODEL No.	HYDRAULIC CHUCK	REDUCTION SLEEVE	WRENCH
HCSS40-20	SK40AD/B-HC20P-64.5	HK20-6.8.10.12.16 (5pcs)	φ5mm
HCSB40-20	BT40AD/B-HC20P-72.5	HK20-6.8.10.12.16 (5pcs)	φ5mm
HCSH40-20	HSK63A-HC20P-80	HK20-6.8.10.12.16 (5pcs)	φ5mm

TOOL HOLDER SET

POWER MILLING CHUCK (STANDARD)

C

GEGENSTÜCK FÜR FRÄSERSPANNFUTTER
 ETUI AVEC PORTE-FRAISE ET CLEF
 CASSETTA COMPLETA DI MANDRINO, CHIAVE E PINZE
 ESTUCHE CON PORTAPINZAS, PINZAS Y LLAVE



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

TOOL HOLDER SET

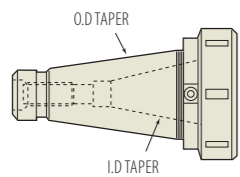
POWER MILLING CHUCK (QUICK CHANGE)

MH

SCHNELLWECHSEL GEGENSTÜCK FÜR FRÄSERSPANNFUTTER
 CHANGEMENT RAPIDE ETUI AVEC PORTE-FRAISE ET CLEF
 CAMBIO RAPIDO CASSETTA COMPLETA DI MANDRINO, CHIAVE E PINZE
 CAMBIO RAPIDO ESTUCHE CON PORTAPINZAS, PINZAS Y LLAVE

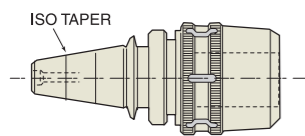


TAPER	Q.C MILLING HOLDER SET MODEL No.	Q.C MASTER HOLDER	Q.C MILLING CHUCK	END MILL COLLETS	Q.C FACE MILL ARBOR	Q.C DRILL CHUCK BAR	DRILL CHUCK ARBOR	Q.C TAPER SLEEVE	SPANNER
NT40	SMH40-T35-32A	MH40-T35	QT35-32	K32-(6-25)(7pcs)	QT35-4R	-	K32-J6	-	MH40 SP
	SMH40-T35-32B	MH40-T35	QT35-32	K32-(6-25)(7pcs)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



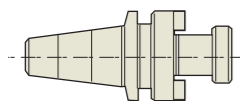
Q.C MASTER HOLDER

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)



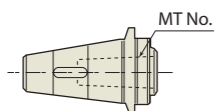
Q.C MILLING CHUCK

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



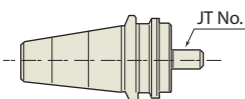
Q.C FACE MILL ARBOR

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.	DRILL (Ø)
MH40	QT35-J6	1-13mm
MH50	QT45-J6	1-13mm

SSK TOOLING SYSTEM

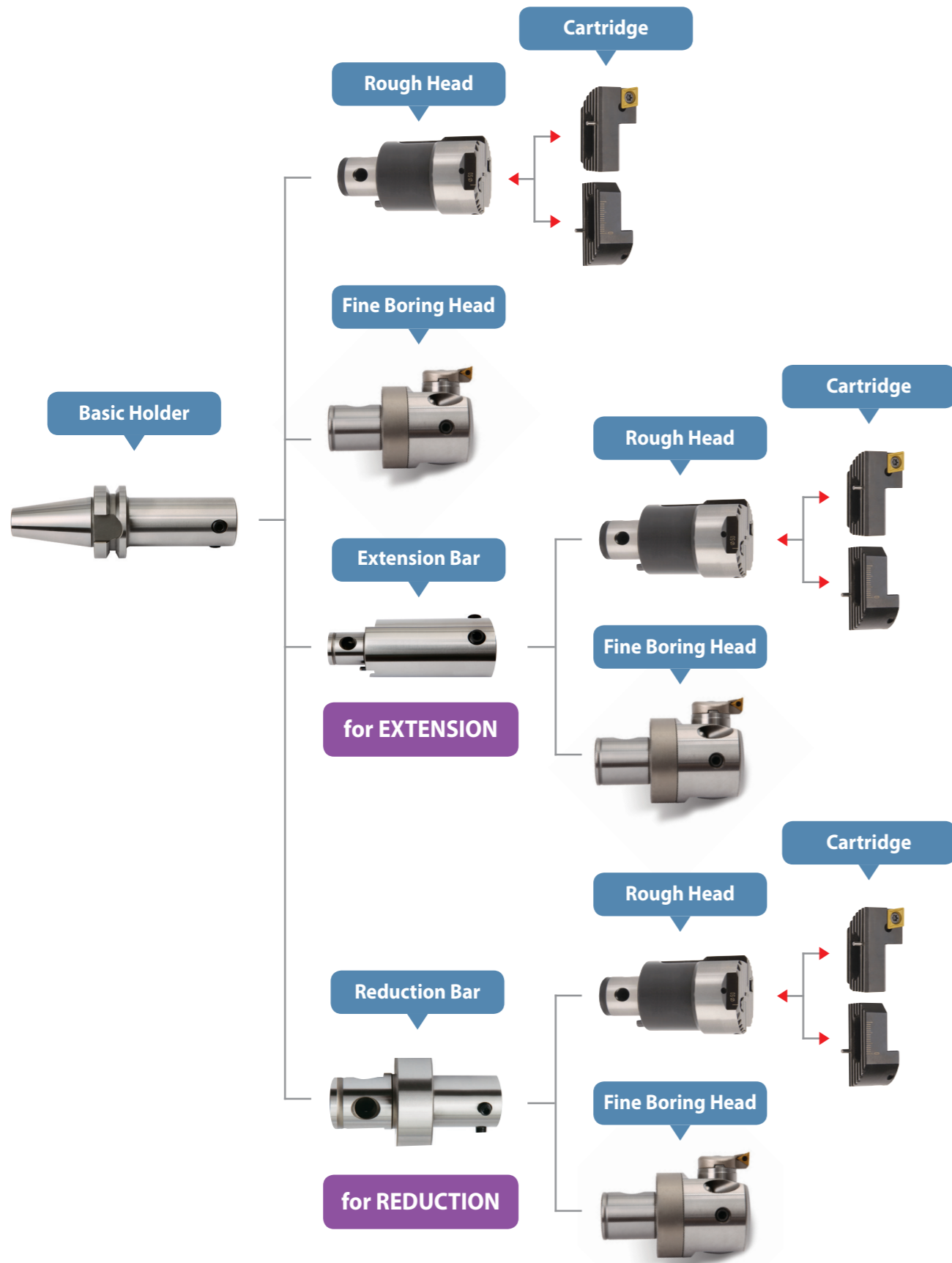
BORING SYSTEM

TECHNICAL INFORMATION (SMALL BORE)	268-269P
BASIC HOLDER	270-273P
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TYPICAL CONFIGURATION OF FINE BORING BAR ...	278-283P
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TECHNICAL INFORMATION (BIG BORE)	290P
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FINE BORING BAR (BIG BORE)	294P
ROUGH BORING BAR (BIG BORE)	295-296P
MICRO BORING BAR	297-303P
SQUARE BORING BAR	304-306P



SSK

FINE & ROUGH BORING BAR (SMALL BORE)



FINE & ROUGH BORING BAR (SMALL BORE)

Fine Boring Range : 20mm~154mm



FEATURE

- Easy assembly and wide expandability
- Precise boring range adjustment by adjustment Dial with 1/100mm unit
- Ease to adjust length by employing modular system to use extension bar with various size
- Double rigid fixing of extension bar with
 - Side locking
 - Fixing pin inside
- Design to use insert conforming to ISO standard
- Basic Holder, Extension Bar and Reduction Bar interchangeable between Fine Boring Bar and Rough Boring Bar

Rough Boring Range : 25mm~156mm

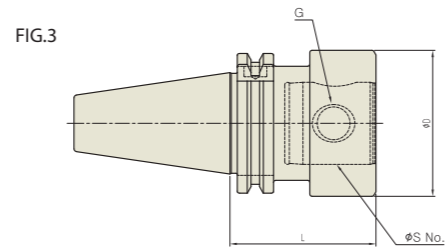
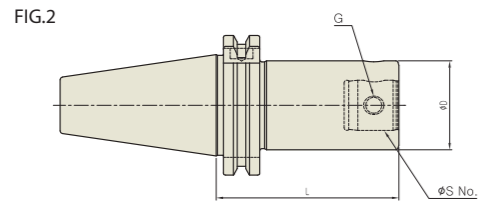
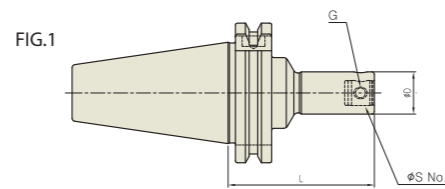


FEATURE

- Easy to replace head
- Extension Bar : Adjusting length according to machining conditions
- Reduction Bar : Adjusting boring range according to machining conditions
- Precision of extension, reduction, and repeatability of assembling and disassembling of Boring Head ; $\leq 0.002\text{mm}$
- Using insert conforming to ISO standard
- Basic Holder, Extension Bar and Reduction Bar interchangeable between Fine Boring Bar and Rough Boring Bar

BASIC HOLDER

PART



SK (DIN 69871/ISO 7388-1)

DIN 69871 -SK Taper Accuracy AT3 Coolant System AD

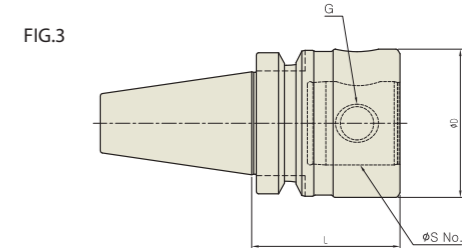
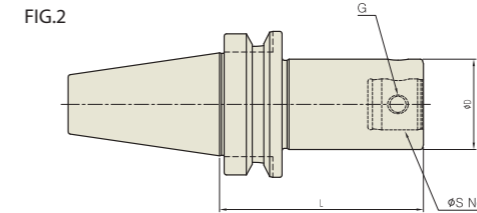
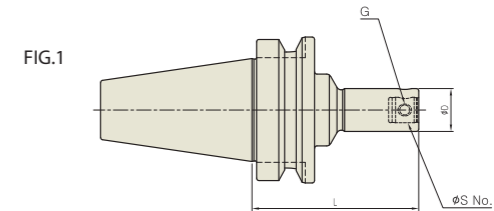
Unit : mm

TAPER No.	MODEL No.	S No.	D	L	G	FIG.	WEIGHT (Kg)
40	SK40-S11-72	11	18.5	72	M5x0.8	1	-
	SK40-S14-42.5	14	23.5	42.5	M5x0.8	2	-
	SK40-S14-82.5	14	23.5	82.5	M5x0.8	2	-
	SK40-S18-44	18	31	44	M8x1.0	2	-
	SK40-S18-94	18	31	94	M8x1.0	2	-
	SK40-S22-43	22	39	43	M8x1.0	2	-
	SK40-S22-88	22	39	88	M8x1.0	2	-
	SK40-S28-48	28	50	48	M10x1.0	2	-
	SK40-S36-64	36	64	64	M16x1.5	3	-
	SK40-S46-95	46	90	95	M16x1.5	3	-
50	SK50-S11-102	11	18.5	102	M5x0.8	1	-
	SK50-S14-52.5	14	23.5	52.5	M5x0.8	2	-
	SK50-S14-112.5	14	23.5	112.5	M5x0.8	2	-
	SK50-S18-54	18	31	54	M8x1.0	2	-
	SK50-S18-124	18	31	124	M8x1.0	2	-
	SK50-S22-58	22	39	58	M8x1.0	2	-
	SK50-S22-178	22	39	178	M8x1.0	2	-
	SK50-S28-63	28	50	63	M10x1.0	2	-
	SK50-S28-105	28	50	105	M10x1.0	2	-
	SK50-S28-183	28	50	183	M10x1.0	2	-
	SK50-S28-228	28	50	228	M10x1.0	2	-
	SK50-S36-94	36	64	94	M16x1.5	2	-
	SK50-S36-169	36	64	169	M16x1.5	2	-
	SK50-S36-229	36	64	229	M16x1.5	2	-
	SK50-S46-93	46	90	93	M16x1.5	3	-
	SK50-S46-243	46	90	243	M16x1.5	3	-

▶ The Basic Holder interchangeable between Fine Boring and Rough Boring bar.
 ▶ The Basic Holder, Boring Head & Insert Holder must be ordered separately.

BASIC HOLDER

PART



BT (JIS B6339/MAS403/ISO 7388-2)

JIS B6339 -BT Taper Accuracy AT3 Coolant System AD

Unit : mm

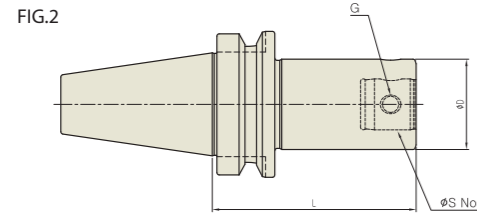
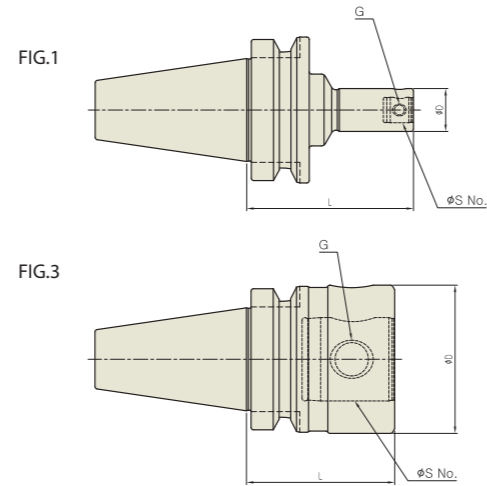
TAPER No.	MODEL No.	S No.	D	L	G	FIG.	WEIGHT (Kg)	
30	BT30-S11-72	11	18.5	72	M5x0.8	1	-	
	BT30-S14-37.5	14	23.5	37.5	M5x0.8	2	-	
	BT30-S14-82.5	14	23.5	82.5	M5x0.8	2	-	
	BT30-S18-39	18	31	39	M8x1.0	2	-	
	BT30-S18-79	18	31	79	M8x1.0	2	-	
	BT30-S22-38	22	39	38	M8x1.0	2	-	
	BT30-S22-73	22	39	73	M8x1.0	2	-	
	BT30-S28-63	28	50	63	M10x1.0	3	-	
	40	BT40-S11-72	11	18.5	72	M5x0.8	2	-
		BT40-S14-42.5	14	23.5	42.5	M5x0.8	2	-
BT40-S14-82.5		14	23.5	82.5	M5x0.8	2	-	
BT40-S18-44		18	31	44	M8x1.0	2	-	
BT40-S18-94		18	31	94	M8x1.0	2	-	
BT40-S22-43		22	39	43	M8x1.0	2	-	
BT40-S22-88		22	39	88	M8x1.0	2	-	
BT40-S28-48		28	50	48	M10x1.0	2	-	
BT40-S28-79		28	50	79	M10x1.0	2	-	
BT40-S36-64		36	64	64	M16x1.5	3	-	
BT40-S46-90	46	90	90	M16x1.5	3	-		

▶ The Basic Holder interchangeable between Fine Boring and Rough Boring bar.
 ▶ The Basic Holder, Boring Head & Insert Holder must be ordered separately.

▶ NEXT PAGE

BASIC HOLDER

PART



BT (JIS B6339/MAS403/ISO 7388-2)

JIS B6339 - BT	Taper Accuracy AT3	Coolant System AD
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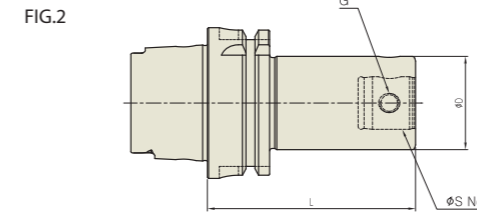
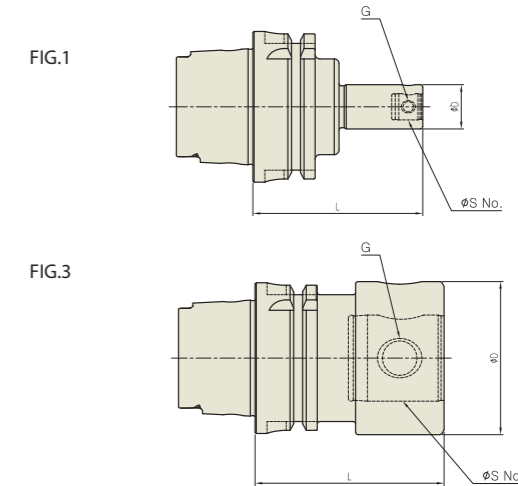
Unit : mm

TAPER No.	MODEL No.	S No.	D	L	G	FIG.	WEIGHT (Kg)
50	BT50-S11-102	11	18.5	102	M5x0.8	1	-
	BT50-S14-52.5	14	23.5	52.5	M5x0.8	2	-
	BT50-S14-112.5	14	23.5	112.5	M5x0.8	2	-
	BT50-S18-54	18	31	54	M8x1.0	2	-
	BT50-S18-124	18	31	124	M8x1.0	2	-
	BT50-S22-58	22	39	58	M8x1.0	2	-
	BT50-S22-118	22	39	118	M8x1.0	2	-
	BT50-S22-178	22	39	178	M8x1.0	2	-
	BT50-S28-63	28	50	63	M10x1.0	2	-
	BT50-S28-108	28	50	108	M10x1.0	2	-
	BT50-S28-183	28	50	183	M10x1.0	2	-
	BT50-S28-228	28	50	228	M10x1.0	2	-
	BT50-S36-94	36	64	94	M16x1.5	2	-
	BT50-S36-169	36	64	169	M16x1.5	2	-
	BT50-S36-229	36	64	229	M16x1.5	2	-
	BT50-S46-93	46	90	93	M16x1.5	2	-
BT50-S46-243	46	90	243	M16x1.5	2	-	

- ▶ The Basic Holder interchangeable between Fine Boring and Rough Boring bar.
- ▶ The Basic Holder, Boring Head & Insert Holder must be ordered separately.

BASIC HOLDER

PART



HSK-A (DIN 69893/ISO 12164)

DIN 69893 - HSK	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	S No.	D	L	G	FIG.	WEIGHT (Kg)
40A	HSK40A-S11-72.5	11	18.5	72.5	M5x0.8	2	-
	HSK40A-S14-39.5	14	23.5	39.5	M5x0.8	2	-
	HSK40A-S14-84.5	14	23.5	84.5	M5x0.8	2	-
	HSK40A-S18-45	18	31	45	M8x1.0	2	-
	HSK40A-S18-80	18	31	80	M8x1.0	2	-
	HSK40A-S22-53	22	39	53	M8x1.0	3	-
50A	HSK50A-S22-73	22	39	73	M8x1.0	3	-
	HSK50A-S11-72.5	11	18.5	72.5	M5x0.8	2	-
	HSK50A-S14-84.5	14	23.5	84.5	M5x0.8	2	-
	HSK50A-S18-80	18	31	80	M8x1.0	2	-
	HSK50A-S22-73	22	39	73	M8x1.0	3	-
	HSK50A-S28-83	28	50	83	M10x1.0	3	-
63A	HSK63A-S11-77.5	11	18.5	77.5	M5x0.8	2	-
	HSK63A-S14-89.5	14	23.5	89.5	M5x0.8	2	-
	HSK63A-S18-100	18	31	100	M8x1.0	2	-
	HSK63A-S22-93	22	39	93	M8x1.0	2	-
	HSK63A-S28-83	28	50	83	M10x1.0	2	-
	HSK63A-S36-79	36	64	79	M16x1.5	3	-
100A	HSK63A-S46-100	46	90	100	M16x1.5	3	-
	HSK100A-S11-102.5	11	18.5	102.5	M5x0.8	1	-
	HSK100A-S14-114.5	14	23.5	114.5	M5x0.8	1	-
	HSK100A-S18-125	18	31	125	M8x1.0	1	-
	HSK100A-S22-118	22	39	118	M8x1.0	2	-
	HSK100A-S22-178	22	39	178	M8x1.0	2	-
	HSK100A-S28-108	28	50	108	M10x1.0	2	-
	HSK100A-S28-183	28	50	183	M10x1.0	2	-
	HSK100A-S28-228	28	50	228	M10x1.0	2	-
	HSK100A-S36-94	36	64	94	M16x1.5	2	-
	HSK100A-S36-169	36	64	169	M16x1.5	2	-
	HSK100A-S36-229	36	64	229	M16x1.5	2	-
	HSK100A-S46-123	46	90	123	M16x1.5	2	-
	HSK100A-S46-273	46	90	273	M16x1.5	2	-

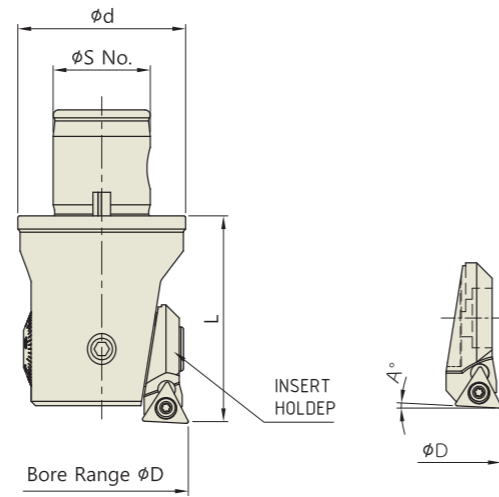
- ▶ The Basic Holder interchangeable between Fine Boring and Rough Boring bar.
- ▶ The Basic Holder, Boring Head & Insert Holder must be ordered separately.

FINE BORING BAR (SMALL BORE)

FINE BORING HEAD & INSERT HOLDER

PART

FEINBOHRHALTER
ALÉSAGE PROFOND
BARRE DI ALESATURA FINE
BARRA DE MANDRINADO FINO



◆ FINE BORING HEAD

Unit : mm

HEAD	INSERT HOLDER	BORE RANGE (ØD)	S No.	d	L
S11-FBH20-24	FBH20-1	Ø20~24	11	18.5	32.5
S14-FBH24-31	FBH24-1	Ø23.9~31.1	14	23.5	35
S18-FBH31-40	FBH31-1	Ø30.9~40.1	18	30	40
S22-FBH40-51	FBH40-1	Ø39.9~51.1	22	38	47
S28-FBH51-67	FBH51-1	Ø50.9~67.1	28	49	57
S36-FBH67-125	FBH6787-1	Ø66.9~87.1	36	64	71
	FBH6787-2	Ø84.9~105.1			
	FBH6787-3	Ø104.9~125.1			
S46-FBH87-154	FBH6787-1	Ø86.9~116.1	46	90	87
	FBH6787-2	Ø104.9~134.1			
	FBH6787-3	Ø124.9~154.1			

◆ FINE BORING INSERT HOLDER

Unit : mm

Model No.	BORE RANGE (ØD)	A°	INSERT	INSERT SCREW	TORX WRENCH
FBH20-1	20~24	0	TPGH0802□□	FTNA0204	T06
FBH24-1	23.9~31.1	0			
FBH31-1	30.9~40.1	0			
FBH40-1	39.9~51.1	3			
FBH51-1	50.9~67.1	3			
FBH6787-1	66.9~87.1	3	TPGH1103□□	FTNA0307	T09
	86.9~116.1				
FBH6787-2	84.9~105.1	3			
	104.9~134.1				
FBH6787-3	104.9~125.1	3			
	124.9~154.1				

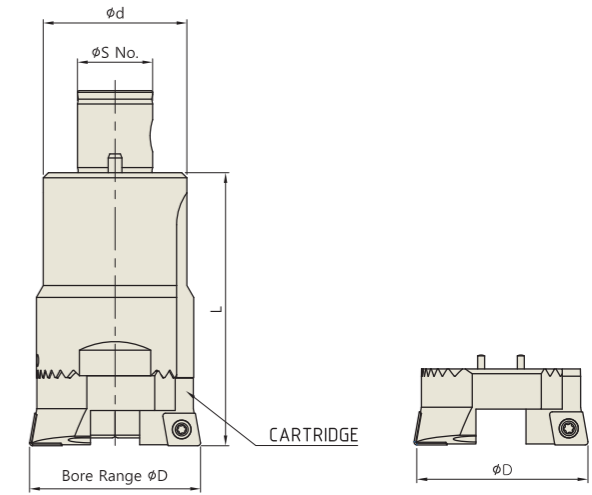
- ▶ The Insert Holder Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Insert Holder.
- ▶ The Torx Wrench should be ordered. Please contact us to purchase this wrench.
- ▶ The Boring Head & Insert Holder must be ordered separately.
- ▶ CC type inserts (CC06, CC09) are available.

ROUGH BORING BAR (SMALL BORE)

ROUGH BORING HEAD & CARTRIDGE

PART

DOPPELBOHRHALTER
BARRE D'ALÉSAGE JUMEAUX
BARRE DI ALESATURA GEMELLO
BARRA DE MANDRINAR MELLIZO



◆ ROUGH BORING HEAD

Unit : mm

HEAD	CARTRIDGE	BORE RANGE (ØD)	S No.	d	L
S11-TBH25-34	TBH25-34	Ø25~34	11	22	50
S18-TBH34-51	TBH34-43N	Ø34~43	18	31	60
	TBH42-51N	Ø42~51			
S22-TBH50-77	TBH50-64N	Ø50~64	22	42	80
	TBH63-77N	Ø63~77			
S36-TBH76-116	TBH76-97N	Ø76~97	36	65	110
	TBH95-116N	Ø95~116			
S46-TBH115-156	TBH115-136N	Ø115~136	46	90	105
	TBH135-156N	Ø135~156			

◆ ROUGH BORING CARTRIDGE

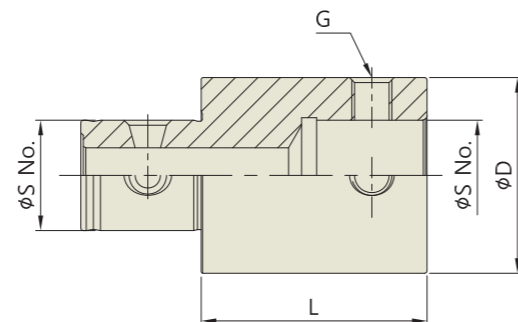
Unit : mm

Model No.	BORE RANGE (ØD)	INSERT	INSERT SCREW	TORX WRENCH
TBH25-34	25~34	CCMT0602□□	FTKA02565	T07
TBH34-43N	34~43	CCMT0602□□	FTKA02565	T07
TBH42-51N	42~51			
TBH50-64N	50~64	CCMT09T3□□	FTNA0408	T15
TBH63-77N	63~77			
TBH76-97N	76~97	CCMT1204□□	FTNA0513	T20
TBH95-116N	95~116			
TBH115-136N	115~136	CCMT1204□□	FTNA0513	T20
TBH135-156N	135~156			

- ▶ The Cartridge Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Cartridge.
- ▶ The Torx Wrench should be ordered. Please contact us to purchase this wrench.
- ▶ The Boring Head & Insert Holder must be ordered separately.

EXTENSION BAR

PART



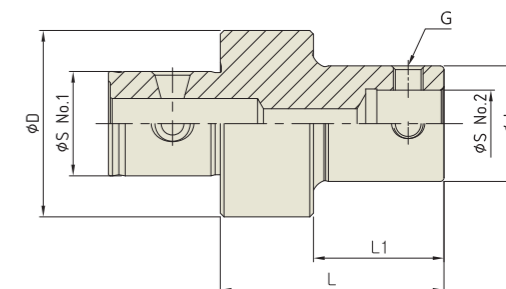
Unit : mm

MODEL No.	S No.	D	L	G	WEIGHT (Kg)
E-S11-30	11	19	30	M5x0.8	-
E-S14-30	14	24	30	M5x0.8	-
E-S18-30	18	31	30	M8x1.0	-
E-S22-45	22	39	45	M8x1.0	-
E-S28-60	28	50	60	M10x1.0	-
E-S28-90	28	50	90	M10x1.0	-
E-S36-60	36	64	60	M16x1.5	-
E-S36-100	36	64	100	M16x1.5	-
E-S46-105	46	90	105	M16x1.5	-

► Extends projection length by insertion between Basic Holder & Boring Head.

REDUCTION BAR

PART



Unit : mm

MODEL No.	S No.1	S No.2	D	d	L	L1	G	WEIGHT (Kg)
R-S14-S11-30	14	11	24	19	30	20	M5x0.8	-
R-S18-S11-30	18	11	31	19	30	20	M5x0.8	-
R-S18-S14-30	18	14	31	24	30	20	M5x0.8	-
R-S22-S11-45	22	11	39	19	45	25	M5x0.8	-
R-S22-S14-45	22	14	39	24	45	25	M5x0.8	-
R-S22-S18-45	22	18	39	31	45	25	M8x1.0	-
R-S28-S11-60	28	11	50	19	60	35	M5x0.8	-
R-S28-S14-60	28	14	50	24	60	35	M5x0.8	-
R-S28-S18-60	28	18	50	31	60	35	M8x1.0	-
R-S28-S22-60	28	22	50	39	60	35	M8x1.0	-
R-S36-S11-60	36	11	64	19	60	35	M5x0.8	-
R-S36-S14-60	36	14	64	24	60	35	M5x0.8	-
R-S36-S18-60	36	18	64	31	60	35	M8x1.0	-
R-S36-S22-60	36	22	64	39	60	35	M8x1.0	-
R-S36-S28-60	36	28	64	50	60	35	M10x1.0	-
R-S46-S11-105	46	11	90	19	105	75	M5x0.8	-
R-S46-S14-105	46	14	90	24	105	75	M5x0.8	-
R-S46-S18-105	46	18	90	31	105	75	M8x1.0	-
R-S46-S22-105	46	22	90	39	105	75	M8x1.0	-
R-S46-S28-105	46	28	90	50	105	75	M10x1.0	-
R-S46-S36-105	46	36	90	64	105	75	M16x1.5	-

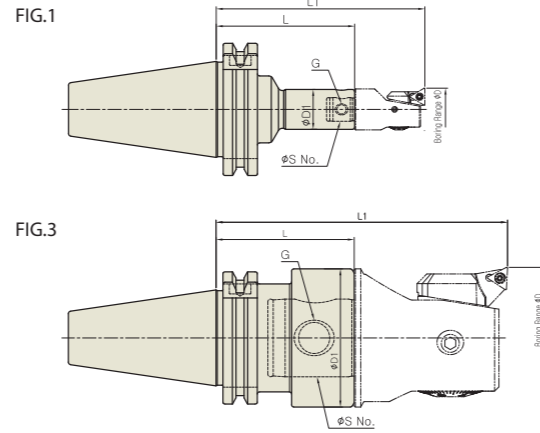
► Reduces the connection sizes to use smaller Boring Head.

FINE BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF FINE BORING BAR

FBH

FEINBOHRHALTER
 BARRE D'ALÉSAGE FIN
 BARRE DI ALESATURA FINE
 BARRA DE MANDRINADO FINO



SK (DIN 69871/ISO 7388-1)

DIN 69871 -SK Taper Accuracy AT3 Coolant System AD

Unit : mm

TAPER No.	BASIC HOLDER	FINE BORING HEAD	INSERT HOLDER	BORE RANGE (ØD)	S No.	D1	L	L1	G	FIG.	WEIGHT (Kg)
40	SK40-S11-72	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	18.5	72	104.5	M5x0.8	1	-
	SK40-S14-42.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	42.5	77.5	M5x0.8	2	-
	SK40-S14-82.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	82.5	117.5	M5x0.8	2	-
	SK40-S18-44	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	44	84	M8x1.0	2	-
	SK40-S18-94	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	94	134	M8x1.0	2	-
	SK40-S22-43	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	43	90	M8x1.0	2	-
	SK40-S22-88	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	88	135	M8x1.0	2	-
	SK40-S28-48	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	48	105	M10x1.0	2	-
	SK40-S36-64	S36-FBH67-125	FBH6787-1	Ø66.9 ~ Ø87.1	36	64	64	135	M16x1.5	3	-
			FBH6787-2	Ø84.9 ~ Ø105.1							-
			FBH6787-3	Ø104.9 ~ Ø125.1							-
	SK40-S46-95	S46-FBH87-154	FBH6787-1	Ø86.9 ~ Ø116.1	46	90	95	177	M16x1.5	3	-
FBH6787-2			Ø104.9 ~ Ø134.1	-							
FBH6787-3			Ø124.9 ~ Ø154.1	-							

- ▶ This is for help selecting Fine Boring Head & Insert Holder.
- ▶ The Insert Holder Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Insert Holder.
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- ▶ The Basic Holder, Boring Head & Insert Holder must be ordered separately.
- ▶ The L, L1 dimensions in the table are the reference values when Boring Head and Insert Holder are mounted.

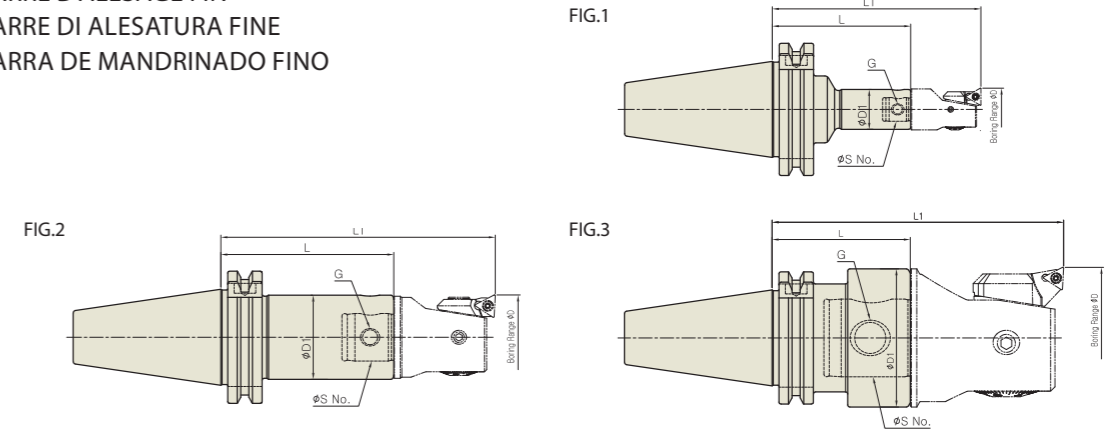
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FINE BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF FINE BORING BAR

FBH

FEINBOHRHALTER
 BARRE D'ALÉSAGE FIN
 BARRE DI ALESATURA FINE
 BARRA DE MANDRINADO FINO



SK (DIN 69871/ISO 7388-1)

DIN 69871 -SK Taper Accuracy AT3 Coolant System AD

Unit : mm

TAPER No.	BASIC HOLDER	FINE BORING HEAD	INSERT HOLDER	BORE RANGE (ØD)	S No.	D1	L	L1	G	FIG.	WEIGHT (Kg)
50	SK50-S11-102	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	18.5	102	134.5	M5x0.8	1	-
	SK50-S14-52.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	52.5	87.5	M5x0.8	2	-
	SK50-S14-112.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	112.5	147.5	M5x0.8	2	-
	SK50-S18-54	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	54	94	M8x1.0	2	-
	SK50-S18-124	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	124	164	M8x1.0	2	-
	SK50-S22-58	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	58	105	M8x1.0	2	-
	SK50-S22-178	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	178	225	M8x1.0	2	-
	SK50-S28-63	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	63	120	M10x1.0	2	-
	SK50-S28-105	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	105	162	M10x1.0	2	-
	SK50-S28-183	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	183	240	M10x1.0	2	-
	SK50-S28-228	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	228	285	M10x1.0	2	-
	SK50-S36-94	S36-FBH67-125	FBH6787-1	Ø66.9 ~ Ø87.1	36	64	94	165	M16x1.5	2	-
FBH6787-2			Ø84.9 ~ Ø105.1	-							
FBH6787-3			Ø104.9 ~ Ø125.1	-							
SK50-S36-169	S36-FBH67-125	FBH6787-1	Ø66.9 ~ Ø87.1	36	64	169	240	M16x1.5	2	-	
		FBH6787-2	Ø84.9 ~ Ø105.1							-	
		FBH6787-3	Ø104.9 ~ Ø125.1							-	
SK50-S36-229	S36-FBH67-125	FBH6787-1	Ø66.9 ~ Ø87.1	36	64	229	300	M16x1.5	2	-	
		FBH6787-2	Ø84.9 ~ Ø105.1							-	
		FBH6787-3	Ø104.9 ~ Ø125.1							-	
SK50-S46-93	S46-FBH87-154	FBH6787-1	Ø86.9 ~ Ø116.1	46	90	93	180	M16x1.5	3	-	
		FBH6787-2	Ø104.9 ~ Ø134.1							-	
		FBH6787-3	Ø124.9 ~ Ø154.1							-	
SK50-S46-243	S46-FBH87-154	FBH6787-1	Ø86.9 ~ Ø116.1	46	90	243	330	M16x1.5	3	-	
		FBH6787-2	Ø104.9 ~ Ø134.1							-	
		FBH6787-3	Ø124.9 ~ Ø154.1							-	

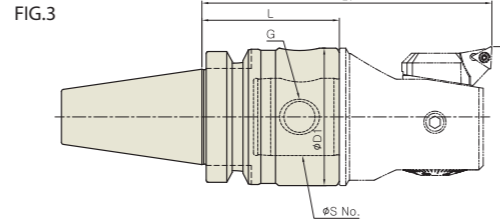
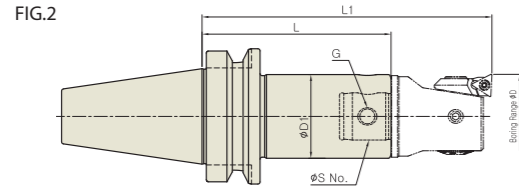
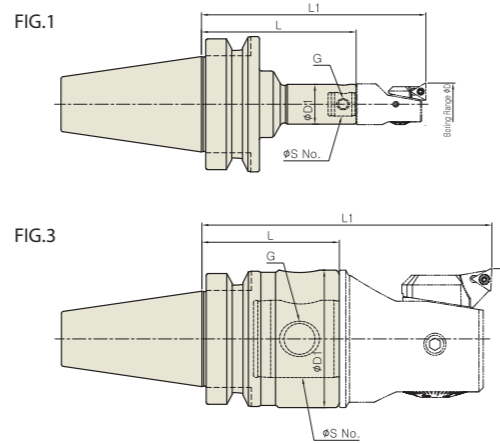
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FINE BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF FINE BORING BAR

FBH

FEINBOHRHALTER
 BARRE D'ALÉSAGE FIN
 BARRE DI ALESATURA FINE
 BARRA DE MANDRINADO FINO



BT (JIS B6339/MAS 403/ISO 7388-2)

JIS B6339 - BT Taper Accuracy AT3 Coolant System AD

Unit : mm

TAPER No.	BASIC HOLDER	FINE BORING HEAD	INSERT HOLDER	BORE RANGE (ØD)	S No.	D1	L	L1	G	FIG.	WEIGHT (Kg)
30	BT30-S11-72	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	18.5	72	104.5	M5x0.8	1	-
	BT30-S14-37.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	37.5	72.5	M5x0.8	2	-
	BT30-S14-82.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	82.5	117.5	M5x0.8	2	-
	BT30-S18-39	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	39	79	M8x1.0	2	-
	BT30-S18-79	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	79	119	M8x1.0	2	-
	BT30-S22-38	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	38	85	M8x1.0	2	-
	BT30-S22-73	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	73	120	M8x1.0	2	-
	BT30-S28-63	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	63	120	M10x1.0	3	-
	BT40-S11-72	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	18.5	72	104.5	M5x0.8	2	-
BT40-S14-42.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	42.5	77.5	M5x0.8	2	-	
BT40-S14-82.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	82.5	117.5	M5x0.8	2	-	
BT40-S18-44	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	44	84	M8x1.0	2	-	
BT40-S18-94	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	94	134	M8x1.0	2	-	
BT40-S22-47	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	47	94	M8x1.0	2	-	
BT40-S22-88	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	88	135	M8x1.0	2	-	
BT40-S28-50	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	50	107	M10x1.0	2	-	
BT40-S28-79	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	79	136	M10x1.0	2	-	
40	BT40-S36-64	S36-FBH67-125	FBH6787-1	Ø66.9 ~ 87.1	36	64	64	135	M16x1.5	3	-
			FBH6787-2	Ø84.9 ~ 105.1						-	-
			FBH6787-3	Ø104.9 ~ 125.1						-	-
	BT40-S46-90	S46-FBH87-154	FBH6787-1	Ø66.9 ~ 87.1	46	90	90	177	M16x1.5	3	-
			FBH6787-2	Ø84.9 ~ 105.1						-	-
			FBH6787-3	Ø104.9 ~ 125.1						-	-

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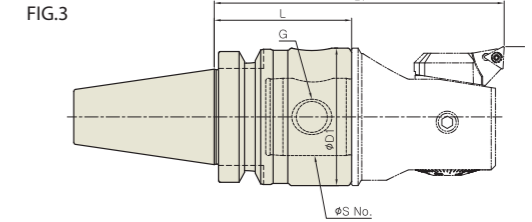
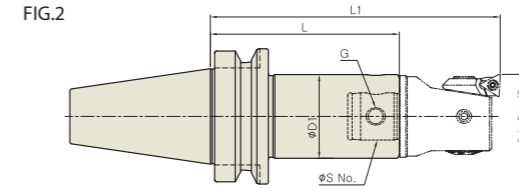
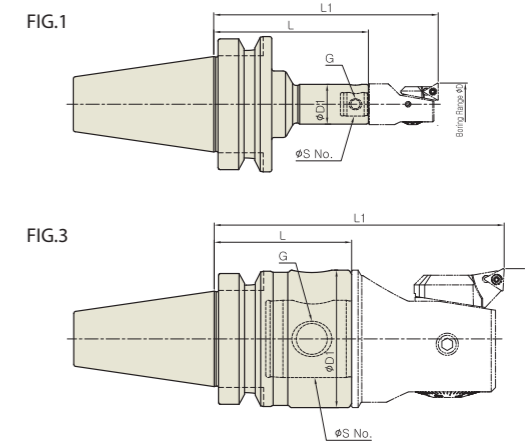
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FINE BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF FINE BORING BAR

FBH

FEINBOHRHALTER
 BARRE D'ALÉSAGE FIN
 BARRE DI ALESATURA FINE
 BARRA DE MANDRINADO FINO



BT (JIS B6339/MAS 403/ISO 7388-2)

JIS B6339 - BT Taper Accuracy AT3 Coolant System AD

Unit : mm

TAPER No.	BASIC HOLDER	FINE BORING HEAD	INSERT HOLDER	BORE RANGE (ØD)	S No.	D1	L	D1	G	FIG.	WEIGHT (Kg)
50	BT50-S11-102	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	18.5	102	18.5	M5x0.8	1	-
	BT50-S14-52.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	52.5	23.5	M5x0.8	2	-
	BT50-S14-112.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	112.5	23.5	M5x0.8	2	-
	BT50-S18-54	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	54	31	M8x1.0	2	-
	BT50-S18-124	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	124	31	M8x1.0	2	-
	BT50-S22-58	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	58	39	M8x1.0	2	-
	BT50-S22-118	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	118	39	M8x1.0	2	-
	BT50-S22-178	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	178	39	M8x1.0	2	-
	BT50-S28-63	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	63	50	M10x1.0	2	-
	BT50-S28-108	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	108	50	M10x1.0	2	-
	BT50-S28-183	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	183	50	M10x1.0	2	-
	BT50-S28-228	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	228	50	M10x1.0	2	-
	BT50-S36-94	S36-FBH67-125	FBH6787-1	Ø66.9 ~ 87.1	36	64	94	64	M16x1.5	2	-
			FBH6787-2	Ø84.9 ~ 105.1						-	-
			FBH6787-3	Ø104.9 ~ 125.1						-	-
	BT50-S36-169	S36-FBH67-125	FBH6787-1	Ø66.9 ~ 87.1	36	64	169	64	M16x1.5	2	-
			FBH6787-2	Ø84.9 ~ 105.1						-	-
			FBH6787-3	Ø104.9 ~ 125.1						-	-
BT50-S36-229	S36-FBH67-125	FBH6787-1	Ø66.9 ~ 87.1	36	64	229	64	M16x1.5	2	-	
		FBH6787-2	Ø84.9 ~ 105.1						-	-	
		FBH6787-3	Ø104.9 ~ 125.1						-	-	
BT50-S46-93	S46-FBH87-154	FBH6787-1	Ø86.9 ~ 116.1	46	90	93	90	M16x1.5	2	-	
		FBH6787-2	Ø104.9 ~ 134.1						-	-	
		FBH6787-3	Ø124.9 ~ 154.1						-	-	
BT50-S46-243	S46-FBH87-154	FBH6787-1	Ø86.9 ~ 116.1	46	90	243	90	M16x1.5	2	-	
		FBH6787-2	Ø104.9 ~ 134.1						-	-	
		FBH6787-3	Ø124.9 ~ 154.1						-	-	

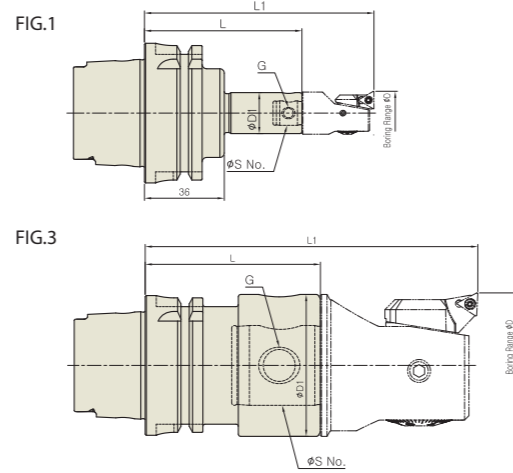
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FINE BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF FINE BORING BAR

FBH

FEINBOHRHALTER
 BARRE D'ALÉSAGE FIN
 BARRE DI ALESATURA FINE
 BARRA DE MANDRINADO FINO



DIN 69893 - HSK
 Coolant System
 AD

HSK-A (DIN 69893/ISO 12164)

TAPER No.	BASIC HOLDER	FINE BORING HEAD	INSERT HOLDER	BORE RANGE (ØD)	S No.	D1	L	L1	G	FIG.	WEIGHT (Kg)
40A	HSK40A-S11-72.5	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	18.5	72.5	104.5	M5x0.8	2	-
	HSK40A-S14-39.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	39.5	74.5	M5x0.8	2	-
	HSK40A-S14-84.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	84.5	119.5	M5x0.8	2	-
	HSK40A-S18-45	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	45	85	M8x1.0	2	-
	HSK40A-S18-80	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	80	120	M8x1.0	2	-
	HSK40A-S22-53	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	53	100	M8x1.0	3	-
	HSK40A-S22-73	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	73	120	M8x1.0	3	-
50A	HSK50A-S11-72.5	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	18.5	72.5	104.5	M5x0.8	2	-
	HSK50A-S14-84.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	84.5	119.5	M5x0.8	2	-
	HSK50A-S18-80	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	80	120	M8x1.0	2	-
	HSK50A-S22-73	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	73	120	M8x1.0	3	-
	HSK50A-S28-83	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	83	140	M10x1.0	3	-
63A	HSK63A-S11-77.5	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	18.5	77.5	110	M5x0.8	2	-
	HSK63A-S14-89.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	89.5	124.5	M5x0.8	2	-
	HSK63A-S18-100	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	100	140	M8x1.0	2	-
	HSK63A-S22-93	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	93	140	M8x1.0	2	-
	HSK63A-S28-83	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	83	140	M10x1.0	2	-
	HSK63A-S36-79	S36-FBH67-125	FBH6787-1	Ø66.9 ~ Ø87.1	36	64	79	150	M16x1.5	3	-
			FBH6787-2	Ø84.9 ~ Ø105.1							-
			FBH6787-3	Ø104.9 ~ Ø125.1							-
	HSK63A-S46-100	S46-FBH87-154	FBH6787-1	Ø86.9 ~ Ø116.1	46	90	100	187	M16x1.5	3	-
			FBH6787-2	Ø104.9 ~ Ø134.1							-
FBH6787-3			Ø124.9 ~ Ø154.1	-							

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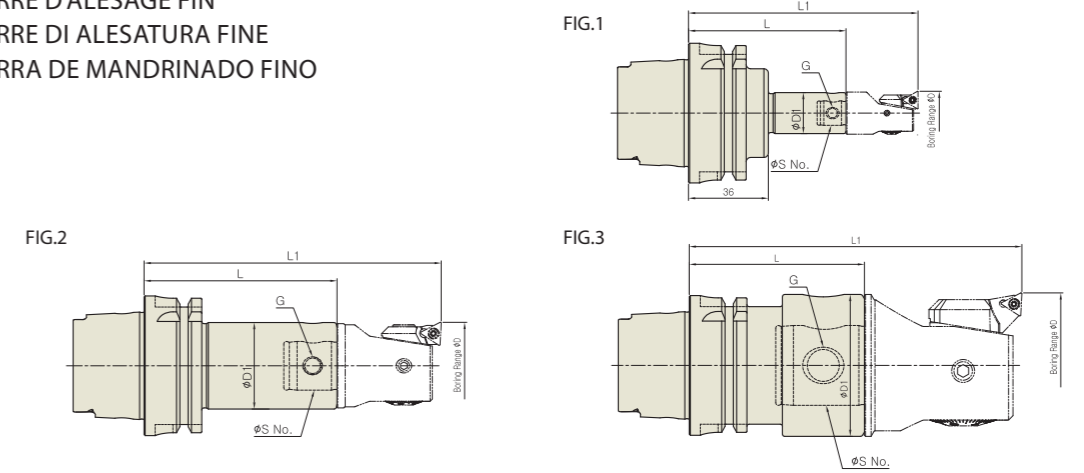
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FINE BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF FINE BORING BAR

FBH

FEINBOHRHALTER
 BARRE D'ALÉSAGE FIN
 BARRE DI ALESATURA FINE
 BARRA DE MANDRINADO FINO



DIN 69893 - HSK
 Coolant System
 AD

HSK-A (DIN 69893/ISO 12164)

TAPER No.	BASIC HOLDER	FINE BORING HEAD	INSERT HOLDER	BORE RANGE (ØD)	S No.	D1	L	L1	G	FIG.	WEIGHT (Kg)
40A	HSK40A-S11-72.5	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	18.5	72.5	104.5	M5x0.8	2	-
	HSK40A-S14-39.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	39.5	74.5	M5x0.8	2	-
	HSK40A-S14-84.5	S14-FBH24-31	FBH24-1	Ø23.9 ~ Ø31.1	14	23.5	84.5	119.5	M5x0.8	2	-
	HSK40A-S18-125	S18-FBH31-40	FBH31-1	Ø30.9 ~ Ø40.1	18	31	125	165	M8x1.0	1	-
	HSK40A-S22-118	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	118	165	M8x1.0	2	-
	HSK40A-S22-178	S22-FBH40-51	FBH40-1	Ø39.9 ~ Ø51.1	22	39	178	225	M8x1.0	2	-
	HSK40A-S28-108	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	108	165	M10x1.0	2	-
	HSK40A-S28-183	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	183	240	M10x1.0	2	-
	HSK40A-S28-228	S28-FBH51-67	FBH51-1	Ø50.9 ~ Ø67.1	28	50	228	285	M10x1.0	2	-
	100A	HSK100A-S36-94	S36-FBH67-125	FBH6787-1	Ø66.9 ~ Ø87.1	36	64	94	165	M16x1.5	2
FBH6787-2				Ø84.9 ~ Ø105.1	-						
FBH6787-3				Ø104.9 ~ Ø125.1	-						
HSK100A-S36-169		S36-FBH67-125	FBH6787-1	Ø66.9 ~ Ø87.1	36	64	169	240	M16x1.5	2	-
			FBH6787-2	Ø84.9 ~ Ø105.1							-
			FBH6787-3	Ø104.9 ~ Ø125.1							-
HSK100A-S36-229		S36-FBH67-125	FBH6787-1	Ø66.9 ~ Ø87.1	36	64	229	300	M16x1.5	2	-
			FBH6787-2	Ø84.9 ~ Ø105.1							-
			FBH6787-3	Ø104.9 ~ Ø125.1							-
HSK100A-S46-123		S46-FBH87-154	FBH6787-1	Ø86.9 ~ Ø116.1	46	90	123	210	M16x1.5	2	-
	FBH6787-2		Ø104.9 ~ Ø134.1	-							
	FBH6787-3		Ø124.9 ~ Ø154.1	-							
HSK100A-S46-273	S46-FBH87-154	FBH6787-1	Ø86.9 ~ Ø116.1	46	90	273	360	M16x1.5	2	-	
		FBH6787-2	Ø104.9 ~ Ø134.1							-	
		FBH6787-3	Ø124.9 ~ Ø154.1							-	

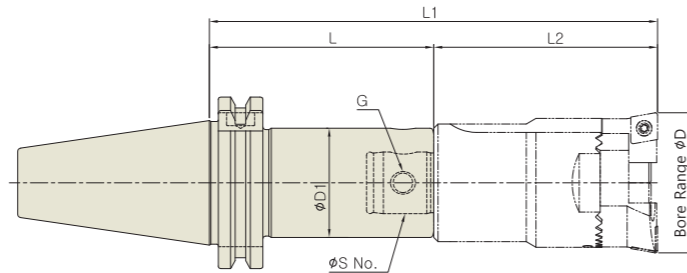
- ▶ This is for help selecting Fine Boring Head & Insert Holder.
- ▶ The Insert Holder Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Insert Holder.
- ▶ The Torx Wrench should be ordered. Please contact us to purchase this wrench.
- ▶ The Basic Holder, Boring Head & Insert Holder must be ordered separately.
- ▶ The L, L1 dimensions in the table are the reference values when Boring Head and Insert Holder are mounted.

ROUGH BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF ROUGH BORING BAR

TBH

DOPPELBOHRHALTER
BARRE D'ALÉSAGE JUMEAUX
BARRE DI ALESATURA GEMELLO
BARRA DE MANDRINAR MELLIZO



SK (DIN 69871)



Unit : mm

TAPER No.	BASIC HOLDER	ROUGH BORING HEAD	CARTRIDGE	BORE RANGE (ØD)	S No.	L1	L2	G	WEIGHT (Kg)
40	SK40-S11-72	S11-TBH25-34	TBH25-34	Ø25 ~ Ø34	11	112	50	M5x0.8	-
	SK40-S18-44	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	104	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					-
	SK40-S18-94	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	154	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					-
	SK40-S22-43	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	123	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					-
	SK40-S22-88	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	168	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					-
	SK40-S36-64	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	174	110	M16x1.5	-
			TBH95-116N	Ø95 ~ Ø116					-
	SK40-S46-90	S46-TBH115-156	TBH115-136N	Ø115 ~ Ø136	46	195	105	M16x1.5	-
TBH135-156N			Ø135 ~ Ø156	-					
50	SK50-S11-102	S11-TBH25-34	TBH25-34	Ø25 ~ Ø34	11	152	50	M5x0.8	-
	SK50-S18-54	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	114	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					-
	SK50-S18-124	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	184	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					-
	SK50-S22-58	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	138	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					-
	SK50-S22-178	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	258	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					-
	SK50-S36-94	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	204	110	M16x1.5	-
			TBH95-116N	Ø95 ~ Ø116					-
	SK50-S46-93	S46-TBH115-156	TBH115-136N	Ø115 ~ Ø136	46	198	105	M16x1.5	-
TBH135-156N			Ø135 ~ Ø156	-					

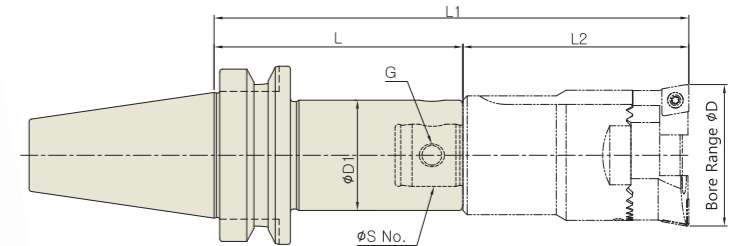
- ▶ This is for help selecting Rough Boring Head & Cartridge.
- ▶ The Cartridge Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Cartridge.
- ▶ The Torx Wrench should be ordered. Please contact us to purchase this wrench.
- ▶ The Basic Holder, Rough Boring Head & Cartridge must be ordered separately.
- ▶ The L1, L2 dimensions in the table are the reference values when Boring Head and Cartridge are mounted.

ROUGH BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF ROUGH BORING BAR

TBH

DOPPELBOHRHALTER
BARRE D'ALÉSAGE JUMEAUX
BARRE DI ALESATURA GEMELLO
BARRA DE MANDRINAR MELLIZO



BT (JIS B6339/MAS 403)



Unit : mm

TAPER No.	BASIC HOLDER	ROUGH BORING HEAD	CARTRIDGE	BORE RANGE (ØD)	S No.	L1	L2	G	WEIGHT (Kg)
30	BT30-S11-72	S11-TBH25-34	TBH25-34	Ø25 ~ Ø34	11	122	50	M5x0.8	-
	BT30-S18-39	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	99	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					-
	BT30-S18-79	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	139	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					-
	BT30-S22-38	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	118	80	M8x1.0	-
TBH63-77N			Ø63 ~ Ø77	-					
BT30-S22-73	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	153	80	M8x1.0	-	
		TBH63-77N	Ø63 ~ Ø77					-	
40	BT40-S11-72	S11-TBH25-34	TBH25-34	Ø25 ~ Ø34	11	122	50	M5x0.8	-
	BT40-S18-44	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	104	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					-
	BT40-S18-94	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	154	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					-
	BT40-S22-47	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	127	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					-
	BT40-S22-88	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	168	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					-
	BT40-S36-64	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	174	110	M16x1.5	-
			TBH95-116N	Ø95 ~ Ø116					-
	BT40-S36-64	S36-TBH115-156	TBH115-136N	Ø115 ~ Ø136	36	169	110	M16x1.5	-
TBH135-156N			Ø135 ~ Ø156	-					

- ▶ This is for help selecting Rough Boring Head & Cartridge.
- ▶ The Cartridge Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Cartridge.
- ▶ The Torx Wrench should be ordered. Please contact us to purchase this wrench.
- ▶ The Basic Holder, Rough Boring Head & Cartridge must be ordered separately.
- ▶ The L1, L2 dimensions in the table are the reference values when Boring Head and Cartridge are mounted.

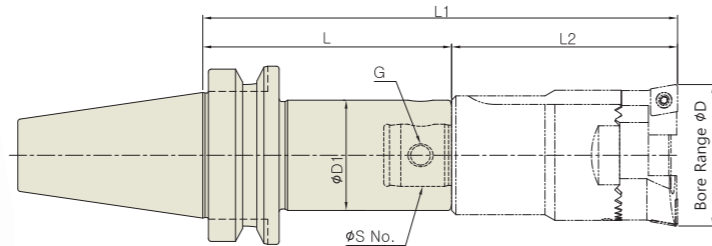
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ROUGH BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF ROUGH BORING BAR

TBH

DOPPELBOHRHALTER
BARRE D'ALÉSAGE JUMEAUX
BARRE DI ALESATURA GEMELLO
BARRA DE MANDRINAR MELLIZO



BT (JIS B6339/MAS 403)



Unit : mm

TAPER No.	BASIC HOLDER	ROUGH BORING HEAD	CARTRIDGE	BORE RANGE (ØD)	S No.	L1	L2	G	WEIGHT (Kg)
50	BT50-S11-102	S11-TBH25-34	TBH25-34	Ø25 ~ Ø34	11	152	50	M5x0.8	-
	BT50-S18-54	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	114	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					
	BT50-S18-124	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	184	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					
	BT50-S22-58	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	138	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					
	BT50-S22-118	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	198	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					
	BT50-S22-178	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	258	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					
	BT50-S36-94	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	204	110	M16x1.5	-
			TBH95-116N	Ø95 ~ Ø116					
	BT50-S36-169	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	179	110	M16x1.5	-
			TBH95-116N	Ø95 ~ Ø116					
	BT50-S36-229	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	339	110	M16x1.5	-
TBH95-116N			Ø95 ~ Ø116						
BT50-S46-93	S46-TBH115-156	TBH115-136N	Ø115 ~ Ø136	46	198	105	M16x1.5	-	
		TBH135-156N	Ø135 ~ Ø156						

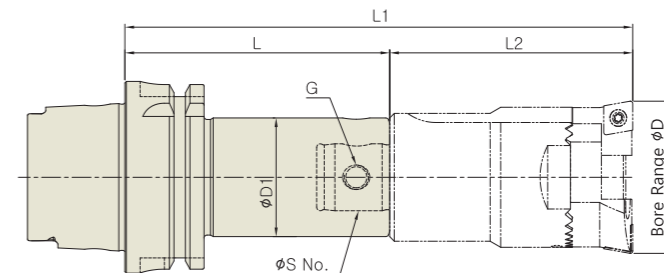
- ▶ This is for help selecting Rough Boring Head & Cartridge.
- ▶ The Cartridge Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Cartridge.
- ▶ The Torx Wrench should be ordered. Please contact us to purchase this wrench.
- ▶ The Basic Holder, Rough Boring Head & Cartridge must be ordered separately.
- ▶ The L1, L2 dimensions in the table are the reference values when Boring Head and Cartridge are mounted.

ROUGH BORING BAR (SMALL BORE)

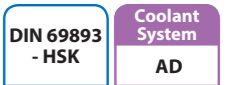
TYPICAL CONFIGURATION OF ROUGH BORING BAR

TBH

DOPPELBOHRHALTER
BARRE D'ALÉSAGE JUMEAUX
BARRE DI ALESATURA GEMELLO
BARRA DE MANDRINAR MELLIZO



HSK (DIN 69893/ISO 12164)



Unit : mm

TAPER No.	BASIC HOLDER	ROUGH BORING HEAD	CARTRIDGE	BORE RANGE (ØD)	S No.	L1	L2	G	WEIGHT (Kg)
40A	HSK40A-S11-72.5	S11-TBH25-34	TBH25-34	Ø25 ~ Ø34	11	122.5	50	M5x0.8	-
	HSK40A-S18-45	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	105	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					
	HSK40A-S18-80	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	140	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					
	HSK40A-S22-53	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	133	80	M8x1.0	-
TBH63-77N			Ø63 ~ Ø77						
HSK40A-S22-73	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	153	80	M8x1.0	-	
		TBH63-77N	Ø63 ~ Ø77						
50A	HSK50A-S11-72.5	S11-TBH25-34	FBH20-1	Ø20 ~ Ø24	11	122.5	50	M5x0.8	-
	HSK50A-S18-80	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	140	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					
	HSK50A-S22-73	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	153	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					
	HSK50A-S36-79	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	189	110	M16x1.5	-
TBH95-116N			Ø95 ~ Ø116						
63A	HSK63A-S11-77.5	S11-TBH25-34	TBH25-34	Ø25 ~ Ø34	11	127.5	50	M5x0.8	-
	HSK63A-S18-100	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	160	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					
	HSK63A-S22-93	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	173	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					
	HSK63A-S36-79	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	189	110	M16x1.5	-
TBH95-116N			Ø95 ~ Ø116						

- ▶ This is for help selecting Rough Boring Head & Cartridge.
- ▶ The Cartridge Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Cartridge.
- ▶ The Torx Wrench should be ordered. Please contact us to purchase this wrench.
- ▶ The Basic Holder, Rough Boring Head & Cartridge must be ordered separately.
- ▶ The L1, L2 dimensions in the table are the reference values when Boring Head and Cartridge are mounted.

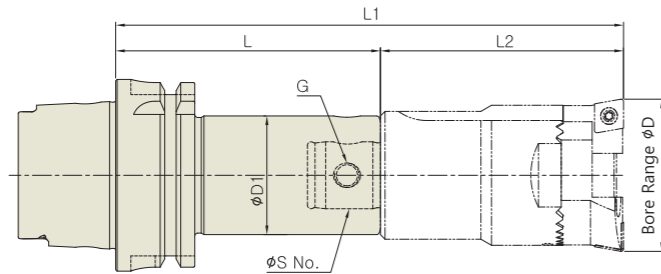
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ROUGH BORING BAR (SMALL BORE)

TYPICAL CONFIGURATION OF ROUGH BORING BAR

TBH

DOPPELBOHRHALTER
BARRE D'ALÉSAGE JUMEAUX
BARRE DI ALESATURA GEMELLO
BARRA DE MANDRINAR MELLIZO



HSK (DIN 69893/ISO 12164)

DIN 69893
- HSK

Coolant
System
AD

Unit : mm

TAPER No.	BASIC HOLDER	ROUGH BORING HEAD	CARTRIDGE	BORE RANGE (ØD)	S No.	L1	L2	G	WEIGHT (Kg)
100A	HSK100A-S11-102.5	S11-FBH20-24	FBH20-1	Ø20 ~ Ø24	11	152.5	50	M5x0.8	-
	HSK100A-S18-125	S18-TBH34-51	TBH34-43N	Ø34 ~ Ø43	18	185	60	M8x1.0	-
			TBH42-51N	Ø42 ~ Ø51					-
	HSK100A-S22-118	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	198	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					-
	HSK100A-S22-178	S22-TBH50-77	TBH50-64N	Ø50 ~ Ø64	22	258	80	M8x1.0	-
			TBH63-77N	Ø63 ~ Ø77					-
	HSK100A-S36-94	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	204	110	M16x1.5	-
			TBH95-116N	Ø95 ~ Ø116					-
	HSK100A-S36-169	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	279	110	M16x1.5	-
			TBH95-116N	Ø95 ~ Ø116					-
	HSK100A-S36-229	S36-TBH76-116	TBH76-97N	Ø76 ~ Ø97	36	339	110	M16x1.5	-
			TBH95-116N	Ø95 ~ Ø116					-
	HSK100A-S46-123	S46-TBH115-156	TBH115-136N	Ø115 ~ Ø136	46	228	105	M16x1.5	-
			TBH135-156N	Ø135 ~ Ø156					-
	HSK100A-S46-273	S46-TBH115-156	TBH115-136N	Ø115 ~ Ø136	46	378	105	M16x1.5	-
TBH135-156N			Ø135 ~ Ø156	-					

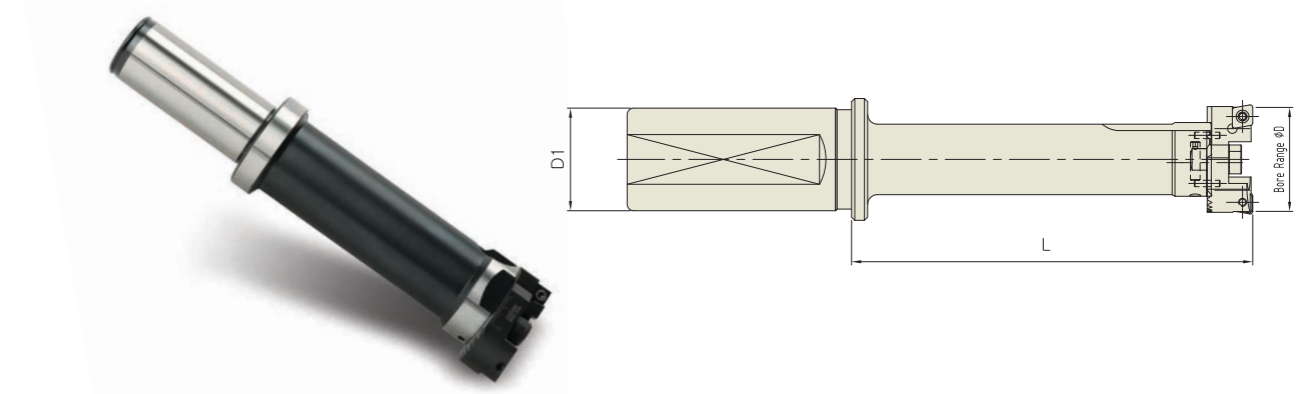
- ▶ This is for help selecting Rough Boring Head & Cartridge.
- ▶ The Cartridge Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Cartridge.
- ▶ The Torx Wrench should be ordered. Please contact us to purchase this wrench.
- ▶ The Basic Holder, Rough Boring Head & Cartridge must be ordered separately.
- ▶ The L1, L2 dimensions in the table are the reference values when Boring Head and Cartridge are mounted.

ROUGH BORING BAR (SMALL BORE)

ROUGH BORING BAR

TBH

DOPPELBOHRHALTER
BARRE D'ALÉSAGE JUMEAUX
BARRE DI ALESATURA GEMELLO
BARRA DE MANDRINAR MELLIZO



STRAIGHT-ST

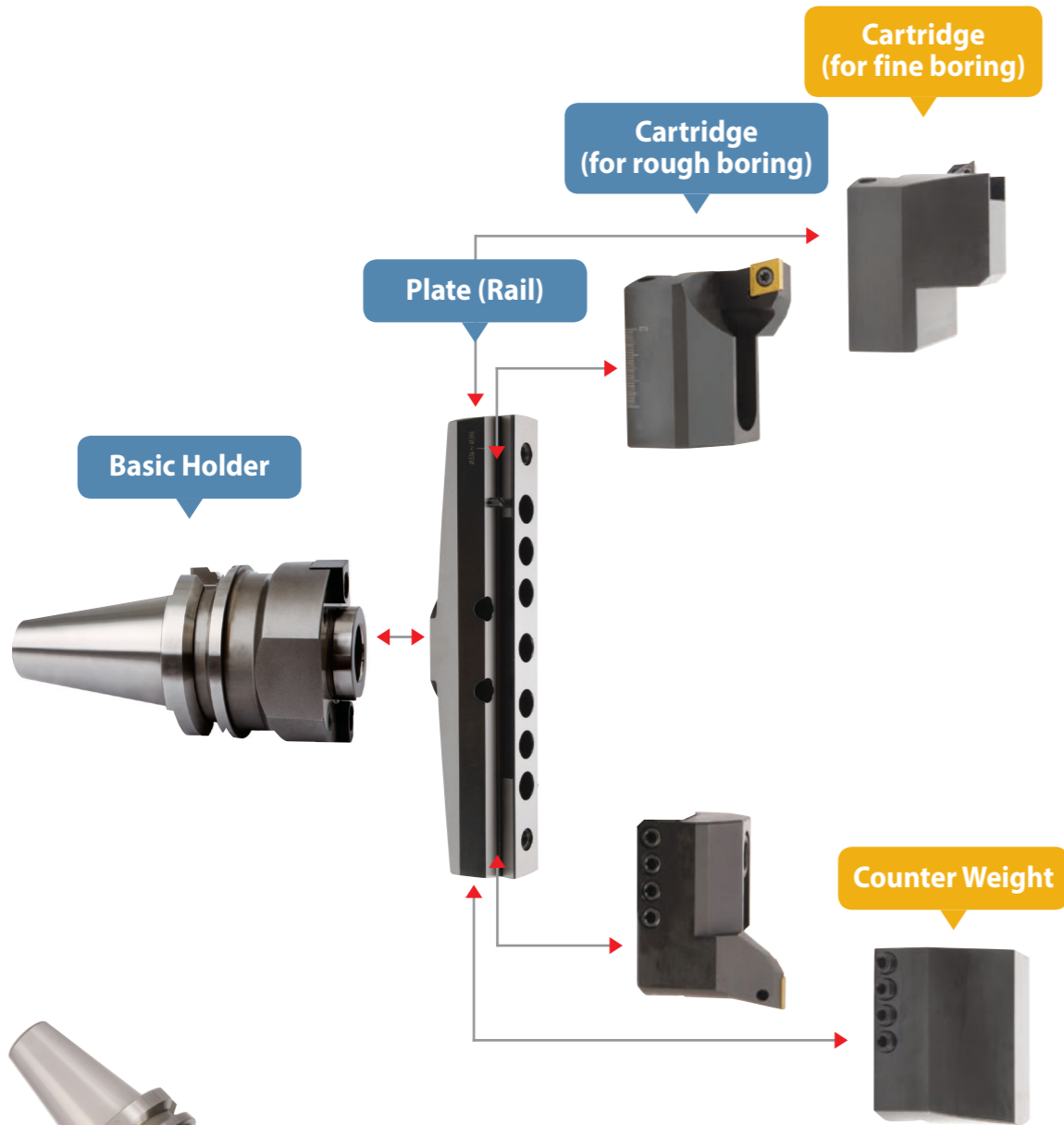
Unit : mm

TAPER No.	MODEL No.	CARTRIDGE	BORE RANGE (ØD)	L	D1	WEIGHT (Kg)
32	ST32-TBH25-125	TBH25-34	Ø25 ~ Ø34	125	32	-
	ST32-TBH34-130	TBH34-43N	Ø34 ~ Ø43	130	32	-
		TBH42-51N	Ø42 ~ Ø51			-
40	ST32-TBH50-155	TBH50-64N	Ø50 ~ Ø64	155	32	-
		TBH63-77N	Ø63 ~ Ø77			-
	ST40-TBH76-185	TBH76-97N	Ø76 ~ Ø97	185	40	-
42	ST42-TBH76-185	TBH95-116N	Ø95 ~ Ø116	185	42	-
		TBH76-97N	Ø76 ~ Ø97			-
		TBH95-116N	Ø96 ~ Ø116			-

- ▶ This is for help selecting Straight Rough Boring Head & Cartridge.
- ▶ The Cartridge Clamp Screw is supplied with Boring Head.
- ▶ The Insert Screw is supplied with Cartridge.
- ▶ The Torx Wrench should be ordered. Please contact us to purchase this wrench.
- ▶ The Straight Shank & Cartridge must be ordered separately.
- ▶ The Straight Shank & Rough Boring Head are combined.
- ▶ The dimensions L in the table are the reference values when cartridge are mounted.

FINE AND ROUGH BORING (BIG BORE)

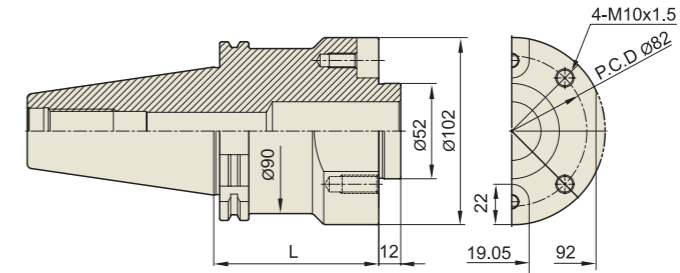
Boring Range : 153mm~576mm (FINE BORING BAR)
156mm~576mm (ROUGH BORING BAR)



FEATURE

- Easy to replace head
- Using insert conforming to ISO standard
- Special Rough Boring Bars with a boring range up to 800mm could be manufactured
- Basic holder interchangeable between Fine Boring Bar and Rough Boring Bar

BASIC HOLDER



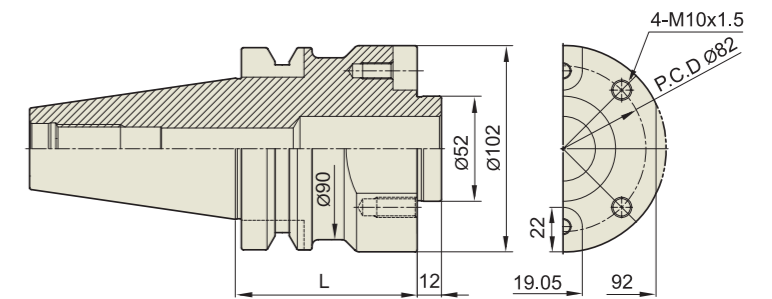
SK (DIN 69871)

DIN 69871 -SK	Taper Accuracy AT3
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Unit : mm

MODEL No.	L
SK50-SAS102-90	90
SK50-SAS102-140	140
SK50-SAS102-190	190

▶ Basic holder interchangeable between Fine Boring Bar and Rough Boring Bar.



BT (JIS B6339/MAS 403)

JIS B6339 -BT	Taper Accuracy AT3
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Unit : mm

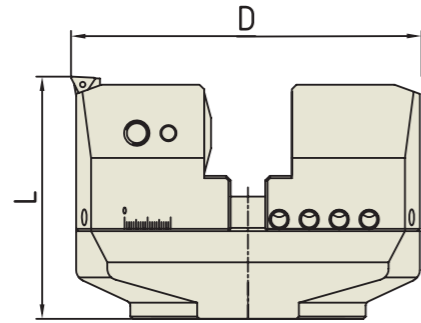
MODEL No.	L
BT50-SAS102-90	90
BT50-SAS102-140	140
BT50-SAS102-190	190

▶ Basic holder interchangeable between Fine Boring Bar and Rough Boring Bar.

FINE BORING BAR (BIG BORE)

FINE BORING HEAD

PART



Unit : mm

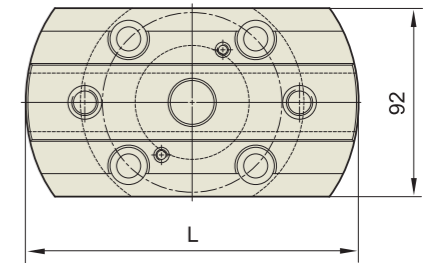
MODEL No.	D (BORE RANGE)		L (HEIGHT)	WEIGHT (Kg)
	Min.	Max.		
FBH153S	153	216	105	-
FBH216S	216	276	105	-
FBH276S	276	336	105	-
FBH336S	336	396	105	-
FBH396S	396	456	105	-
FBH456S	456	516	105	-
FBH516S	516	576	105	-

SPARE PART							
BORING HEAD	PLATE	CARTRIDGE	CLAMP BOLT	COUNTER WEIGHT	WRENCH	CLAMP SCREW	T-WRENCH
FBH153S	PLA153	FTP11	M10 X 30L	FBB153	L-W 5	FTNA0307	T7
FBH216S	PLA216						
FBH276S	PLA276						
FBH336S	PLA336						
FBH396S	PLA396						
FBH456S	PLA456						
FBH516S	PLA516						

ROUGH BORING BAR (BIG BORE)

PLATE

PART



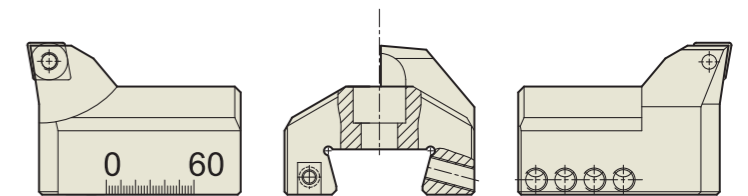
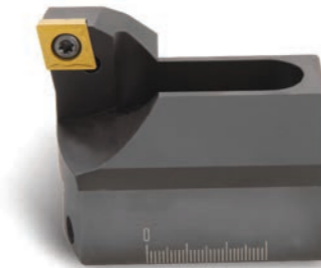
Unit : mm

PLATE	D
PLA156	152
PLA216	212
PLA276	272
PLA336	332
PLA396	392
PLA456	452
PLA516	512

ROUGH BORING BAR (BIG BORE)

CARTRIDGE

PART



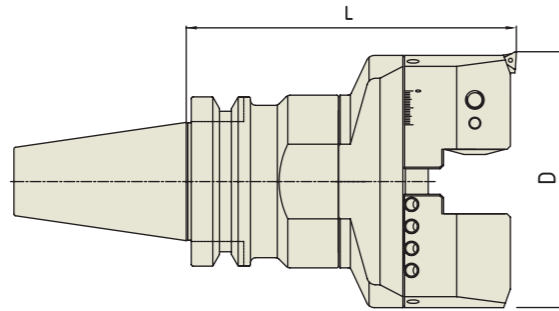
Unit : mm

for Rough Cutting
CN120

FINE BORING BAR (BIG BORE)

FINE BORING BAR

FEINBOHRHALTER
ALÉSAGE PROFOND
BARRE DI ALESATURA FINE
BARRA DE MANDRINADO FINO



FBH

BT (JIS B6339/MAS 403)



Unit : mm

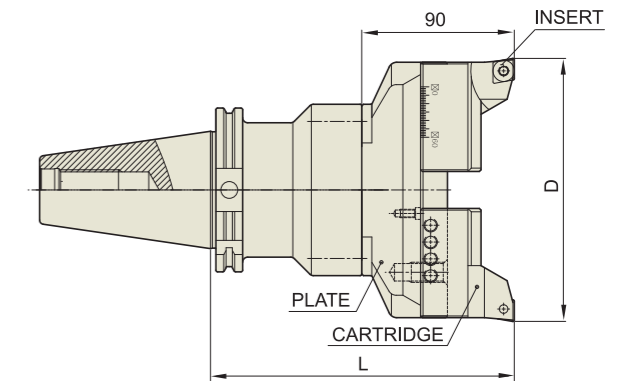
MODEL No.	D (BORE RANGE)		BODY (BASIC HOLDER)	BORING HEAD	WEIGHT (Kg)
	Min.	Max.			
BT50-FBH153-195	153	216	BT50-SAS102-90	FBH153S	-
BT50-FBH153-265			BT50-SAS102-160		-
BT50-FBH153-315			BT50-SAS102-210		-
BT50-FBH153-365			BT50-SAS102-260		-
BT50-FBH216-195	216	276	BT50-SAS102-90	FBH216S	-
BT50-FBH216-265			BT50-SAS102-160		-
BT50-FBH216-315			BT50-SAS102-210		-
BT50-FBH216-365			BT50-SAS102-260		-
BT50-FBH276-195	276	336	BT50-SAS102-90	FBH276S	-
BT50-FBH276-265			BT50-SAS102-160		-
BT50-FBH276-315			BT50-SAS102-210		-
BT50-FBH276-365			BT50-SAS102-260		-
BT50-FBH336-195	336	396	BT50-SAS102-90	FBH336S	-
BT50-FBH336-265			BT50-SAS102-160		-
BT50-FBH336-315			BT50-SAS102-210		-
BT50-FBH336-365			BT50-SAS102-260		-
BT50-FBH396-195	396	456	BT50-SAS102-90	FBH396S	-
BT50-FBH396-265			BT50-SAS102-160		-
BT50-FBH396-315			BT50-SAS102-210		-
BT50-FBH396-365			BT50-SAS102-260		-
BT50-FBH456-195	456	516	BT50-SAS102-90	FBH456S	-
BT50-FBH456-265			BT50-SAS102-160		-
BT50-FBH456-315			BT50-SAS102-210		-
BT50-FBH456-365			BT50-SAS102-260		-
BT50-FBH516-195	516	576	BT50-SAS102-90	FBH516S	-
BT50-FBH516-265			BT50-SAS102-160		-
BT50-FBH516-315			BT50-SAS102-210		-
BT50-FBH516-365			BT50-SAS102-260		-

► Basic holder interchangeable between Fine Boring Bar and Rough Boring Bar.

ROUGH BORING BAR (BIG BORE)

ROUGH BORING BAR

DOPPELSCHNEIDER - BOHRSTANGE
BARRE D'ALÉSAGE À 2 ARÊTES DE COUPE
PORTA TESTINE BILAMA
BARRAS DE MANDRINAR DE DOS PLACAS



TBH

SK (DIN 69871/ISO 7388-1)



Unit : mm

MODEL No.	D (BORE RANGE)		L	BODY	PLATE	INSERT	WEIGHT (Kg)
	Min.	Max.					
SK50-TBH156-180	156	216	180	SK50-SAS102-90	PLA156	CCMT120400	-
SK50-TBH156-230	156	216	230	SK50-SAS102-140	PLA156	CCMT120400	-
SK50-TBH156-280	156	216	280	SK50-SAS102-190	PLA156	CCMT120400	-
SK50-TBH216-180	216	276	180	SK50-SAS102-90	PLA216	CCMT120400	-
SK50-TBH216-230	216	276	230	SK50-SAS102-140	PLA216	CCMT120400	-
SK50-TBH216-280	216	276	280	SK50-SAS102-190	PLA216	CCMT120400	-
SK50-TBH276-180	276	336	180	SK50-SAS102-90	PLA276	CCMT120400	-
SK50-TBH276-230	276	336	230	SK50-SAS102-140	PLA276	CCMT120400	-
SK50-TBH276-280	276	336	280	SK50-SAS102-190	PLA276	CCMT120400	-
SK50-TBH336-180	336	396	180	SK50-SAS102-90	PLA336	CCMT120400	-
SK50-TBH336-230	336	396	230	SK50-SAS102-140	PLA336	CCMT120400	-
SK50-TBH336-280	336	396	280	SK50-SAS102-190	PLA336	CCMT120400	-
SK50-TBH396-180	396	456	180	SK50-SAS102-90	PLA396	CCMT120400	-
SK50-TBH396-230	396	456	230	SK50-SAS102-140	PLA396	CCMT120400	-
SK50-TBH396-280	396	456	280	SK50-SAS102-190	PLA396	CCMT120400	-
SK50-TBH456-180	456	516	180	SK50-SAS102-90	PLA456	CCMT120400	-
SK50-TBH456-230	456	516	230	SK50-SAS102-140	PLA456	CCMT120400	-
SK50-TBH456-280	456	516	280	SK50-SAS102-190	PLA456	CCMT120400	-
SK50-TBH516-180	516	576	180	SK50-SAS102-90	PLA516	CCMT120400	-
SK50-TBH516-230	516	576	230	SK50-SAS102-140	PLA516	CCMT120400	-
SK50-TBH516-280	516	576	280	SK50-SAS102-190	PLA516	CCMT120400	-

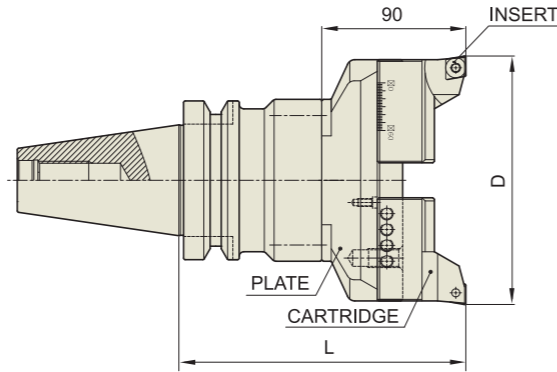
- Upon request, special Rough Boring Bars with a boring range up to 800mm could be manufactured and supplied.
- Basic holder interchangeable between Fine Boring Bar and Rough Boring Bar.

ROUGH BORING BAR (BIG BORE)

ROUGH BORING BAR

DOPPELSCHNEIDER - BOHRSTANGE
 BARRE D'ALÉSAGE À 2 ARÊTES DE COUPE
 PORTA TESTINE BILAMA
 BARRAS DE MANDRINAR DE DOS PLACAS

TBH



JIS B6339 - BT Taper Accuracy AT3 Coolant System A

Unit : mm

BT (JIS B6339/MAS 403)

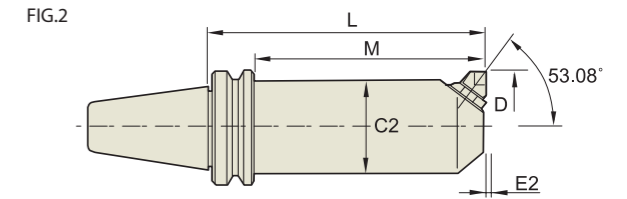
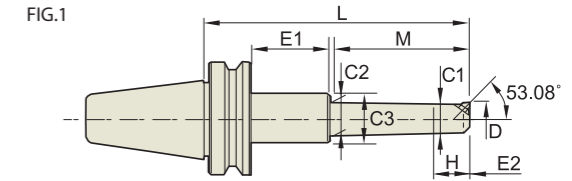
MODEL No.	D (BORE RANGE)		L	BODY	PLATE	INSERT	WEIGHT (Kg)
	Min.	Max.					
BT50-TBH156-180	156	216	180	BT50-SAS102-90	PLA156	CCMT120400	-
BT50-TBH156-230	156	216	230	BT50-SAS102-140	PLA156	CCMT120400	-
BT50-TBH156-280	156	216	280	BT50-SAS102-190	PLA156	CCMT120400	-
BT50-TBH216-180	216	276	180	BT50-SAS102-90	PLA216	CCMT120400	-
BT50-TBH216-230	216	276	230	BT50-SAS102-140	PLA216	CCMT120400	-
BT50-TBH216-280	216	276	280	BT50-SAS102-190	PLA216	CCMT120400	-
BT50-TBH276-180	276	336	180	BT50-SAS102-90	PLA276	CCMT120400	-
BT50-TBH276-230	276	336	230	BT50-SAS102-140	PLA276	CCMT120400	-
BT50-TBH276-280	276	336	280	BT50-SAS102-190	PLA276	CCMT120400	-
BT50-TBH336-180	336	396	180	BT50-SAS102-90	PLA336	CCMT120400	-
BT50-TBH336-230	336	396	230	BT50-SAS102-140	PLA336	CCMT120400	-
BT50-TBH336-280	336	396	280	BT50-SAS102-190	PLA336	CCMT120400	-
BT50-TBH396-180	396	456	180	BT50-SAS102-90	PLA396	CCMT120400	-
BT50-TBH396-230	396	456	230	BT50-SAS102-140	PLA396	CCMT120400	-
BT50-TBH396-280	396	456	280	BT50-SAS102-190	PLA396	CCMT120400	-
BT50-TBH456-180	456	516	180	BT50-SAS102-90	PLA456	CCMT120400	-
BT50-TBH456-230	456	516	230	BT50-SAS102-140	PLA456	CCMT120400	-
BT50-TBH456-280	456	516	280	BT50-SAS102-190	PLA456	CCMT120400	-
BT50-TBH516-180	516	576	180	BT50-SAS102-90	PLA516	CCMT120400	-
BT50-TBH516-230	516	576	230	BT50-SAS102-140	PLA516	CCMT120400	-
BT50-TBH516-280	516	576	280	BT50-SAS102-190	PLA516	CCMT120400	-

▶ Upon request, special Rough Boring Bars with a boring range up to 800mm could be manufactured and supplied.
 ▶ Basic holder interchangeable between Fine Boring Bar and Rough Boring Bar.

MICRO BORING BAR

MIKRO - BOHRSTANGE
 BARRE D'ALÉSAGE MICRO
 PORTA TESTINE MICROREGISTRABILI
 BARRAS DE MANDRINAR MICRO

BCA



JIS B6339 - BT Taper Accuracy AT3 Coolant System A

Unit : mm

BT (JIS B6339/MAS 403)

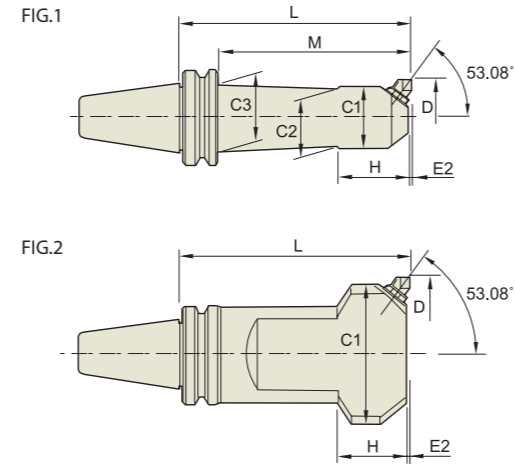
TAPER No.	MODEL No.	D (BORE RANGE)		L	M	C1	C2	C3	H	E1	E2	UNIT	INSERT	FIG.	WEIGHT (Kg)	
		Min.	Max.													
30	BT30-BCA13.5-105	13.5	16	105	68	12	13.0	44	15	5	0.2	M1B2E/F	BRAZED TYPE	1	-	
	BT30-BCA14.5-105	14.5	17	105	68	13	14.0	44	15	5	0.2	M1B2E/F	BRAZED TYPE	1	-	
	BT30-BCA16-105	16	22.5	105	73	14	15	-	18	-	0.2	M1A2E/F	BRAZED TYPE	3	-	
	BT30-BCA19-120	19	23	120	85	16	18	44	23	3	0.2	M2B2CC	CCGT0401	1	0.70	
	BT30-BCA23-135	23	29	135	105	19	22	-	24	-	0.2	M3B2TC	TBGT0601	3	0.70	
	BT30-BCA29-150	29	41	150	115	25	28	44	30	8	0.2	M3A2TC	TBGT0601	1	0.90	
	BT30-BCA29-195	29	41	195	115	25	28	44	30	53	0.2	M3A2TC	TBGT0601	1	-	
	BT30-BCA38-150	38	49	150	115	33	35	55	41	8	0.2	M5B2TC	TCGT1102	1	1.40	
	BT30-BCA38-210	38	49	210	175	33	37	55	41	8	0.2	M5B2TC	TCGT1102	1	-	
	BT30-BCA46-150	46	66	150	115	38	41	55	45	8	0.2	M5A2TC	TCGT1102	1	2.10	
	BT30-BCA46-210	46	66	210	175	38	45	55	45	8	0.2	M5A2TC	TCGT1102	1	-	
	BT30-BCA62-165	62	87	165	135	51	-	-	-	-	0.2	M7A2TC	TCGT16T3	2	-	
	40	BT40-BCA13.5-105	13.5	16	105	68	12	13.0	44	15	5	0.2	M1B2E/F	BRAZED TYPE	1	-
		BT40-BCA14.5-105	14.5	17	105	68	13	14.0	44	15	5	0.2	M1B2E/F	BRAZED TYPE	1	-
BT40-BCA16-105		16	22.5	105	73	14	15	-	18	-	0.2	M1A2E/F	BRAZED TYPE	3	-	
BT40-BCA19-120		19	23	120	85	16	18	44	23	3	0.2	M2B2CC	CCGT0401	1	1.50	
BT40-BCA23-135		23	29	135	105	19	22	-	24	-	0.2	M3B2TC	TBGT0601	3	1.50	
BT40-BCA29-150		29	41	150	115	25	28	44	30	8	0.2	M3A2TC	TBGT0601	1	1.50	
BT40-BCA29-195		29	41	195	115	25	28	44	30	53	0.2	M3A2TC	TBGT0601	1	2.00	
BT40-BCA38-150		38	49	150	115	33	35	55	41	8	0.2	M5B2TC	TCGT1102	1	1.80	
BT40-BCA38-210		38	49	210	175	33	37	55	41	8	0.2	M5B2TC	TCGT1102	1	2.20	
BT40-BCA46-150		46	66	150	115	38	41	55	45	8	0.2	M5A2TC	TCGT1102	1	2.10	
BT40-BCA46-210		46	66	210	175	38	45	55	45	8	0.2	M5A2TC	TCGT1102	1	2.30	
BT40-BCA62-165		62	87	165	135	51	-	-	-	-	0.2	M7A2TC	TCGT16T3	2	2.90	
BT40-BCA62-210		62	87	210	180	51	-	-	-	-	0.2	M7A2TC	TCGT16T3	2	3.60	
BT40-BCA83-150		83	108	150	120	63	-	-	-	-	0.2	M7A2TC	TCGT16T3	2	-	
BT40-BCA83-210	83	108	210	180	63	-	-	-	-	0.2	M7A2TC	TCGT16T3	2	-		
BT40-BCA98-150	98	142	150	120	83	-	-	85	-	0.2	M10A2TC	TCGT16T3	4	-		

▶ NEXT PAGE

MICRO BORING BAR

BCA

MIKRO - BOHRSTANGE
 BARRE D'ALÉSAGE MICRO
 PORTA TESTINE MICROREGISTRABILI
 BARRAS DE MANDRINAR MICRO



JIS B6339 -BT	Taper Accuracy AT3	Coolant System A
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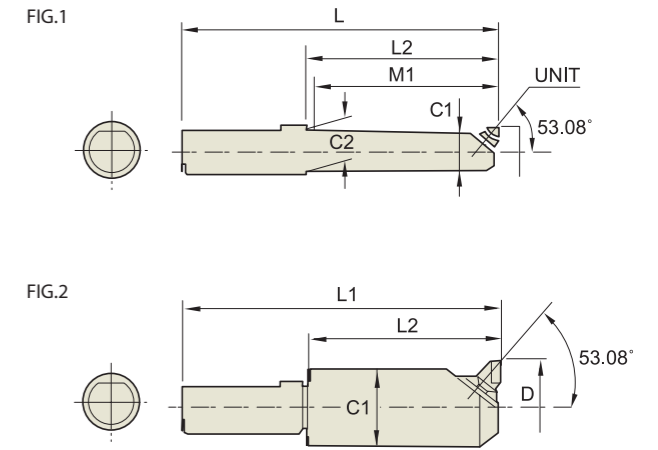
Unit : mm

TAPER No.	MODEL No.	D (BORE RANGE)		L	M	C1	C2	C3	H	E1	E2	UNIT	INSERT	FIG.	WEIGHT (Kg)
		Min.	Max.												
50	BT50-BCA13.5-120	13.5	16	120	67	12	13	44	15	10	0.2	M1B2E/F	-	1	-
	BT50-BCA13.5-195	13.5	16	195	67	12	13	44	15	85	0.2	M1B2E/F	-	1	-
	BT50-BCA14.5-120	14.5	17	120	67	13	14	44	15	10	0.2	M1B2E/F	-	1	-
	BT50-BCA14.5-195	14.5	17	195	67	13	14	44	15	85	0.2	M1B2E/F	-	1	-
	BT50-BCA16-120	16	22.5	120	73	14	15	44	18	4	0.2	M1A2E/F	-	1	-
	BT50-BCA16-195	16	22.5	195	73	14	15	44	18	79	0.2	M1A2E/F	-	1	-
	BT50-BCA19-135	19	23	135	86	16	18	44	23	6	0.2	M2B2CC	CCGT0401	1	3.80
	BT50-BCA19-210	19	23	210	86	16	18	44	23	81	0.2	M2B2CC	CCGT0401	1	-
	BT50-BCA23-150	23	29	150	105	19	22	44	24	2	0.2	M3B2TC	TBGT0601	1	3.90
	BT50-BCA23-225	23	29	225	105	19	22	44	24	77	0.2	M3B2TC	TBGT0601	1	-
	BT50-BCA29-165	29	41	165	115	25	28	44	30	7	0.2	M3A2TC	TBGT0601	1	4.50
	BT50-BCA29-225	29	41	225	165	25	28	44	30	67	0.2	M3A2TC	TBGT0601	1	-
	BT50-BCA38-165	38	49	165	115	33	35	55	41	7	0.2	M5B2TC	TCGT1102	1	-
	BT50-BCA38-225	38	49	225	172	33	37	55	41	10	0.2	M5B2TC	TCGT1102	1	5.00
	BT50-BCA46-165	46	66	165	115	38	41	55	45	7	0.2	M5A2TC	TCGT1102	1	5.20
	BT50-BCA46-225	46	66	225	182	38	-	-	45	-	0.2	M5A2TC	TCGT1102	3	-
	BT50-BCA46-255	46	66	255	206	38	-	55	45	6	0.2	M5A2TC	TCGT1102	1	5.70
	BT50-BCA62-180	62	87	180	137	51	-	-	-	-	0.2	M7A2TC	TCGT16T3	2	7.00
	BT50-BCA62-240	62	87	240	184	51	57	70	60	13	0.2	M7A2TC	TCGT16T3	1	7.60
	BT50-BCA62-330	62	87	330	280	51	60	70	60	7	0.2	M7A2TC	TCGT16T3	1	9.50
	BT50-BCA83-165	83	108	165	122	63	-	-	-	-	0.2	M7A2TC	TCGT16T3	2	-
	BT50-BCA83-240	83	108	240	190	63	62	90	95	7	0.2	M7A2TC	TCGT16T3	1	-
	BT50-BCA83-345	83	108	345	295	63	62	90	95	7	0.2	M7A2TC	TCGT16T3	1	-
	BT50-BCA98-165	98	142	165	122	83	-	-	-	-	0.2	M10A2TC	TCGT16T3	2	-
	BT50-BCA98-240	98	142	240	197	83	-	-	-	-	0.2	M10A2TC	TCGT16T3	2	-
	BT50-BCA98-345	98	142	345	302	83	92	-	85	-	0.2	M10A2TC	TCGT16T3	3	-
	BT50-BCA132-210	132	176	210	-	108	-	-	65	-	0.2	M10A2TC	TCGT16T3	4	-
	BT50-BCA132-315	132	176	315	-	108	-	-	65	-	0.2	M10A2TC	TCGT16T3	4	-
	BT50-BCA166-225	166	210	225	-	142	-	-	70	-	0.2	M10A2TC	TCGT16T3	4	-
	BT50-BCA166-315	166	210	315	-	142	-	-	70	-	0.2	M10A2TC	TCGT16T3	4	-
	BT50-BCA200-210	200	244	210	-	176	-	-	75	-	0.2	M10A2TC	TCGT16T3	4	-

MICRO BORING BAR

BCA

MIKRO - BOHRSTANGE
 BARRE D'ALÉSAGE MICRO
 PORTA TESTINE MICROREGISTRABILI
 BARRAS DE MANDRINAR MICRO



STRAIGHT-ST

Unit : mm

TAPER No.	MODEL No.	D (BORE RANGE)		L1	L2	M1	C1	C2	UNIT	FIG.	WEIGHT (Kg)
		Min.	Max.								
32	ST32-BCA13.5-75	13.5	16	135	75	67	12	13	M1B2E/F	1	0.50
	ST32-BCA14.5-75	14.5	17	145	75	67	12	14	M1B2E/F	1	0.50
	ST32-BCA16-90	16	22.5	160	90	82	14	15	M1A2E/F	1	0.50
	ST32-BCA19-90	19	23.0	160	90	82	16	18	M2B-2CC	1	0.50
	ST32-BCA23-120	23	29.0	190	120	110	19	22	M3B-2TC	1	1.00
	ST32-BCA29-120	29	41.0	190	120	110	25	28	M3A-2TC	1	1.00
	ST32-BCA38-120	38	49.0	190	120	115	33	35	M5B-2TC	2	1.50
	ST32-BCA46-120	46	66	190	120	115	38	-	M5A-2TC	2	1.50
	ST32-BCA62-120	62	87.0	190	120	115	51	-	M7A-2TC	2	2.50
	42	ST42-BCA13.5-85	13.5	16	165	85	67	12	13	M1B2E/F	1
ST42-BCA14.5-85		14.5	17	165	85	67	12	14	M1B2E/F	1	1.00
ST42-BCA16-100		16	22.5	180	100	82	14	15	M1A2E/F	1	1.00
ST42-BCA19-100		19	23.0	180	100	82	16	18	M2B2E/F	1	1.00
ST42-BCA23-120		23	29.0	200	120	110	19	22	M3B-2TC	1	1.50
ST42-BCA29-120		29	41.0	200	120	110	25	28	M3A-2TC	1	1.50
ST42-BCA38-130		38	49.0	210	130	125	33	35	M5B-2TC	1	1.50
ST42-BCA46-135		46	66.0	215	135	130	38	44	M5A-2TC	1	1.50
ST42-BCA62-135		62	87.0	215	135	130	51	-	M7A-2TC	2	2.50
ST42-BCA83-150		83	108	230	150	145	63	-	M7A-2TC	2	3.00

BIG SIZE MICRO CUT BORING BAR

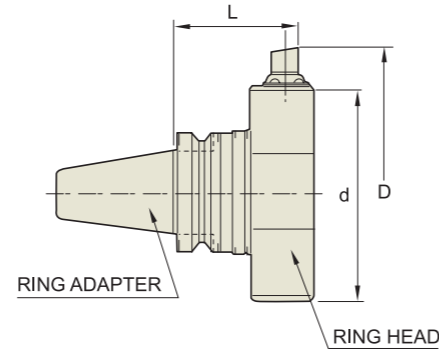
BCA

BT (JIS B6339/MAS 403)

BORING RING HOLDER

Unit : mm

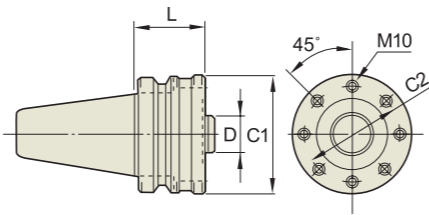
MODEL No.	d	D	L
BT50-BRA140-105	140	197	105
BT50-BRA140-165	140	197	165
BT50-BRA191-105	191	248	105
BT50-BRA191-165	191	248	165
BT50-BRA242-105	242	299	105
BT50-BRA242-165	242	299	165
BT50-BRA293-105	293	350	105
BT50-BRA293-165	293	350	165
BT50-BRA344-105	344	401	105
BT50-BRA344-165	344	401	165
BT50-BRA395-105	395	452	105
BT50-BRA395-165	395	452	165



RING ADAPTOR

Unit : mm

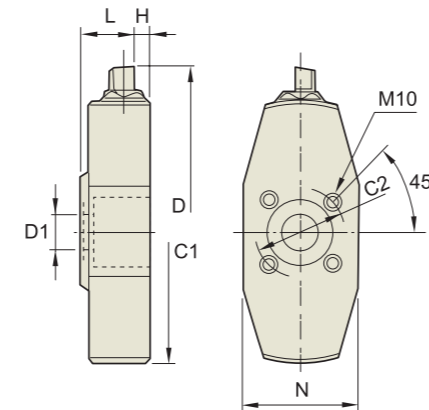
MODEL No.	D (h6)	L	C1	C2
BT50-RAA32-60	32	60	102	82
BT50-RAA32-120	32	120	102	82



RING HEAD

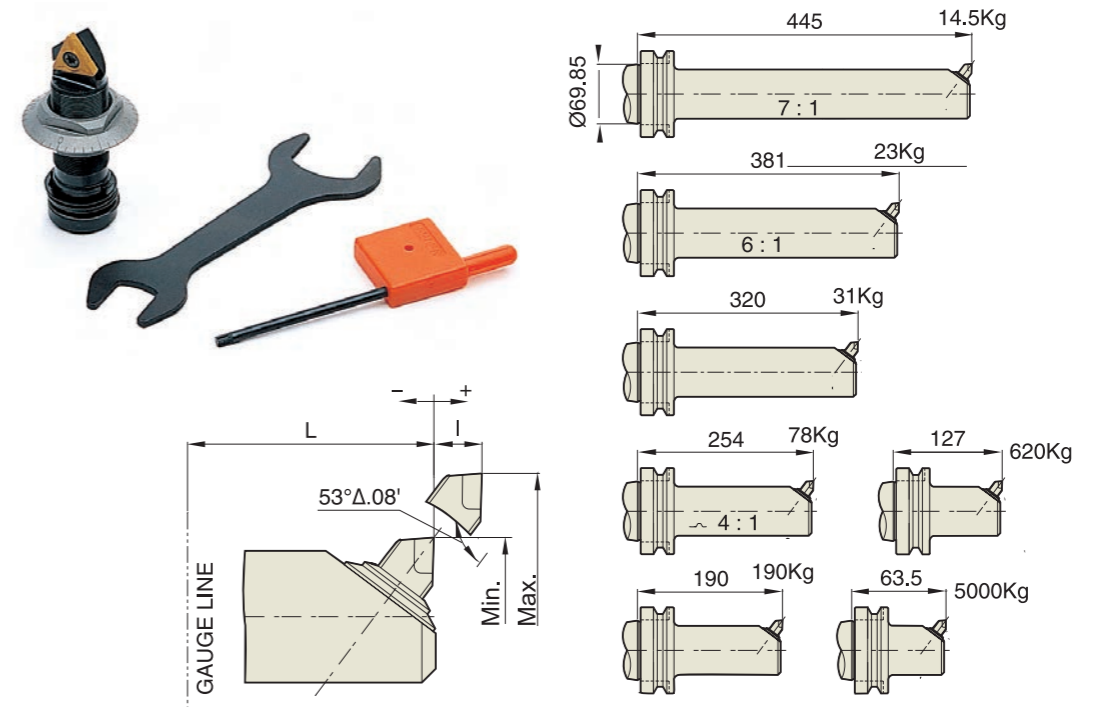
Unit : mm

MODEL No.	D1 (h7)	D (BORE RANGE)		L	C1	C2	H	N	UNIT
		Min.	Max.						
RH32-BCA140	32	140	197	45	102	82	14	-	M10A2TC
RH32-BCA191	32	191	248	45	136	82	14	-	M10A2TC
RH32-BCA242	32	242	299	45	184	82	14	103	M10A2TC
RH32-BCA293	32	293	350	45	234	82	14	103	M10A2TC
RH32-BCA344	32	344	401	45	284	82	14	103	M10A2TC
RH32-BCA395	32	395	452	45	36	82	14	103	M10A2TC



STRENGTH OF BORING BAR AND COMPARISON TABLE OF MICRO UNITS

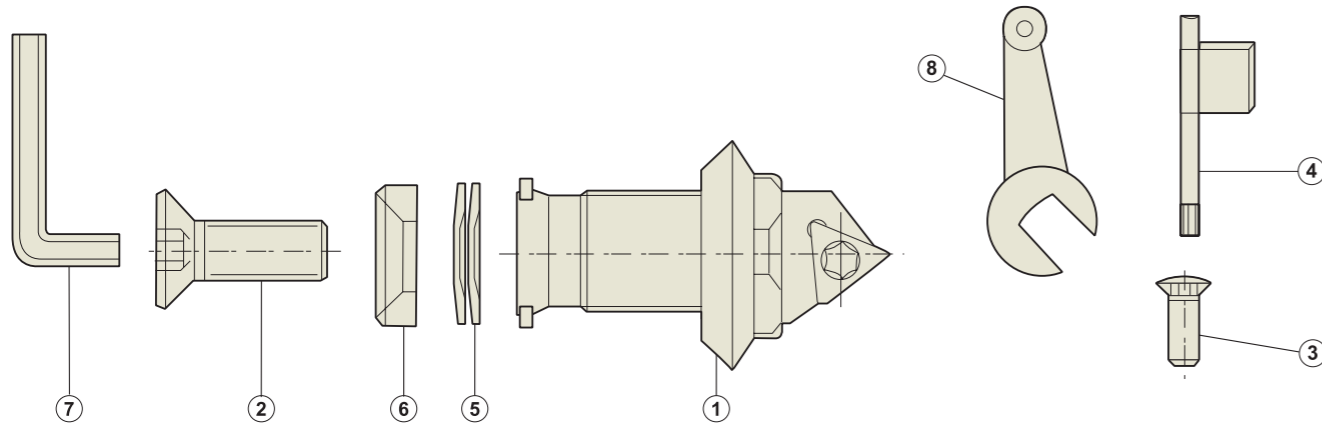
PART



BORING BAR MODEL No.	BRAZED TYPE B EF		SCREW ON TYPE			INSERT SPEC.
	Min.	Max.	Min.	Max.	ΔL	
BCA19	M2B2	M2B2	-	-	-	CCGT0401
	19	23	-	-	-1.9	CCGT0401
BCA23	M3B2	M3B2	M3B2TC	M3B2TC	M3B2TC	TBGT060102
	23	29	24.9	30.9	-1.9	TBGT060102
BCA29	M3A2	M3A2	M3A2TC	M3A2TC	M3A2TC	TBGT060102
	29	41.8	30.9	43.8	-1.9	TBGT060102
BCA38	M5B2	M5B2	M5B2TC	M5B2TC	M5B2TC	TCGT110204
	38	49.2	40.9	52.1	-1.9	TCGT110204
BCA46	M5A2	M5A2	M5A2TC	M5A2TC	M5A2TC	TCGT110204
	46	66.6	48.9	69.5	-1.9	TCGT110204
BCA62	M7A2	M7A2	M7A2TC	M7A2TC	M7A2TC	TCGT16T304
	62	87.4	62	87.4	0	TCGT16T304
BCA83	M7A2	M7A2	M7A2TC	M7A2TC	M7A2TC	TCGT16T304
	83	108.4	83	108.4	0	TCGT16T304
BCA98	M10A2	M10A2	M10A2TC	M10A2TC	M10A2TC	TCGT16T304
	98	142.4	98	142.4	0	TCGT16T304
BCA132	M10A2	M10A2	M10A2TC	M10A2TC	M10A2TC	TCGT16T304
	132	176.4	132	176.4	0	TCGT16T304
BCA166	M10A2	M10A2	M10A2TC	M10A2TC	M10A2TC	TCGT16T304
	166	210.4	166	210.4	0	TCGT16T304
BCA200	M10A2	M10A2	M10A2TC	M10A2TC	M10A2TC	TCGT16T304
	200	244.4	200	244.4	0	TCGT16T304

MICRO UNIT SPARE PART

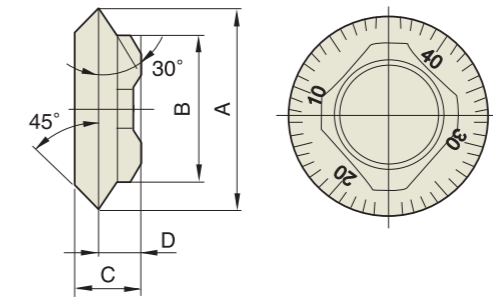
PART



PART NAME		ORDER No.	M1A-B	M2A-B	M3A-B	M5A-B	M5A-B	M7A-B	M10A-B
1	DIAL NUT	Slant Angle	1-40	2-40	3-40	5-40	5-40	7-80	10-80
	DIAL NUT	Right Angle	1-50	2-50	3-50	5-50	5-50	7-100	10-100
2	CARTRIDGE BOLT	M-A	F-M3-0.5-8	F-M3-0.5-12	F-M4-0.7-15	F-M6-1.0-25	F-M6-1.0-25	F-M10-1.5-30	M12-1.75-50
	CARTRIDGE BOLT	M-B	M-M3-0.5-6	M-M3-0.5-10	M-M4-0.7-12	M-M6-1.0-20	M-M6-1.0-20	M-M10-1.5-25	M12-1.75-35
3	INSERT SCREW		S1845L5	S1845L5	S2045L6	S2555L6	S2555L6	S4095L6	S4095L6
4	T-WRENCH		T6	T6	T6	T8	T8	T15	T15
5	SPRING WASHER		-	CB-2	CB-3	CB-5	CB-5	CB-7	CB-10
6	MOUNTING WASHER		-	2306	3306	5306	5306	7306	10306
7	L-WRENCH		WR-2	WR-2	WR-2.5	WR-4	WR-4	WR-6	WR-8
8	SPANNER		GS12	GS12	GS35	GS35	GS35	GS710	GS710

MICRO UNIT SPARE PART

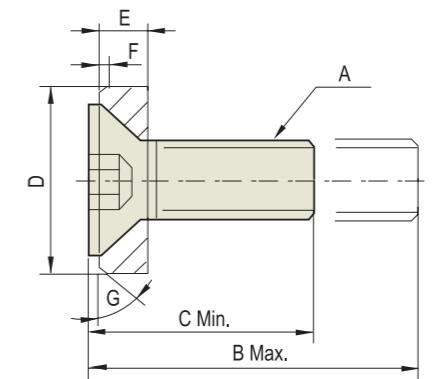
PART



■ DIAL NUT

Unit : mm

SIZE	A	B	C	D
M1	9.53	6.99	4.45	2.54
M2	12.7	9.53	5.08	3.30
M3	15.88	11.3	5.59	3.56
M5	25.4	19.05	8.76	4.83
M7	34.93	25.40	11.68	7.11
M10	44.45	34.93	13.84	7.49



■ CARTIDGE BOLT

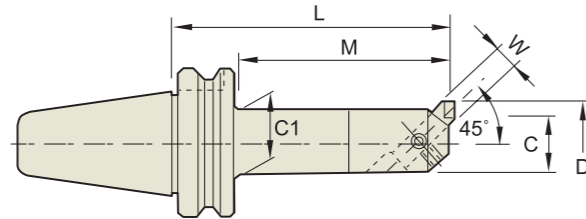
Unit : mm

SIZE	A	B	C	D	E	F	G
M1	M3	8	6	-	-	-	-
M2	M3	12	10	7.82	1.83	0.5	45°
M3	M4	15	12	10.9	2.46	1.0	45°
M5	M6	25	20	15.7	4.32	0.8	37°
M7	M10	30	25	23.7	6.35	1.30	37°
M10	M12	50	35	31.6	7.92	2.5	37°

SQUARE BORING BAR (45°)

BSA

VIERKANT - BOHRSTANGE
 BARRE D'ALÉSAGE CARRÉ
 BARRA PORTA TESTINE
 BARRAS DE MANDRINAR CUADRADAS



BT (JIS B6339/MAS 403)

JIS B6339 -BT	Taper Accuracy AT3	Coolant System A
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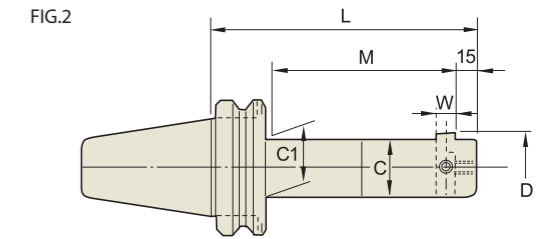
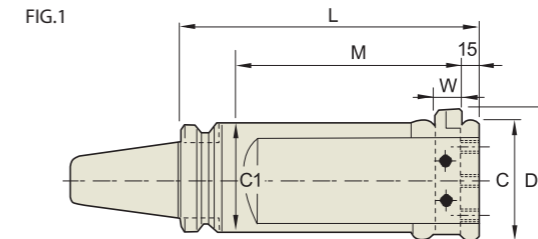
Unit : mm

TAPER No.	MODEL No.	D (BORE RANGE)		L	C	C1	W	M	WEIGHT (Kg)
		Min.	Max.						
30	BT30-BSA25-120	25	38	120	20	22	8	90	1.00
	BT30-BSA30-135	30	42	135	24	26	8	105	1.10
	BT30-BSA38-150	38	52	150	30	33	10	120	1.40
	BT30-BSA42-150	42	56	150	34	37	10	125	1.60
	BT30-BSA50-150	50	65	150	40	44	13	125	1.80
40	BT40-BSA25-135	25	38	135	20	22	8	108	1.30
	BT40-BSA30-165	30	42	165	24	26	8	138	1.50
	BT40-BSA38-180	38	52	180	30	33	10	153	1.80
	BT40-BSA42-210	42	56	210	34	37	10	183	2.30
	BT40-BSA50-180	50	65	180	40	44	13	153	2.40
	BT40-BSA50-225	50	65	225	40	44	13	198	2.90
	BT40-BSA62-180	62	90	180	50	54	16	153	3.20
	BT40-BSA62-240	62	90	240	50	54	16	213	4.20
	BT40-BSA72-180	72	110	180	60	63	19	153	4.40
	BT40-BSA72-240	72	110	240	60	63	19	213	5.70
50	BT40-BSA90-180	90	125	180	75	63	19	153	5.40
	BT50-BSA25-135	25	38	135	20	22	8	95	4.40
	BT50-BSA30-165	30	42	165	24	26	8	125	4.60
	BT50-BSA38-180	38	52	180	30	33	10	140	4.80
	BT50-BSA42-210	42	56	210	34	37	10	170	5.00
	BT50-BSA50-180	50	65	180	40	44	13	140	5.40
	BT50-BSA50-240	50	65	240	40	44	13	200	5.70
	BT50-BSA62-195	62	90	195	50	54	16	155	6.10
	BT50-BSA62-270	62	90	270	50	54	16	230	7.50
	BT50-BSA72-195	72	110	195	60	66	19	155	6.90
	BT50-BSA72-285	72	110	285	60	66	19	245	9.30
	BT50-BSA90-210	90	125	210	75	80	19	170	9.20
	BT50-BSA90-300	90	125	300	75	80	19	260	12.30
	BT50-BSA105-195	105	160	195	90	90	25	157	10.50
	BT50-BSA105-285	105	160	285	90	90	25	247	14.80

SQUARE BORING BAR (90°)

BSB

VIERKANT - BOHRSTANGE
 BARRE D'ALÉSAGE CARRÉ
 BARRA PORTA TESTINE
 BARRAS DE MANDRINAR CUADRADAS



BT (JIS B6339/MAS 403)

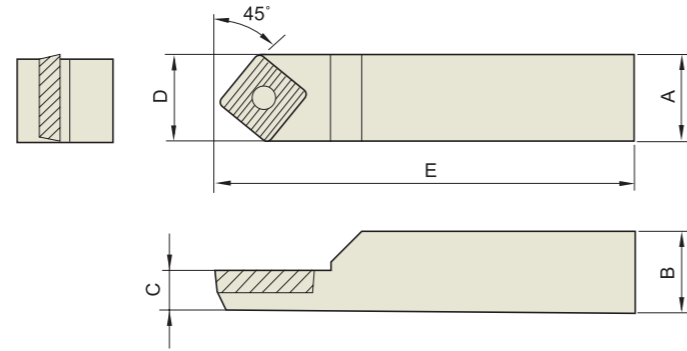
JIS B6339 -BT	Taper Accuracy AT3	Coolant System A
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Unit : mm

TAPER No.	MODEL No.	D (BORE RANGE)		L	C	C1	W	M	WEIGHT (Kg)	FIG.
		Min.	Max.							
30	BT30-BSB25-120	25	50	120	20	22	8	90	1.10	1
	BT30-BSB38-150	38	70	150	30	33	10	120	1.50	1
	BT30-BSB50-150	50	90	150	40	44	13	125	2.20	1
40	BT40-BSB25-135	25	50	135	20	22	8	108	1.30	1
	BT40-BSB38-180	38	70	180	30	33	10	153	1.90	1
	BT40-BSB50-180	50	90	180	40	44	13	153	2.60	1
	BT40-BSB50-225	50	90	225	40	44	13	198	3.10	1
	BT40-BSB62-180	62	115	180	50	56	16	153	3.40	1
	BT40-BSB62-225	62	115	225	50	56	16	198	4.10	1
	BT40-BSB72-180	72	135	180	60	66	19	153	4.70	1
	BT40-BSB72-225	72	135	225	60	66	19	198	5.60	1
	BT40-BSB90-180	90	150	180	75	80	19	153	5.70	1
	BT40-BSB90-225	90	150	225	75	80	19	198	6.60	1
50	BT50-BSB25-135	25	50	135	20	22	8	95	4.10	1
	BT50-BSB38-180	38	70	180	30	33	10	140	4.80	1
	BT50-BSB50-180	50	90	180	40	44	13	140	5.50	1
	BT50-BSB50-240	50	90	240	40	44	13	200	5.70	1
	BT50-BSB62-195	62	115	195	50	56	16	155	6.40	1
	BT50-BSB62-270	62	115	270	50	56	16	230	7.90	1
	BT50-BSB72-195	72	135	195	60	66	19	155	7.30	1
	BT50-BSB72-285	72	135	285	60	66	19	245	9.60	1
	BT50-BSB90-210	90	150	210	75	80	19	170	9.60	1
	BT50-BSB90-300	90	150	300	75	80	19	260	12.60	1
	BT50-BSB105-195	105	190	195	90	-	25	155	11.10	2
	BT50-BSB105-285	105	190	285	90	94	25	245	15.40	2

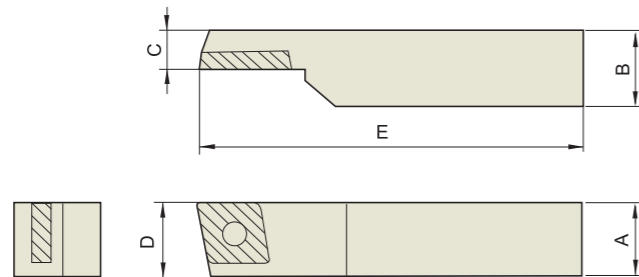
SQUARE BITE

PART



Unit : mm

SIZE	CLASSIFICATION							
	A	B	C	D	E	SCREW	WRENCH	INSERT
SBC08-45	8	8	6.3	8.39	70	SSB-2506	T7	CCMT0602
SBC10-45	10	10	7	10.39	70	SSB-2506	T7	CCMT0602
SBC13-45	13	13	10	13.6	80	SSB-4009	T15	CCMT09T3
SBC16-45	16	16	11	16.68	100	SSB-5012	T15	CCMT1204
SBC19-45	19	19	11	19.68	100	SSB-5012	T15	CCMT1204
SBC25-45	25	25	12.5	25.68	120	SSB-5012	T15	CCMT1204



Unit : mm

SIZE	CLASSIFICATION							
	A	B	C	D	E	SCREW	WRENCH	INSERT
SBC10-90	10	10	7	10.4	70	SSB-2506	T7	CCMT0602
SBC13-90	13	13	10	13.6	80	SSB-4009	T15	CCMT09T3
SBC16-90	16	16	11	16.7	100	SSB-5012	T15	CCMT1204
SBC19-90	19	19	11	19.7	100	SSB-5012	T15	CCMT1204
SBC25-90	25	25	12.5	25.7	120	SSB-5012	T15	CCMT1204

SSK TOOLING SYSTEM ACCESSORY & PARTS

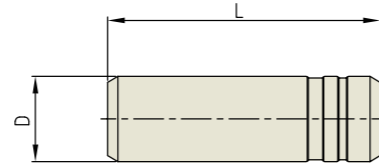
- HYDRAULIC CHUCK TEST PIECE 308P
- HYDRAULIC CHUCK COLLET 309-312P
- SHRINK FIT HEATING MACHINE 313P
- ER COLLET 314-320P
- TAP ER COLLET 321-322P
- ER NUT & SPANNER 323-327P
- SIDE LOCK BOLT for EMH 328P
- COLLAR BOLT & DRIVE KEY for SMA 329-330P
- DRIVE KEY & MOUNTING BOLT for FMA 331P
- MILLING CHUCK COLLET & SPANNER 332P
- SK COLLET, NUT, SPANNER 333-335P
- TAP ADAPTOR for TAPPING CHUCK 336-337P
- PULL STUD BOLT & SPANNER 338-339P
- TOOL CLAMP, HEIGHT PRESETTER 340P
- COOLANT TUBE & SPANNER for HSK 341P
- ADJUST BOLT MQL1 for HSK 342P



HYDRAULIC CHUCK

TEST PIECE

TP



STANDARD HYDRAULIC CHUCK

Unit : mm

DESCRIPTIONS	D	L
TP6	6	70
TP8	8	70
TP10	10	80
TP12	12	80
TP14	14	80
TP16	16	90
TP18	18	90
TP20	20	100
TP25	25	100
TP32	32	100

POWER E HYDRO

Unit : mm

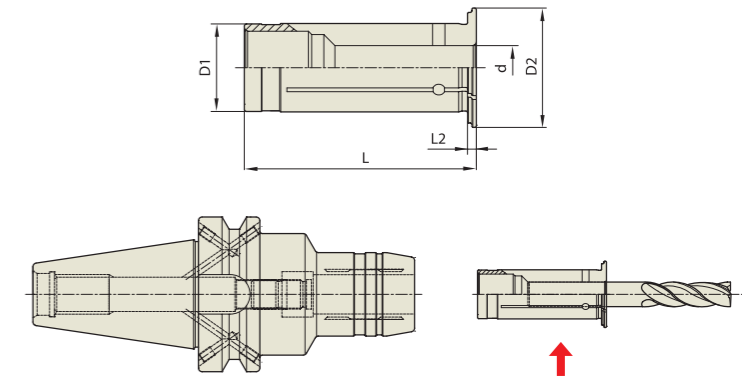
DESCRIPTIONS	D	L
TP12P	12	80
TP20P	20	100
TP32P	32	100

HYDRAULIC CHUCK

COLLET (REDUCTION SLEEVE : OPEN TYPE)

HK

HYDRAULIK SPANNFUTTER SPANNZANGE
 MANDRIN HYDRAULIQUE PINCE DE SERRAGE
 MANDRINI IDRAULICI PINZA DI SERRAGGIO
 PORTAHERRAMIENTAS HIDRAULICO PINZA PORTAPIEZAS



Hydraulic Chuck Collet

MODEL No.	d	D1	D2	L	L2
HK12	3	12	19	47	2
	4	12	19	47	2
	5	12	19	47	2
	6	12	19	47	2
	7	12	19	47	2
	8	12	19	47	2
HK20	3	20	27	52.5	2
	4	20	27	52.5	2
	5	20	27	52.5	2
	6	20	27	52.5	2
	7	20	27	52.5	2
	8	20	27	52.5	2
	9	20	27	52.5	2
	10	20	27	52.5	2
	11	20	27	52.5	2
	12	20	27	52.5	2
	13	20	27	52.5	2
	14	20	27	52.5	2
HK32	6	32	39	63.5	3
	8	32	39	63.5	3
	10	32	39	63.5	3
	12	32	39	63.5	3
	14	32	39	63.5	3
	16	32	39	63.5	3
	18	32	39	63.5	3
	20	32	39	63.5	3
25	32	39	63.5	3	

- ▶ Inch type products are available.
- ▶ Other special sizes of Hydraulic Chuck collets could be produced and supplied.

Feature

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

Chucking Method

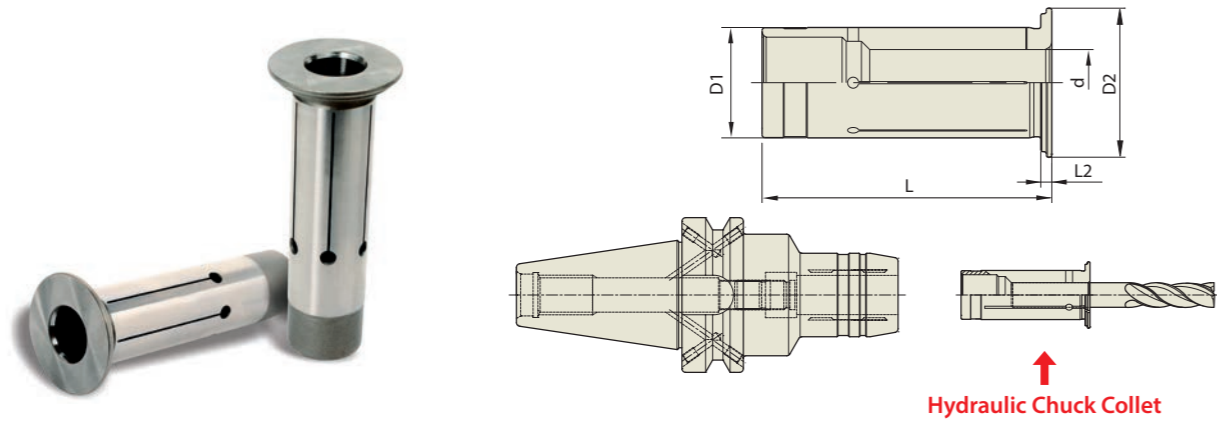
Please assemble cutting tool with collet firstly, and then insert collet into Hydraulic Chuck.

HYDRAULIC CHUCK

COLLET (REDUCTION SLEEVE : CLOSED TYPE)

HS

HYDRAULIK SPANNFUTTER SPANNZANGE
 MANDRIN HYDRAULIQUE PINCE DE SERRAGE
 MANDRINI IDRAULICI PINZA DI SERRAGGIO
 PORTAHERRAMIENTAS HIDRAULICO PINZA PORTAPIEZAS



Hydraulic Chuck Collet

Unit : mm

MODEL No.	d	D1	D2	L	L2
HS12	3	12	19	47	2
	4	12	19	47	2
	5	12	19	47	2
	6	12	19	47	2
	7	12	19	47	2
	8	12	19	47	2
HS20	3	20	27	52.5	2
	4	20	27	52.5	2
	5	20	27	52.5	2
	6	20	27	52.5	2
	7	20	27	52.5	2
	8	20	27	52.5	2
	9	20	27	52.5	2
	10	20	27	52.5	2
	11	20	27	52.5	2
	12	20	27	52.5	2
	13	20	27	52.5	2
HS32	6	32	39	63.5	3
	8	32	39	63.5	3
	10	32	39	63.5	3
	12	32	39	63.5	3
	14	32	39	63.5	3
	16	32	39	63.5	3
	18	32	39	63.5	3
	20	32	39	63.5	3
	25	32	39	63.5	3

- ▶ Inch type products are available.
- ▶ Other special sizes of Hydraulic Chuck collets could be produced and supplied.

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

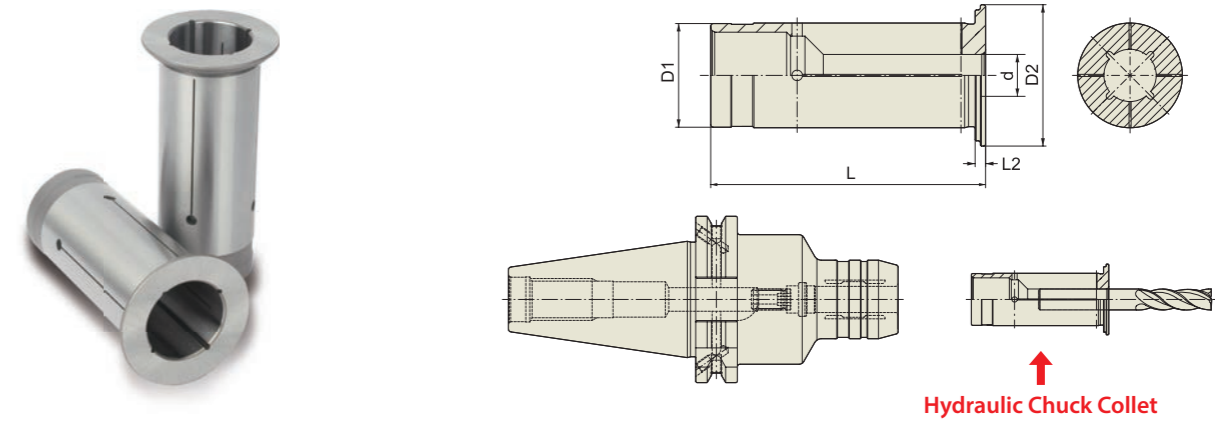
Chucking Method Please assemble cutting tool with collet firstly, and then insert collet into Hydraulic Chuck.

HYDRAULIC CHUCK

COLLET (REDUCTION SLEEVE : COOLANT FLUSH TYPE)

HF

HYDRAULIK SPANNFUTTER SPANNZANGE
 MANDRIN HYDRAULIQUE PINCE DE SERRAGE
 MANDRINI IDRAULICI PINZA DI SERRAGGIO
 PORTAHERRAMIENTAS HIDRAULICO PINZA PORTAPIEZAS



Hydraulic Chuck Collet

Unit : mm

MODEL No.	d	D1	D2	L	L2
HF12	3	12	19	47	2
	4	12	19	47	2
	5	12	19	47	2
	6	12	19	47	2
	7	12	19	47	2
	8	12	19	47	2
HF20	3	20	27	52.5	2
	4	20	27	52.5	2
	5	20	27	52.5	2
	6	20	27	52.5	2
	7	20	27	52.5	2
	8	20	27	52.5	2
	9	20	27	52.5	2
	10	20	27	52.5	2
	11	20	27	52.5	2
	12	20	27	52.5	2
	13	20	27	52.5	2
HF32	6	32	39	63.5	3
	8	32	39	63.5	3
	10	32	39	63.5	3
	12	32	39	63.5	3
	14	32	39	63.5	3
	16	32	39	63.5	3
	18	32	39	63.5	3
	20	32	39	63.5	3
	25	32	39	63.5	3

- ▶ Inch type products are available.
- ▶ Other special sizes of Hydraulic Chuck collets could be produced and supplied.

Feature HF Hydraulic Chuck collet (reduction sleeve) is for internal coolant flush.

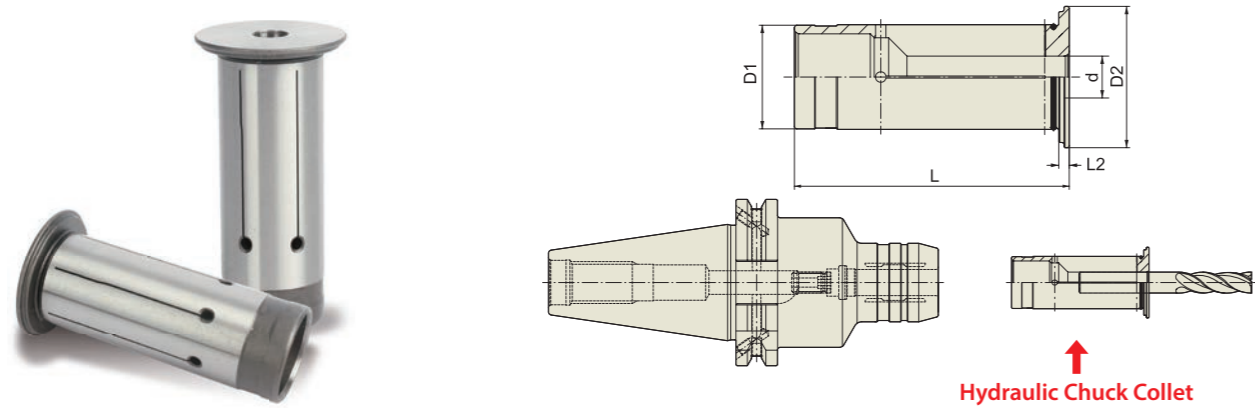
Chucking Method Please assemble cutting tool with collet firstly, and then insert collet into Hydraulic Chuck.

HYDRAULIC CHUCK

COLLET (REDUCTION SLEEVE : For HIGH PRESSURE COOLANT)

HR

HYDRAULIK SPANNFUTTER SPANNZANGE
 MANDRIN HYDRAULIQUE PINCE DE SERRAGE
 MANDRINI IDRAULICI PINZA DI SERRAGGIO
 PORTAHERRAMIENTAS HIDRAULICO PINZA PORTAPIEZAS



Hydraulic Chuck Collet

Unit : mm

MODEL No.	d	D1	D2	L	L2
HR12	3	12	19	47	2
	4	12	19	47	2
	5	12	19	47	2
	6	12	19	47	2
	7	12	19	47	2
	8	12	19	47	2
HR20	3	20	27	52.5	2
	4	20	27	52.5	2
	5	20	27	52.5	2
	6	20	27	52.5	2
	7	20	27	52.5	2
	8	20	27	52.5	2
	9	20	27	52.5	2
	10	20	27	52.5	2
	11	20	27	52.5	2
	12	20	27	52.5	2
	13	20	27	52.5	2
	14	20	27	52.5	2
HR32	6	32	39	63.5	3
	8	32	39	63.5	3
	10	32	39	63.5	3
	12	32	39	63.5	3
	14	32	39	63.5	3
	16	32	39	63.5	3
	18	32	39	63.5	3
	20	32	39	63.5	3
25	32	39	63.5	3	

- ▶ Inch type products are available.
- ▶ Other special sizes of Hydraulic Chuck collets could be produced and supplied.

Feature

HR Hydraulic Chuck collet (reduction sleeve) is for high pressure coolant supply.

Chucking Method

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

SHRINK FIT HOLDER

SHRINK FIT HEATING MACHINE

SFH

FEATURE

- ▶ Electromagnetic induction heating system
- ▶ Automatic voltage adjustment : AC 100v~240v
- ▶ Small size and light weight
- ▶ Easy to operate

SPECIFICATION

Characteristics	Specification
Model No.	SF-3300
Power	100V~240V AC, 50/60Hz, 3.0KW
Dimension	380mm(W) x 350mm(D) x 720mm(H)
Weight	22kg
Holder Support	SK, HSK, BT



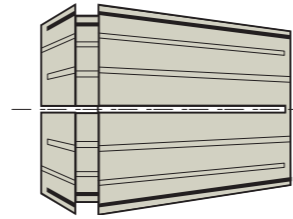
ER COLLET CHUCK

ER COLLET - GER (HIGH PRECISION)

GER

ER SPANNZANGE - GER
 ER PINCE DE SERRAGE - GER
 ER PINZA DI SERRAGGIO - GER
 ER PINZA PORTAPIEZAS - GER

◇ T.I.R : ≤0.005mm at 3D



Unit : mm

GER 11	GER 16	GER 25	GER 32
CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE
3.0 - 2.5	3.0 - 2.0	3.0 - 2.0	3.0 - 2.0
3.5 - 3.0	4.0 - 3.0	4.0 - 3.0	4.0 - 3.0
4.0 - 3.5	5.0 - 4.0	5.0 - 4.0	5.0 - 4.0
4.5 - 4.0	6.0 - 5.0	6.0 - 5.0	6.0 - 5.0
5.0 - 4.5	7.0 - 6.0	7.0 - 6.0	7.0 - 6.0
5.5 - 5.0	8.0 - 7.0	8.0 - 7.0	8.0 - 7.0
6.0 - 5.5	9.0 - 8.0	9.0 - 8.0	9.0 - 8.0
6.5 - 6.0	10.0 - 9.0	10.0 - 9.0	10.0 - 9.0
7.0 - 6.5	1.5 - 1.0	11.0 - 10.0	11.0 - 10.0
-	2.5 - 2.0	12.0 - 11.0	12.0 - 11.0
-	-	13.0 - 12.0	13.0 - 12.0
	GER 20	14.0 - 13.0	14.0 - 13.0
	CLAMPING RANGE	15.0 - 14.0	15.0 - 14.0
		16.0 - 15.0	16.0 - 15.0
	4.0 - 3.0	-	17.0 - 16.0
	5.0 - 4.0	-	18.0 - 17.0
	6.0 - 5.0	-	19.0 - 18.0
	7.0 - 6.0	-	20.0 - 19.0
	8.0 - 7.0	-	-
	9.0 - 8.0	-	-
	10.0 - 9.0	-	-
	11.0 - 10.0	-	-
	12.0 - 11.0	-	-
	13.0 - 12.0	-	-

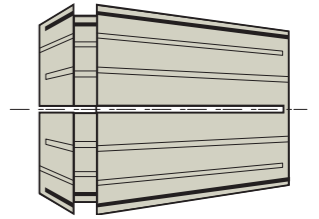
ER COLLET CHUCK

ER COLLET (HIGH PRECISION)

ERH

ER SPANNZANGE - UF
 ER PINCE DE SERRAGE - UF
 ER PINZA DI SERRAGGIO - UF
 ER PINZA PORTAPIEZAS - UF

◇ T.I.R : ≤0.010mm at 3D (I.D 1.0 ~ 10.0mm)
 ◇ T.I.R : ≤0.015mm at 3D (I.D >10mm)



Unit : mm

ER8H	ER11H	ER16H	ER20H
CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE
1.0 - 0.5	1.0 - 0.5	1.0 - 0.5	2.0 - 1.0
1.5 - 1.0	1.5 - 1.0	2.0 - 1.0	3.0 - 2.0
2.0 - 1.5	2.0 - 1.5	3.0 - 2.0	4.0 - 3.0
2.5 - 2.0	2.5 - 2.0	4.0 - 3.0	5.0 - 4.0
3.0 - 2.5	3.0 - 2.5	5.0 - 4.0	6.0 - 5.0
3.5 - 3.0	3.5 - 3.0	6.0 - 5.0	7.0 - 6.0
4.0 - 3.5	4.0 - 3.5	7.0 - 6.0	8.0 - 7.0
4.5 - 4.0	4.5 - 4.0	8.0 - 7.0	9.0 - 8.0
5.0 - 4.5	5.0 - 4.5	9.0 - 8.0	10.0 - 9.0
-	5.5 - 5.0	10.0 - 9.0	11.0 - 10.0
-	6.0 - 5.5	1.5 - 1.0	12.0 - 11.0
-	6.5 - 6.0	2.5 - 2.0	13.0 - 12.0
-	7.0 - 6.5	-	1.0 - 0.5
-	-	-	1.5 - 1.0
-	-	-	2.5 - 2.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
STANDARD SET	STANDARD SET	STANDARD SET	STANDARD SET
Ø1.0 - 5.0mm	Ø1.0 - 7.0mm	Ø1.0 - 10.0mm	Ø2.0 - 13.0mm
9pcs	13pcs	10pcs	12pcs
WOODEN TRAY ZWT 8	WOODEN TRAY ZWT 11	WOODEN TRAY ZWT 16	WOODEN TRAY ZWT 20

▶ Inch type collets are available.

ER COLLET CHUCK

ER COLLET (HIGH PRECISION)

ERH

ER SPANNZANGE - UF
ER PINCE DE SERRAGE - UF
ER PINZA DI SERRAGGIO - UF
ER PINZA PORTAPIEZAS - UF

◇ T.I.R : ≤0.010mm at 3D (I.D 1.0 ~ 10.0mm)
◇ T.I.R : ≤0.015mm at 3D (I.D >10mm)



Unit : mm

ER25H	ER32H	ER40H	ER50H
CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE
2.0 - 1.0	3.0 - 2.0	4.0 - 3.0	12.0 - 10.0
3.0 - 2.0	4.0 - 3.0	5.0 - 4.0	14.0 - 12.0
4.0 - 3.0	5.0 - 4.0	6.0 - 5.0	16.0 - 14.0
5.0 - 4.0	6.0 - 5.0	7.0 - 6.0	18.0 - 16.0
6.0 - 5.0	7.0 - 6.0	8.0 - 7.0	20.0 - 18.0
7.0 - 6.0	8.0 - 7.0	9.0 - 8.0	22.0 - 20.0
8.0 - 7.0	9.0 - 8.0	10.0 - 9.0	24.0 - 22.0
9.0 - 8.0	10.0 - 9.0	11.0 - 10.0	26.0 - 24.0
10.0 - 9.0	11.0 - 10.0	12.0 - 11.0	28.0 - 26.0
11.0 - 10.0	12.0 - 11.0	13.0 - 12.0	30.0 - 28.0
12.0 - 11.0	13.0 - 12.0	14.0 - 13.0	32.0 - 30.0
13.0 - 12.0	14.0 - 13.0	15.0 - 14.0	34.0 - 32.0
14.0 - 13.0	15.0 - 14.0	16.0 - 15.0	6.0 - 4.0
15.0 - 14.0	16.0 - 15.0	17.0 - 16.0	8.0 - 6.0
16.0 - 15.0	17.0 - 16.0	18.0 - 17.0	10.0 - 8.0
1.0 - 0.5	18.0 - 17.0	19.0 - 18.0	25.0 - 23.0
1.5 - 1.0	19.0 - 18.0	20.0 - 19.0	-
2.5 - 2.0	20.0 - 19.0	21.0 - 20.0	-
-	2.0 - 1.0	22.0 - 21.0	-
-	2.5 - 2.0	23.0 - 22.0	-
-	-	24.0 - 23.0	-
-	-	25.0 - 24.0	-
-	-	26.0 - 25.0	-
-	-	3.0 - 2.0	-
-	-	27.0 - 26.0	-
-	-	28.0 - 27.0	-
-	-	29.0 - 28.0	-
-	-	30.0 - 29.0	-
STANDARD SET	STANDARD SET	STANDARD SET	STANDARD SET
Ø2.0 - 16.0mm	Ø3.0 - 20.0mm	Ø4.0 - 26.0mm	Ø12.0 - 34.0mm
15pcs	18pcs	23pcs	12pcs
WOODEN TRAY ZWT 25	WOODEN TRAY ZWT 32	WOODEN TRAY ZWT 40	WOODEN TRAY ZWT 50

▶ Inch type collets are available.

ER COLLET CHUCK

ER COLLET

ER UF

ER SPANNZANGE - UF
ER PINCE DE SERRAGE - UF
ER PINZA DI SERRAGGIO - UF
ER PINZA PORTAPIEZAS - UF

◇ T.I.R : ≤0.015mm at 3D (I.D 1.0 ~ 10.0mm)
◇ T.I.R : ≤0.020mm at 3D (I.D >10mm)



Unit : mm

ER 8	ER 11	ER 16	ER 20
CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE
1.0 - 0.5	1.0 - 0.5	1.0 - 0.5	2.0 - 1.0
1.5 - 1.0	1.5 - 1.0	2.0 - 1.0	3.0 - 2.0
2.0 - 1.5	2.0 - 1.5	3.0 - 2.0	4.0 - 3.0
2.5 - 2.0	2.5 - 2.0	4.0 - 3.0	5.0 - 4.0
3.0 - 2.5	3.0 - 2.5	5.0 - 4.0	6.0 - 5.0
3.5 - 3.0	3.5 - 3.0	6.0 - 5.0	7.0 - 6.0
4.0 - 3.5	4.0 - 3.5	7.0 - 6.0	8.0 - 7.0
4.5 - 4.0	4.5 - 4.0	8.0 - 7.0	9.0 - 8.0
5.0 - 4.5	5.0 - 4.5	9.0 - 8.0	10.0 - 9.0
-	5.5 - 5.0	10.0 - 9.0	11.0 - 10.0
-	6.0 - 5.5	1.5 - 1.0	12.0 - 11.0
-	6.5 - 6.0	2.5 - 2.0	13.0 - 12.0
-	7.0 - 6.5	-	1.0 - 0.5
-	-	-	1.5 - 1.0
-	-	-	2.5 - 2.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
STANDARD SET	STANDARD SET	STANDARD SET	STANDARD SET
Ø1.0 - 5.0mm	Ø1.0 - 7.0mm	Ø1.0 - 10.0mm	Ø2.0 - 13.0mm
9pcs	13pcs	10pcs	12pcs
WOODEN TRAY ZWT 8	WOODEN TRAY ZWT 11	WOODEN TRAY ZWT 16	WOODEN TRAY ZWT 20

▶ Inch type collets are available.

ER COLLET CHUCK

ER COLLET

ER UF

ER SPANNZANGE - UF
 ER PINCE DE SERRAGE - UF
 ER PINZA DI SERRAGGIO - UF
 ER PINZA PORTAPIEZAS - UF

◇ T.I.R : ≤0.015mm at 3D (I.D 1.0 ~ 10.0mm)
 ◇ T.I.R : ≤0.020mm at 3D (I.D >10mm)



Unit : mm

ER 25	ER 32	ER 40	ER 50
CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE	CLAMPING RANGE
2.0 - 1.0	3.0 - 2.0	4.0 - 3.0	12.0 - 10.0
3.0 - 2.0	4.0 - 3.0	5.0 - 4.0	14.0 - 12.0
4.0 - 3.0	5.0 - 4.0	6.0 - 5.0	16.0 - 14.0
5.0 - 4.0	6.0 - 5.0	7.0 - 6.0	18.0 - 16.0
6.0 - 5.0	7.0 - 6.0	8.0 - 7.0	20.0 - 18.0
7.0 - 6.0	8.0 - 7.0	9.0 - 8.0	22.0 - 20.0
8.0 - 7.0	9.0 - 8.0	10.0 - 9.0	24.0 - 22.0
9.0 - 8.0	10.0 - 9.0	11.0 - 10.0	26.0 - 24.0
10.0 - 9.0	11.0 - 10.0	12.0 - 11.0	28.0 - 26.0
11.0 - 10.0	12.0 - 11.0	13.0 - 12.0	30.0 - 28.0
12.0 - 11.0	13.0 - 12.0	14.0 - 13.0	32.0 - 30.0
13.0 - 12.0	14.0 - 13.0	15.0 - 14.0	34.0 - 32.0
14.0 - 13.0	15.0 - 14.0	16.0 - 15.0	6.0 - 4.0
15.0 - 14.0	16.0 - 15.0	17.0 - 16.0	8.0 - 6.0
16.0 - 15.0	17.0 - 16.0	18.0 - 17.0	10.0 - 8.0
1.0 - 0.5	18.0 - 17.0	19.0 - 18.0	25.0 - 23.0
1.5 - 1.0	19.0 - 18.0	20.0 - 19.0	-
2.5 - 2.0	20.0 - 19.0	21.0 - 20.0	-
-	2.0 - 1.0	22.0 - 21.0	-
-	2.5 - 2.0	23.0 - 22.0	-
-	-	24.0 - 23.0	-
-	-	25.0 - 24.0	-
-	-	26.0 - 25.0	-
-	-	3.0 - 2.0	-
-	-	27.0 - 26.0	-
-	-	28.0 - 27.0	-
-	-	29.0 - 28.0	-
-	-	30.0 - 29.0	-
STANDARD SET	STANDARD SET	STANDARD SET	STANDARD SET
Ø2.0 - 16.0mm	Ø3.0 - 20.0mm	Ø4.0 - 26.0mm	Ø12.0 - 34.0mm
15pcs	18pcs	23pcs	12pcs
WOODEN TRAY ZWT 25	WOODEN TRAY ZWT 32	WOODEN TRAY ZWT 40	WOODEN TRAY ZWT 50

▶ Inch type collets are available.

ER COLLET CHUCK

SEALED ER COLLET

ERS

VERSIEGELT ER SPANNZANGE
 SCELLÉ ER PINCE DE SERRAGE
 SIGILLATO ER PINZA DI SERRAGGIO
 SELLADO ER PINZA PORTAPIEZAS



Unit : mm

ER 11S	ER 16S	ER 20S
CLAMPING DIAMETER	CLAMPING DIAMETER	CLAMPING DIAMETER
3.0	3.0	3.0
3.5	4.0	4.0
4.0	5.0	5.0
4.5	6.0	6.0
5.0	7.0	7.0
5.5	8.0	8.0
6.0	9.0	9.0
6.5	10.0	10.0
7.0	-	11.0
-	-	12.0
-	-	13.0
-	-	-
-	-	-
STANDARD SET	STANDARD SET	STANDARD SET
Ø3.0 - 7.0mm	Ø3.0 - 10.0mm	Ø3.0 - 13.0mm
9pcs	8pcs	11pcs
WOODEN TRAY ZWT 11	WOODEN TRAY ZWT 16	WOODEN TRAY ZWT 20

▶ Inch type collets are available.

ER COLLET CHUCK

SEALED ER COLLET



VERSIEGELT ER SPANNZANGE
 SCELLÉ ER PINCE DE SERRAGE
 SIGILLATO ER PINZA DI SERRAGGIO
 SELLADO ER PINZA PORTAPIEZAS



◇ Rubber Sealed

Unit : mm

ER 25S	ER 32S	ER 40S	ER 50S
CLAMPING DIAMETER	CLAMPING DIAMETER	CLAMPING DIAMETER	CLAMPING DIAMETER
3.0	3.0	3.0	6.0
4.0	4.0	4.0	8.0
5.0	5.0	5.0	10.0
6.0	6.0	6.0	12.0
7.0	7.0	7.0	14.0
8.0	8.0	8.0	16.0
9.0	9.0	9.0	18.0
10.0	10.0	10.0	20.0
11.0	11.0	11.0	22.0
12.0	12.0	12.0	24.0
13.0	13.0	13.0	25.0
14.0	14.0	14.0	26.0
15.0	15.0	15.0	28.0
16.0	16.0	16.0	30.0
-	17.0	18.0	32.0
-	18.0	19.0	34.0
-	19.0	20.0	-
-	20.0	21.0	-
-	-	22.0	-
-	-	23.0	-
-	-	24.0	-
-	-	17.0	-
-	-	25.0	-
-	-	26.0	-
-	-	-	-
STANDARD SET	STANDARD SET	STANDARD SET	STANDARD SET
Ø3.0 - 16.0mm	Ø3.0 - 20.0mm	Ø4.0 - 26.0mm	Ø12.0 - 34.0mm
14pcs	18pcs	24pcs	16pcs
WOODEN TRAY ZWT 25	WOODEN TRAY ZWT 32	WOODEN TRAY ZWT 40	WOODEN TRAY ZWT 50

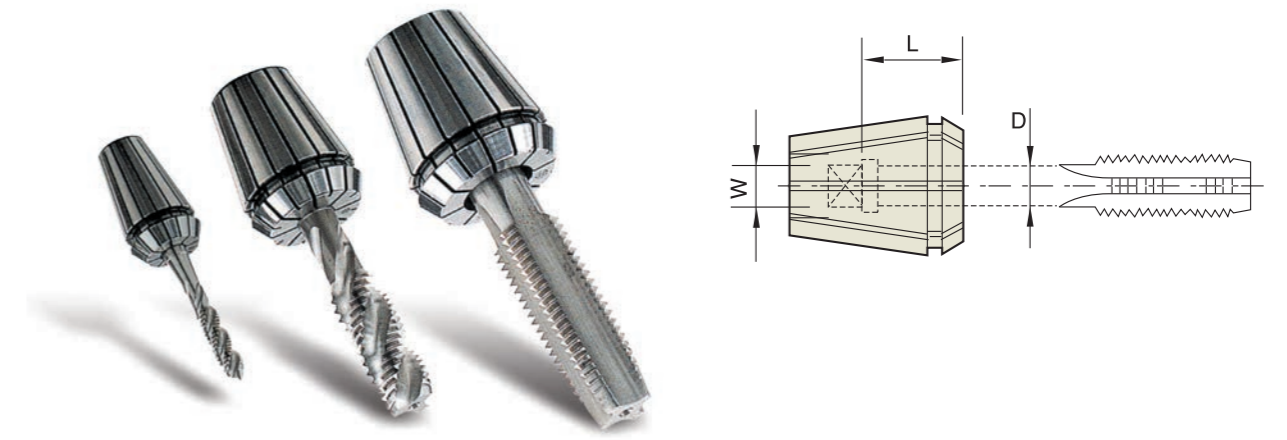
▶ Inch type collets are available.

ER COLLET CHUCK

TAP ER COLLET (JIS)



ER SPANNZANGE - FÜR GEWINDESCHNEID
 ER PINCE DE SERRAGE - POUR TARAUDER
 ER PINZA DI SERRAGGIO - PER MASCHIARE
 ER PINZA PORTAPIE7AS - PARA HII O



■ Below standard Tap ER Collet conforms to JIS.

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

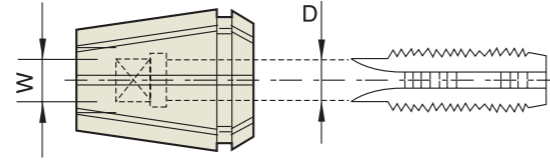
▶ Inch type collets are available.

ER COLLET CHUCK

TAP ER COLLET (DIN)

ER SPANNZANGE - FÜR GEWINDESCHNEID
 ER PINCE DE SERRAGE - POUR TARAUDER
 ER PINZA DI SERRAGGIO - PER MASCHIARE
 ER PINZA PORTAPIEZAS - PARA HILO

RDTC



Below standard Tap Adaptor conforms to DIN.

DIN STANDARD			RD 11TC		RD 16TC		RD 20TC		RD 25TC		RD 32TC		RD 40TC		RD 50TC	
DIN 374/376	DIN 352/2181	DIN 371	D(Ø)	W(□)	D(Ø)	W(□)	D(Ø)	W(□)	D(Ø)	W(□)	D(Ø)	W(□)	D(Ø)	W(□)	D(Ø)	W(□)
M5	M3	M3	3.5	2.7	3.5	2.7	3.5	2.7	3.5	2.7	3.5	2.7	3.5	2.7	-	-
M5.5	M3.5	M3.5	4.0	3.0	4.0	3.0	4.0	3.0	4.0	3.0	4.0	3.0	4.0	3.0	-	-
M6	M4	M4	4.5	3.4	4.5	3.4	4.5	3.4	4.5	3.4	4.5	3.4	4.5	3.4	-	-
M5	-	-	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	-	-
M7	-	-	5.5	4.3	5.5	4.3	5.5	4.3	5.5	4.3	5.5	4.3	5.5	4.3	-	-
M8	M4.5-M8	M4.5-M8	6.0	4.9	6.0	4.9	6.0	4.9	6.0	4.9	6.0	4.9	6.0	4.9	-	-
M9+M10	M9+M10	M7	-	-	7.0	5.5	7.0	5.5	7.0	5.5	7.0	5.5	7.0	5.5	-	-
M11	M11	M8	-	-	-	-	8.0	6.2	8.0	6.2	8.0	6.2	8.0	6.2	8.0	6.2
M12	M12	M9	-	-	-	-	9.0	7.0	9.0	7.0	9.0	7.0	9.0	7.0	9.0	7.0
-	-	M10	-	-	-	-	10.0	8.0	10.0	8.0	10.0	8.0	10.0	8.0	10.0	8.0
M13+M14	M13+M14	-	-	-	-	-	11.0	9.0	11.0	9.0	11.0	9.0	11.0	9.0	11.0	9.0
M15-M17	M15-M17	-	-	-	-	-	12.0	9.0	12.0	9.0	12.0	9.0	12.0	9.0	12.0	9.0
M18+M19	M18+M19	-	-	-	-	-	14.0	11.0	14.0	11.0	14.0	11.0	14.0	11.0	14.0	11.0
M20+M21	M20+M21	-	-	-	-	-	16.0	12.0	16.0	12.0	16.0	12.0	16.0	12.0	16.0	12.0
M22-M26	M22-M26	-	-	-	-	-	-	-	-	-	-	-	18.0	14.5	18.0	14.5
M27+M28	M27+M28	-	-	-	-	-	-	-	-	-	-	-	20.0	16.0	20.0	16.0
M29-M32	M29-M32	-	-	-	-	-	-	-	-	-	-	-	22.0	18.0	22.0	18.0
M33	M33	-	-	-	-	-	-	-	-	-	-	-	-	-	25.0	20.0
M34-M38	M34-M38	-	-	-	-	-	-	-	-	-	-	-	-	-	28.0	22.0
M39-M42	M39-M42	-	-	-	-	-	-	-	-	-	-	-	-	-	32.0	24.0

► Inch type collets are available.

ER COLLET CHUCK

ER NUT

ER NUSS
 ER ÉCROU
 ER DADO
 ER TUERCA

PART



DIN 6499/ISO 15488

■ SQ-ER (Standard : Hex.)

MODEL No.	THREAD	Dia.	LENGTH
SQ-ER11	M14×0.75	19.0	12.0
SQ-ER16	M22×1.50	28.0	18.0
SQ-ER20	M25×1.50	34.0	19.5

■ SQ-ER (Standard : Round)

MODEL No.	THREAD	Dia.	LENGTH
SQ-ER25	M32×1.50	42.0	20.5
SQ-ER32	M40×1.50	50.0	23.0
SQ-ER40	M50×1.50	63.0	26.0
SQ-ER50	M64×2.00	78.0	35.0

■ XSQ-R (Standard : Hex.)

MODEL No.	THREAD	Dia.	LENGTH
XSQ-R11	M14×0.75	19.0	12.0
XSQ-R16	M22×1.50	28.0	18.0
XSQ-R20	M25×1.50	34.0	19.5

■ XSQ-RU (Standard : Round)

MODEL No.	THREAD	Dia.	LENGTH
XSQ-RU25	M32×1.50	42.0	20.5
XSQ-RU32	M40×1.50	50.0	23.0
XSQ-RU40	M50×1.50	63.0	26.0
XSQ-RU50	M64×2.00	78.0	35.0

ER COLLET CHUCK

ER NUT

PART

ER NUSS
ER ÉCROU
ER DADO
ERTUERCA



■ XSQ-RT (Sealing Disk Type : Hex.) Unit : mm

MODEL No.	THREAD	Dia.	LENGTH
XSQ-RT16	M22×1.50	28.0	22.5
XSQ-RT20	M25×1.50	34.0	24.0



■ XSQ-RUT (Sealing Disk Type : Round) Unit : mm

MODEL No.	THREAD	Dia.	LENGTH
XSQ-RUT16	M22×1.50	32.0	22.5
XSQ-RUT20	M25×1.50	35.0	24.0
XSQ-RUT25	M32×1.50	42.0	25.0
XSQ-RUT32	M40×1.50	50.0	27.5
XSQ-RUT40	M50×1.50	63.0	30.5



■ XSQ-RSU (Sleeve Bearing Type) Unit : mm

MODEL No.	THREAD	Dia.	LENGTH
XSQ-RSU16	M22×1.50	32.0	18.0
XSQ-RSU20	M25×1.50	35.0	20.0
XSQ-RSU25	M32×1.50	42.0	20.5
XSQ-RSU32	M40×1.50	50.0	23.0
XSQ-RSU40	M50×1.50	63.0	26.0



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

MODEL No.	THREAD	Dia.	LENGTH
XSQ-RST16	M22×1.50	28.0	22.5
XSQ-RST20	M25×1.50	34.0	24.5



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

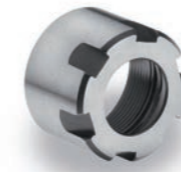
MODEL No.	THREAD	Dia.	LENGTH
XSQ-RSUT16	M22×1.50	32.0	22.5
XSQ-RSUT20	M25×1.50	35.0	24.5
XSQ-RSUT25	M32×1.50	42.0	25.0
XSQ-RSUT32	M40×1.50	50.0	27.5
XSQ-RSUT40	M50×1.50	63.0	30.5

ER COLLET CHUCK

ER NUT

PART

ER NUSS
ER ÉCROU
ER DADO
ERTUERCA



■ XSQ-RM (Mini Nut : Standard Type) Unit : mm

MODEL No.	THREAD	Dia.	LENGTH
XSQ-R08M	M10×0.75	12.0	11.0
XSQ-R11M	M13×0.75	16.0	12.0
XSQ-R16M	M19×1.00	22.0	18.0
XSQ-R20M	M24×1.00	28.0	19.5
XSQ-R25M	M30×1.00	35.0	20.5



■ XSQ-RTM (Mini Nut : Sealing Disk Type) Unit : mm

MODEL No.	THREAD	Dia.	LENGTH
XSQ-RT16M	M19×1.00	22.0	22.5
XSQ-RT20M	M24×1.00	28.0	24.0
XSQ-RT25M	M30×1.00	35.0	25.0

ER COLLET CHUCK

ER NUT & SEALING DISK

PART /DS

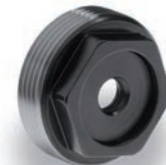
ER NUSS
ER ÉCROU
ER DADO
ERTUERCA



■ XSQ-RA (External Thread Type)

Unit : mm

MODEL No.	THREAD	Dia.	LENGTH
XSQ-RA11	M18×1.00	18.0	6.0
XSQ-RA16	M24×1.00	24.0	8.0
XSQ-RA20	M28×1.50	28.0	11.0
XSQ-RA25	M32×1.50	32.0	12.5



■ XSQ-RAT (External Thread / Sealing Disk Type)

Unit : mm

MODEL No.	THREAD	Dia.	LENGTH
XSQ-RAT16	M24×1.00	24.0	11.0
XSQ-RAT20	M28×1.50	28.0	12.5
XSQ-RAT25	M32×1.50	32.0	14.0
XSQ-RAT32	M40×1.50	40.0	17.5

* Without sealing disk



■ SEALING DISK

Unit : mm

MODEL No.	Dia.	INNER DIA. (Step : 0.5mm)	THICKNESS
DS16	13.0	2.5 - 10	4.0
DS20	16.0	2.5 - 13.0	4.0
DS25	21.0	2.5 - 16.0	4.0
DS32	27.0	2.5 - 20.0	4.0
DS40	33.5	2.5 - 26.0	4.0
DS50	31.0	3.5 - 25.0	4.0



■ SEALING DISK SET

Unit : mm

MODEL No.	Dia.	THICKNESS	INNER DIA. RANGE	SEALING DISKS / SET
DS16S2	13.0	4.0	4.0 ~ 10.0	7pcs / set
DS20S2	16.0	4.0	4.0 ~ 13.0	10pcs / set
DS25S2	21.0	4.0	4.0 ~ 16.0	13pcs / set
DS32S2	27.0	4.0	4.0 ~ 20.0	17pcs / set
DS40S2	33.5	4.0	4.0 ~ 26.0	23pcs / set
DS50S2	31.0	4.0	4.0 ~ 25.0	22pcs / set

ER COLLET CHUCK

ER SPANNER / WRENCH

SP

ER MAULSCHLÜSEL
ER CL
ER CHIAVE
ER LLAVE



FIG.1



FIG.2



■ FOR ER / SKN NUT

Unit : mm

MODEL No.	A	B	APPLICABLE NUT
ER11SP	-	-	ER11
ER16SP	50	160	ER16
ER20SP	55	180	ER20 (FIG.1)
ER25SP	65	210	ER25
ER32SP	75	250	ER32 (FIG.2)
ER40SP	90	290	ER40 (FIG.2)
ER50SP	110	350	ER50 (FIG.2)

▶ Design and shape could be changed without prior notice.

■ FOR ER Mini NUT

Unit : mm

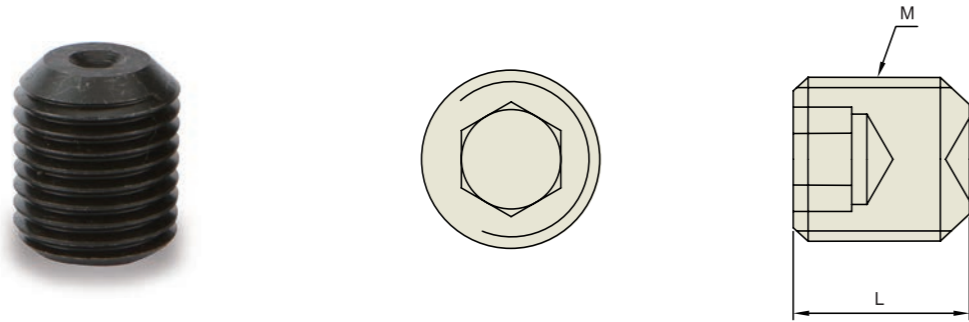
MODEL No.	A	B	APPLICABLE NUT
GE8M	12.4	70	ER8M
GE11M	16.8	90	ER11M
GE16M	22.5	110	ER16M
GE20M	29.0	120	ER20M
GE25M	36.0	130	ER25M

▶ Design and shape could be changed without prior notice.

SIDE LOCK BOLT

PART

ER NUSS
ER ÉCROU
ER DADO
ERTUERCA

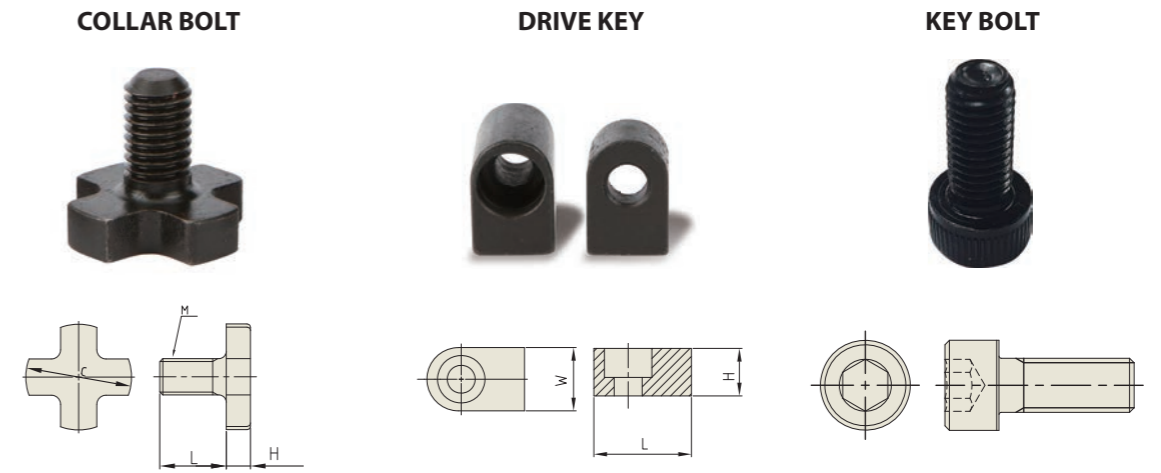


Unit : mm

EMH & SLA ID	EMH		SLA	
	M	L	M	L
6	M6x1.0	10.5	M5x0.8	8
8	M8x1.25	10.5	M6x1.0	10
10	M10x1.5	12.5	M8x1.25	12
12	M12x1.75	16.5	M10x1.5	14
14	M12x1.75	15	M10x1.5	14
16	M14x2.0	16.5	M12x1.75	12
18	M14x2.0	16.5	-	-
20	M16x2.0	16.5	M12x1.75	16
25	M18x2.0	20.5	M14x2.0	14
32	M20x2.0	20.5	M16x2.0	16
40	M20x2.0	20.5	M16x2.0	16
42	-	-	M16x2.0	16
50	M24x2.0	25.5	-	-
50.8	-	-	M20x2.5	25

COLLAR BOLT & DRIVE KEY

PART



■ ACCESSORIES (Standard SMA)

Unit : mm

SPIGOT Dia.	COLLAR BOLT		DRIVE KEY	KEY BOLT
	SPEC.	Head Dia.(C)	SPEC.(W x H x L)	SPEC.
16	M8 x 1.25 x 16L	20	8 x 7 x 12.8	M3x0.5x10L
22	M10 x 1.5 x 18L	28	10 x 7.8 x 15.5	M4x0.7x10L
27	M12 x 1.75 x 22L	35	12 x 9 x 18.5	M5x0.8x12L
32	M16 x 2.0 x 26L	42	14 x 11.5 x 20.5	M6x1.0x15L
40	M20 x 2.5 x 30L	52	16 x 13.5 x 23.5	M6x1.0x15L
50	M24 x 3.0 x 36L	63	18 x 18 x 28.5	M6x1.0x20L

■ ACCESSORIES (Large Face SMA)

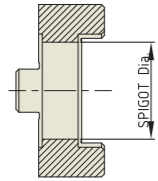
Unit : mm

SPIGOT Dia.	COLLAR BOLT		DRIVE KEY	KEY BOLT
	SPEC.	Head Dia.(C)	SPEC.(W x H x L)	SPEC.
16	M8 x 1.25 x 16L	20	8 x 9.7 x 10	M3x0.5x12L
22	M10 x 1.5 x 18L	28	10 x 10.8 x 11.2	M4x0.7x12L
27	M12 x 1.75 x 22L	35	12 x 12.6 x 13.6	M5x0.8x15L
32	M16 x 2.0 x 26L	42	14 x 14 x 21	M6x1.0x15L
40	M20 x 2.5 x 30L	52	16 x 16 x 21	M6x1.0x15L

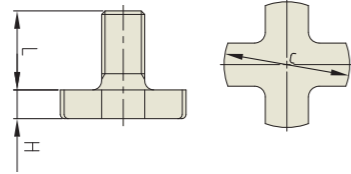
DRIVE RING, BOLT & KEY

PART

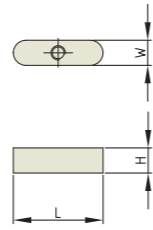
CLUTCH DRIVE RING



COLLAR BOLT



KEY

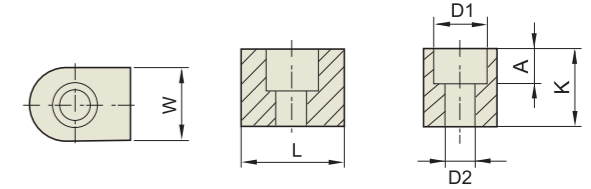


Unit : mm

SPIGOT Dia.	CLUTCH DRIVE RING	COLLAR BOLT		KEY
	SPEC.	SPEC.	Head Dia.(C)	SPEC.(W x H x L)
16	#16	M8x1.25x16	20	4x4x20
22	#22	M10x1.5x18	28	6x6x25
27	#27	M12x1.75x22	35	7x7x25
32	#32	M16x2.0x26	42	8x7x28
40	#40	M20x2.5x30	52	10x8x32
50	#50	M24x3.0x36	63	12x8x36

DRIVE KEY & MOUNTING BOLT

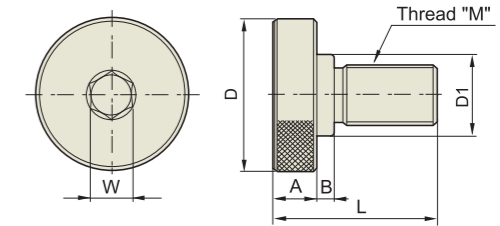
PART



KEY

Unit : mm

KEY	W	K	L	D1	D2	A	APPLICABLE ARBOR
9.52 x 9.52 x 10.2	9.52	9.52	10.2	7.5	4.5	5.2	FMA25.4 / FMB25.4
9.5 x 12 x 11	9.5	12	11	7.5	4.2	5	FMC25.4
10 x 10 x 11	10	10	11	7.5	4.2	5	FMC22
12 x 13 x 18	12	13	18	9	5.3	8	FMB27 / FMC27
12.7 x 12.7 x 12.7	12.7	12.7	12.7	8.7	5.5	6	FMA31.75
15.87 x 15.87 x 18.5	15.87	15.87	18.5	10.3	6.6	7.5	FMA38.1 / FMB40 / FMB40F
14 x 15 x 20	14	15	20	10.5	6.3	7	FMC32
25.4 x 22.5 x 27	25.4	22.5	27	16.5	10.5	11	FMA47.625 / FMB60
19.05 x 18 x 22	19.05	18	22	14	8.6	9	FMA50.8



MOUNTING BOLT

Unit : mm

MOUNTING BOLT	M	D	D1	L	A	B	W	APPLICABLE ARBOR
MB8	M8x1.25	20	15	23	7	2	6	FMC16
MB10	M10x1.5	28	18	29	9	2	8	FMC22
MB12	M12x1.75	33	23	32	10	2	10	FMC27 / FMB27 / FMA25.4
MB16	M16x2.0	40	23	42	10	6	12	FMC32 / FMA31.75
MB20	M20x2.5	50	27	54	14	6	14	FMC40 / FMA38.1 / FMB40 / FMB40F
MB24	M24x3.0	65	37	62	14	10	17	FMA50.8

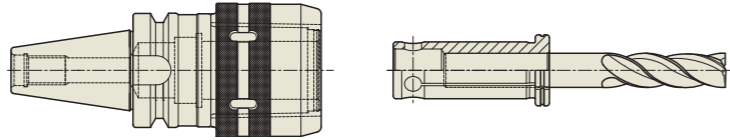
**POWER MILLING CHUCK
COLLET & SPANNER**

PART



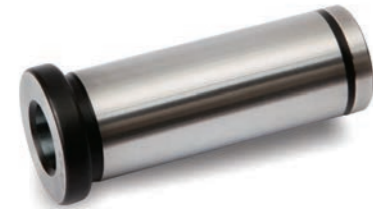
END MILL COLLET (K TYPE)

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



END MILL COLLET (CK TYPE)

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



MT COLLET

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

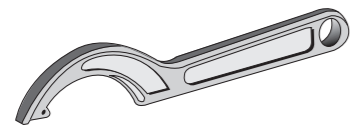
DRILL CHUCK ARBOR

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



SPANNER

MODEL No.
C20 SP
C25 SP
C32 SP
C42 SP

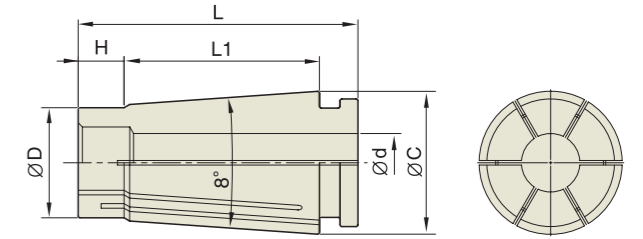


▶ Design and shape could be changed without prior notice.

**SK SLIM CHUCK
SK COLLET**

SKC

SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO



◇ T.I.R : ≤0.005mm at 3D

TYPE	MODEL No.	CLAMPING RANGE (d)	TYPE	MODEL No.	CLAMPING RANGE (d)	TYPE	MODEL No.	CLAMPING RANGE (d)
SKC6	SKC6-2	1.8 - 2.0	SKC10	SKC10-2	1.75 - 2.0	SKC13	SKC13-3	2.75 - 3.0
	SKC6-2.5	2.3 - 2.5		SKC10-2.5	2.25 - 2.5		SKC13-3.5	3.0 - 3.5
	SKC6-3	2.8 - 3.0		SKC10-3	2.75 - 3.0		SKC13-4	3.5 - 4.0
	SKC6-3.5	3.0 - 3.5		SKC10-3.5	3.0 - 3.5		SKC13-4.5	4.0 - 4.5
	SKC6-4	3.5 - 4.0		SKC10-4	3.5 - 4.0		SKC13-5	4.5 - 5.0
	SKC6-4.5	4.0 - 4.5		SKC10-4.5	4.0 - 4.5		SKC13-5.5	5.0 - 5.5
	SKC6-5	4.5 - 5.0		SKC10-5	4.5 - 5.0		SKC13-6	5.5 - 6.0
	SKC6-5.5	5.0 - 5.5		SKC10-5.5	5.0 - 5.5		SKC13-6.5	6.0 - 6.5
SKC6-6	5.5 - 6.0	SKC10-6		5.5 - 6.0	SKC13-7		6.5 - 7.0	
		SKC10-6.5		6.0 - 6.5	SKC13-7.5		7.0 - 7.5	
		SKC10-7	6.5 - 7.0	SKC13-8	7.5 - 8.0			
		SKC10-7.5	7.0 - 7.5	SKC13-8.5	8.0 - 8.5			
		SKC10-8	7.5 - 8.0	SKC13-9	8.5 - 9.0			
		SKC10-8.5	8.0 - 8.5	SKC13-9.5	9.0 - 9.5			
		SKC10-9	8.5 - 9.0	SKC13-10	9.5 - 10.0			
		SKC10-9.5	9.0 - 9.5	SKC13-10.5	10.0 - 10.5			
		SKC10-10	9.5 - 10.0	SKC13-11	10.5 - 11.0			
				SKC13-11.5	11.0 - 11.5			
				SKC13-12	11.5 - 12.0			
				SKC13-12.5	12.0 - 12.5			
				SKC13-13	12.5 - 13.0			

SKC COLLET DIMENSION

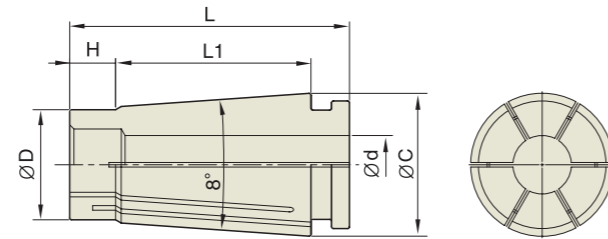
TYPE	D	L	L1	H	C	WEIGHT (Kg)
SKC6	7.5	25.7	17.6	3.8	10	0.03
SKC10	12	32	21.3	5	15	0.04
SKC13	15.4	39	28.3	5.5	20	-
SKC16	18.8	46	32	8	24	0.06
SKC20	22.5	54.2	41	8	29	-
SKC25	28.9	58.2	43	8.5	35	0.10

SK SLIM CHUCK

SK COLLET

SK SCHLANKE FUTTER
MANDRIN TYPE SK MINCE
SK MANDRINI SOTTILI
PORTAHERRAMIENTAS SK EJE REDUCIDO

SKC



◇ T.I.R : ≤0.005mm at 3D

Unit : mm

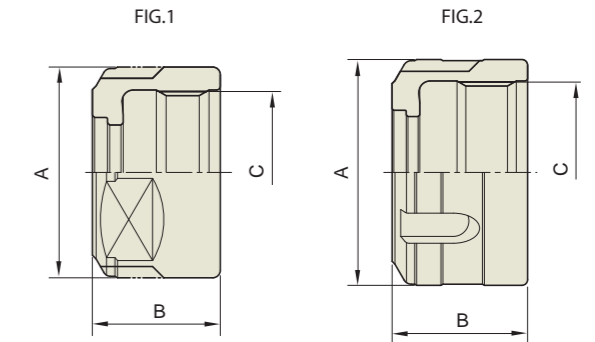
TYPE	MODEL No.	CLAMPING RANGE (d)	TYPE	MODEL No.	CLAMPING RANGE (d)	TYPE	MODEL No.	CLAMPING RANGE (d)
SKC16	SKC16-3	2.75 - 3.0	SKC20	SKC20-4	3.5 - 4.0	SKC25	SKC25-16.5	16.0 - 16.5
	SKC16-3.5	3.0 - 3.5		SKC20-4.5	4.0 - 4.5		SKC25-17	16.5 - 17.0
	SKC16-4	3.5 - 4.0		SKC20-5	4.5 - 5.0		SKC25-17.5	17.0 - 17.5
	SKC16-4.5	4.0 - 4.5		SKC20-5.5	5.0 - 5.5		SKC25-18	17.5 - 18.0
	SKC16-5	4.5 - 5.0		SKC20-6	5.5 - 6.0		SKC25-18.5	18.0 - 18.5
	SKC16-5.5	5.0 - 5.5		SKC20-6.5	6.0 - 6.5		SKC25-19	18.5 - 19.0
	SKC16-6	5.5 - 6.0		SKC20-7	6.5 - 7.0		SKC25-19.5	19.0 - 19.5
	SKC16-6.5	6.0 - 6.5		SKC20-7.5	7.0 - 7.5		SKC25-20	19.5 - 20.0
	SKC16-7	6.5 - 7.0		SKC20-8	7.5 - 8.0		SKC25-20.5	20.0 - 20.5
	SKC16-7.5	7.0 - 7.5		SKC20-8.5	8.0 - 8.5		SKC25-21	20.5 - 21.0
	SKC16-8	7.5 - 8.0		SKC20-9	8.5 - 9.0		SKC25-21.5	21.0 - 21.5
	SKC16-8.5	8.0 - 8.5		SKC20-9.5	9.0 - 9.5		SKC25-22	21.5 - 22.0
	SKC16-9	8.5 - 9.0		SKC20-10	9.5 - 10.0		SKC25-22.5	22.0 - 22.5
	SKC16-9.5	9.0 - 9.5		SKC20-10.5	10.0 - 10.5		SKC25-23	22.5 - 23.0
	SKC16-10	9.5 - 10.0		SKC20-11	10.5 - 11.0		SKC25-23.5	23.0 - 23.5
	SKC16-10.5	10.0 - 10.5		SKC20-11.5	11.0 - 11.5		SKC25-24	23.5 - 24.0
	SKC16-11	10.5 - 11.0		SKC20-12	11.5 - 12.0		SKC25-24.5	24.0 - 24.5
	SKC16-11.5	10.0 - 11.5		SKC20-12.5	12.0 - 12.5		SKC25-25	24.5 - 25.0
	SKC16-12	11.5 - 12.0		SKC20-13	12.5 - 13.0		SKC25-25.4	25.0 - 25.4
	SKC16-12.5	12.0 - 12.5		SKC20-13.5	13.0 - 13.5			
SKC16-13	12.5 - 13.0	SKC20-14	13.5 - 14.0					
SKC16-13.5	13.0 - 13.5	SKC20-14.5	14.0 - 14.5					
SKC16-14	13.5 - 14.0	SKC20-15	14.5 - 15.0					
SKC16-14.5	14.0 - 14.5	SKC20-15.5	15.0 - 15.5					
SKC16-15	14.5 - 15.0	SKC20-16	15.5 - 16.0					
SKC16-15.5	15.0 - 15.5	SKC20-16.5	16.0 - 16.5					
SKC16-16	15.5 - 16.0	SKC20-17	16.5 - 17.0					
		SKC20-17.5	17.0 - 17.5					
		SKC20-18	17.5 - 18.0					
		SKC20-18.5	18.0 - 18.5					
		SKC20-19	18.5 - 19.0					
		SKC20-19.5	19.0 - 19.5					
		SKC20-20	19.5 - 20.0					

SK SLIM CHUCK

SK NUT

SKN NUSS
SKN ÉCROU
SKN DADO
SKN TUERCA

PART



Unit : mm

TYPE	A	B	C	FIG.	WEIGHT (Kg)
SKN06	20	15	M15.5 x 1.0	1	0.02
SKN10	28	17	M21.5 x 1.0	1	0.04
SKN13	33	21	M27 x 1.0	2	0.05
SKN16	40	24	M32 x 1.5	2	0.06
SKN20	48.5	24	M40 x 1.0	2	0.08
SKN25	55	30	M45 x 1.5	2	0.10

SK SPANNER

PART



MODEL No.
TSK6
TSK10
TSK13
TSK16
TSK20
TSK25

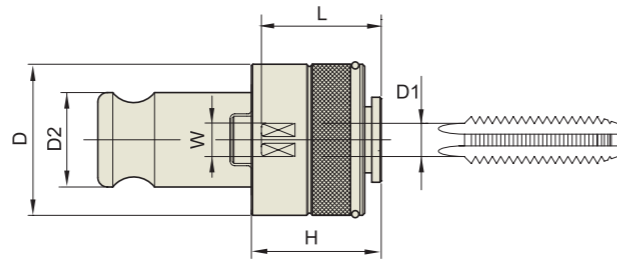
▶ Design and shape could be changed without prior notice.

TAPPING CHUCK

TAP ADAPTOR (JIS)

SCHNELLWECHSEL-EINSATZ
ADAPTATEUR CHANGEMENT RAPIDE
BUSSOLA A INNESTO RAPIDO
INSERTO DE CAMBIO RAPIDO

TC



Below standard Tap Adaptor conforms to JIS.

Unit : mm

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

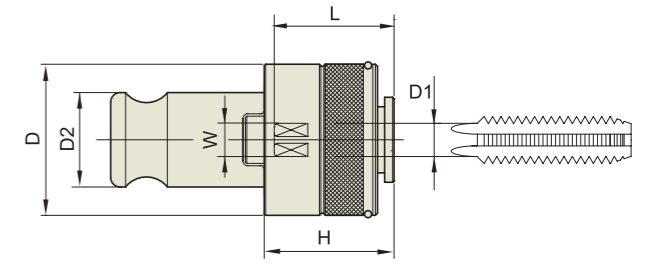
- ▶ Feature : Quick Change Type with Built-in Torque Safety Device.
- ▶ For Pipe Type Tap, please discuss separately.

TAPPING CHUCK

TAP ADAPTOR (DIN)

SCHNELLWECHSEL-EINSATZ
ADAPTATEUR CHANGEMENT RAPIDE
BUSSOLA A INNESTO RAPIDO
INSERTO DE CAMBIO RAPIDO

TC



Below standard Tap Adaptor conforms to DIN.

Unit : mm

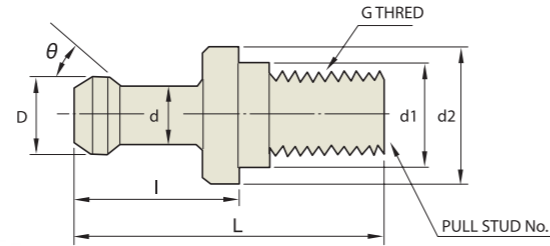
TAPER No.	MODEL No.	D	D1 (Ø)	D2	H	W(□)	L	DIN No.	WEIGHT (Kg)
TSC12D	TCS12D-2821	32	2.8	19	25	2.1	24	371	0.20
	TCS12D-3527	32	3.5	19	25	2.7	24	371	0.20
	TCS12D-4534	32	4.5	19	25	3.4	24	371	0.20
	TCS12D-43	32	4	19	25	3	24	371	0.20
	TCS12D-5543	32	5.5	19	25	4.3	25	376	0.20
	TCS12D-649	32	6	19	25	4.9	25	371	0.20
	TCS12D-755	32	7	19	25	5.5	25	376	0.20
	TCS12D-862	32	8	19	25	6.2	25	371	0.20
	TCS12D-97	32	9	19	25	7	26	376	0.20
	TCS12D-108	32	10	19	25	8	26	371	0.20
	TCS12D-119	32	11	19	25	9	26	376	0.20
	TCS24D	TCS24D-649	52	6	31	33	4.9	38	371
TCS24D-755		52	7	31	33	5.5	38	376	0.60
TCS24D-862		52	8	31	33	6.2	38	371	0.60
TCS24D-97		52	9	31	33	7	38	376	0.60
TCS24D-108		52	10	31	33	8	39	371	0.60
TCS24D-119		52	11	31	33	9	41	376	0.60
TCS24D-129		52	12	31	33	9	43	376	0.60
TCS24D-1411		52	14	31	33	11	43	376	0.60
TCS24D-1612		52	16	31	33	12	46	376	0.60
TCS24D-18145		52	18	31	33	14.5	46	376	0.60
TCS38D-119		72	11	48	45	9	43	376	1.80
TCS38D-129		72	12	48	45	9	43	376	1.80
TCS38D-1411	72	14	48	45	11	45	376	1.80	
TCS38D-1612	72	16	48	45	12	45	376	1.80	
TCS38D-18145	72	18	48	45	14.5	62	376	1.80	
TCS38D-2016	72	20	48	45	16	64	376	1.80	
TCS38D-2218	72	22	48	45	18	66	376	1.80	
TCS38D-2520	72	25	48	45	20	68	376	1.80	
TCS38D-2822	72	28	48	45	22	68	376	1.80	

- ▶ Feature : Quick Change Type with Built-in Torque Safety Device.
- ▶ For Pipe Type Tap, please discuss separately.

PULL STUD BOLT & SPANNER

PSB

ANZUGBOLZEN
BOULONS DE SERRAGE
TIRANTI PER MANDRINI UNIVERSALI
TIRANTES PARA PORTAHERRAMIENTAS

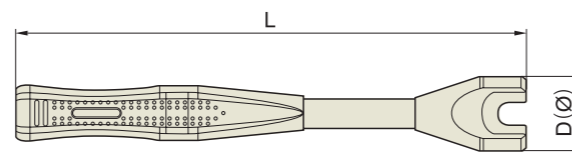


■ PULL STUD BOLT

Unit : mm

MODEL No.	D	d2	d1	d	L	l	G	θ	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-805	19	23	17	14	54	29	M16	75°	BT40
PS-806	19	23	17	14	54	29	M16	75°	BT40 (Through Hole)
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 MITISUI SEIKI
PS-P5	15	23	17	10	50	25	M16	90°	for BT40 MITISUI SEIKI
PS-G41	29	37	25	21	65.2	25.2	M24	45°	for BT50 MAZAK
PS-G51	18.8	22	17	12.45	44.1	19.1	M16	45°	for BT40 MAZAK
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

- ▶ 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	TYPE	WEIGHT (Kg)
PSWB-30	27	210	BT30	0.30
PSWB-40	37	230	BT40	0.40
PSWB-50	49	280	BT50	0.78

PULL STUD BOLT

PSB

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TIRANTES PARA PORTAHERRAMIENTAS

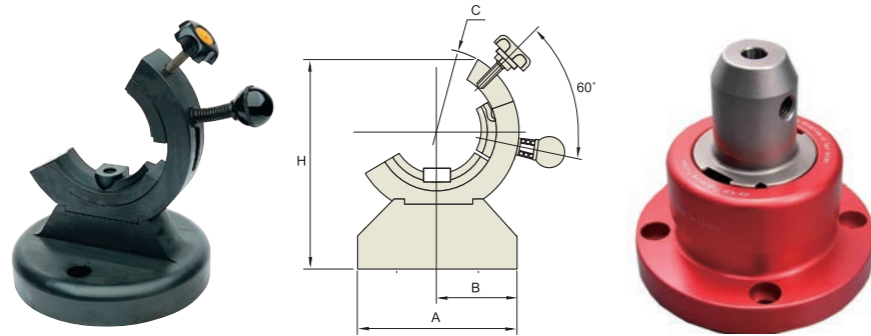
■ APPLICATION TABLE OF PULL STUD BOLT

MACHINE MANUFACTURER	MACHINE MODEL No.	TAPER No.	PS BOLT	MACHINE MANUFACTURER	MACHINE MODEL No.	TAPER No.	PS BOLT
DOOSAN	T 4000	BT30	PS-16	SMEC	Any Mill LCV30A/B	BT30	PS-17
	DT 360D	BT30	PS-16		Any Mill LCV55S	BT50	PS-6
	DNM 400 II/500 II/650 II	BT40	PSS-1		Any Mill LCV650S	BT50	PS-5
	DNM 750 II/40	BT40	PSS-1		Any Mill ICV66	BT50	PS-5
	DNM 750 II/50	BT50	PS-5		Any Mill ICV80	BT50	PS-5
	Mynx 6500	BT50	PS-5		DMC-3000	BT50	PS-0
	Mynx 7500	BT50	PS-5		PCH40	BT40	PS-1
	VM 5400/6500	BT40	PS-805/806		PCH50	BT50	PS-5
	VM 750	BT50	PS-5		HWACHEON	SIRIUS-1	BT30
	VM 960	BT50	PS-5	SIRIUS-550		BT40	PS-1
	VM 1260	BT50	PS-5	SIRIUS-UL/ULG		BT40	PS-1
	VC 430	BT40	PS-805/806	SIRIUS-7040		BT50	PS-0
	VC 510	BT40	PS-805/806	SIRIUS-650/650N		BT50	PS-0
	DVM 500 II	BT40	PS-805/806	SIRIUS-850/850N		BT50	PS-0
DVM 5650 II	BT40	PS-805/806	SIRIUS-700	BT50		PS-0	
NX 4500 II	BT40	PS-805/806	SIRIUS-12580	BT50		PS-0	
NX 5500 II	BT40	PS-805/806	S&T	TCH-45		BT40	PS-1
NX 6500 II	BT40	PS-805/806		TCH-50		BT50	PS-6
NHM 5000	BT50	PS-5		TCH-80	BT50	PS-6	
NHM 6300	BT50	PS-5		TCH-80TS	BT50	PS-6	
NHM 8000	BT50	PS-5		FX-500H	BT40	PS-2	
NHM 1000	BT50	PS-5		TNV-40A	BT40	PS-1	
NHM 1250	BT50	PS-5		TNV-80A	BT40	PS-1	
NHP 5000	BT50	PS-5		TNV-650V	BT50	PS-6	
NHP 6300	BT50	PS-5		HASS	TM-1/2	BT40	PS-1
HC 400 II	BT40	PSS-1			VF-4SS/3SS/2SS	BT40	PS-1
HC 500 II	BT40	PSS-1	VF-2TR		BT40	PS-1	
i-CUT 380T/420T	BT30	PS-16	VF-5/50TR		BT50	PS-5	
i-CUT 400T/M	BT30	PS-16	VF-9/50		BT50	PS-5	
WIA	F 400/500/650	BT40	PS-1	MAZAK	VF-8/50	BT50	PS-5
	F 500/650	BT50	PS-5			BT40	PS-G51
	F 510M/550M/660M	BT40	PS-1		BT50	PS-G41	
	F 510B	BT40	PS-1	MORI SEKI		BT40	PS-08
	F 600B/750B/960B	BT50	PS-5			BT50	PS-51
	KH 50G/63G	BT50	PS-5				
	KH 80G/1000	BT40	PS-1				
	HS 5000	BT40	PS-1				
	HS 5000/6300/8000	BT50	PS-5				

TOOL CLAMP

TC

MONTAGEVORRICHTUNGEN
DISPOSITIF DE MONTAGE
ATTREZZO PER IL MONTAGGIO DI MANDRINI
SOPORTE PARA MONTAJE



• Flange Clamping Design

Unit : mm

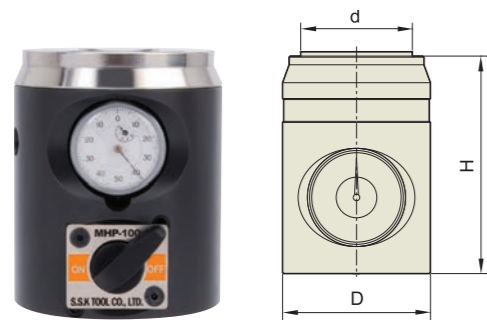
TAPER No.	MODEL No.	A	B	C	H	WEIGHT (Kg)
BT30	TCP30	125	65	108	135	3.00
BT40	TCP40	160	80	138	180	7.60
BT50	TCP50	180	90	165	205	8.60
SK30	TSK30	125	65	108	135	3.00
SK40	TSK40	160	80	138	180	7.60
SK50	TSK50	180	90	165	205	8.60
HSK32/40/50	THSK32/40/50	125	65	108	135	-
HSK63	THSK63	160	80	138	180	-
HSK100	THSK100	180	90	165	205	-

► Tool clamp for CAT taper available.

HEIGHT PRESETTER

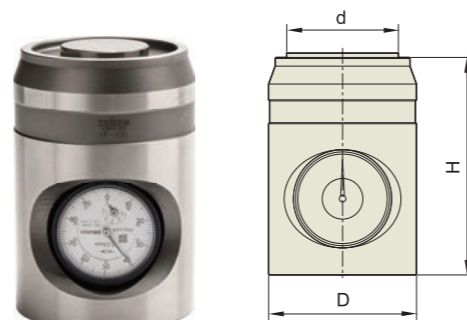
HP

• MAGNETIC HEIGHT PRESETTER



- Both vertical and horizontal type usable
- Slim design

• HEIGHT PRESETTER



- Exclusively for vertical

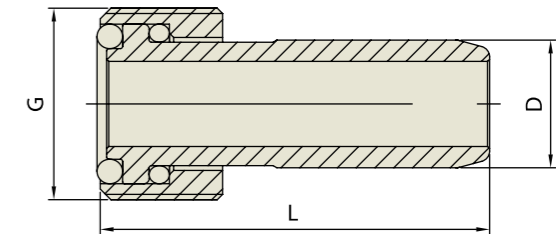
Unit : mm

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

COOLANT TUBE (For HSK TAPER)

CT

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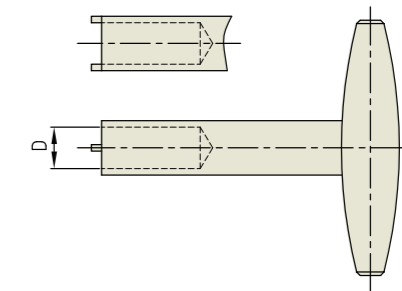
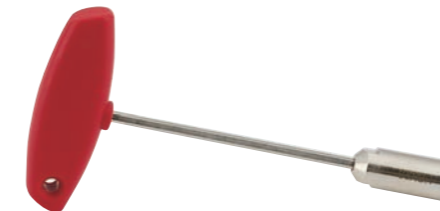


Unit : mm

TAPER No.	D	G
HSK32	6	M10
HSK40	8	M12
HSK50	10	M16
HSK63	12	M18
HSK80	14	M20
HSK100	16	M24

COOLANT TUBE SPANNER (For HSK TAPER)

CTS



Unit : mm

TAPER No.	D
HSK32	6
HSK40	8
HSK50	10
HSK63	12
HSK80	14
HSK100	16

► Design and shape could be changed without prior notice.

