

HYDRAULIC CHUCK	SHRINK FIT HOLDER	MILLING CHUCK	SK SLIM CHUCK	ER COLLET CHUCK	NC DRILL CHUCK	MORSE TAPER ARBOR	TAPPING ER CHUCK	TAP CHUCK	EMH & SLA	FACE MILL SYSTEM	SMA & CMA	BORING SYSTEM	ANGLE HEAD
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World Best Quality & Pride

SSK TOOLING SYSTEM



SSK TOOL CO., LTD.



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E-2014-2015

SSK TOOLING SYSTEM

ISO 9001 & ISO 14001 Certified

World Best Quality & Pride

SSK TOOLING SYSTEM



SSK TOOL CO., LTD.



E-2014-2015

ANGLE HEAD	BORING SYSTEM	SMA & CMA	FACE MILL SYSTEM	EMH & SLA	TAP CHUCK	TAPPING ER CHUCK	MORSE TAPER ARBOR	NC DRILL CHUCK	ER COLLET CHUCK	SK SLIM CHUCK	MILLING CHUCK	SHRINK FIT HOLDER	HYDRAULIC CHUCK
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SSK VISION

*TOP LEADER
OF THE WORLD
TOOL HOLDER INDUSTRY*



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



SSK'S COMPETITIVENESS assures impeccable products, unparalleled quality and highest price performance ratio.

SSK HISTORY

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



PRODUCT INDEX

HYDRAULIC CHUCK

HYDRAULIK SPANNFUTTER
MANDRIN HYDRAULIQUE
MANDRINI IDRAULICI
PORTAHERRAMIENTAS HIDRAULICO

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DIN 69893/ISO 12164-1-HSK



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JIS B6339/MAS 403-BT & CBT



page : 25~31

DIN 69871-SK

(For Mold)



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DIN 69893/ISO 12164-1-HSK

(For Mold)



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JIS B6339/MAS 403-BT & CBT

(For Mold)



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DIN 228-MTB

(For Grinder)



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COLLET (REDUCTION SLEEVE)



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SHRINK FIT HOLDER

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

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ISO 26623-CAPTO



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EXTENSION



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ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

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ER COLLET  page : 79~81	TAP ER COLLET  page : 82	ER NUT & SPANNER  page : 83~87	

END MILL HOLDER & SIDE LOCK ARBOR

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

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SHELL MILL ARBOR & COMBI SHELL MILL ARBOR

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

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

DIN 69871-SK

(SMA)



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JIS B6339/MAS 403-BT & CBT

(SMA & PARTS)



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JIS B6339/MAS 403-BT

(SCA)



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JIS B6339/MAS 403-BT & CBT

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DIN 2080-ISO

(CMA & PARTS)



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MILLING CHUCK

FRÄSPANNFUTTER
MANDRIN PORTE FRAISE
MANDRINI PORTA FRESA
PORTAHERRAMIENTAS PARA FRESADO

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Q.C SET



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MORSE TAPER ARBOR

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

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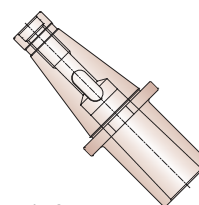
JIS B6339/MAS 403-BT

(MTA & MTB)



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ANSI B5.18-NT



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SK SLIM CHUCK

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

JIS B6339/MAS 403-BT & CBT



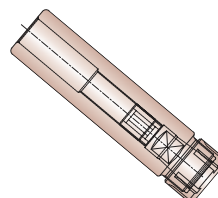
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STRAIGHT-K



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COLLET & NUT



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TAPPING ER CHUCK

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

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TAP CHUCK

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

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STRAIGHT-K



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TAP CHUCK

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

DIN 228-MTA



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TAP ADAPTER

(JIS & DIN)



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FACE MILL SYSTEM

AUFNAHMEDORNE
ARBRE PORTE FRAISE À ALÉSAGE
SISTEMA PORTA FRESE FRONTALE
SISTEMA PARA PLATOS DE PLACAS

JIS B6339/MAS 403-BT & CBT

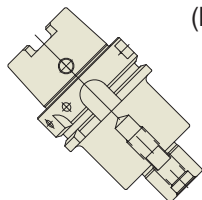
(FMA)



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(FMA)



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ANSI B5.18-NT

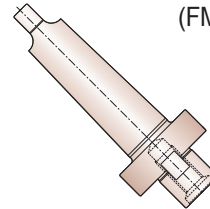
(FMA)



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(FMA)



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JIS B6339/MAS 403-BT & CBT

(FMB)



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JIS B6339/MAS 403-BT & CBT

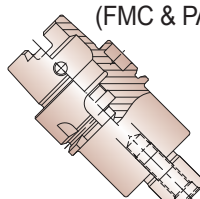
(FMC)



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(FMC & PARTS)



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NC DRILL CHUCK

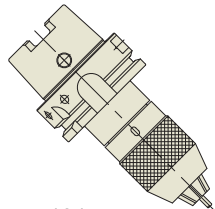
NC - BOHRFUTTER
MANDRIN DE PERÇAGE NC
NC MANDRINI PORTA PUNTE
PORTABROCAS PARA BROCAS NC

JIS B6339/MAS 403-BT & CBT



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STRAIGHT-K



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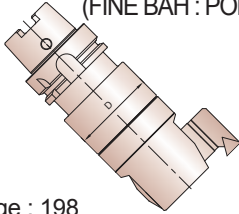
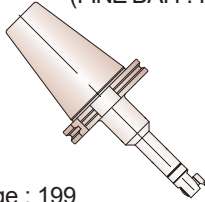
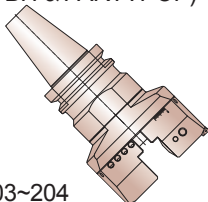
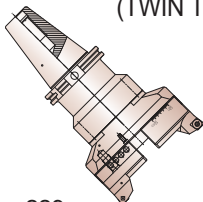
JACOBS TAPER ADAPTER



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BORING SYSTEM

AUSBOHRSYSTEM
SYSTÈME D'ALÉSAGE
SISTEMA DI BARENATURA
SISTEMAS DE MANDRINADO

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JIS B6339/MAS 403-BT (FINE FBH & PART : POP)  page : 203~204	FINE BORING BAR (BORING HEAD & PARTS : SUPREME)  page : 205~220	JIS B6339/MAS 403-BT (TWIN TBH)  page : 221	DIN 69871-SK (TWIN TBH)  page : 222
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JIS B6339/MAS 403-BT (SQUARE BSA & BITE)  page : 238~240			

ANGLE HEAD

WINKELKÖPFE
TÊTES À RENVOI D'ANGLE
TESTE ANGOLARI
CABEZALES ANGULARES

JIS B6339/MAS 403-BT



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ACCESSORY & OTHERS

PULL STUD BOLT



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TOOL CLAMP



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HEIGHT PRESETTER

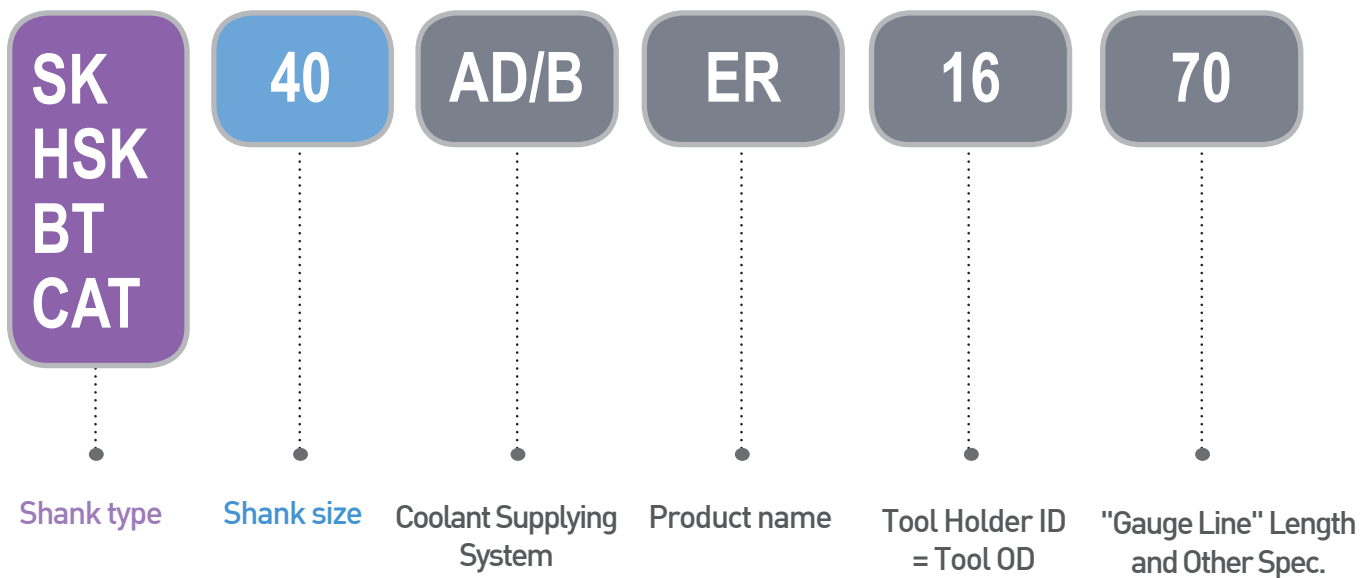


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Product design and technical data in the contents are subject to change for improving quality or performance of products without prior notice.

MODEL NUMBERING SYSTEM& FINISH

MODEL NUMBERING SYSTEM



SURFACE FINISH

AVAILABLE SURFACE FINISH

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

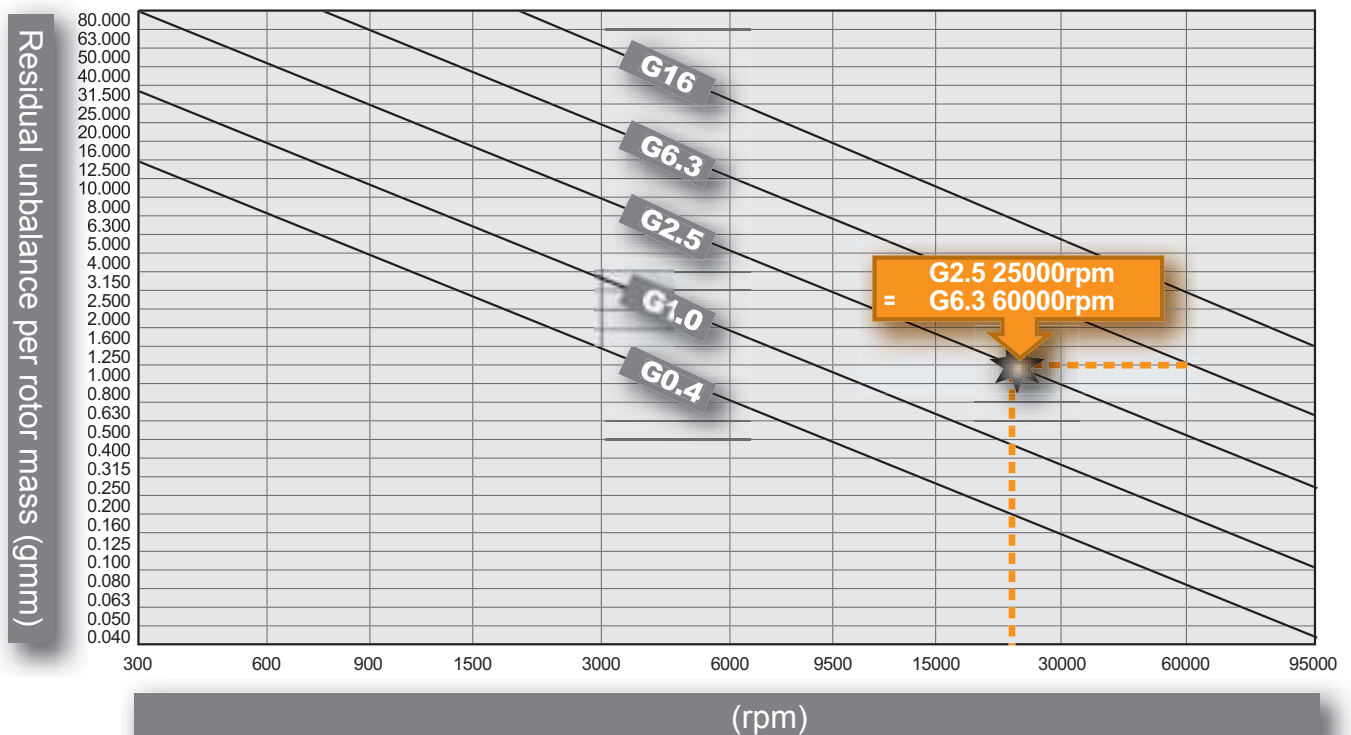
BALANCING & UNBALANCING

1. Definition of Balancing and 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).

2. Balancing Grade Quality According To ISO 1940

(DIN ISO 1940)



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

G : Balancing grade or circumference speed

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

9549 : Conversion constant

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

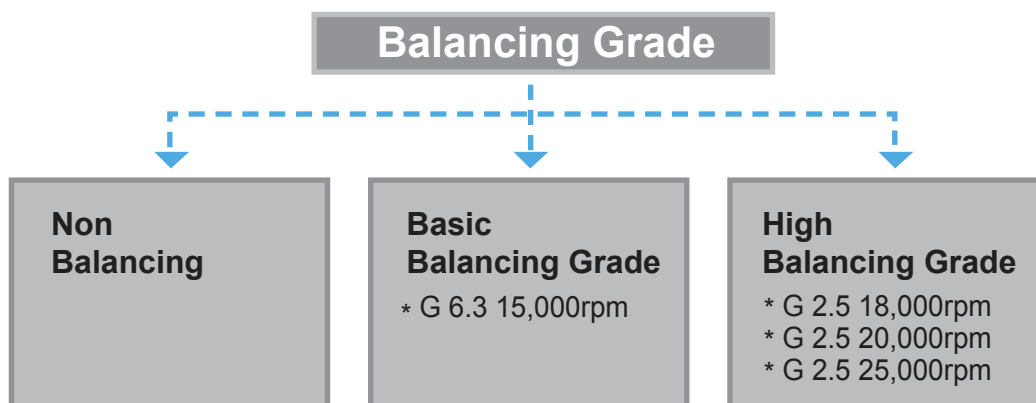
rpm : Revolutions Per Minute

BALANCING & UNBALANCING

3. 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.

4. SSK Balancing Grade Standard



5. SSK Balancing Specification (for Balancing Design Products)

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

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

The Top Leader of World Toolholder Industry



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



HYDRAULIC CHUCK

HYDRAULIK SPANNFUTTER

MANDRIN HYDRAULIQUE

MANDRINI IDRAULICI

PORTAHERRAMIENTAS HIDRAULICO

DIN 69871-SK

RADIAL TOOL LENGTH PRE-SETTING TYPE / STANDARD TYPE

DIN 69893/ISO 12164-1-HSK

RADIAL TOOL LENGTH PRE-SETTING TYPE / STANDARD TYPE

CBT(BT DUAL CONTACT)

RADIAL TOOL LENGTH PRE-SETTING TYPE / STANDARD TYPE

JIS B6339/MAS 403-BT

RADIAL TOOL LENGTH PRE-SETTING TYPE / STANDARD TYPE

HYDRAULIC CHUCK(For MOULD and GRINDER)

JIS B6339 (MAS 403)-BT, DIN 69871-SK, DIN 69893/ISO12164-1-HSK ,DIN228-MTB

ACCESSORY

HYDRAULIC CHUCK COLLET (HK, HS)

T-WRENCH

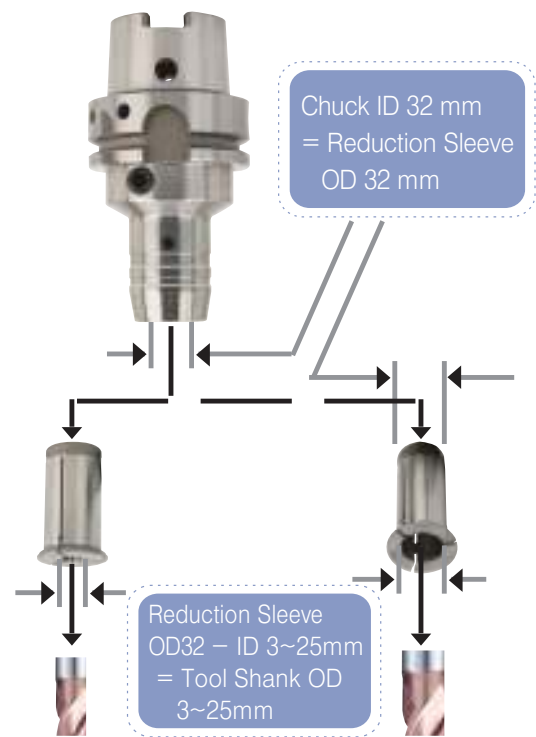
HYDRAULIC CHUCK

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

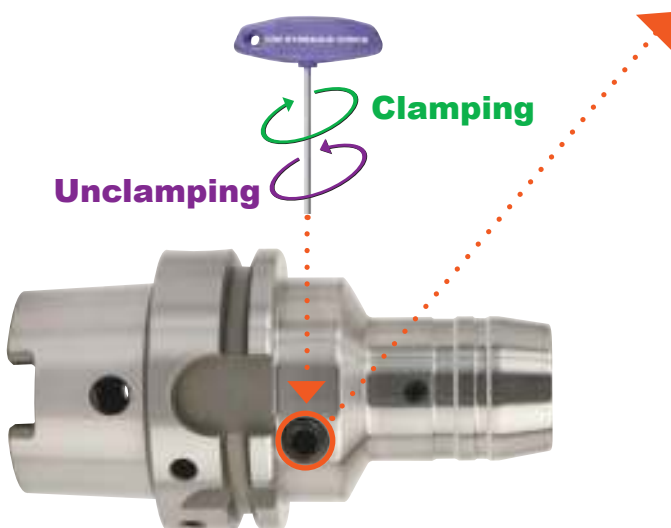


- Less than 0.003mm T.I.R
 => Suitable for high-speed precision machining

➤ Flexible use of cutting tools
 by using of reduction sleeves

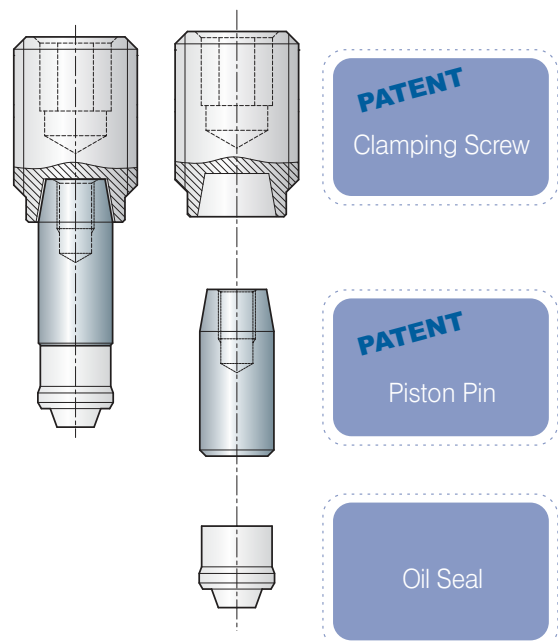


➤ Easy Tool Change



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

CLAMPING SCREW



HYDRAULIC CHUCK

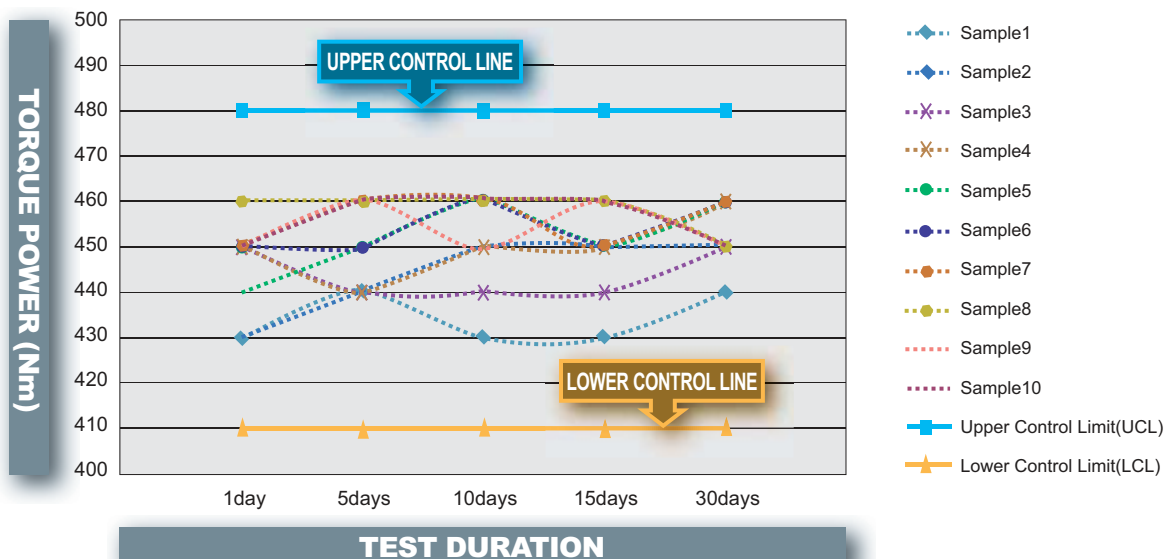
Strong Torque Power

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

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



Test of torque power and hydraulic oil leakage

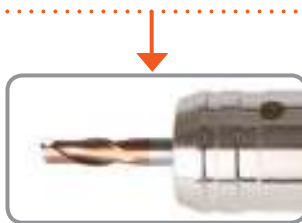
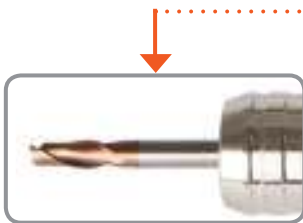
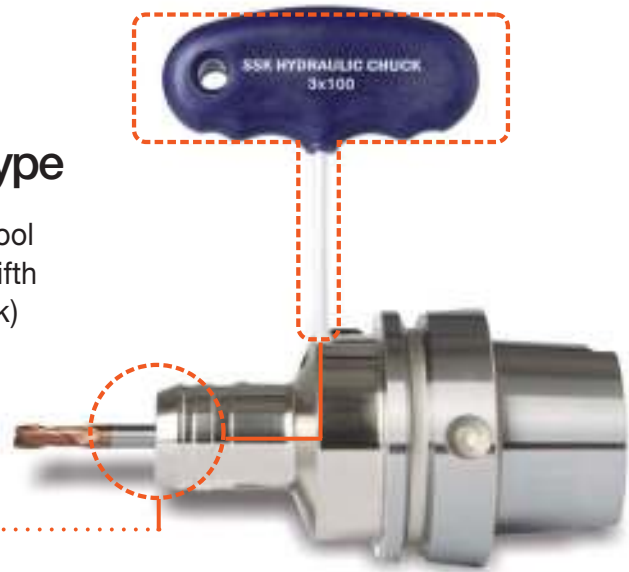


- TEST Model : BT40AD/B-HC20S-72,5
- No oil leakage for long period ⇒ Maintaining stable torque power

HYDRAULIC CHUCK

Radial tool length pre-setting type

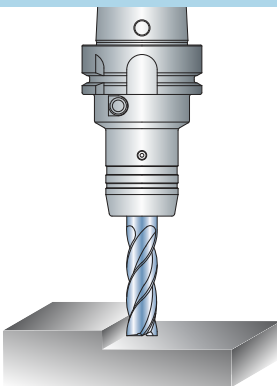
- Easy to adjust pre-setting length of cutting tool
(Saving time to pre-set cutting tool to one fifth compared with conventional Hydraulic Chuck)
- Precise adjustment of cutting tool length
- Designed to separate tool length adjustment screw from clamping screw



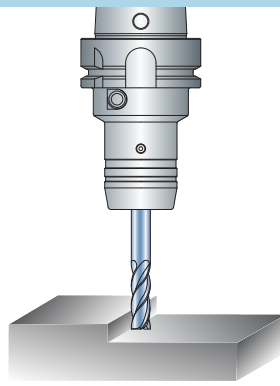
Adjustable range of cutting tool length : 0~10mm

APPLICATION

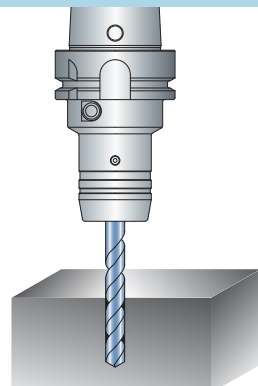
Milling



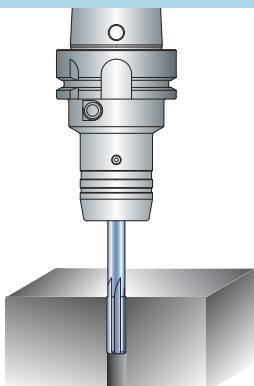
High Speed Cutting



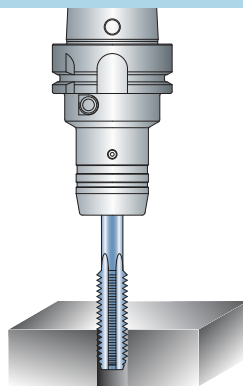
Fine Drilling



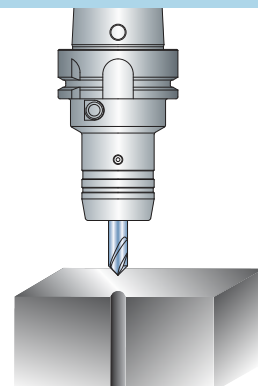
Reaming



Tapping & Thread Milling



Chamfering



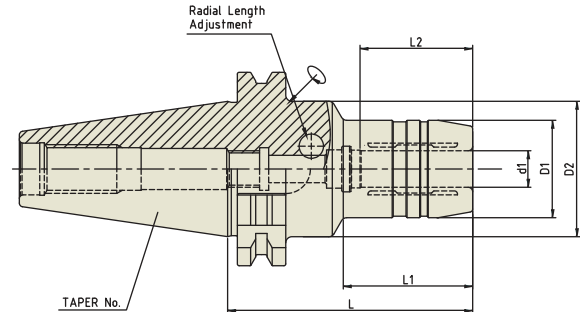
HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)

HYDRAULIK SPANNFUTTER (RADIALE WERKZEUGLÄGEN VOREINSTELLUNG)

MANDRIN HYDRAULIQUE (BANC DE PR -RÉLAGE 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 3d1)
≤3Um

Coolant
System
AD/B

DIN 69871-SK

Unit : mm

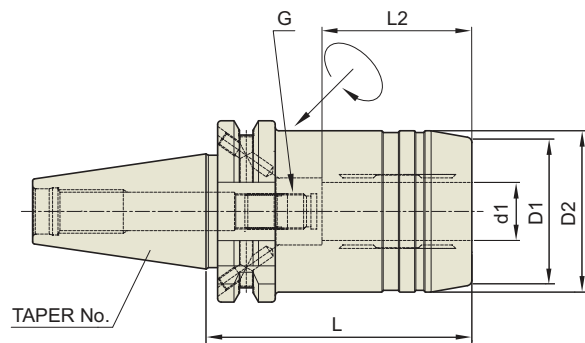
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L 2	Weight (kg)	Stock
30	SK30AD/B-HCR12-85	12	32	44.5	85	40	37	0.90	●
	SK30AD/B-HCR20-85	20	42	44.5	85	-	42	1.00	
40	SK40AD/B-HCR12-80.5	12	32	49.5	80.5	31.5	37	1.50	●
	SK40AD/B-HCR20-80.5	20	42	49.5	80.5	34	42	1.60	●
	SK40AD/B-HCR32-110	32	63	80	110	50	55	2.20	
50	SK50AD/B-HCR12-80.5	12	32	49.5	80.5	31.5	37	3.90	
	SK50AD/B-HCR20-80.5	20	42	49.5	80.5	34	42	4.00	
	SK50AD/B-HCR32-100	32	60	60	100	-	55	4.70	●

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

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

HYDRAULIC CHUCK (SHORT & RIGID)

HYDRAULIK SPANNFUTTER (KURZ, SCHWER)
 MANDRIN HYDRAULIQUE (COURT, ROBUSTE)
 MANDRINI IDRAULICI (CORTO, PESANTE)
 PORTAHERRAMIENTAS HIDRAULICO (CORTO, PESADO)



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

Unit : mm

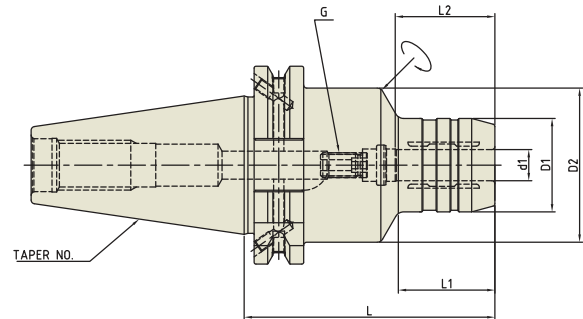
TAPER No.	MODEL No.	d1	D1	D2	L	L 2	G	Weight (kg)	Stock
30	SK30AD/B-HC20S-85	20	41	44	85	42	M10 × 1.0	0.53	●
40	SK40AD/B-HC12S-50	12	32	42	50	37	M8 × 1.0	1.1	●
	SK40AD/B-HC20S-64.5	20	38	49.25	64.5	42	M16 × 1.0	1.26	●
50	SK50AD/B-HC12S-50	12	32	42	50	37	M8 × 1.0	2.8	
	SK50AD/B-HC20S-64.5	20	38	49.5	64.5	42	M16 × 1.0	3.1	
	SK50AD/B-HC32S-81	32	55	72	81	55	M16 × 1.0	4.1	●

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

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

HYDRAULIC CHUCK (SLIM)

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 3d1)
≤3Um

Coolant
System
AD/B

DIN 69871-SK

Unit : mm

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

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

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

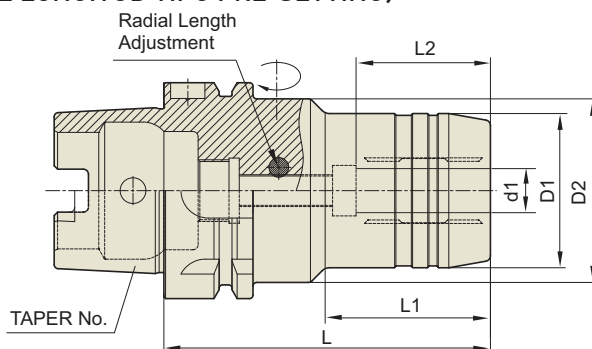
HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)

HYDRAULIK SPANNFUTTER (RADIALE WERKZEUGLÄGEN VOREINSTELLUNG)

MANDRIN HYDRAULIQUE (BANC DE PR -RÉLAGE RADIAL)

MANDRINI IDRAULICI (UTENSILI RADIALI PER AZZERAMENTO)

PORTAHERRAMIENTAS HIDRAULICO (AJUSTE DE LONGITUD TIPO PRE-SETTING)



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

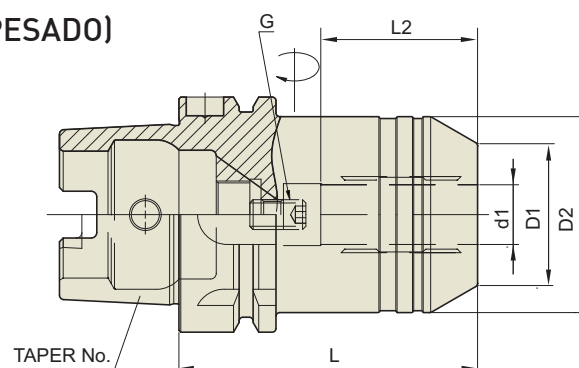
Unit : mm

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

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

HYDRAULIC CHUCK (SHORT & RIGID)

HYDRAULIK SPANNFUTTER (KURZ, SCHWER)
MANDRIN HYDRAULIQUE (COURT, ROBUSTE)
MANDRINI IDRAULICI (CORTO, PESANTE)
PORTAHERRAMIENTAS HIDRAULICO (CORTO, PESADO)

DIN69893-
HSKTaper
AccuracyG Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD

DIN 69893/ISO12164-1-HSK FORM A

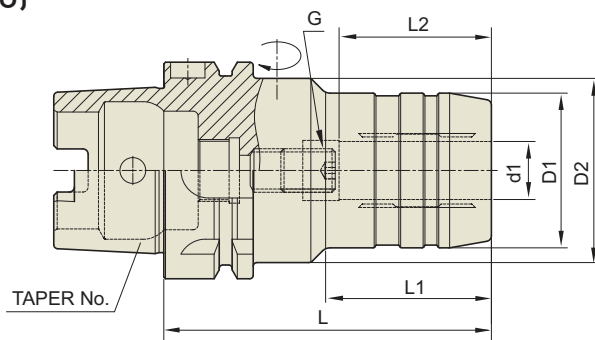
Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L 2	G	Weight (kg)	Stock
63A	HSK63A-HC12S-80	12	32	42	80	37	M8 × 1.0		●
	HSK63A-HC20S-80	20	38	52.5	80	42	M8 × 1.0		●

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

HYDRAULIC CHUCK (SLIM)

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

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

DIN 69893/ISO 12164-1-HSK FORM A

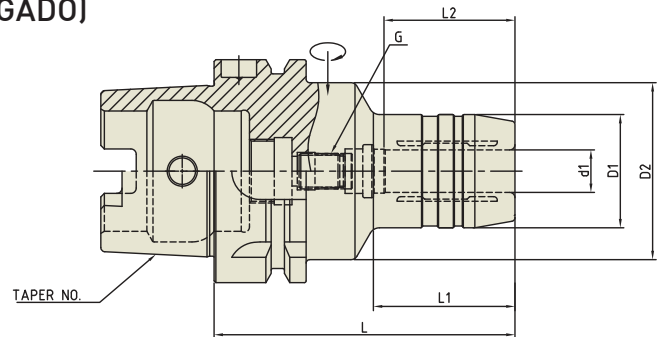
Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L 2	G	Weight (kg)	Stock
32A	HSK32A-HC6-80	6	26	40	80	29	27	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	
50A	HSK50A-HC6-70	6	26	50	70	28	27	M5×0.8	0.65	●
	HSK50A-HC8-70	8	28	50	70	28	27	M6×1.0	0.65	●
	HSK50A-HC10-75	10	30	50	75	34	32	M8×1.0	0.70	●
	HSK50A-HC12-85	12	32	50	85	44	37	M10×1.0	0.75	●
	HSK50A-HC14-85	14	34	50	85	44	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	34	42	M16×1.0	1.00	
63A	HSK63A-HC6-70	6	26	50	70	24	27	M5×0.8	0.53	●
	HSK63A-HC8-70	8	28	50	70	24	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	46	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	●
100A	HSK63A-HC32-125	32	64	75	125	63	55	M16×1.0	2.40	●
	HSK100A-HC6-75	6	26	50	75	24	27	M5×0.8	3.20	
	HSK100A-HC8-75	8	28	50	75	24	27	M6×1.0	3.20	
	HSK100A-HC10-90	10	30	50	90	35	32	M8×1.0	3.40	
	HSK100A-HC12-95	12	32	50	95	40	37	M10×1.0	3.40	
	HSK100A-HC14-95	14	34	50	95	40	37	M10×1.0	3.40	
	HSK100A-HC16-100	16	38	50	100	46	42	M12×1.0	3.50	
	HSK100A-HC18-100	18	40	50	100	46	42	M12×1.0	3.60	
	HSK100A-HC20-105	20	42	50	105	48	42	M16×1.0	4.00	
	HSK100A-HC25-110	25	57	63	110	59	48	M16×1.0	4.20	
	HSK100A-HC32-110	32	64	75	110	63	55	M16×1.0	4.30	

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

HYDRAULIC CHUCK (SLIM)

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


DIN 69893
- HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

Run-Out
(at 3d1)
≤3Um

Coolant
System
AD

DIN69893/ISO12164-1-HSK FORM C

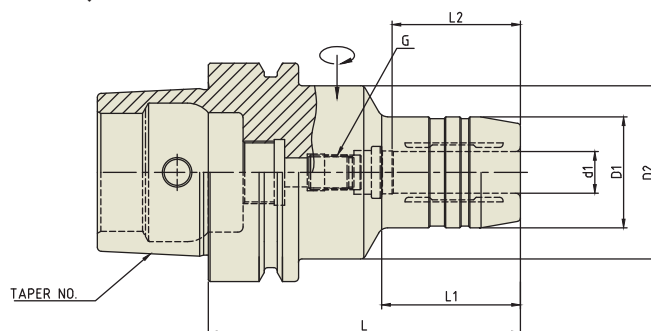
Unit : mm

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

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

HYDRAULIC CHUCK (SLIM)

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

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

DIN69893/ISO12164-1-HSK FORM E & F

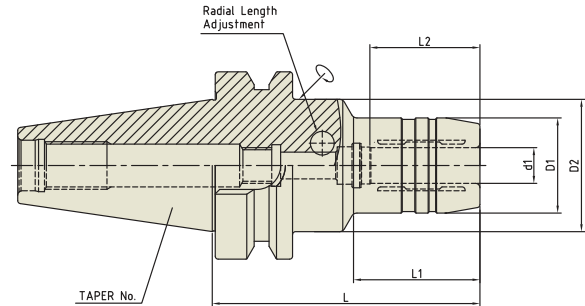
Unit : mm

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

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

HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE) **NEW**

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



CBT

Taper Accuracy
AT3

G Value
2.5

RPM
25,000

Run-Out (at 3d1)
≤3Um

Coolant System
AD

CBT (BT DUAL CONTACT)

Unit : mm

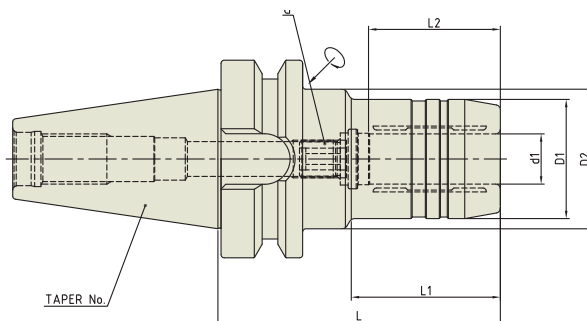
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	Weight (kg)	Stock
30	CBT30-HCR12-85	12	32	44.5	85	40	37	0.90	
	CBT30-HCR20-85	20	44	44	85	-	42	1.00	●
40	CBT40-HCR12-90	12	32	44.5	90	44.5	37	1.50	
	CBT40-HCR20-90	20	42	49.5	90	47.5	42	1.60	●
	CBT40-HCR32-105	32	60	60	105	-	55	2.20	
50	CBT50-HCR12-95	12	32	44.5	95	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	●

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

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

HYDRAULIC CHUCK (SLIM) **NEW**

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



CBT

Taper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD

CBT (BT DUAL CONTACT)

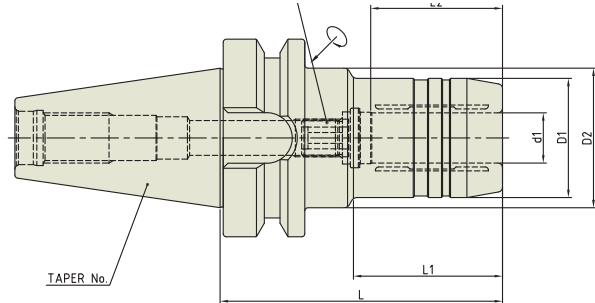
Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
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	44.5	85	40	37	M10x1.0	0.80	●
	CBT30-HC14-85	14	34	44.5	85	40	37	M10x1.0	0.80	
	CBT30-HC16-90	16	38	44.5	90	46	42	M12x1.0	0.90	
	CBT30-HC18-90	18	40	44.5	90	46	42	M12x1.0	0.90	
	CBT30-HC20-90	20	42	44.5	90	48	42	M16x1.0	0.90	●
40	CBT40-HC6-90	6	26	49.5	90	30	27	M5x0.8	1.30	
	CBT40-HC8-90	8	28	49.5	90	30	27	M6x1.0	1.30	
	CBT40-HC10-90	10	30	49.5	90	32	32	M8x1.0	1.35	
	CBT40-HC12-90	12	32	49.5	90	35	37	M10x1.0	1.35	●
	CBT40-HC14-90	14	34	49.5	90	35	37	M10x1.0	1.35	
	CBT40-HC16-90	16	38	49.5	90	40	42	M12x1.0	1.40	
	CBT40-HC18-90	18	40	49.5	90	40	42	M12x1.0	1.45	
	CBT40-HC20-90	20	42	49.5	90	40	42	M16x1.0	1.50	●
	CBT40-HC25-100	25	50	60	100	45	48	M16x1.0	1.70	
	CBT40-HC32-105	32	60	60	105	50	55	M16x1.0	2.10	●

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

HYDRAULIC CHUCK (SLIM) **NEW**

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



CBT

Taper Accuracy
AT3

G Value
2.5

RPM
25,000

Run-Out (at 3d1)
≤3Um

Coolant System
AD

CBT (BT DUAL CONTACT)

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
50	CBT50-HC6-90	6	26	44.5	90	43	27	M5×0.8	3.75	
	CBT50-HC6-120	6	26	44.5	120	43	27	M5×0.8	4.10	
	CBT50-HC6-150	6	26	44.5	150	43	27	M5×0.8	4.70	
	CBT50-HC8-90	8	28	44.5	90	44.5	27	M6×1.0	3.75	
	CBT50-HC8-120	8	28	44.5	120	44.5	27	M6×1.0	4.10	
	CBT50-HC8-150	8	28	44.5	150	44.5	27	M6×1.0	4.10	
	CBT50-HC10-90	10	30	44.5	90	44.5	32	M8×1.0	3.90	
	CBT50-HC10-120	10	30	44.5	120	44.5	32	M8×1.0	4.30	
	CBT50-HC10-150	10	30	44.5	150	44.5	32	M8×1.0	4.90	
	CBT50-HC12-90	12	32	44.5	90	44.5	37	M10×1.0	3.90	●
	CBT50-HC12-120	12	32	44.5	120	44.5	37	M10×1.0	4.30	
	CBT50-HC12-150	12	32	44.5	150	44.5	37	M10×1.0	4.90	
	CBT50-HC14-90	14	34	44.5	90	44.5	37	M10×1.0	3.90	
	CBT50-HC14-120	14	34	44.5	120	44.5	37	M10×1.0	4.30	
	CBT50-HC14-150	14	34	44.5	150	44.5	37	M10×1.0	4.90	
	CBT50-HC16-90	16	38	44.5	90	44.5	42	M12×1.0	4.00	
	CBT50-HC16-120	16	38	44.5	120	44.5	42	M12×1.0	4.40	
	CBT50-HC16-150	16	38	44.5	150	44.5	42	M12×1.0	5.00	
	CBT50-HC18-90	18	40	44.5	90	44.5	42	M12×1.0	4.00	
	CBT50-HC18-120	18	40	44.5	120	44.5	42	M12×1.0	4.40	
	CBT50-HC18-150	18	40	44.5	150	44.5	42	M12×1.0	5.00	
	CBT50-HC20-90	20	42	44.5	90	44.5	42	M16×1.0	4.00	●
	CBT50-HC20-120	20	42	44.5	120	44.5	42	M16×1.0	4.40	
	CBT50-HC20-150	20	42	44.5	150	44.5	42	M16×1.0	5.00	
	CBT50-HC25-105	25	50	60	105	47.5	48	M16×1.0	4.40	
	CBT50-HC25-150	25	50	60	150	47.5	48	M16×1.0	5.60	
	CBT50-HC32-115	32	60	60	115	-	55	M16×1.0	4.70	●
	CBT50-HC32-150	32	60	60	150	-	55	M16×1.0	6.00	

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

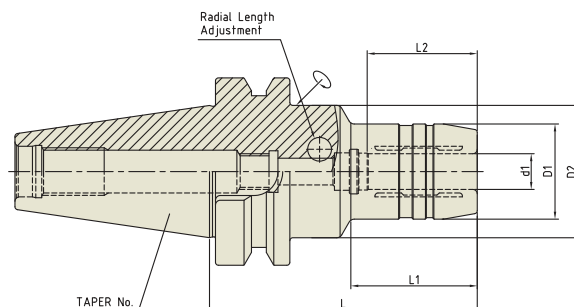
HYDRAULIC CHUCK (RADIAL TOOL LENGTH PRE-SETTING TYPE)

HYDRAULIK SPANNFUTTER (RADIALE WERKZEUGLÄGEN VOREINSTELLUNG)

MANDRIN HYDRAULIQUE (BANC DE PR -RÉLAGE RADIAL)

MANDRINI IDRAULICI (UTENSILI RADIALI PER AZZERAMENTO)

PORTAHERRAMIENTAS HIDRAULICO (AJUSTE DE LONGITUD TIPO PRE-SETTING)

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

JIS B6339/MAS 403-BT

Unit : mm

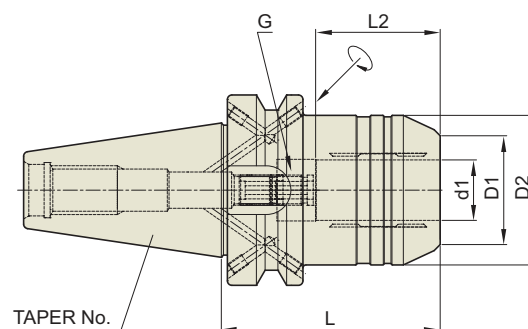
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	Weight (kg)	Stock
30	BT30AD/B-HCR12-85	12	32	44.5	85	40	37	0.90	●
	BT30AD/B-HCR20-85	20	44	44.5	85	-	42	1.00	●
40	BT40AD/B-HCR12-90	12	32	44.5	90	42.5	37	1.50	●
	BT40AD/B-HCR20-90	20	42	44.5	90	42.5	42	1.60	●
	BT40AD/B-HCR32-105	32	60	60	105	-	55	2.20	●
50	BT50AD/B-HCR12-95	12	32	44.5	95	34	37	3.90	●
	BT50AD/B-HCR20-100	20	42	44.5	100	44	42	4.00	●
	BT50AD/B-HCR32-115	32	60	60	115	-	55	4.10	●

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

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

HYDRAULIC CHUCK (SHORT & RIGID)

HYDRAULIK SPANNFUTTER (KURZ, SCHWER)
 MANDRIN HYDRAULIQUE (COURT, ROBUSTE)
 MANDRINI IDRAULICI (CORTO, PESANTE)
 PORTAHERRAMIENTAS HIDRAULICO (CORTO, PESADO)



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

Unit : mm

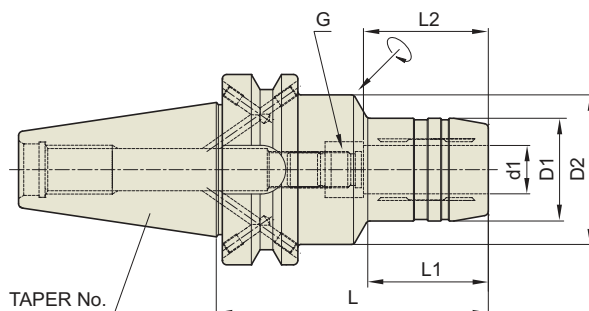
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
30	BT30AD/B-HC20S-85	20	41	44	85	42	M6x1.0	0.93	●
40	BT40AD/B-HC12S-58	12	32	42	58	37	M8x1.0		●
	BT40AD/B-HC20S-72.5	20	38	49.25	72.5	42	M8x1.0	1.40	●
50	BT50AD/B-HC12S-69	12	32	42	69	37	M8x1.0		●
	BT50AD/B-HC20S-90	20	38	49.25	90	42	M8x1.0	3.85	●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

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

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

HYDRAULIC CHUCK (SLIM)

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



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

Unit : mm

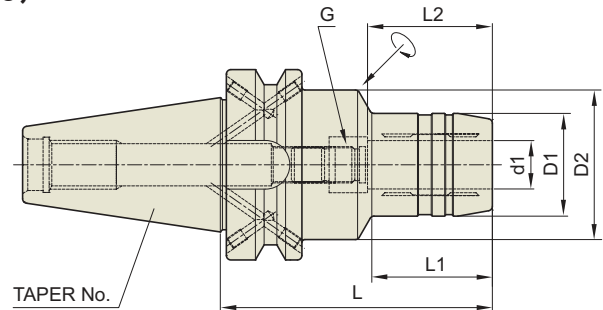
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
30	BT30AD/B-HC6-70	6	26	44.5	70	29.5	27	M5x0.8	0.65	●
	BT30AD/B-HC8-70	8	28	44.5	70	30	27	M6x1.0	0.65	●
	BT30AD/B-HC10-75	10	30	44.5	75	31	32	M8x1.0	0.73	●
	BT30AD/B-HC12-85	12	32	45	85	40	37	M10x1.0	0.80	●
	BT30AD/B-HC14-85	14	34	45	85	40	37	M10x1.0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

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

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

HYDRAULIC CHUCK (SLIM)

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


JIS B6339
- BT

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Run-Out
(at 3d1)
≤3Um

Coolant
System
AD/B

JIS B6339/MAS 403-BT

Unit : mm

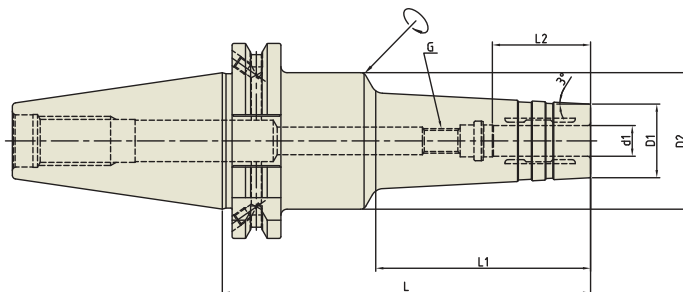
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
50	BT50AD/B-HC6-90	6	26	44.5	90	34	27	M5×0.8	3.75	●
	BT50AD/B-HC6-120	6	26	44.5	120	34	27	M5×0.8	4.10	
	BT50AD/B-HC6-150	6	26	44.5	150	34	27	M5×0.8	4.70	
	BT50AD/B-HC8-90	8	28	44.5	90	34	27	M6×1.0	3.75	●
	BT50AD/B-HC8-120	8	28	44.5	120	34	27	M6×1.0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

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

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

HYDRAULIC CHUCK (For MOULD)

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

DIN 69871
SKTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤30μmCoolant
System
AD/B

DIN 69871-SK

Unit : mm

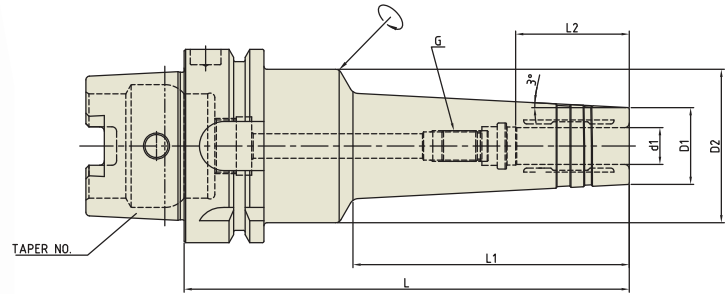
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
40	SK40AD/B-HMC6-120	6	20	49.5	120	70	27	M5×0.8	1.40	
	SK40AD/B-HMC6-150	6	20	49.5	150	100	27	M5×0.8	1.65	●
	SK40AD/B-HMC8-120	8	22	49.5	120	70	27	M6×1.0	1.40	
	SK40AD/B-HMC8-150	8	22	49.5	150	100	27	M6×1.0	1.65	●
	SK40AD/B-HMC10-120	10	24	49.5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

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

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

HYDRAULIC CHUCK (For MOULD)

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


DIN 69893
- HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

Run-Out
(at 3d1)
≤3Um

Coolant
System
AD

DIN 69893/ISO 12164-1-HSK FORM A

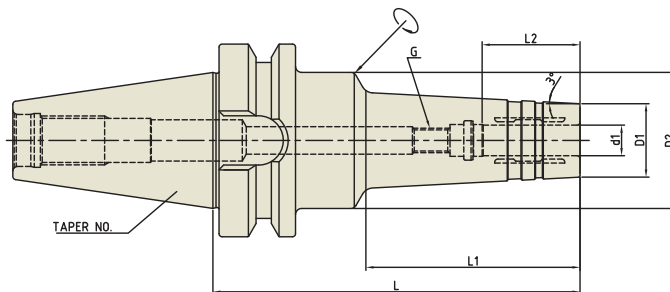
Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
63A	HSK63A-HMC6-145	6	20	50	145	90	27	M5 × 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-HMC16-145	16	32	50	145	90	42	M12 × 1.0	1.45	●
	HSK63A-HMC20-145	20	36	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-HMC16-150	16	32	50	150	90	42	M12 × 1.0	4.70	
	HSK100A-HMC20-150	20	36	50	150	90	42	M16 × 1.0	5.00	●

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

HYDRAULIC CHUCK (For MOULD) **NEW**

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



CBT

Taper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD

CBT (BT DUAL CONTACT)

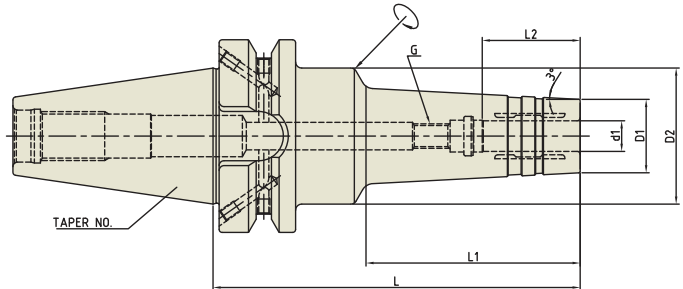
Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
40	CBT40-HMC6-120	6	20	44.5	120	70	27	M5×0.8	1.40	
	CBT40-HMC6-150	6	20	44.5	150	100	27	M5×0.8	1.65	
	CBT40-HMC8-120	8	22	44.5	120	70	27	M6×1.0	1.40	
	CBT40-HMC8-150	8	22	44.5	150	100	27	M6×1.0	1.65	
	CBT40-HMC10-120	10	24	44.5	120	70	32	M8×1.0	1.40	
	CBT40-HMC10-150	10	24	44.5	150	100	32	M8×1.0	1.65	
	CBT40-HMC12-120	12	25	44.5	120	70	37	M10×1.0	1.40	
	CBT40-HMC12-150	12	25	44.5	150	100	37	M10×1.0	1.65	
	CBT40-HMC16-120	16	32	44.5	120	70	42	M12×1.0	1.45	
	CBT40-HMC16-150	16	32	44.5	150	100	42	M12×1.0	1.70	
	CBT40-HMC20-120	20	34	44	120	-	42	M16×1.0	1.50	
	CBT40-HMC20-150	20	34	47	150	-	42	M16×1.0	1.80	
50	CBT50-HMC6-150	6	20	50	150	90	27	M5×0.8	4.70	
	CBT50-HMC8-150	8	22	50	150	90	27	M6×1.0	4.70	
	CBT50-HMC10-150	10	24	50	150	90	32	M8×1.0	4.70	
	CBT50-HMC12-150	12	25	37	150	-	37	M10×1.0	4.70	
	CBT50-HMC16-150	16	32	44	150	-	42	M12×1.0	4.90	
	CBT50-HMC20-150	20	34	46	150	-	42	M16×1.0	5.00	

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

HYDRAULIC CHUCK (For MOULD)

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 3d1)
≤3Um

Coolant
System
AD/B

JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	Weight (kg)	Stock
40	BT40AD/B-HMC6-120	6	20	44.5	120	70	27	M5 × 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-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	43.75	120	-	42	M16 × 1.0	1.50	●
	BT40AD/B-HMC20-150	20	34	47	150	-	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-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	●

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

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

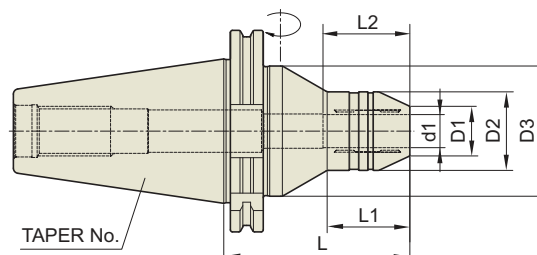
HYDRAULIC CHUCK (For GRINDER)

HYDRAULIK SPANNFUTTER (FÜ SCHLEIFMASCHINE)

MANDRIN HYDRAULIQUE (POUR RECTIFIEUSE)

MANDRINI IDRAULICI (PER RETTIFICATRICI)

PORTAHERRAMIENTAS HIDRAULICO (PARA LA MQUINA DE PULIR)



DIN 69871-SK

Taper Accuracy
AT3

G Value

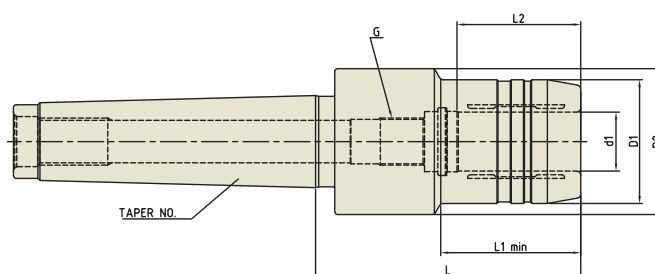
RPM

Run-Out (at 3d1)
≤30μmCoolant System
AD

DIN 69871 - SK

Unit : mm

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



DIN 228-MTB

Unit : mm

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

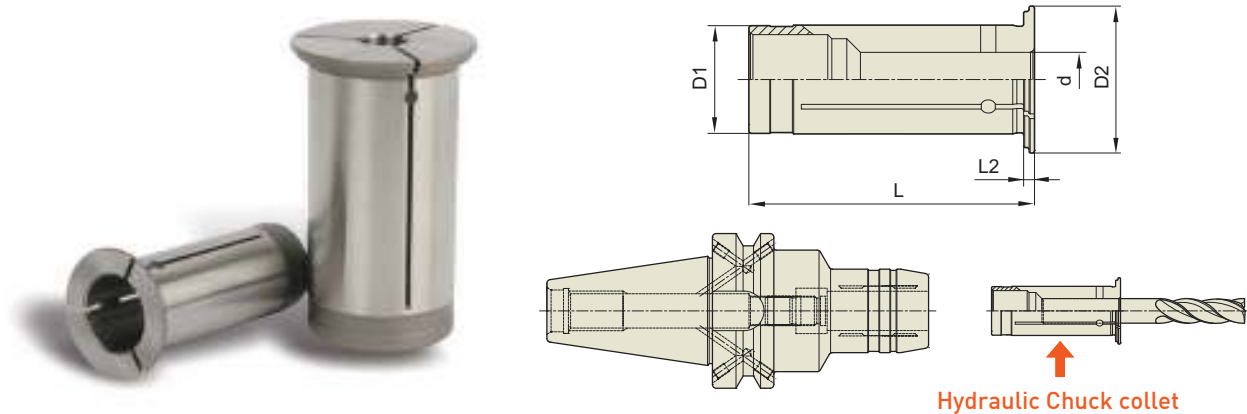
HYDRAULIC CHUCK COLLET (REDUCTION SLEEVE : OPEN TYPE)

HYDRAULIK SPANNFUTTER SPANNZANGE (GESCHLITZTE ZWISCHENBUCHSE)

MANDRIN HYDRAULIQUE PINCE DE SERRAGE (DOUILLE FENDUE)

MANDRINI IDRAULICI PINZA DI SERRAGGIO (BUSSOLA DI RIDUZIONE FESSURATA)

PORTAHERRAMIENTAS HIDRAULICO PINZA PORTAPIEZAS (CASQUILLOS INTERMEDIOS RANURADOS)



Unit : mm

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

► Stock Control Item

► Inch type products are available.

► Other special sizes of Hydraulic Chuck collets could be produced and supplied

► Feature

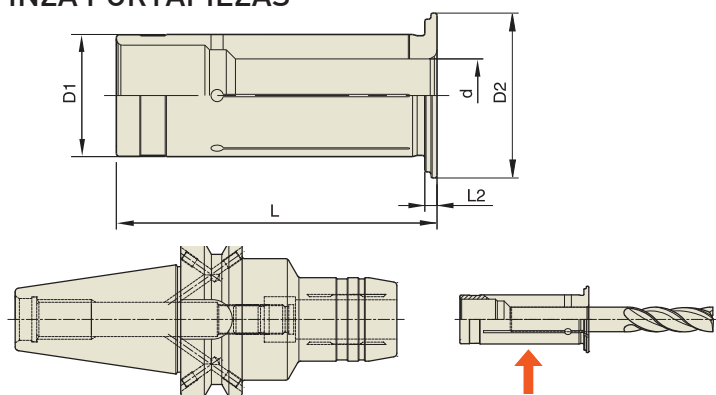
Hydraulic Chuck collet (reduction sleeve) is cut into trisection by high precision cutting to guarantee precise I.D and strong clamping power.

► Chucking Method

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

HYDRAULIC CHUCK COLLET (REDUCTION SLEEVE : CLOSED TYPE)

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	3	12	19	47	2
	4	4	12	19	47	2
	5	5	12	19	47	2
	6	6	12	19	47	2
	7	7	12	19	47	2
	8	8	12	19	47	2
HS20	3	3	20	24	50.5	2
	4	4	20	24	50.5	2
	5	5	20	24	50.5	2
	6	6	20	24	50.5	2
	7	7	20	24	50.5	2
	8	8	20	24	50.5	2
	9	9	20	24	50.5	2
	10	10	20	24	50.5	2
	11	11	20	24	50.5	2
	12	12	20	24	50.5	2
	13	13	20	24	50.5	2
	14	14	20	24	50.5	2
	15	15	20	24	50.5	2
	16	16	20	24	50.5	2
	17	17	20	24	50.5	2
HS32	6	6	32	36	60.5	3
	8	8	32	36	60.5	3
	10	10	32	36	60.5	3
	12	12	32	36	60.5	3
	14	14	32	36	60.5	3
	16	16	32	36	60.5	3
	18	18	32	36	60.5	3
	20	20	32	36	60.5	3
	25	25	32	36	60.5	3

► Stock Control Item

► Inch type products are available.

► Other special sizes of Hydraulic Chuck collets could be produced and supplied

► Feature

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

► Chucking Method

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

SHRINK FIT HOLDER

SCHRUMPFUTTER

MANDRIN DE FRETAGE

MADRINI PER CALLETAMENTO A CALDO

PORTAHERRAMIENTAS DE COMPRESION
POR CALOR

DIN 69871 - SK

DIN 69893/ISO 12164-1 - HSK

CBT (BT DUAL CONTACT)

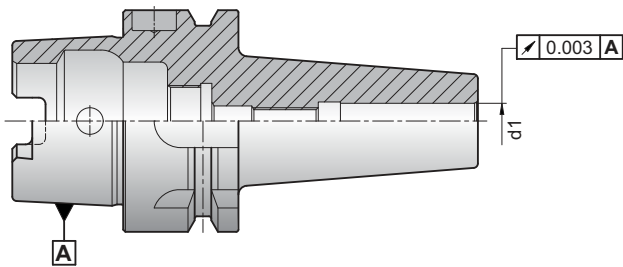
JIS B6339/MAS 403-BT

ISO 26623-CAPTO

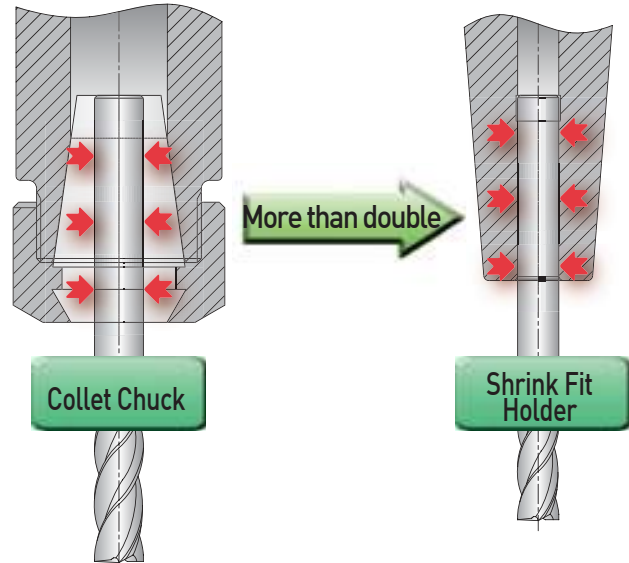
SHRINK FIT HOLDER

➤ Strong and consistent torque power

➤ High Precision ID
Run-out : $\leq 0.003\text{mm}$

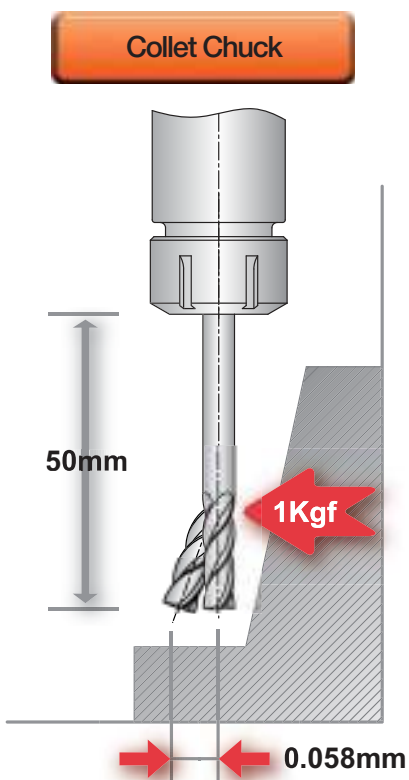


- Less than 0.003mm of Tool Holder accuracy at I.D.

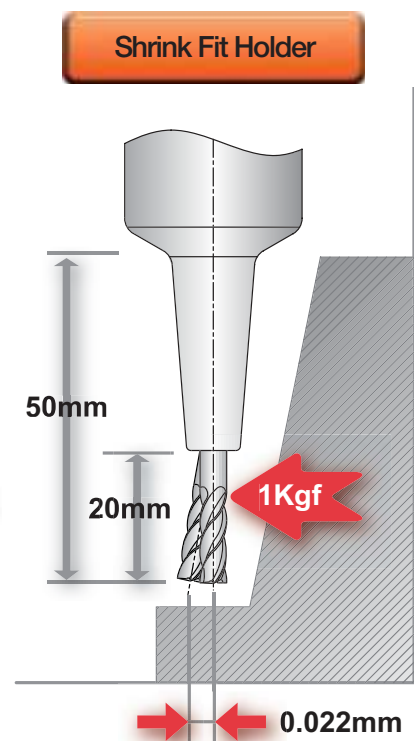


- Achieving strong torque power by integration of chuck and tool

➤ Deep hole Machining

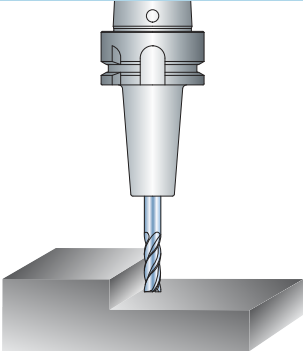
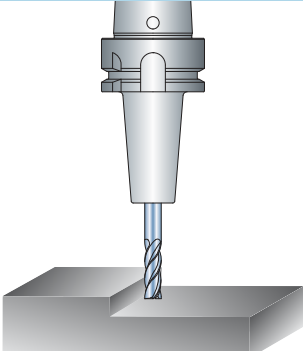
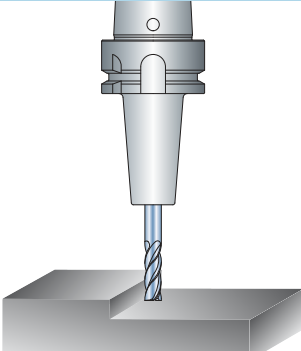
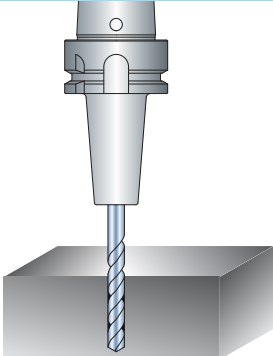
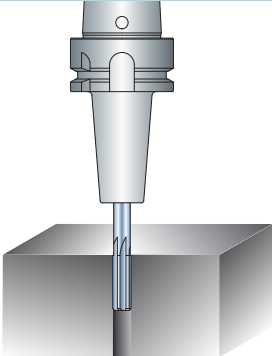
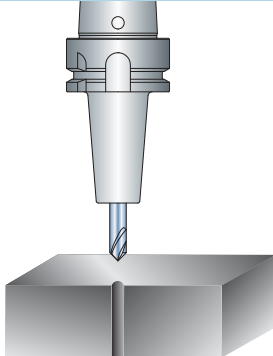


Accuracy difference of deep hole machining is 2.6 times or more



- Suitable for high-speed precision deep hole machining

SHRINK FIT HOLDER

APPLICATION		
Rough Milling	Finish Milling	High Speed Cutting
		
Drilling	Reaming	Countersinking
		

Shank type of cutting tool

Straight shank



One weldon flat shaft type



- One Weldon flat shaft type tool is usable, but there is possibility that ID of shrink fit holder may be deformed.

Material of cutting tool

**CARBIDE
TOOL**

HSS TOOL

OK

NO

SHRINK FIT HOLDER

SHRINK FIT HEATING MACHINE

FEATURE

- ▶ Power output : Maximum 45W output
- ▶ Auto feedback system : Automatic frequency adjustment function depending on holder material
- ▶ Electronic Transformer with regulation
- ▶ Detecting circuit of suspending

SPECIFICATION

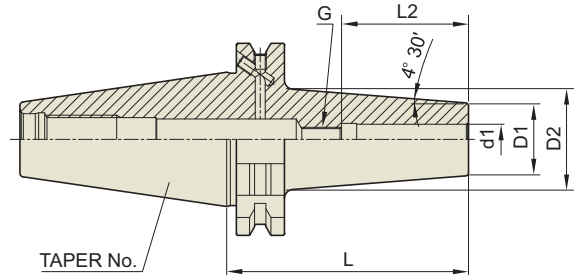
Heating	Induction
Power	220V AC ,50/60Hz
Rated Ampere	20A Consumption 4KW
Dimension	292 x 300 x 610mm
Shrinking Time	5~16 sec
Induction Head ID	35 min.
Holder Support	SK , HSK, BT

Cooling Unit	Induction
Power	220VAC 50/60Hz
Operation Air pressure range	2~5kgf/cm2
time	0~10 min.



SHRINK FIT HOLDER

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.) ≤3Um	Coolant System
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DIN 69871-SK

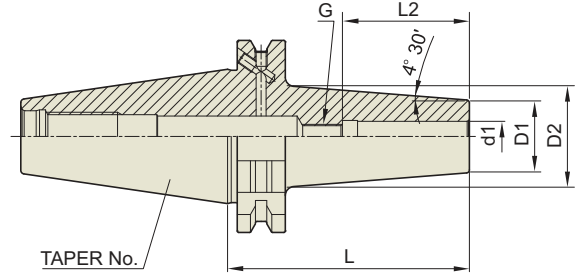
Unit : mm

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

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

SHRINK FIT HOLDER

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.) ≤3Um	Coolant System AD/B
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DIN 69871-SK

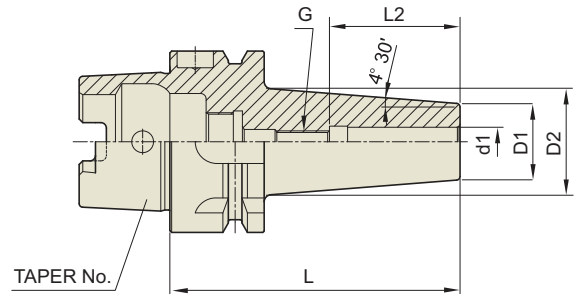
Unit : mm

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

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

SHRINK FIT HOLDER

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

DIN 69893
- HSKTaper
Accuracy

G Value

2.5

RPM

25,000

Run-Out
(I.D.)≤3U_mCoolant
System

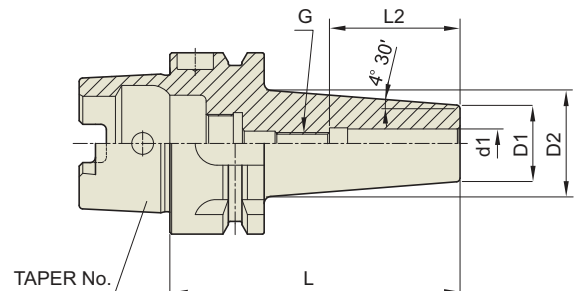
AD

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
40A	HSK40A-SFH3-60	3	11	21	60	14	-	0.30	●
	HSK40A-SFH3-80	3	11	21	80	14	-	0.40	
	HSK40A-SFH4-60	4	11	21	60	17	-	0.30	●
	HSK40A-SFH4-80	4	11	21	80	17	-	0.40	
	HSK40A-SFH5-60	5	13	23	60	23	-	0.30	
	HSK40A-SFH5-80	5	13	23	80	23	-	0.40	
	HSK40A-SFH6-60	6	21	27	60	36	M5×0.8	0.40	
	HSK40A-SFH6-80	6	21	27	80	36	M5×0.8	0.50	●
	HSK40A-SFH8-70	8	21	27	70	36	M6×1.0	0.40	
	HSK40A-SFH8-90	8	21	27	90	36	M6×1.0	0.50	
	HSK40A-SFH10-70	10	24	32	70	42	M8×1.0	0.50	●
	HSK40A-SFH10-90	10	24	32	90	42	M8×1.0	0.60	

► Without balancing screw.



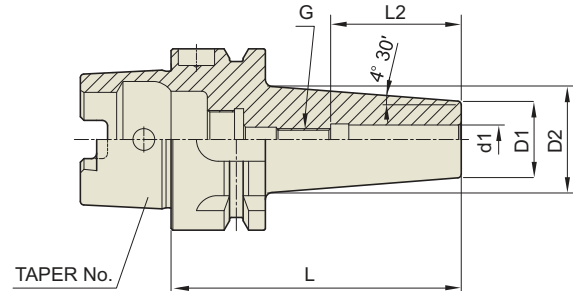
DIN 69893/ISO 12164-1-HSK FORM E

Unit : mm

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

SHRINK FIT HOLDER

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

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

DIN 69893/ISO 12164-1-HSK FORM A

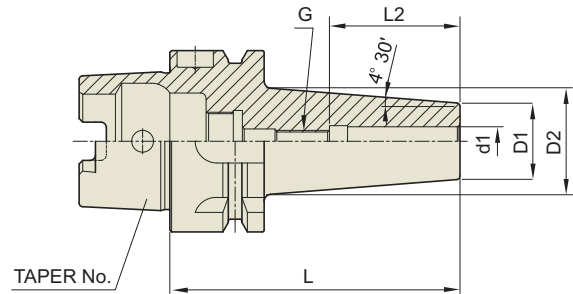
Unit : mm

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

► Without balancing screw.

SHRINK FIT HOLDER

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


DIN 69893
- HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

Run-Out
(I.D)
≤3Um

Coolant
System
AD

DIN 69893/ISO 12164-1-HSK FORM A

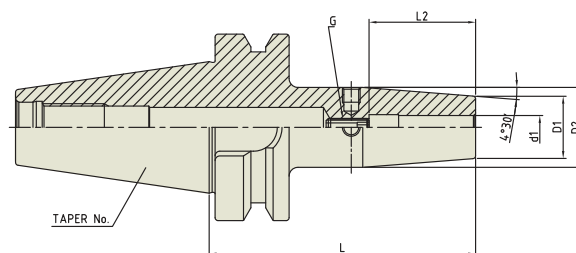
Unit : mm

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

▶ Without balancing screw.

SHRINK FIT HOLDER **NEW**

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



CBT

Taper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(I.D.)
≤3UmCoolant
System
AD

CBT (BT DUAL CONTACT)

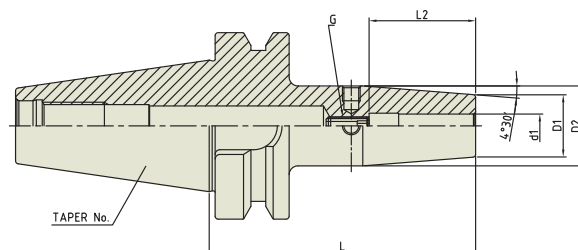
Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
30	CBT30-SFH3-60	3	11	21	60	14	-	0.40	
	CBT30-SFH4-60	4	11	21	60	17	-	0.40	
	CBT30-SFH5-60	5	13	23	60	23	-	0.40	
	CBT30-SFH6-60	6	21	27	60	36	M5×0.8	0.40	
	CBT30-SFH8-60	8	21	27	60	36	M6×1.0	0.40	
	CBT30-SFH10-80	10	24	32	80	42	M8×1.0	0.40	
	CBT30-SFH12-80	12	24	32	80	47	M10×1.0	0.42	
	CBT30-SFH14-80	14	27	34	80	47	M10×1.0		
	CBT30-SFH16-80	16	27	34	80	50	M12×1.0	0.42	
	CBT30-SFH18-80	18	33	42	80	50	M12×1.0		
	CBT30-SFH20-90	20	33	42	90	52	M16×1.0	0.44	
40	CBT40-SFH3-90	3	11	21	90	14	-	1.00	●
	CBT40-SFH4-90	4	11	21	90	17	-	1.00	●
	CBT40-SFH5-90	5	13	23	90	23	-	1.00	●
	CBT40-SFH6-90	6	21	27	90	36	M5×0.8	1.10	●
	CBT40-SFH6-160	6	21	27	160	36	M5×0.8	1.15	
	CBT40-SFH8-90	8	21	27	90	36	M6×1.0	1.11	●
	CBT40-SFH8-160	8	21	27	160	36	M6×1.0	1.15	
	CBT40-SFH10-90	10	24	32	90	42	M8×1.0	1.10	●
	CBT40-SFH10-160	10	24	32	160	42	M8×1.0	1.15	
	CBT40-SFH12-90	12	24	32	90	47	M10×1.0	1.10	●
	CBT40-SFH12-160	12	24	32	160	47	M10×1.0	1.15	
	CBT40-SFH14-90	14	27	34	90	47	M10×1.0	1.20	
	CBT40-SFH14-160	14	27	34	160	47	M10×1.0	1.50	
	CBT40-SFH16-90	16	27	34	90	50	M12×1.0	1.20	
	CBT40-SFH16-160	16	27	34	160	50	M12×1.0	1.50	
	CBT40-SFH18-90	18	33	42	90	50	M12×1.0	1.30	
	CBT40-SFH18-160	18	33	42	160	50	M12×1.0	1.60	
	CBT40-SFH20-90	20	33	42	90	52	M16×1.0	1.40	●
	CBT40-SFH20-160	20	33	42	160	52	M16×1.0	1.70	
	CBT40-SFH25-100	25	44	53	100	58	M16×1.0	1.70	●
	CBT40-SFH25-160	25	44	53	160	58	M16×1.0	2.00	

► Without balancing screw.

SHRINK FIT HOLDER **NEW**

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



CBT

Taper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(I.D.)
≤3UmCoolant
System
AD

CBT (BT DUAL CONTACT)

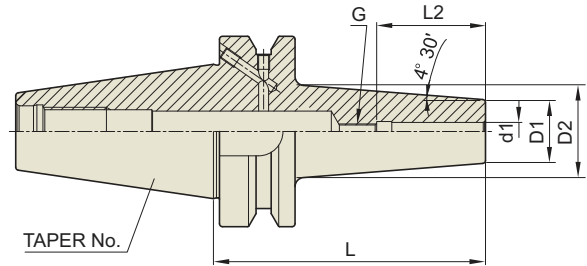
Unit : mm

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
50	CBT50-SFH3-100	3	11	21	100	14	-	1.50	
	CBT50-SFH4-100	4	11	21	100	17	-	1.50	
	CBT50-SFH5-100	5	13	23	100	23	-	1.50	
	CBT50-SFH6-100	6	21	27	100	36	M5 × 0.8	1.50	
	CBT50-SFH6-160	6	21	27	160	36	M5 × 0.8	2.00	
	CBT50-SFH8-100	8	21	27	100	36	M6 × 1.0	1.50	
	CBT50-SFH8-160	8	21	27	160	36	M6 × 1.0	2.00	
	CBT50-SFH10-100	10	24	32	100	42	M8 × 1.0	1.50	
	CBT50-SFH10-160	10	24	32	160	42	M8 × 1.0	2.00	
	CBT50-SFH12-100	12	24	32	100	47	M10 × 1.0	1.50	
	CBT50-SFH12-160	12	24	32	160	47	M10 × 1.0	2.00	
	CBT50-SFH14-100	14	27	34	100	47	M10 × 1.0	1.60	
	CBT50-SFH14-160	14	27	34	160	47	M10 × 1.0	2.10	
	CBT50-SFH16-100	16	27	34	100	50	M12 × 1.0	1.60	
	CBT50-SFH16-160	16	27	34	160	50	M12 × 1.0	2.10	
	CBT50-SFH18-100	18	33	42	100	50	M12 × 1.0	1.60	
	CBT50-SFH18-160	18	33	42	160	50	M12 × 1.0	2.00	
	CBT50-SFH20-100	20	33	42	100	52	M16 × 1.0	1.80	
	CBT50-SFH20-160	20	33	42	160	52	M16 × 1.0	2.20	
	CBT50-SFH25-100	25	44	53	100	58	M16 × 1.0	2.00	
	CBT50-SFH25-160	25	44	53	160	58	M16 × 1.0	2.40	

► Without balancing screw.

SHRINK FIT HOLDER

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

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

JIS B6339/MAS 403-BT

Unit : mm

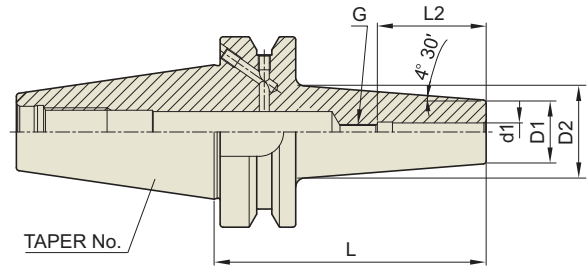
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
30	BT30AD/B-SFH3-60	3	11	21	60	14	-	0.40	
	BT30AD/B-SFH4-60	4	11	21	60	17	-	0.40	
	BT30AD/B-SFH5-60	5	13	23	60	23	-	0.40	
	BT30AD/B-SFH6-60	6	21	27	60	36	M5×0.8	0.40	
	BT30AD/B-SFH8-60	8	21	27	60	36	M6×1.0	0.40	
	BT30AD/B-SFH10-80	10	24	32	80	42	M8×1.0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

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

▶ Without balancing screw.

SHRINK FIT HOLDER

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)
≤3Um

Coolant
System
AD/B

JIS B6339/MAS 403-BT

Unit : mm

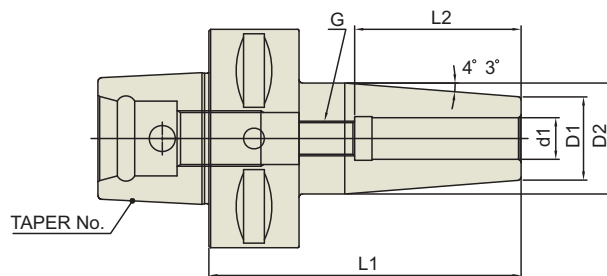
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	Weight (kg)	Stock
50	BT50AD/B-SFH3-100	3	11	21	100	14	-	1.50	
	BT50AD/B-SFH4-100	4	11	21	100	17	-	1.50	
	BT50AD/B-SFH5-100	5	13	23	100	23	-	1.50	
	BT50AD/B-SFH6-100	6	21	27	100	36	M5×0.8	1.50	
	BT50AD/B-SFH6-160	6	21	27	160	36	M5×0.8	2.00	
	BT50AD/B-SFH8-100	8	21	27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

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

► Without balancing screw.

SHRINK FIT HOLDER **NEW**

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



ISO 26623 - CAPTO	Taper Accuracy	G Value 6.3	RPM 15,000	Run-Out (I.D) ≤3Um	Coolant System AD
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ISO 26623-CAPTO (POLYGONAL SHANK)

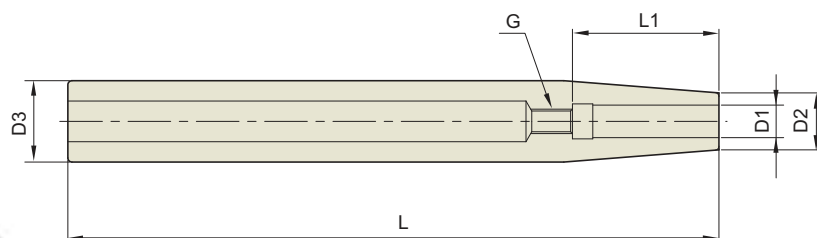
Unit : mm

TAPER No.	Model No.	d1	D	D1	D2	L1	L2	G	Weight (kg)	Stock
PSG3	PSG3-SFH4-60	4	32	11	21	60	17	-		
	PSG3-SFH5-60	5	32	13	23	60	23	-		
	PSG3-SFH6-60	6	32	21	27	60	36	M5×0.8		
	PSG3-SFH8-60	8	32	21	27	60	36	M6×1.0		
	PSG3-SFH10-80	10	32	24	32	80	41	M8×1.0		
	PSG3-SFH12-80	12	32	24	32	80	47	M10×1.0		
PSG4	PSG4-SFH4-70	4	40	20	21	70	17	-		
	PSG4-SFH5-70	5	40	20	23	70	23	-		
	PSG4-SFH6-70	6	40	24	27	70	36	M5×0.8		
	PSG4-SFH8-70	8	40	24	27	70	36	M6×1.0		
	PSG4-SFH10-70	10	40	20	32	70	42	M8×1.0		
	PSG4-SFH12-70	12	40	27	32	70	47	M10×1.0		
	PSG4-SFH16-70	16	40	24	34	70	50	M12×1.0		
PSG5	PSG5-SFH5-80	5	40	20	23	80	23	-		
	PSG5-SFH6-80	6	40	24	27	80	36	M5×0.8		
	PSG5-SFH8-80	8	40	24	27	80	36	M6×1.0		
	PSG5-SFH10-85	10	40	20	32	85	42	M8×1.0		
	PSG5-SFH12-90	12	40	27	32	90	47	M10×1.0		
	PSG5-SFH16-95	16	40	24	34	95	50	M12×1.0		
PSG6	PSG6-SFH6-80	6	40	24	27	80	58	M5×0.8		
	PSG6-SFH8-80	8	40	24	27	80	58	M6×1.0		
	PSG6-SFH10-85	10	40	20	32	85	63	M8×1.0		
	PSG6-SFH12-90	12	40	27	32	90	63	M10×1.0		
	PSG6-SFH16-95	16	40	24	34	95	63	M12×1.0		
	PSG6-SFH20-100	20	40	33	42	100	73	M16×1.0		
PSG8	PSG8-SFH12-90	12	40	27	32	90	63	M10×1.0		
	PSG8-SFH16-95	16	40	24	34	95	63	M12×1.0		
	PSG8-SFH20-95	20	40	33	42	95	68	M16×1.0		
	PSG8-SFH25-100	25	40	33	42	100	73	M16×1.0		
	PSG8-SFH32-100	32	80	44	53	100	70	M16×1.0		

▶ Without balancing screw.

SHRINK FIT HOLDER (EXTENSION)

SCHRUMPFUTTER (VERLÄGERUNG)
MANDRIN DE FRETTAGE (EXTENSION)
MADRINI PER CALLETAMENTO A CALDO (PROLUNGHE)
PORTAHERRAMIENTAS DE COMPRESION POR CALOR (EXTENSION)



STANDARD

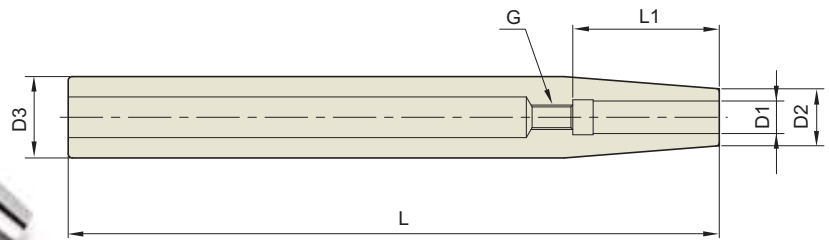
Unit : mm

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

► Inch type products are available.

SHRINK FIT HOLDER (EXTENSION)

SCHRUMPFUTTER (VERLÄGERUNG)
MANDRIN DE FRETTAGE (EXTENSION)
MADRINI PER CALLETAMENTO A CALDO (PROLUNGHE)
PORTAHERRAMIENTAS DE COMPRESION POR CALOR (EXTENSION)



EXTENDED

Unit : mm

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

► Inch type products are available.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER

MANDRIN À PINCES - ER

MANDRINO PORTA PINZE - ER

PORTAPINZAS - ER

DIN 69871-SK

DIN 69893/ISO 12164-1-HSK

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT

ISO 26623 - CAPTO

DIN 228-MTA/MTB

STRAIGHT-K

NC and R8

ACCESSORY & PART

ER COLLET

TAP ER COLLET

ER NUT & SEALING DISK

SPANNER

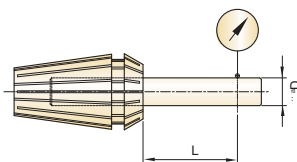
ER COLLET CHUCK

FEATURES

- 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.

HIGH PRECISION

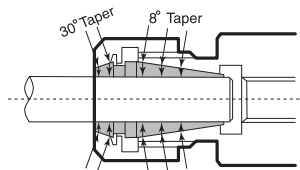
- Highest precision
 - By using high precision collet, excellent TIR can be achievable.
- With fine cutting of 16 sections, it has excellent contractile force, which makes higher precision can be achieved.



D	L
Ø1~Ø1.6	6
Ø1.6~Ø3	10
Ø3~Ø6	16
Ø6~Ø10	25
Ø10~Ø18	40
Ø18~Ø26	50
Ø26~Ø34	60

STRONG TORQUE POWER

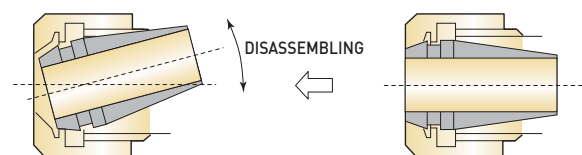
- Longer clamping part of double taper collet provides stronger torque power.
- Stronger torque power can be achieved if ball bearing nut is used.



EASY ASSEMBLING AND DISASSEMBLING

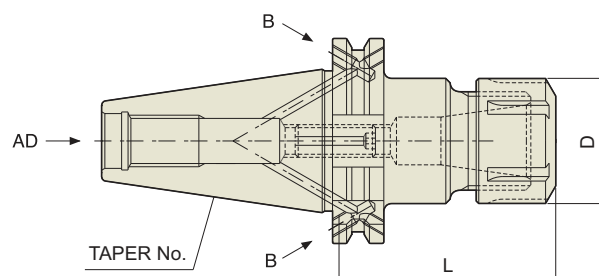
- For assembling or disassembling of collet, first gently insert groove part of collet into eccentric portion inside nut, and fasten it to same direction as screw or loosen it reversely.

Notice : In case of Ø12.2mm tool, don't use Ø12~11 collet.
But use collet with Ø12.5~11.5mm. (In case of general cutting process, Ø13~12mm collet is usable.



ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER


ER Collet
Chuck

DIN 69871-SK

■ STANDARD

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

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

■ EXTENDED

Unit : mm

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

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

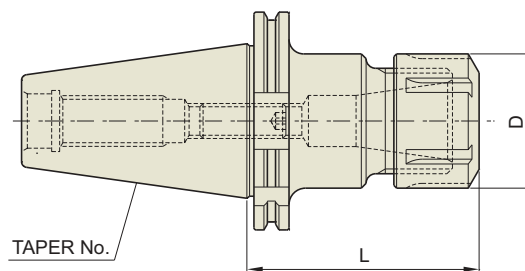
► For applicable ER collet, please refer to page 79~82

► For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



DIN 69871-SK

■ STANDARD

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

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

■ EXTENDED

Unit : mm

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

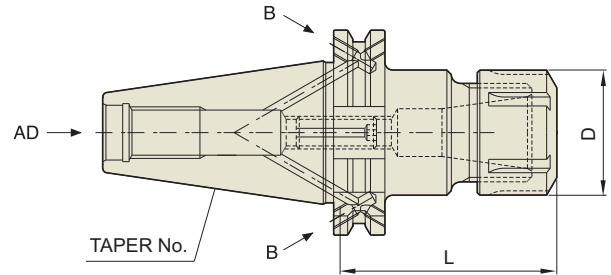
► CAT(ANSI B5.50) taper and Inch type products are available.

► For applicable ER collet, please refer to page 79~82

► For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



ER Collet
Chuck

DIN 69871-SK

■ STANDARD

DIN 69871
- SK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD/B

Unit : mm

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

■ EXTENDED

Unit : mm

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

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

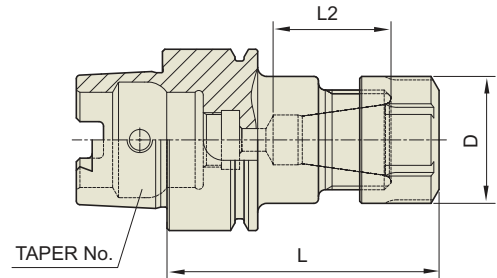
▶ For applicable ER collet, please refer to page 79~82

▶ For applicable ER nut, Sealing disk and Spanner, please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



DIN 69893/ISO 12164-1-HSK FORM A

Standard Type

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

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

Slim Type

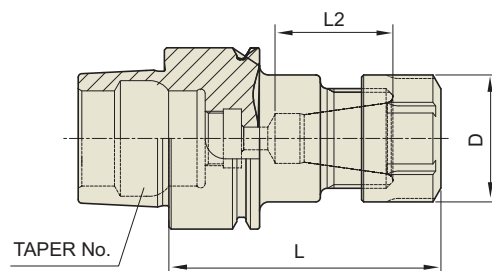
Unit : mm

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

- ▶ For applicable ER collet, please refer to page 79~82
- ▶ For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER


ER Collet
Chuck

DIN 69893/ISO 12164-1-HSK FORM E

■ Standard Type

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

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

■ Slim Type

Unit : mm

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

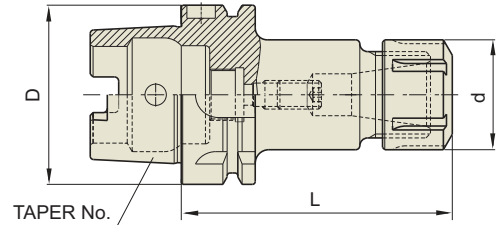
► For applicable ER collet, please refer to page 79~82

► For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



DIN 69893
- HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

Coolant
System
AD

DIN 69893/ISO 12164-1-HSK FORM A

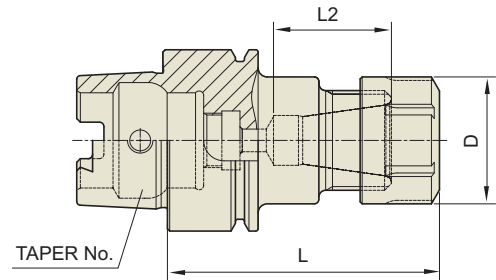
Unit : mm

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

- For applicable ER collet, please refer to page 79~82
- For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



ER Collet
Chuck

DIN 69893/ISO 12164-1-HSK FORM A

■ Standard Type

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

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

■ Slim Type

Unit : mm

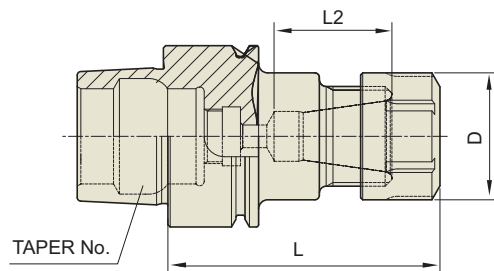
TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
32A	HSK32A-ER8M-40	0.5 ~ 5.0	12	40	13	ERM8/ER8		
	HSK32A-ER11M-40	0.5 ~ 7.0	16	40	22	ERM11/ER11		
	HSK32A-ER16M-60	0.5 ~ 10.0	22	60	26	ERM16/ER16		
	HSK32A-ER20M-60	1.0 ~ 13.0	28	60	33	ERM20/ER20		
40A	HSK40A-ER11M-75	0.5 ~ 7.0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

- ▶ For applicable ER collet, please refer to page 79~82
- ▶ For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



DIN 69893/ISO 12164-1-HSK FORM E

Standard Type

DIN 69893
- HSK

Taper
Accuracy

G Value
6.3

RPM
15,000

Coolant
System
AD

Unit : mm

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

Slim Type

Unit : mm

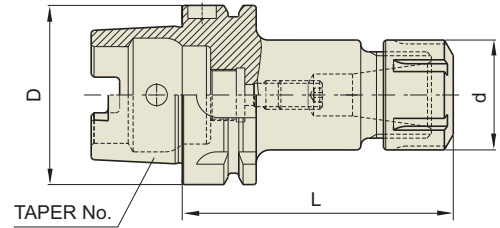
TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	Weight (kg)	Stock
32E	HSK32E-ER8M-40	0.5 ~ 5.0	12	40	13	ERM8/ER8		
	HSK32E-ER11M-40	0.5 ~ 7.0	16	40	22	ERM11/ER11		
	HSK32E-ER16M-60	0.5 ~ 10.0	22	60	26	ERM16/ER16		
	HSK32E-ER20M-60	1.0 ~ 13.0	28	60	33	ERM20/ER20		
40E	HSK40E-ER11M-75	0.5 ~ 7.0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

► For applicable ER collet, please refer to page 79~82

► For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



ER Collet
Chuck

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

Unit : mm

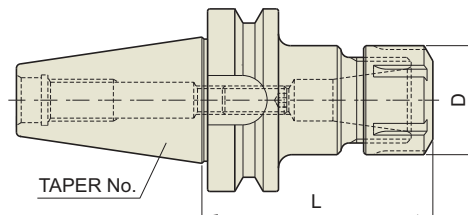
TAPER No.	MODEL No.	CLAMPING RANGE	d	D	L	NUT / COLLET	Weight (kg)	Stock
50A	HSK 50A-ER16-100	0.5-10	28	50	100	ER16	0.70	
	HSK 50A-ER20-100	1-13	35	50	100	ER20	0.90	
	HSK 50A-ER25-100	1-16	42	50	100	ER25	1.20	
	HSK 50A-ER32-100	2-20	50	50	100	ER32	1.50	
63A	HSK 63A-ER16-100	0.5-10	28	63	100	ER16	1.20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

- For applicable ER collet, please refer to page 79~82
- For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK **NEW**

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



CBT

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant
System
AD

CBT (BT DUAL CONTACT)

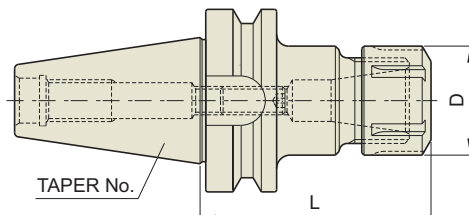
Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
30	CBT30-ER11-70	0.5~7.0	19	70	ER11	0.5	
	CBT30-ER11-100	0.5~7.0	19	100	ER11	0.5	
	CBT30-ER16-70	0.5~10.0	28	70	ER16	1.0	●
	CBT30-ER16-100	0.5~10.0	28	100	ER16	1.1	
	CBT30-ER20-80	1.0~13.0	34	80	ER20	1.2	●
	CBT30-ER20-100	1.0~13.0	34	100	ER20	1.3	
	CBT30-ER25-70	1.0~16.0	42	70	ER25	1.2	●
	CBT30-ER25-100	1.0~16.0	42	100	ER25	1.3	
	CBT30-ER32-60	2.0~20.0	50	60	ER32	1.4	●
	CBT30-ER32-90	2.0~20.0	50	90	ER32	1.9	
40	CBT40-ER11-75	0.5~7.0	19	75	ER11	1.0	
	CBT40-ER11-100	0.5~7.0	19	100	ER11	1.1	
	CBT40-ER16-75	0.5~10.0	28	75	ER16	1.1	
	CBT40-ER16-100	0.5~10.0	28	100	ER16	1.2	●
	CBT40-ER16-120	0.5~10.0	28	120	ER16	1.4	
	CBT40-ER20-75	1.0~13.0	34	75	ER20	1.4	
	CBT40-ER20-100	1.0~13.0	34	100	ER20	1.8	●
	CBT40-ER20-135	1.0~13.0	34	135	ER20	2.2	
	CBT40-ER25-75	1.0~16.0	42	75	ER25	1.4	
	CBT40-ER25-100	1.0~16.0	42	100	ER25	1.8	●
	CBT40-ER25-135	1.0~16.0	42	135	ER25	2.2	
	CBT40-ER25-150	1.0~16.0	42	150	ER25	2.4	
	CBT40-ER32-60	2.0~20.0	50	60	ER32	1.8	
	CBT40-ER32-100	2.0~20.0	50	100	ER32	2.2	●
	CBT40-ER32-120	2.0~20.0	50	120	ER32	2.4	
	CBT40-ER32-150	2.0~20.0	50	150	ER32	2.6	
	CBT40-ER40-80	3.0~30.0	63	80	ER40	1.5	

- ▶ For applicable ER collet, please refer to page 79~82
- ▶ For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK **NEW**

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



ER Collet
Chuck

CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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CBT (BT DUAL CONTACT)

Unit : mm

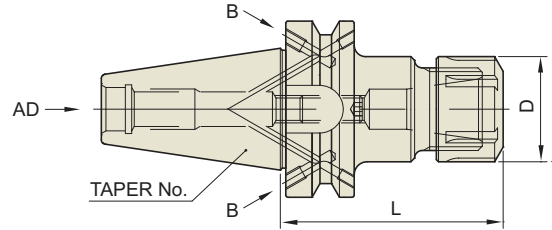
TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
50	CBT50-ER16-100	0.5~10.0	28	100	ER16	4.2	
	CBT50-ER16-120	0.5~10.0	28	120	ER16	4.4	
	CBT50-ER16-165	0.5~10.0	28	165	ER16	4.6	
	CBT50-ER20-100	1.0~13.0	34	100	ER20	4.6	
	CBT50-ER20-135	1.0~13.0	34	135	ER20	4.8	
	CBT50-ER20-165	1.0~13.0	34	165	ER20	5.0	
	CBT50-ER25-100	1.0~16.0	42	100	ER25	4.7	
	CBT50-ER25-135	1.0~16.0	42	135	ER25	4.8	
	CBT50-ER25-165	1.0~16.0	42	165	ER25	5.0	
	CBT50-ER32-100	2.0~20.0	50	100	ER32	5.2	
	CBT50-ER32-135	2.0~20.0	50	135	ER32	5.7	
	CBT50-ER32-165	2.0~20.0	50	165	ER32	5.8	
	CBT50-ER40-100	3.0~30.0	63	100	ER40	5.6	
	CBT50-ER40-150	3.0~30.0	63	150	ER40	6.1	
	CBT50-ER50-100	12.0~34.0	78	100	ER50	5.8	
	CBT50-ER50-150	12.0~34.0	78	150	ER50	6.3	

- For applicable ER collet, please refer to page 79~82
- For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant
System
AD/B

JIS B6339 (MAS 403)-BT

Unit : mm

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

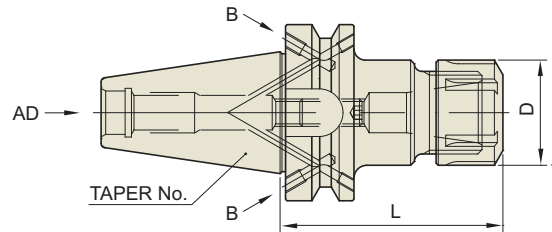
► CAT(ANSI B5.50) taper and Inch type products are available.

► For applicable ER collet, please refer to page 79~82

► For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER


ER Collet
Chuck

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

Unit : mm

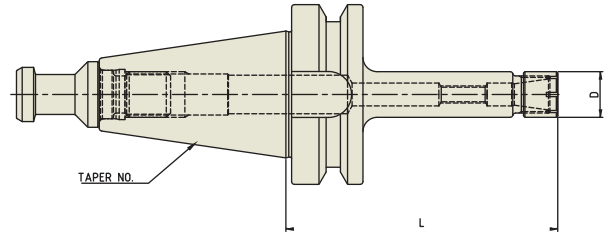
TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
50	BT50AD/B-ER16-100	0.5~10.0	28	100	ER16	4.2	
	BT50AD/B-ER16-120	0.5~10.0	28	120	ER16	4.4	
	BT50AD/B-ER16-165	0.5~10.0	28	165	ER16	4.6	
	BT50AD/B-ER20-100	1.0~13.0	34	100	ER20	4.6	
	BT50AD/B-ER20-135	1.0~13.0	34	135	ER20	4.8	
	BT50AD/B-ER20-165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

- ▶ CAT(ANSI B5.50) taper and Inch type products are available.
- ▶ For applicable ER collet, please refer to page 79~82.
- ▶ For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK **NEW**

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



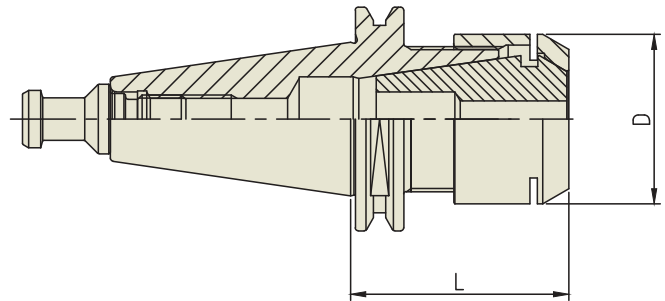
JIS B6339 - BT	Taper Accuracy AT3	G Value TBD	RPM TBD	Coolant System AD
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JBS 4002-TP (SLIM TYPE)

Unit : mm

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

- ▶ To be supplied with assembling of pull stud bolt.
- ▶ For determining balancing grade to be applied, separate discussion is needed.
- ▶ For applicable ER collet, please refer to page 79~82.
- ▶ For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.



ISO20/25	Taper Accuracy AT3	G Value 2.5	RPM 40,000	Coolant System AD
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ISO20/25 (SLIM TYPE)

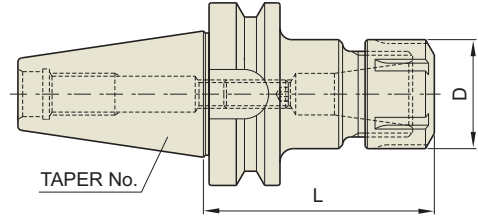
Unit : mm

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

- ▶ To be supplied with assembling of pull stud bolt.
- ▶ For applicable ER collet, please refer to page 79~82
- ▶ For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



ER Collet
Chuck

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

Unit : mm

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

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

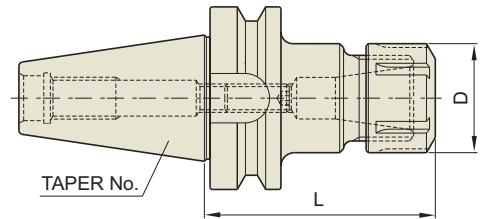
► For applicable ER collet, please refer to page 79~82

► For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

JIS B6339/MAS 403-BT

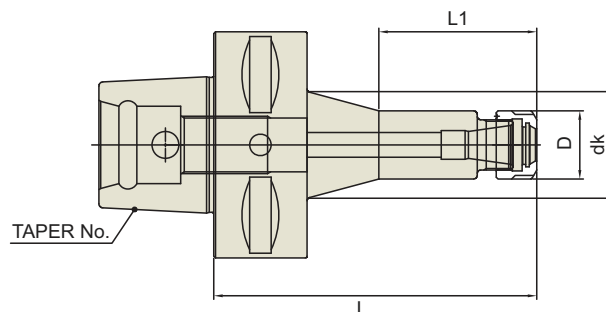
Unit : mm

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

- ▶ CAT(ANSI B5.50) taper and Inch type products are available.
- ▶ For applicable ER collet, please refer to page 79~82
- ▶ For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK **NEW**

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



ER Collet
Chuck

ISO 26623
- CAPTO

Taper
Accuracy

G Value
6.3

RPM
15,000

Coolant
System
AD

ISO 26623-CAPTO (POLYGONAL SHANK)

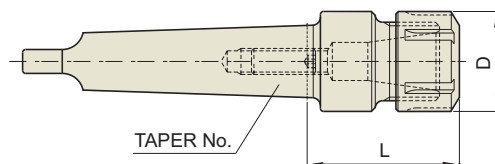
Unit : mm

TAPER No.	Model No.	Collets size	DT	D	L	dk	L1	max-Ø	Weight (kg)	Stock
PSG3	PSG3-ER11-40	11	32	19	40	-	-	7		
	PSG3-ER11-60	11	32	19	60	-	-	7		
	PSG3-ER16-50	16	32	28	50	-	-	10		
	PSG3-ER16-70	16	32	28	70	-	-	10		
	PSG3-ER20-55	20	32	34	55	-	-	13		
	PSG3-ER20-70	20	32	34	70	-	-	13		
PSG4	PSG4-ER11-50	11	32	19	50	-	-	7		
	PSG4-ER11-60	11	32	19	60	28	10	7		
	PSG4-ER16-55	16	40	28	55	-	-	10		
	PSG4-ER16-70	16	40	28	70	-	-	10		
	PSG4-ER20-60	20	40	34	60	-	-	13		
	PSG4-ER20-80	20	40	34	80	-	-	13		
PSG5	PSG5-ER11-55	11	50	19	55	-	-	7		
	PSG5-ER11-70	11	50	19	70	34	20	7		
	PSG5-ER16-60	16	50	28	60	-	-	10		
	PSG5-ER16-70	16	50	28	70	-	-	10		
	PSG5-ER20-60	20	50	34	60	-	-	13		
	PSG5-ER20-80	20	50	34	80	-	-	13		
PSG6	PSG6-ER11-60	11	63	19	60	-	-	7		
	PSG6-ER11-80	11	63	19	80	34	20	7		
	PSG6-ER16-65	16	63	28	65	-	-	10		
	PSG6-ER16-90	16	63	28	90	-	-	10		
	PSG6-ER20-65	20	63	34	65	-	-	13		
	PSG6-ER20-100	20	63	34	100	-	-	13		
PSG8	PSG8-ER16-70	16	80	28	70	34	5	10		
	PSG8-ER16-100	16	80	28	100	34	20	10		
	PSG8-ER20-70	20	80	34	70	42	5	13		
	PSG8-ER20-100	20	80	34	100	42	20	13		
	PSG8X-ER16-80	16	80	28	80	34	5	10		
	PSG8X-ER16-120	16	80	28	120	40	20	10		
	PSG8X-ER20-80	20	80	34	80	42	5	13		
	PSG8X-ER20-120	20	80	34	120	50	20	13		

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



DIN 228-MTA

Unit : mm

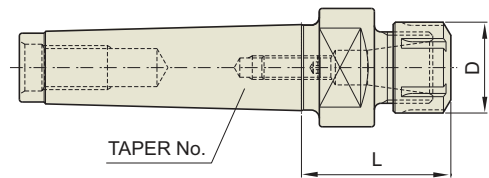
TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
1	MTA1-ER11	0.5-7.0	19	35	ER11	0.30	
	MTA1-ER16	0.5-10	28	40	ER16	0.35	
2	MTA2-ER20	1-13	34	50	ER20	0.50	
	MTA2-ER25	1-16	42	50	ER25	0.60	
3	MTA3-ER25	1-16	42	60	ER25	0.60	
	MTA3-ER32	2-20	50	70	ER32	0.65	
4	MTA4-ER20	1-13	34	60	ER20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

► For applicable ER collet, please refer to page 79~82

► For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER



DIN 228-MTB

Unit : mm

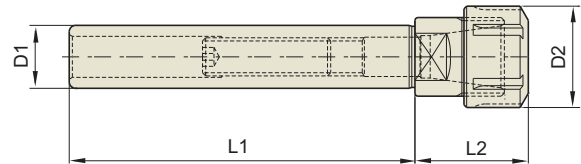
TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	Weight (kg)	Stock
1	MTB1-ER16	1.0-10.0	28	40	ER16	0.35	
2	MTB2-ER20	1.0-13.0	34	50	ER20	0.50	
	MTB2-ER25	1.0-16.0	42	50	ER25	0.60	
3	MTB3-ER25	1.0-16.0	42	60	ER25	0.60	
	MTB3-ER32	2.0-20.0	50	70	ER32	0.65	
4	MTB4-ER32	2.0-20.0	50	70	ER32	1.10	●
	MTB4-ER40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

- ▶ For applicable ER collet, please refer to page 79~82
- ▶ For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

ER Collet
Chuck



STRAIGHT-K

Unit : mm

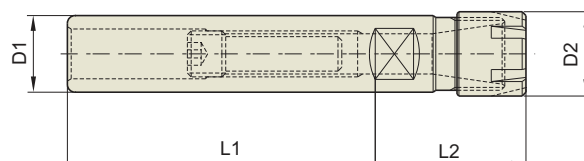
TAPER No.	MODEL No.	CLAMPING RANGE	D1	D2	L1	L2	NUT / COLLET	Weight (kg)	Stock
16	K16-ER11-100	0.5-7.0	16	19	100	32	ER11	0.15	●
	K16-ER16-100	0.5-10.0	16	28	100	36	ER16	0.18	
20	K20-ER16-100	0.5-10.0	20	28	100	36	ER16	0.25	●
	K20-ER20-100	1.0-13.0	20	34	100	40	ER20	0.29	●
	K20-ER25-100	1.0-16.0	20	42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

► For applicable ER collet, please refer to page 79~82

► For applicable ER nut , Sealing disk and Spanner , please refer to page 83~87.

EXTENSION ER COLLET CHUCK

VERLÄNGERUNG FRÄSERSPANNFUTTER - SCHLANKER TYP
EXTENSION MANDRIN À PINCES - TYPE MINCE
PROLUNGHE MANDRINO PORTA PINZE - TIPO SOTTILE
EXTENSION PORTAPINZAS - TIPO DELGADO



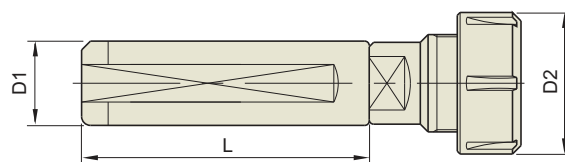
■ STRAIGHT-K (SLIM TYPE)

Unit : mm

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

TENSION ER CHUCK (For TAPPING)

SPANNUNG FRÄSERSPANNFUTTER - FÜR GEWINDESCHNEID
TENSION MANDRIN À PINCES - POUR TARAUDER
TENSIONAMENTO MANDRINO PORTA PINZE - PER MASCHIARE
TENSION PORTAPINZAS - PARA HILO



■ STRAIGHT-K

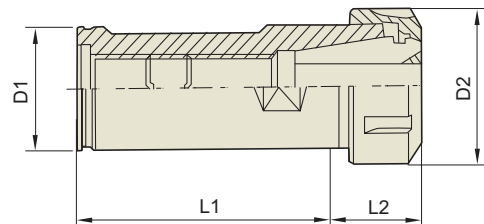
Unit : mm

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

ER COLLET CHUCK

FRÄSERSPANNFUTTER FÜR CNC DREHBANK
MANDRIN À PINCES POUR CNC TOUR
MANDRINO PORTA PINZE PER CNC TORNIO
PORTAPINZAS PARA CNC TORNO

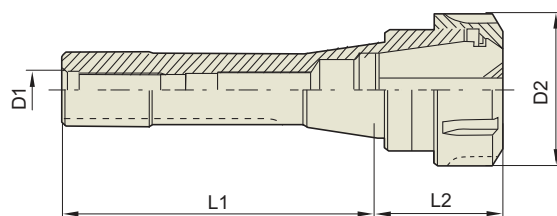
ER Collet
Chuck



■ NC- for CNC LATHE

Unit : mm

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



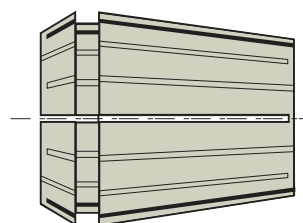
■ BRIDGEPORT-R8

Unit : mm

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

ER COLLET - GER (High Presicion)

ER SPANNZANGE - GER
ER PINCE DE SERRAGE - GER
ER PINZA DI SERRAGGIO - GER
ER PINZA PORTAPIEZAS - GER



* T.I.R : $\leq 0,005\text{mm}$ at 3D

Unit : mm

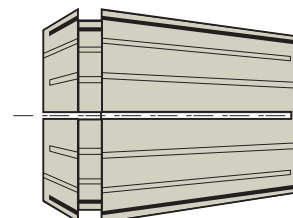
TYPE GER 11		TYPE GER 20		TYPE GER 25		TYPE GER 32		TYPE GER 40	
CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.
1.0-0.5	111010	2.0-1.0	120020	2.0-1.0	125020	3.0-2.0	132030	4.0-3.0	140040
1.5-1.0	111015	3.0-2.0	120030	3.0-2.0	125030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

► Stock Control Item

ER COLLET - UF

ER SPANNZANGE - UF
ER PINCE DE SERRAGE - UF
ER PINZA DI SERRAGGIO - UF
ER PINZA PORTAPIEZAS - UF

ER Collet
Chuck



Unit : mm

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

- Stock Control Item
- Inch type products are available.

ER COLLET - UF

ER SPANNZANGE - UF
ER PINCE DE SERRAGE - UF
ER PINZA DI SERRAGGIO - UF
ER PINZA PORTAPIEZAS - UF



ER Collet
Chuck

Unit : mm

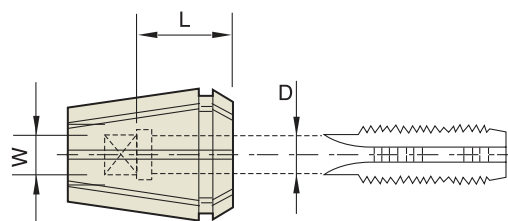
TYPE ER25		TYPE ER32		TYPE ER40		TYPE ER50	
CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.
2.0-1.0	225020	3.0-2.0	232030	4.0-3.0	240040	12.0-10.0	250120
3.0-2.0	225030	4.0-3.0	232040	5.0-4.0	240050	14.0-12.0	250140
4.0-3.0	225040	5.0-4.0	232050	6.0-5.0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

- Stock Control Item
- Inch type products are available.

TAP ER COLLET

ER SPANNZANGE FÜ GEWINDESCHNEID
ER PINCE DE SERRAGE POUR TARAUDER
ER PINZA DI SERRAGGIO PER MASCHIARE
ER PINZA PORTAPIEZAS PARA HILO

ER Collet
Chuck



Unit : mm

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

► Stock Control Item

► These ER collets are for exclusive use of tap.

► Various sizes of taps ranging from M2 to M24 (according to JIS) can be used.

ER NUT

ER NUSS
ER ÉCROU
ER DADO
ER TUERCA

DIN 6499/ISO 15488



SQ-ER (Standard : Hex.)

Unit : mm

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)

Unit : mm

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.)

Unit : mm

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)

Unit : mm

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



XSQ-RH (Open Groove Type)

Unit : mm

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

► Stock control item

ER Collet
Chuck

ER NUT

ER NUSS
ER ÉCROU
ER DADO
ER TUERCA

ER Collet
Chuck



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

► Stock control item

ER NUT

ER NUSS
ER ÉCROU
ER DADO
ER TUERCA



XSQ-RKU (Ball Bearing Type)

Unit : mm

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



XSQ-RKUT (Ball Bearing/Sealing Disk Type)

Unit : mm

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



XSQ-RM (Mini Nut : Standard)

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

► Stock control item

ER Collet
Chuck

ER NUT & SEALING DISK

ER Collet
Chuck



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-RA32	M40×1.50	40.0	14.0



XSQ-RAT (External Thread/ Sealing Disk Type)

Unit : mm

MODEL NO.	Thread	Dia.	Length
XSQ-RA11S*	M18×1.00	18.0	8.0
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.	Thickness
DS16	13.0	4.0
DS20	16.0	4.0
DS25	21.0	4.0
DS32	27.0	4.0
DS40	33.5	4.0
DS50	31.0	4.0

► Stock control item



SEALING DISK SET

Unit : mm

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

ER SPANNER / WRENCH

ER MAULSCHLÜSEL
ER CL
ER CHIAVE
ER LLAVE



FIG. 1



FIG. 2



► Stock Control Item

FOR ER/SKN NUT

Unit : mm

MODEL NO.	A	B	APPLICABLE NUT
ER11SP	-	-	ER11, SKN6 (FIG 1.)
ER16 SP	50	160	ER16, SKN10 (FIG 1.)
ER20 SP	55	180	ER20 (FIG 1.)
ER25 SP	65	210	ER25, SKN16 (FIG 2.)
ER32 SP	75	250	ER32 (FIG 2.)
ER40 SP	90	290	ER40 (FIG 2.)
ER50 SP	110	350	ER50 (FIG 2.)

► Design and shape could be changed without prior notice.

FOR ER MINI NUT

Unit : mm

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

The Top Leader of World Toolholder Industry



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



END MILL HOLDER & SIDE LOCK ARBOR

FRÄERFUTTER UND FLÄHENSPELLFUTTER

MANDRIN PORTE FRAISE QUEUE

CYLINDRIQUE, MÉPLAT

MANDRINI PORTA FRESA TIPO WELDON

PORTAFRESAS Y EJES DE SUJECCION LATERAL

END MILL HOLDER

DIN 69871-SK

DIN 69893/ISO 12164-1-HSK

JIS B6339/MAS 403-BT

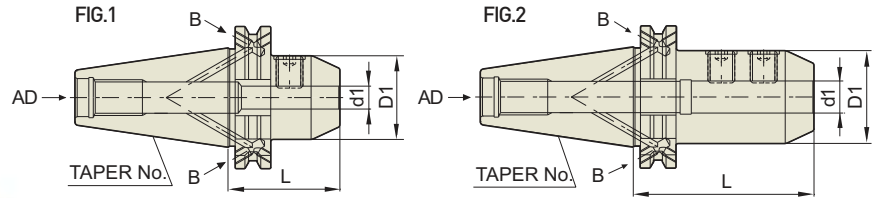
SIDE LOCK ARBOR

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT

END MILL HOLDER

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

DIN 69871
- SK

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant
System
AD/B

STUB

Unit : mm

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

STANDARD

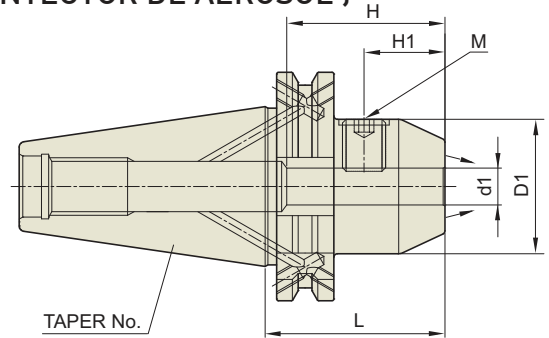
Unit : mm

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

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

END MILL HOLDER (SPRAY NOZZLE TYPE)

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER (SPRAYDÜSE)
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT (BEC DE PULVÉRISATION)
MANDRINI PORTA FRESA TIPO WELDON (UGELLO DI SPRUZZO)
PORTAFRESAS Y EJES DE SUJECCION LATERAL (INYECTOR DE AEROSOL)



DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD/B + C
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End Mill Holder &
Side Lock Arbor

DIN 69871-SK

Unit : mm

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

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

END MILL HOLDER

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



FIG.1

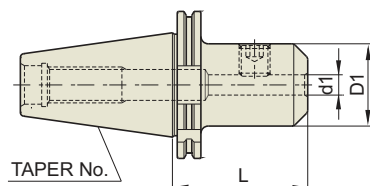
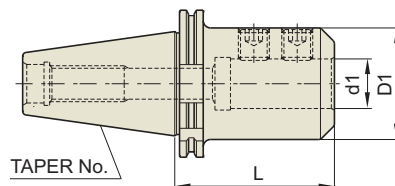


FIG.2



DIN 69871-SK

DIN 69871
- SK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

STUB

Unit : mm

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

STANDARD

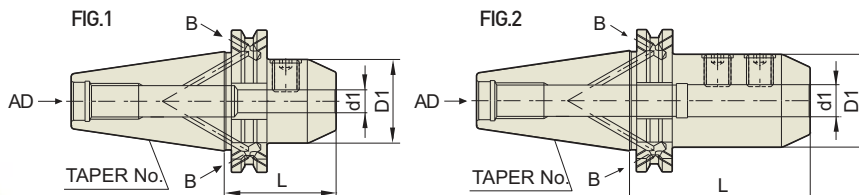
Unit : mm

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

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

END MILL HOLDER

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



End Mill Holder &
Side Lock Arbor

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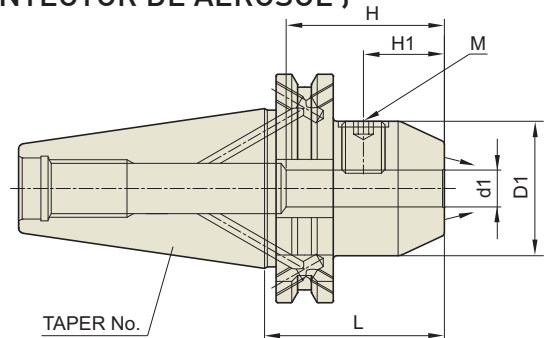
DIN 69871-SK

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

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

END MILL HOLDER (SPRAY NOZZLE TYPE)

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER (SPRAYDÜSE)
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT (BEC DE PULVÉRISATION)
MANDRINI PORTA FRESA TIPO WELDON (UGELLO DI SPRUZZO)
PORTAFRESAS Y EJES DE SUJECCION LATERAL (INYECTOR DE AEROSOL)



DIN 69871
- SK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD/B+C

DIN 69871-SK

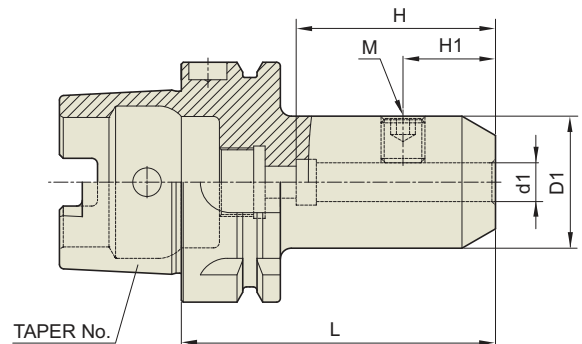
Unit : mm

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

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

END MILL HOLDER

FRÄERFUTTER UND FLÄHENSPIANNFUTTER
MANDRIN PORTE FRAISE QUEUE CYLINDRIQUE, MÉLAT
MANDRINI PORTA FRESA TIPO WELDON
PORTAFRESAS Y EJES DE SUJECCION LATERAL



End Mill Holder &
Side Lock Arbor

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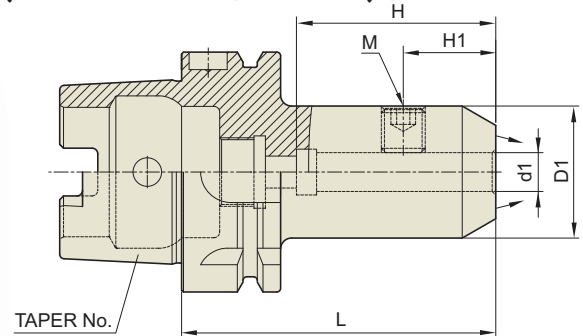
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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

END MILL HOLDER (SPRAY NOZZLE TYPE)

FRÄSERFUTTER UND FLÄHENSANNSFUTTER (SPRAYDÜSE)
MANDRIN PORTE FRAISE QUEUE CYLINDRIQUE, MÉPLAT (BEC DE PULVÉISATION)
MANDRINI PORTA FRESA TIPO WELDON (UGELLO DI SPRUZZO)
PORTAFRESAS Y EJES DE SUJECCION LATERAL (INYECTOR DE AEROSOL)Ä


DIN 69893
- HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

Coolant
System
AD+C

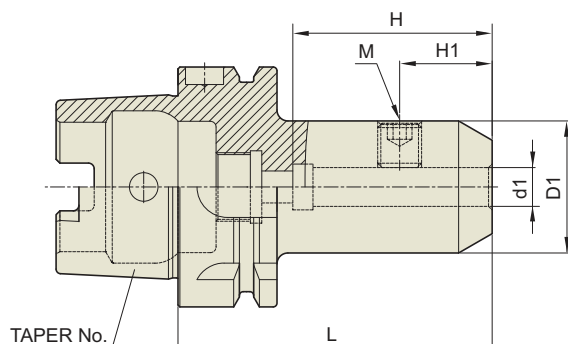
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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

END MILL HOLDER

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



End Mill Holder &
Side Lock Arbor

DIN 69893
- HSK

Taper
Accuracy

G Value
6.3

RPM
15,000

Coolant
System
AD

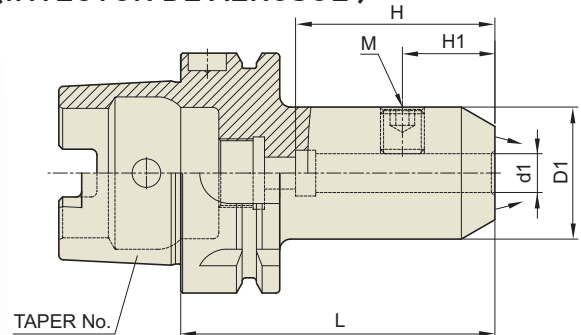
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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

END MILL HOLDER (SPRAY NOZZLE TYPE)

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER (SPRAYDÜSE)
MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT (BEC DE PULVÉRISATION)
MANDRINI PORTA FRESA TIPO WELDON (UGELLO DI SPRUZZO)
PORTAFRESAS Y EJES DE SUJECCION LATERAL (INYECTOR DE AEROSOL)


DIN 69893
- HSK

Taper
Accuracy

G Value
6.3

RPM
15,000

Coolant
System
AD+C

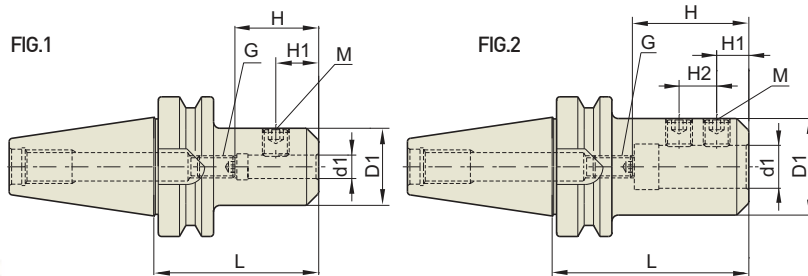
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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

SIDE LOCK ARBOR **NEW**

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
AT3G Value
2.5RPM
25,000Coolant
System
ADEnd Mill Holder &
Side Lock Arbor

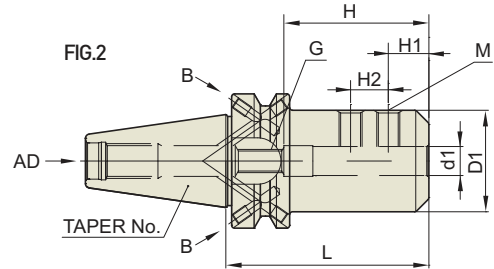
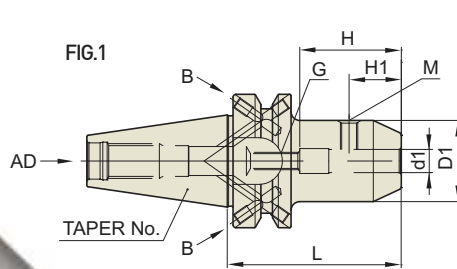
CBT (BT DUAL CONTACT)

Unit : mm

TAPER No.	MODEL No.	d1	L	D1	H		H1	H2	M	G	Weight (kg)	Stock
					MIN	MAX						
30	CBT30-SLA6-60	6	60	25	20	35	18	—	M5	M5	0.7	
	CBT30-SLA8-60	8	60	28	20	35	18	—	M6	M6	0.8	
	CBT30-SLA10-60	10	60	35	35	50	14	13	M8	M8	0.9	
	CBT30-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.1	
	CBT30-SLA14-60	14	60	40	35	50	14	13	M10	M10	1.2	
	CBT30-SLA16-75	16	75	40	55	70	25	20	M12	M12	1.3	
	CBT30-SLA20-75	20	75	50	55	70	25	20	M12	M12	1.4	●
	CBT30-SLA25-75	25	75	50	55	70	25	20	M14	M12	1.5	●
	CBT30-SLA32-105	32	105	60	65	80	30	20	M16	M12	1.6	
40	CBT40-SLA 6-60	6	60	25	20	35	18	—	M5	M5	1.1	
	CBT40-SLA 8-60	8	60	28	20	35	18	—	M6	M6	1.1	
	CBT40-SLA10-60	10	60	35	35	50	14	13	M8	M8	1.2	
	CBT40-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.4	
	CBT40-SLA16-90	16	90	40	55	70	25	20	M12	M12	1.5	
	CBT40-SLA20-90	20	90	50	55	70	25	20	M12	M12	1.8	●
	CBT40-SLA25-90	25	90	50	55	70	25	20	M14	M12	1.7	●
	CBT40-SLA32-90	32	90	60	65	80	30	20	M16	M12	1.9	●
	CBT40-SLA40-90	40	90	70	65	80	30	20	M16	M12	1.8	
50	CBT40-SLA42-90	42	90	70	65	80	30	20	M16	M12	1.8	
	CBT50-SLA 6-90	6	90	25	25	40	18	—	M5	M5	3.7	
	CBT50-SLA 8-90	8	90	28	25	40	18	—	M6	M6	3.9	
	CBT50-SLA10-90	10	90	35	35	50	15	15	M8	M8	4.1	
	CBT50-SLA12-90	12	90	40	40	55	15	15	M10	M10	4.3	
	CBT50-SLA14-90	14	90	40	40	55	15	15	M10	M10	4.3	
	CBT50-SLA16-105	16	105	40	55	70	25	20	M12	M12	4.4	
	CBT50-SLA20-105	20	105	50	55	70	25	20	M12	M12	4.8	●
	CBT50-SLA25-105	25	105	50	55	70	25	20	M14	M12	4.7	●
	CBT50-SLA32-105	32	105	60	65	80	25	25	M16	M12	4.0	●
	CBT50-SLA40-105	40	105	70	65	80	25	25	M16	M12	4.5	●
	CBT50-SLA42-105	42	105	70	65	80	25	25	M16	M12	4.7	
	CBT50-SLA50.8-121	50.8	121	95	—	87	34	36	M20	—	5.0	

SIDE LOCK ARBOR

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
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JIS B6339/MAS 403-BT

Unit : mm

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

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

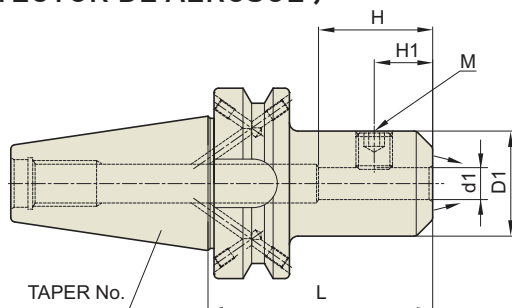
END MILL HOLDER (SPRAY NOZZLE TYPE)

FRÄSERFUTTER UND FLÄCHENSPANNFUTTER (SPRAYDÜSE)

MANDRIN PORTE FRAISE À QUEUE CYLINDRIQUE, À MÉPLAT (BEC DE PULVÉRISATION)

MANDRINI PORTA FRESA TIPO WELDON (UGELLO DI SPRUZZO)

PORTAFRESAS Y EJES DE SUJECCION LATERAL (INYECTOR DE AEROSOL)



End Mill Holder &
Side Lock Arbor

JIS B6339
- BT

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant
System
AD/B+C

JIS B6339/MAS 403-BT

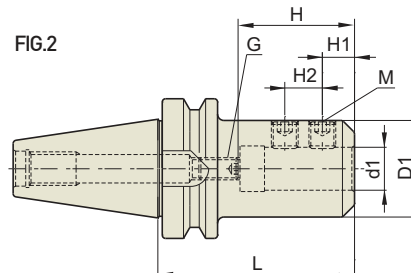
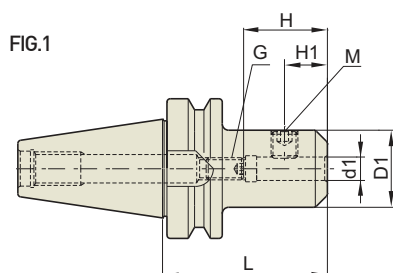
Unit : mm

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

► CAT[ANSI B5.50] taper and Inch type products are available.

SIDE LOCK ARBOR

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

JIS B6339/MAS 403-BT

Unit : mm

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

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

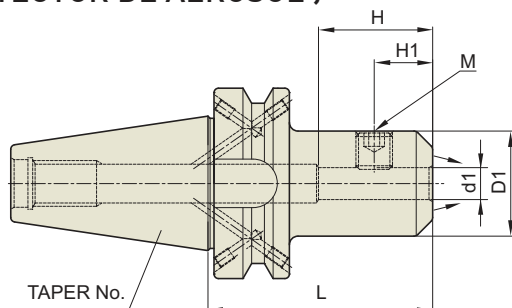
END MILL HOLDER (SPRAY NOZZLE TYPE)

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PORTAFRESAS Y EJES DE SUJECCION LATERAL (INYECTOR DE AEROSOL)



End Mill Holder &
Side Lock Arbor

JIS B6339
- BT

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD/B+C

JIS B6339/MAS 403-BT

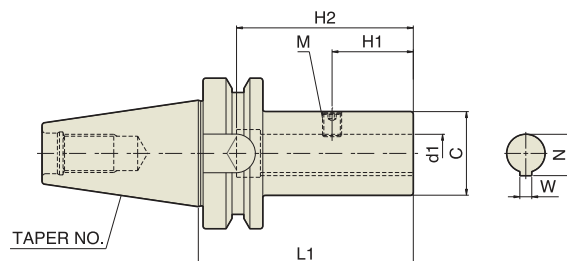
Unit : mm

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

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

SIDE LOCK ARBOR

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

RPM

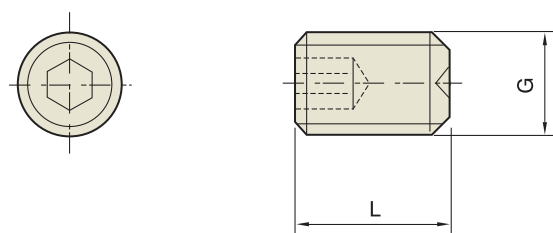
Coolant
System

JIS B6339/MAS 403-BT

Unit : mm

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

SIDE LOCK SCREW for END MILL HOLDER & SIDE LOCK ARBOR



Unit : mm

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



SHELL MILL ARBOR

AUFNAHMEDORN FÜR FRÄSER MIT
BOHRUNG

MANDRIN PORTE-FRAISES

MANDRINO CON TRASCINAMENTO FISSO

PORTA FRESAS

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

SIDE CUTTER ARBOR

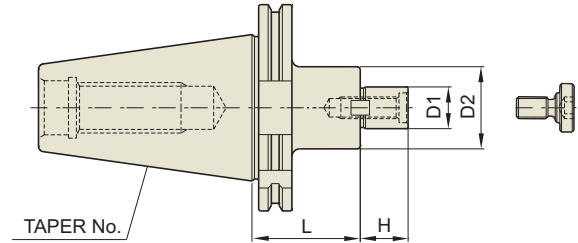
JIS B6339/MAS 403-BT

COMBI SHELL MILL ARBOR

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

SHELL MILL ARBOR

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



Shell Mill Arbor &
Combi Shell Mill
Arbor

DIN 69871-SK

■ STANDARD

Unit : mm

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

■ EXTENDED

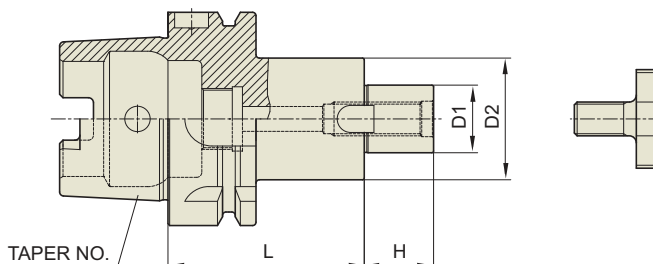
TAPER No.	MODEL No.	D1	D2	L	H	Weight (kg)	Stock
40	SK40-SMA16-120	16	32	120	17	1.70	
	SK40-SMA22-120	22	40	120	19	1.80	
	SK40-SMA27-120	27	48	120	21	2.40	
	SK40-SMA32-120	32	58	120	24	3.70	
50	SK50-SMA16-120	16	32	120	17	3.90	
	SK50-SMA22-120	22	40	120	19	4.40	
	SK50-SMA27-120	27	48	120	21	4.70	
	SK50-SMA32-120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

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

► For parts, please refer to page 110.

SHELL MILL ARBOR

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



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

DIN 69893/ISO 12164-1-HSK FORM A

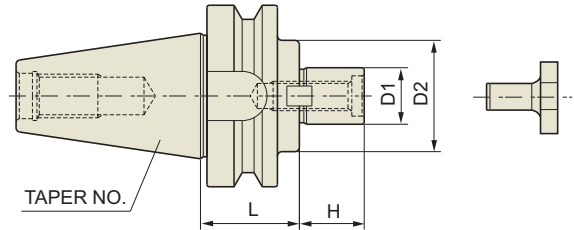
Unit : mm

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

► For parts, please refer to page 110.

SHELL MILL ARBOR **NEW**

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



CBT

Taper
Accuracy
AT3G Value
2.5RPM
25,000Coolant
System
AD

CBT (BT DUAL CONTACT)

■ STANDARD

Unit : mm

TAPER No.	MODEL No.	D1	D2	L	H	Weight (kg)	Stock
30	CBT30 - SMA16 - 50	16	32	50	17		
	CBT30 - SMA22 - 50	22	40	50	19		
	CBT30 - SMA27 - 50	27	48	50	21		
40	CBT40 - SMA16 - 60	16	32	60	17		●
	CBT40 - SMA22 - 60	22	40	60	19		●
	CBT40 - SMA27 - 60	27	48	60	21		●
	CBT40 - SMA32 - 60	32	58	60	24		●
	CBT40 - SMA40 - 60	40	70	60	27		●
50	CBT50 - SMA16 - 75	16	32	75	17		
	CBT50 - SMA22 - 75	22	40	75	19		●
	CBT50 - SMA27 - 75	27	48	75	21		●
	CBT50 - SMA32 - 75	32	58	75	24		●
	CBT50 - SMA40 - 75	40	70	75	27		●
	CBT50 - SMA50 - 75	50	90	75	30		

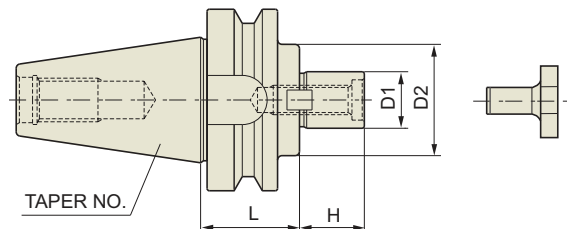
■ EXTENDED

TAPER No.	MODEL No.	D1	D2	L	H	Weight (kg)	Stock
40	CBT40 - SMA16 - 120	16	32	120	17		
	CBT40 - SMA22 - 120	22	40	120	19		
	CBT40 - SMA27 - 120	27	48	120	21		
	CBT40 - SMA32 - 120	32	58	120	24		
50	CBT50 - SMA16 - 120	16	32	120	17		
	CBT50 - SMA22 - 120	22	40	120	19		
	CBT50 - SMA27 - 120	27	48	120	21		
	CBT50 - SMA32 - 120	32	58	120	24		
	CBT50 - SMA40 - 120	40	70	120	27		

► For parts, please refer to page110.

SHELL MILL ARBOR

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

JIS B6339
- BTTaper
Accuracy
AT3G Value
6.3RPM
15,000Coolant
System
AD

Shell Mill Arbor &
Combi Shell Mill
Arbor

JIS B6339/MAS 403-BT

STANDARD

Unit : mm

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

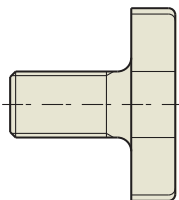
EXTENDED

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

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

► For parts, please refer to page 110.

PARTS for SHELL MILL ARBOR



COLLAR BOLT

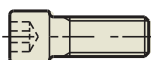
No.	COLLAR BOLT	Q'TY
33	M8×1.25	1
34	M10×1.5	1
35	M12×1.75	1
36	M16×2.0	1
37	M20×2.5	1
38	M24×3.0	1

DRIVE KEY

No.	DRIVE KEY	Q'TY
45	8×7×2.8	2
46	10×7.8×15.5	2
47	12×9×18.5	2
48	14×11.5×20.5	2
49	16×13.5×23.5	2
50	18×18×28.5	2

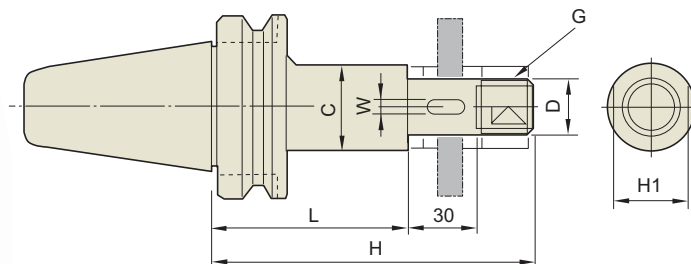
KEY BOLT

No.	KEY BOLT	Q'TY	SMA DIA.
51	M3×0.5×8L	2	16
52	M4×0.7×10L	2	22
53	M5×0.8×12L	2	27
54	M6×1.0×15L	2	32
55	M6×1.0×15L	2	40
56	M6×1.0×20L	2	50



SIDE CUTTER ARBOR

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


JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

Shell Mill Arbor &
Combi Shell Mill
Arbor

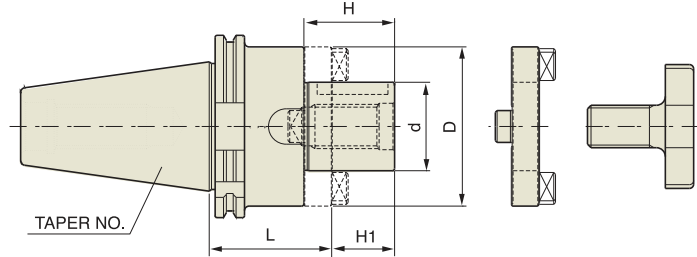
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	H	H1	C	W	G	D	L	Weight (kg)	Stock
30	BT30-SCA12.7-60	105	17	20	-	M12	12.7	60	1.0	
	BT30-SCA15.875-60	106	23	26	3.18	M14	15.875	60	1.1	
	BT30-SCA22.225-60	110	29	34	3.18	M20	22.225	60	1.2	
	BT30-SCA25.4-60	115	32	40	6.35	M24	25.4	60	1.3	●
40	BT40-SCA12.7-75	120	17	20	-	M12	12.7	75	1.2	
	BT40-SCA12.7-105	150	17	20	-	M12	12.7	105	1.3	
	BT40-SCA15.875-75	121	23	26	3.18	M14	15.875	75	1.4	
	BT40-SCA15.875-120	151	23	26	3.18	M14	15.875	120	1.5	
	BT40-SCA22.225-75	126	29	34	3.18	M20	22.225	75	1.7	
	BT40-SCA22.225-120	171	29	34	3.18	M20	22.225	120	2.0	
	BT40-SCA25.4-75	130	32	40	6.35	M24	25.4	75	2.0	●
	BT40-SCA25.4-120	175	32	40	6.35	M24	25.4	120	2.4	●
50	BT40-SCA31.75-90	150	41	46	7.92	M30	31.75	90	2.6	
	BT50-SCA12.7-75	120	17	20	-	M12	12.7	75	4.1	
	BT50-SCA12.7-105	150	17	20	-	M12	12.7	105	4.2	
	BT50-SCA15.875-90	136	23	26	3.18	M14	15.875	90	4.2	
	BT50-SCA15.875-120	166	23	26	3.18	M14	15.875	120	4.2	
	BT50-SCA22.225-90	144	29	34	3.18	M20	22.225	90	4.4	
	BT50-SCA22.225-135	186	29	34	3.18	M20	22.225	135	4.7	
	BT50-SCA25.4-90	145	32	40	6.35	M24	25.4	90	4.5	
	BT50-SCA25.4-135	190	32	40	6.35	M24	25.4	135	4.9	●
	BT50-SCA31.75-90	150	41	46	7.92	M30	31.75	90	4.7	
	BT50-SCA31.75-135	195	41	46	7.92	M30	31.75	135	5.2	●
	BT50-SCA38.1-90	156	46	55	9.52	M36	38.1	90	4.9	
	BT50-SCA38.1-135	201	46	55	9.52	M36	38.1	135	5.9	

COMBI-SHELL MILL ARBOR

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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DIN 69871-SK

STANDARD

Unit : mm

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

EXTENDED

Unit : mm

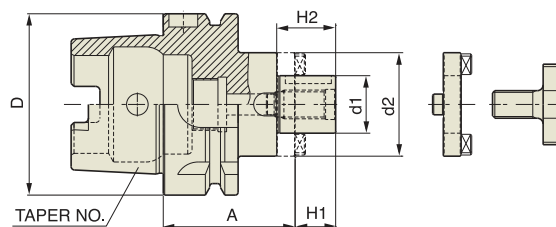
TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
40	SK40 - CMA16 - 100	16	100	32	17	27	27,33,39		●
	SK40 - CMA22 - 100	22	100	40	19	31	28,34,40		●
	SK40 - CMA27 - 100	27	100	48	21	33	29,35,41		●
	SK40 - CMA32 - 100	32	100	58	24	38	30,36,42		●
50	SK50 - CMA16 - 100	16	100	32	17	27	27,33,39		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

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

► For parts, please refer to page 117.

COMBI-SHELL MILL ARBOR

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

DIN 69893
- HSKTaper
AccuracyG Value
6.3RPM
15,000Coolant
System
AD

Shell Mill Arbor &
Combi Shell Mill
Arbor

DIN 69893/ISO 12164-1-HSK FORM A

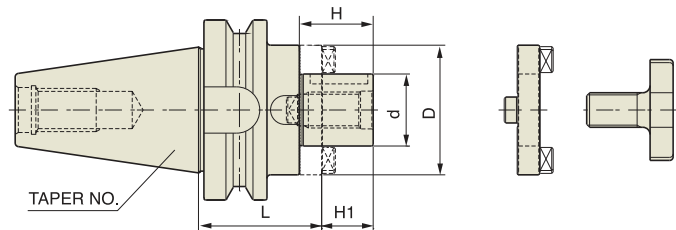
Unit : mm

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

► For parts, please refer to page 117.

COMBI-SHELL MILL ARBOR

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

CBT (DUAL CONTACT)

STANDARD

Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
30	CBT30 - CMA16 - 50	16	50	32	17	27	27,33,39		
	CBT30 - CMA22 - 50	22	50	40	19	31	28,34,40		
	CBT30 - CMA27 - 55	27	55	48	21	33	29,35,41		
40	CBT40 - CMA16 - 55	16	55	32	17	27	27,33,39		
	CBT40 - CMA22 - 55	22	55	40	19	31	28,34,40		
	CBT40 - CMA27 - 55	27	55	48	21	33	29,35,41		
	CBT40 - CMA32 - 60	32	60	58	24	38	30,36,42		
	CBT40 - CMA40 - 60	40	60	70	27	41	31,37,43		
50	CBT50 - CMA16 - 70	16	70	32	17	27	27,33,39		
	CBT50 - CMA22 - 70	22	70	40	19	31	28,34,40		
	CBT50 - CMA27 - 70	27	70	48	21	33	29,35,41		
	CBT50 - CMA32 - 70	32	70	58	24	38	30,36,42		
	CBT50 - CMA40 - 70	40	70	70	27	41	31,37,43		
	CBT50 - CMA50 - 70	50	70	90	30	46	32,38,44		

EXTENDED

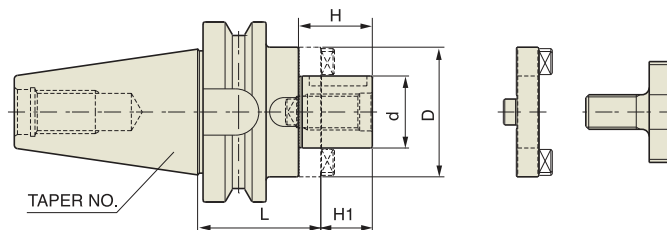
Unit : mm

TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
40	CBT40 - CMA16 - 100	16	100	32	17	27	27,33,39		
	CBT40 - CMA22 - 100	22	100	40	19	31	28,34,40		
	CBT40 - CMA27 - 100	27	100	48	21	33	29,35,41		
	CBT40 - CMA32 - 100	32	100	58	24	38	30,36,42		
50	CBT50 - CMA16 - 100	16	100	32	17	27	27,33,39		
	CBT50 - CMA22 - 100	22	100	40	19	31	28,34,40		
	CBT50 - CMA27 - 100	27	100	48	21	33	29,35,41		
	CBT50 - CMA32 - 100	32	100	58	24	38	30,36,42		
	CBT50 - CMA40 - 100	40	100	70	27	41	31,37,43		

► For parts, please refer to page 117.

COMBI-SHELL MILL ARBOR

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



JIS B6339/MAS 403-BT

■ STANDARD

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

Unit : mm

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

■ EXTENDED

Unit : mm

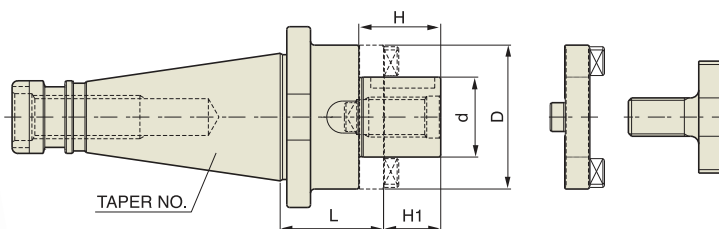
TAPER No.	MODEL No.	d	L	D	H1	H	PART No.	Weight (kg)	Stock
40	BT40 - CMA16 - 100	16	100	32	17	27	27,33,39		
	BT40 - CMA22 - 100	22	100	40	19	31	28,34,40		
	BT40 - CMA27 - 100	27	100	48	21	33	29,35,41		
	BT40 - CMA32 - 100	32	100	58	24	38	30,36,42		
50	BT50 - CMA16 - 100	16	100	32	17	27	27,33,39		
	BT50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

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

► For parts, please refer to page 117.

COMBI-SHELL MILL ARBOR

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


DIN 2080
- ISO

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

DIN 2080-ISO

STANDARD

Unit : mm

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

EXTENDED

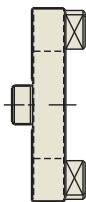
Unit : mm

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

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

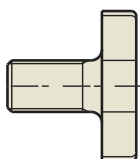
► For parts, please refer to page 117.

PARTS for COMBI-SHELL MILL ARBOR



CLUTCH DRIVE RING

No.	CLUTCH DRIVE RING	Q'TY
27	#16	1
28	#22	1
29	#27	1
30	#32	1
31	#40	1
32	#50	1



COLLAR BOLT

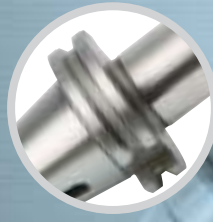
No.	COLLAR BOLT	Q'TY
33	M8×1.25	1
34	M10×1.5	1
35	M12×1.75	1
36	M16×2.0	1
37	M20×2.5	1
38	M24×3.0	1



KEY

No.	KEY	Q'TY	CMA DIA.
39	4×4×20	1	16
40	6×6×25	1	22
41	7×7×25	1	27
42	8×7×28	1	32
43	10×8×32	1	40
44	12×8×36	1	50

The Top Leader of World Toolholder Industry



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



MILLING CHUCK

FRÄSERSPANNFUTTER

MANDRIN PORTE FRAISE

MANDRINI PORTA FRESA

PORTAHERRAMIENTAS PARA FRESADO

DIN 69871-SK
HIGH-SPEED TYPE / STANDARD TYPE

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

CBT (BT DUAL CONTACT)

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

DIN 228-MTA/MTB, R8

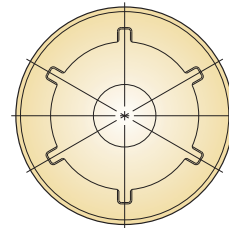
MILLING CHUCK SET
Q.C MILLING CHUCK SET

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

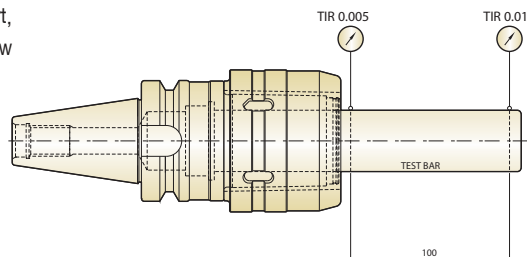
MILLING CHUCK



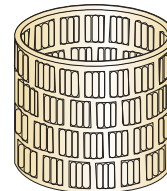
- Rigidity is strengthened through slot made at inside milling chuck, which prevents deformation of milling chuck. Smooth cutting is achieved by maximizing end mill clamping power.
- Enough thickness of clamping part prevents chattering and ensures durability.
- O-ring inserted into milling chuck body prevents cap and body from directly contacting each other thus extending durability of milling chuck.



- 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 TIR not exceeding 0.01mm at 100mm 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.

High Speed Milling Chuck

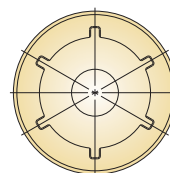
- Achieving optimum cutting for high-speed heavy duty cutting and finishing with strong torque power
- Perfect clamping from 3mm depth of ID entrance
- Achieving stability when exchanging and setting tools by stable fastening and unfastening torque

Balancing Grade

- G6,3/20,000rpm
- => 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



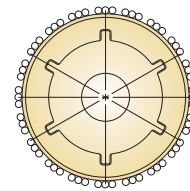
To use ordinary spanner



- No need for expensive Ratchet spanner
- => Using ordinary spanner

Lots of needle bearings

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



O Ring

- Preventing nut from contacting body
=> Extending duration of milling chuck
- Preventing foreign substances from entering body and nut

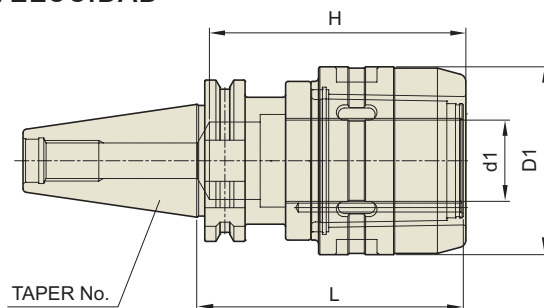


Strong torque power

Milling chuck (ID)	Standard	Tolerance (Taper shank)	Run-out (3D)	Clamping torque
C20	AT3	ISO30 (0~+0.002) ISO40 (0~+0.003) ISO50 (0~+0.004)	0 ~ 0.01	980Nm
C25				1,760Nm
C32				3,430Nm
C42				4,900Nm

HIGH SPEED 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

DIN 69871-SK

Unit : mm

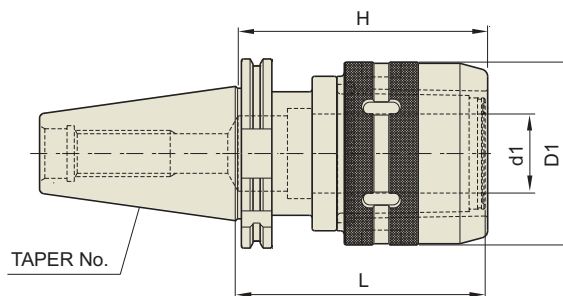
TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
30	SK30-C20-80HS	20	54	80	70	1.15	
	SK30-C25-80HS	25	62.5	80	80	1.48	
40	SK40-C20-105HS	20	54	105	70	1.77	●
	SK40-C25-105HS	25	62.5	105	80	2.10	●
	SK40-C32-105HS	32	74	105	100	2.40	●
	SK40-C32-135HS	32	74	135	100	3.10	●
50	SK50-C20-105HS	20	54	105	70	3.40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

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

► For applicable collet and spanner, please refer to page 135.

MILLING CHUCK

FRÄSERSPANNFUTTER
MANDRIN PORTE FRAISE
MANDRINI PORTA FRESA
PORTAHERRAMIENTAS PARA FRESADO

DIN 69871
- SKTaper
Accuracy
AT3

G Value

RPM

Coolant
System

DIN 69871-SK

STUB

Unit : mm

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

STANDARD

Unit : mm

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

EXTENDED

Unit : mm

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

EXTRA EXTENDED

Unit : mm

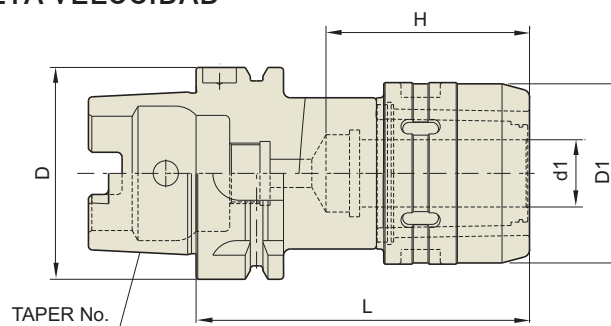
TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
50	SK50-C32-165	32	72	165	100	5.59	●
	SK50-C42-165	42	92	165	110	6.10	●

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

▶ For applicable collet and spanner, please refer to page 135.

HIGH SPEED MILLING CHUCK

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

DIN 69893
- HSKTaper
AccuracyG Value
6.3RPM
20,000Coolant
System

DIN 69893/ISO 12164-1-HSK FORM A

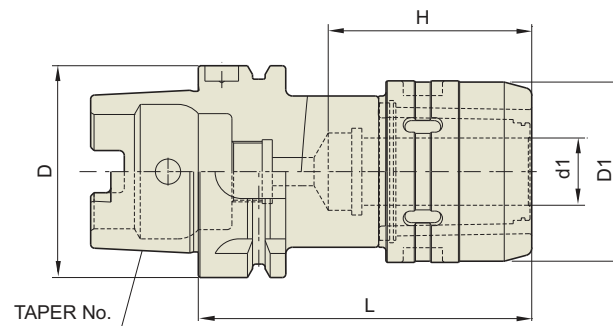
Unit : mm

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

► For applicable collet and spanner, please refer to page 135.

MILLING CHUCK

FRÄSERSPANNFUTTER
MANDRIN PORTE FRAISE
MANDRINI PORTA FRESA
PORTAHERRAMIENTAS PARA FRESADO



DIN69893
- HSK

Taper
Accuracy

G Value

RPM

Coolant
System

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

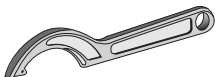
TAPER No.	MODEL No.	D	d1	D1	L	H	Weight (kg)	Stock
50A	HSK 50A-C20-100	50	20	54	100	70	1.30	
63A	HSK 63A-C20-105	63	20	54	105	70	1.50	●
	HSK 63A-C32-130	63	32	72	130	100	2.70	●
100A	HSK100A-C20-110	100	20	54	110	70	3.50	
	HSK100A-C32-135	100	32	72	135	100	4.20	●
	HSK100A-C42-135	100	42	92	135	100	5.30	

ACCESSORY

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

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

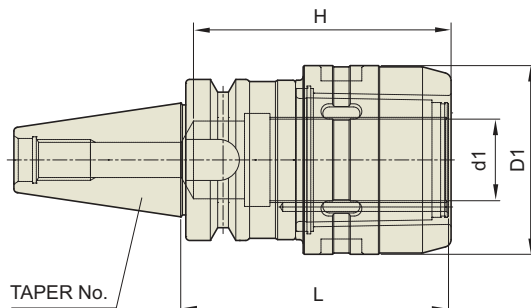
END MILL COLLET	MODEL No.
	CK20 - 6, 8, 10, 12, 16
	CK25 - 6, 8, 10, 12, 16, 20
	CK32 - 6, 8, 10, 12, 16, 20, 25
	CK42 - 6, 8, 10, 12, 16, 20, 25, 32

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

Milling
Chuck

HIGH SPEED MILLING CHUCK **NEW**

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
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CBT (BT DUAL CONTACT)

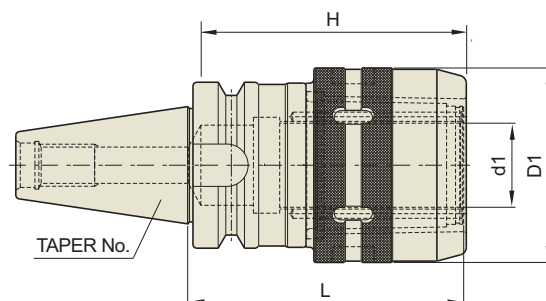
Unit : mm

TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
30	CBT30-C20-75HS	20	54	75	70	1.50	
	CBT30-C25-80HS	25	62.5	80	80	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	62.5	105	80	2.50	
	CBT40-C32-90HS	32	74	90	100	3.00	
	CBT40-C32-105HS	32	74	105	100	3.10	
	CBT40-C32-135HS	32	74	135	100	3.30	
50	CBT50-C20-105HS	20	54	105	70	4.50	
	CBT50-C20-135HS	20	54	135	70	4.90	
	CBT50-C20-165HS	20	54	165	70	5.40	
	CBT50-C25-105HS	25	62.5	105	80	5.20	
	CBT50-C25-135HS	25	62.5	135	80	5.80	
	CBT50-C25-165HS	25	62.5	165	80	6.20	
	CBT50-C32-105HS	32	74	105	100	6.00	
	CBT50-C32-135HS	32	74	135	100	6.70	
	CBT50-C32-165HS	32	74	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	

► For applicable collet and spanner, please refer to page 135.

MILLING CHUCK

FRÄSERSPANNFUTTER
MANDRIN PORTE FRAISE
MANDRINI PORTA FRESA
PORTAHERRAMIENTAS PARA FRESADO



CBT	Taper Accuracy AT3	G Value	RPM	Coolant System
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CBT (BT DUAL CONTACT)

Unit : mm

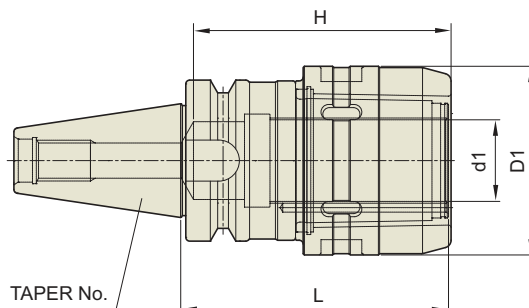
TAPER No.	MODEL No.	d1	D1	L	H	Applicable collet	Weight (kg)	Stock
30	CBT30-C20-75	20	54	75	70	K20, CK20	1.5	●
	CBT30-C25-80	25	62.5	80	80	K25, CK25	2.0	
40	CBT40-C20-80	20	54	80	70	K20, CK20	2.0	●
	CBT40-C20-105	20	54	105	70	K20, CK20	2.1	
	CBT40-C25-105	25	62.5	105	80	K25, CK25	2.5	
	CBT40-C32-90	32	72	90	100	K32, CK32	3	●
	CBT40-C32-105	32	72	105	100	K32, CK32	3.1	●
	CBT40-C32-135	32	72	135	100	K32, CK32	3.3	
50	CBT50-C20-105	20	54	105	70	K20, CK20	4.5	●
	CBT50-C20-135	20	54	135	70	K20, CK20	4.9	
	CBT50-C20-165	20	54	165	70	K20, CK20	5.4	
	CBT50-C25-105	25	62.5	105	80	K25, CK25	5.2	
	CBT50-C25-135	25	62.5	135	80	K25, CK25	5.8	
	CBT50-C25-165	25	62.5	165	80	K25, CK25	6.2	
	CBT50-C32-105	32	72	105	100	K32, CK32	6	●
	CBT50-C32-115	32	72	115	100	K32, CK32	6.2	
	CBT50-C32-135	32	72	135	100	K32, CK32	6.7	●
	CBT50-C32-165	32	72	165	100	K32, CK32	7.4	
	CBT50-C42-115	42	92	115	110	K42, CK42	6.7	●
	CBT50-C42-135	42	92	135	110	K42, CK42	7.6	●
	CBT50-C42-165	42	92	165	110	K42, CK42	8.3	

► For applicable collet and spanner, please refer to page 135.

Milling
Chuck

HIGH SPEED 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
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JIS B6339/MAS 403-BT

Unit : mm

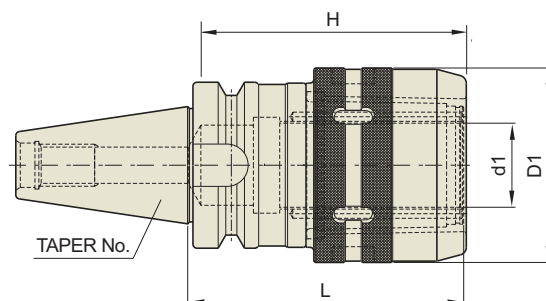
TAPER No.	MODEL No.	d1	D1	L	H	Weight (kg)	Stock
30	BT30-C20-75HS	20	54	75	70	1.50	●
	BT30-C25-80HS	25	62.5	80	80	2.00	●
40	BT40-C20-80HS	20	54	80	70	2.00	●
	BT40-C20-105HS	20	54	105	70	2.10	
	BT40-C25-105HS	25	62.5	105	80	2.50	
	BT40-C32-90HS	32	74	90	100	3.00	●
	BT40-C32-105HS	32	74	105	100	3.10	●
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

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

► For applicable collet and spanner, please refer to page 135.

MILLING CHUCK

FRÄSERSPANNFUTTER
MANDRIN PORTE FRAISE
MANDRINI PORTA FRESA
PORTAHERRAMIENTAS PARA FRESADO


JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

JIS B6339/MAS 403-BT

Unit : mm

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

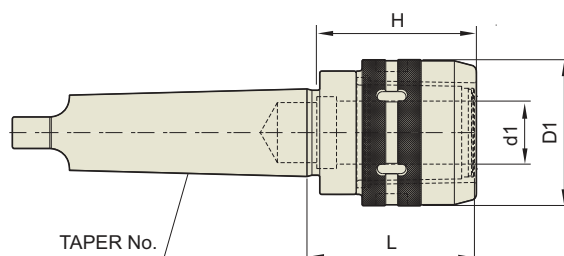
► CAT(ANSI B5.50) taper and Inch type products are available.

► For applicable collet and spanner, please refer to page 135.

Milling
Chuck

MILLING CHUCK

FRÄSERSPANNFUTTER
MANDRIN PORTE FRAISE
MANDRINI PORTA FRESA
PORTAHERRAMIENTAS PARA FRESADO

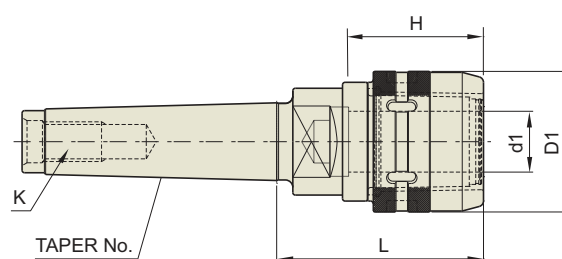


DIN 228-MTA

Unit : mm

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

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



DIN 228-MTB

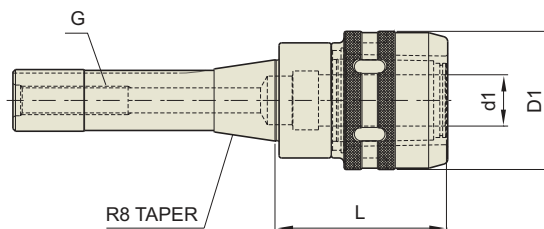
Unit : mm

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

► For applicable collet and spanner, please refer to page 135.

MILLING CHUCK

FRÄSERSPANNFUTTER
MANDRIN PORTE FRAISE
MANDRINI PORTA FRESA
PORTAHERRAMIENTAS PARA FRESADO



BRIDGEPORT-R8

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

► For applicable collet and spanner, please refer to page 135.

Milling
Chuck

MILLING CHUCK STANDARD SET

GEGENSTÜCK FÜR FRÄSERSPANNFUTTER
 ETUI AVEC PORTE-FRAISE ET CLEF
 CASSETTA COMPLETA DI MANDRINO, CHIAVE E PINZE
 ESTUCHE CON PORTAPINZAS, PINZAS Y LLAVE



Milling
Chuck

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

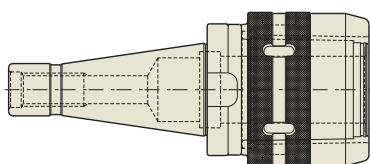
MILLING CHUCK STANDARD SET

GEGENSTÜCK FÜR FRÄSERSPANNFUTTER
ETUI AVEC PORTE-FRAISE ET CLEF
CASSETTA COMPLETA DI MANDRINO, CHIAVE E PINZE
ESTUCHE CON PORTAPINZAS, PINZAS Y LLAVE



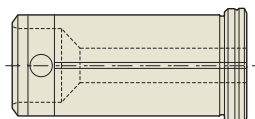
TAPER	STANDARD SET MODEL No.	MILLING CHUCK	END MILL COLLET	MORSE TAPER COLLET	DRILL CHUCK BAR
R8	SR8-C20	R8-C20	K20-(6-16)(5PCS)	K20-MT1,2	K20-JTA6
NT30	SNT30-20	NT30-C20	K20-(6-16)(5PCS)	K20-MT1,2	K20-JTA6
NT40	SNT40-32	NT40-C32	K32-(6-25)(7PCS)	K32-MT1,2,3	K32-JTA6
NT50	SNT50-32	NT50-C32	K32-(6-25)(7PCS)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

Milling
Chuck



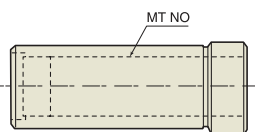
MILLING CHUCK

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



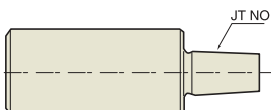
END MILL COLLET

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



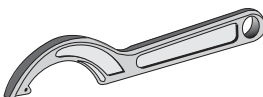
MT COLLET

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



DRILL CHUCK ARBOR

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



SPANNER

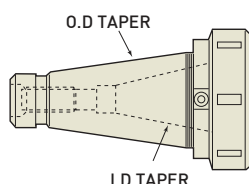
MODEL No.
C20 SP
C25 SP
C32 SP
C42 SP

QUICK CHANGE MILLING CHUCK SET

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

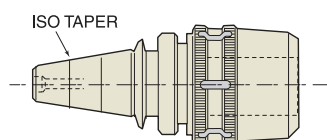


TAPER	Q.C MILLING HOLDER SET MODEL No.	Q.C MASTER HOLDER	Q.C MILLING CHUCK	END MILL COLLETS	Q.C FACE MILL ARBOR	Q.C DRILL CHUCK BAR	DRILL CHUCK ARBOR	Q.C TAPER SLEEVE
NT40	SMH40-T35-32 A	MH40-T35	QT35-32	K32-(6-25)(7PCS)	QT35-4R	—	K32-J6	—
	SMH40-T35-32 B	MH40-T35	QT35-32	K32-(6-25)(7PCS)	QT35-4R	QT35-J6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



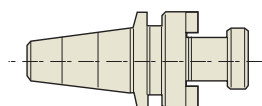
Q.C MASTER HOLDER

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



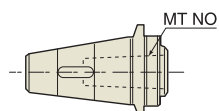
Q.C MILLING CHUCK

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



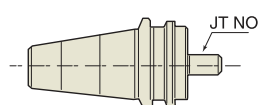
Q.C FACE MILL ARBOR

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



Q.C TAPER SLEEVE

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



Q.C DRILL CHUCK ARBOR

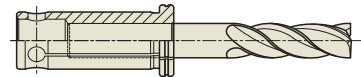
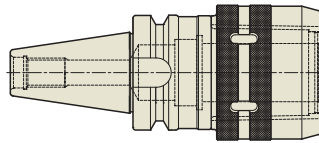
Q.C MASTER HOLDER	MODEL No.	DRILLØ
MH40	QT35-J6	1-13mm
MH50	QT45-J6	1-13mm

COLLET & SPANNER



END MILL COLLET (K TYPE)

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



END MILL COLLET (CK TYPE)

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



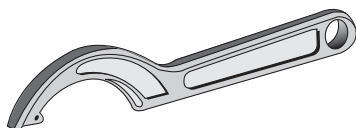
MT COLLET

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



DRILL CHUCK ARBOR

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



SPANNER

MODEL No.
C20 SP
C25 SP
C32 SP
C42 SP

► Stock Control Item

Milling
Chuck

The Top Leader of World Toolholder Industry



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

MORSE TAPER ARBOR

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

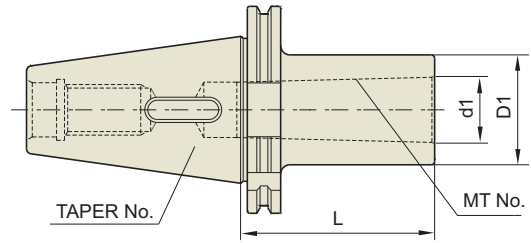
DIN 69871-SK

DIN 69893/ISO 12164-1-HSK

JIS B6339/MAS 403-BT

MORSE TAPER ARBOR

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



DIN 69871
-SK

Taper
Accuracy
AT3

G Value
G6.3

RPM
15,000

Coolant
System
AD

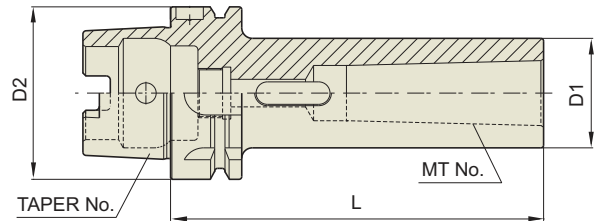
DIN 69871-SK

■ STANDARD

Unit : mm

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

Morse Taper
Arbor



DIN 69893
- HSK

Taper
Accuracy

G Value
G6.3

RPM
15,000

Coolant
System
AD

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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

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

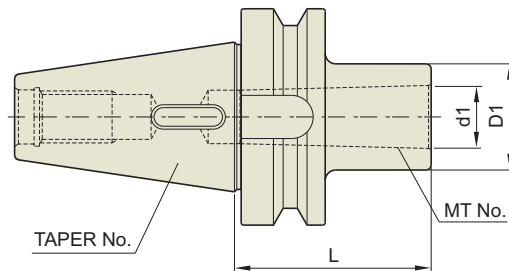
ZEIKEN SSK TOOLING SYSTEM



TEL:+82 32 818 2617, FAX:+82 32 819 2617, www.ssktool.co.kr

MORSE TAPER ARBOR

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



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

Unit : mm

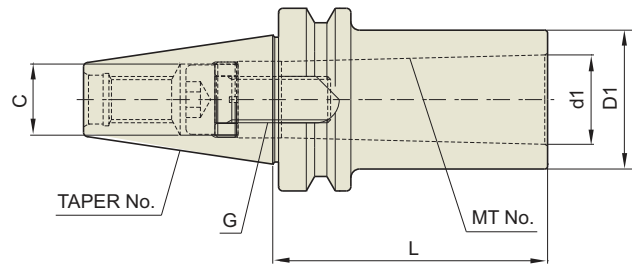
TAPER No.	MODEL No.	MT No.	L	d1	D1	Weight (kg)	Stock
30	BT30-MTA1- 45	1	45	12.065	25	0.4	●
	BT30-MTA2- 60	2	60	17.780	32	0.5	●
	BT30-MTA2- 120	2	120	17.780	32	0.6	
	BT30-MTA3- 75	3	75	23.825	40	0.7	●
40	BT40-MTA1- 45	1	45	12.065	25	1.0	●
	BT40-MTA1-120	1	120	12.065	25	1.3	
	BT40-MTA2- 60	2	60	17.780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

Morse Taper
Arbor

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

MORSE TAPER ARBOR

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

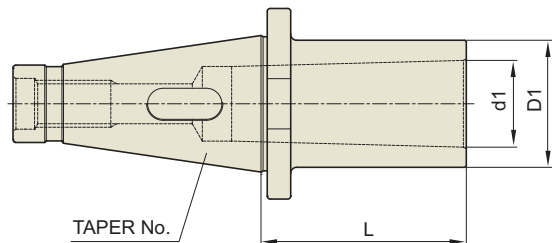


JIS B6339 - BT	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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JIS B6339/MAS 403-BT

Unit : mm

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



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

Unit : mm

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

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



SK SLIM CHUCK

SK SCHLANKE FUTTER

MANDRIN TYPE SK MINCE

SK MANDRINI SOTTILI

PORTAHERRAMIENTAS SK EJE
REDUCIDO

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT

DIN 69893/ISO 12164-1-HSK

STRAIGHT-K

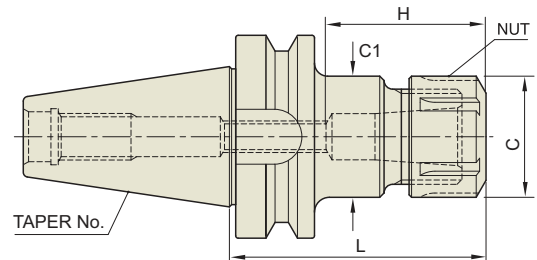
ACCESSORY & PART

SK COLLET

SK NUT

SK SLIM CHUCK NEW

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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CBT (BT DUAL CONTACT)

Unit : mm

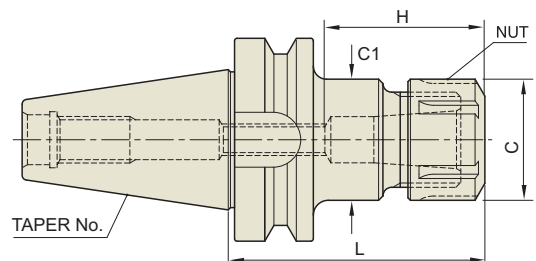
TAPER No.	MODEL No.	CLAMPING RANGE	L	C	C1	H		COLLET	Weight (kg)	Stock
						Min	Max			
30	CBT30-SKA06-60	0.9-6.0	60	20	19.5	21	35	SKC6	0.7	
	CBT30-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	0.8	
	CBT30-SKA10-60	1.75-10.0	60	28	27.5	30	50	SKC10	0.9	
	CBT30-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1	
	CBT30-SKA13-60	2.75-13.0	60	33	33	31	65	SKC13	1	
	CBT30-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.1	
	CBT30-SKA16-60	2.75-16.0	60	40	40	45	60	SKC16	1.1	
	CBT30-SKA16-90	2.75-16.0	90	40	40	45	60	SKC16	1.2	
	CBT30-SKA20-60	4.0-20.0	60	48.5	48.5	65	75	SKC20	1.3	
	CBT30-SKA20-90	4.0-20.0	90	48.5	48.5	65	75	SKC20	1.4	
	CBT30-SKA25-90	16.0-25.4	90	55	55	55	75	SKC25	1.5	
40	CBT40-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	1.1	
	CBT40-SKA06-120	0.9-6.0	120	20	19.5	21	35	SKC6	1.4	
	CBT40-SKA06-150	0.9-6.0	150	20	19.5	21	35	SKC6	1.5	
	CBT40-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1.2	
	CBT40-SKA10-120	1.75-10.0	120	28	27.5	30	50	SKC10	1.4	
	CBT40-SKA10-150	1.75-10.0	150	28	27.5	30	50	SKC10	1.6	
	CBT40-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.4	
	CBT40-SKA13-120	2.75-13.0	120	33	33	31	65	SKC13	1.6	
	CBT40-SKA13-150	2.75-13.0	150	33	40	31	65	SKC13	1.8	
	CBT40-SKA16-90	2.75-16.0	90	40	40	45	70	SKC16	1.5	
	CBT40-SKA16-120	2.75-16.0	120	40	40	45	70	SKC16	1.7	
	CBT40-SKA16-150	2.75-16.0	150	40	40	45	70	SKC16	1.9	
	CBT40-SKA20-90	4.0-20.0	90	48.5	48.5	47	80	SKC20	1.6	
	CBT40-SKA20-120	4.0-20.0	120	48.5	48.5	47	80	SKC20	2	
	CBT40-SKA20-150	4.0-20.0	150	48.5	48.5	47	80	SKC20	2.4	
	CBT40-SKA25-90	16.0-25.4	90	55	55	55	85	SKC25	1.8	
	CBT40-SKA25-120	16.0-25.4	120	55	55	55	85	SKC25	2	
	CBT40-SKA25-150	16.0-25.4	150	55	55	55	85	SKC25	2.3	

Feature :

- Minimizing interference between tool holder and workpiece by employing slim type design.
- For applicable SK collet, please refer to page 151 and 152.

SK SLIM CHUCK **NEW**

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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CBT (BT DUAL CONTACT)

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	C	C1	H		COLLET	Weight (kg)	Stock
						Min	Max			
50	CBT50-SKA06-105	0.9-6.0	105	20	19.5	21	35	SKC6	3.8	
	CBT50-SKA06-135	0.9-6.0	135	20	19.5	21	35	SKC6	3.9	
	CBT50-SKA06-165	0.9-6.0	165	20	32.5	21	35	SKC6	4	
	CBT50-SKA06-195	0.9-6.0	195	20	32.5	21	35	SKC6	4.2	
	CBT50-SKA10-105	1.75-10.0	105	28	27.5	30	50	SKC10	4.2	
	CBT50-SKA10-135	1.75-10.0	135	28	27.5	30	50	SKC10	4.4	
	CBT50-SKA10-165	1.75-10.0	165	28	37.4	30	50	SKC10	4.6	
	CBT50-SKA10-195	1.75-10.0	195	28	37.4	30	50	SKC10	4.8	
	CBT50-SKA13-105	2.75-13.0	105	33	33	31	65	SKC13	4.5	
	CBT50-SKA13-135	2.75-13.0	135	33	33	31	65	SKC13	4.7	
	CBT50-SKA13-165	2.75-13.0	165	33	45	31	65	SKC13	4.9	
	CBT50-SKA13-195	2.75-13.0	195	33	45	31	65	SKC13	5.2	
	CBT50-SKA16-105	2.75-16.0	105	40	40	45	70	SKC16	4.7	
	CBT50-SKA16-135	2.75-16.0	135	40	40	45	70	SKC16	4.9	
	CBT50-SKA16-165	2.75-16.0	165	40	40	45	70	SKC16	5.1	
	CBT50-SKA16-195	2.75-16.0	195	40	40	45	70	SKC16	5.5	
	CBT50-SKA20-105	4.0-20.0	105	48.5	48.5	47	80	SKC20	4.3	
	CBT50-SKA20-135	4.0-20.0	135	48.5	48.5	47	80	SKC20	4.6	
	CBT50-SKA20-165	4.0-20.0	165	48.5	48.5	47	80	SKC20	5	
	CBT50-SKA20-195	4.0-20.0	195	48.5	48.5	47	80	SKC20	5.4	
	CBT50-SKA25-105	16.0-25.4	105	55	55	55	85	SKC25	5.2	
	CBT50-SKA25-135	16.0-25.4	135	55	55	55	85	SKC25	5.4	
	CBT50-SKA25-165	16.0-25.4	165	55	55	55	85	SKC25	5.6	
	CBT50-SKA25-195	16.0-25.4	195	55	55	55	85	SKC25	6	

► Feature :

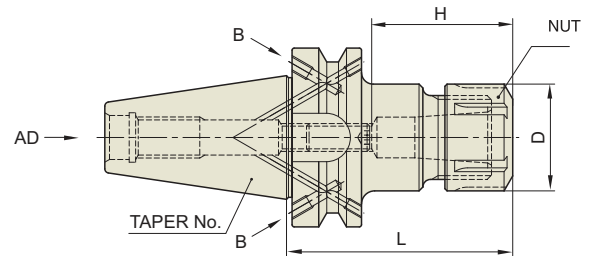
Minimizing interference between tool holder and workpiece by employing slim type design.

► For applicable SK collet, please refer to page 151 and 152.

SK Slim
Chuck

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

JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	L	C	C1	H		COLLET	Weight (kg)	Stock
						Min	Max			
30	BT30AD/B-SKA06-60	0.9-6.0	60	20	19.5	21	35	SKC6	0.7	
	BT30AD/B-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	0.8	
	BT30AD/B-SKA10-60	1.75-10.0	60	28	27.5	30	50	SKC10	0.9	
	BT30AD/B-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1	
	BT30AD/B-SKA13-60	2.75-13.0	60	33	33	31	65	SKC13	1	
	BT30AD/B-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.1	
	BT30AD/B-SKA16-60	2.75-16.0	60	40	40	45	60	SKC16	1.1	
	BT30AD/B-SKA16-90	2.75-16.0	90	40	40	45	60	SKC16	1.2	
	BT30AD/B-SKA20-60	4.0-20.0	60	48.5	48.5	65	75	SKC20	1.3	
	BT30AD/B-SKA20-90	4.0-20.0	90	48.5	48.5	65	75	SKC20	1.4	
	BT30AD/B-SKA25-90	16.0-25.4	90	55	55	55	75	SKC25	1.5	
40	BT40AD/B-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	1.1	
	BT40AD/B-SKA06-120	0.9-6.0	120	20	19.5	21	35	SKC6	1.4	
	BT40AD/B-SKA06-150	0.9-6.0	150	20	19.5	21	35	SKC6	1.5	
	BT40AD/B-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1.2	
	BT40AD/B-SKA10-120	1.75-10.0	120	28	27.5	30	50	SKC10	1.4	
	BT40AD/B-SKA10-150	1.75-10.0	150	28	27.5	30	50	SKC10	1.6	
	BT40AD/B-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.4	
	BT40AD/B-SKA13-120	2.75-13.0	120	33	33	31	65	SKC13	1.6	
	BT40AD/B-SKA13-150	2.75-13.0	150	33	40	31	65	SKC13	1.8	
	BT40AD/B-SKA16-90	2.75-16.0	90	40	40	45	70	SKC16	1.5	
	BT40AD/B-SKA16-120	2.75-16.0	120	40	40	45	70	SKC16	1.7	
	BT40AD/B-SKA16-150	2.75-16.0	150	40	40	45	70	SKC16	1.9	
	BT40AD/B-SKA20-90	4.0-20.0	90	48.5	48.5	47	80	SKC20	1.6	
	BT40AD/B-SKA20-120	4.0-20.0	120	48.5	48.5	47	80	SKC20	2	
	BT40AD/B-SKA20-150	4.0-20.0	150	48.5	48.5	47	80	SKC20	2.4	
	BT40AD/B-SKA25-90	16.0-25.4	90	55	55	55	85	SKC25	1.8	
	BT40AD/B-SKA25-120	16.0-25.4	120	55	55	55	85	SKC25	2	
	BT40AD/B-SKA25-150	16.0-25.4	150	55	55	55	85	SKC25	2.3	

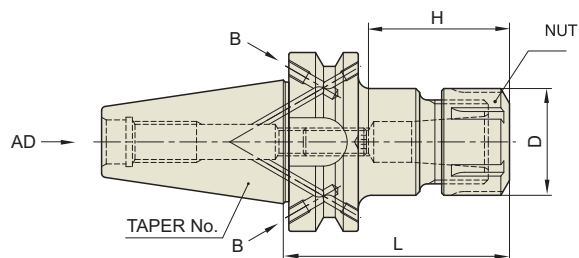
► Feature :

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

► For applicable SK collet, please refer to page 151 and 152.

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

JIS B6339/MAS 403-BT

Unit : mm

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

► Feature :

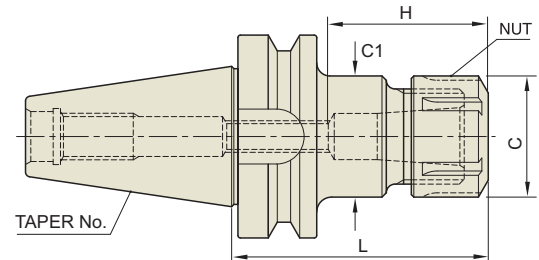
Minimizing interference between tool holder and workpiece by employing slim type design.

► For applicable SK collet, please refer to page 151 and 152.

SK Slim
Chuck

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 6.3	RPM 15,000	Coolant System AD
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JIS B6339/MAS 403-BT

Unit : mm

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

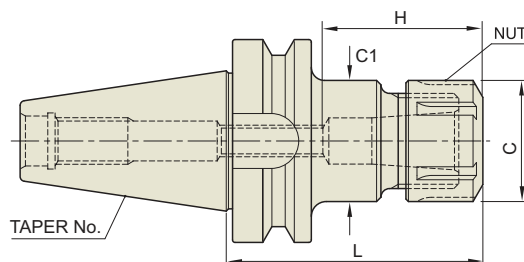
► Feature :

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

► For applicable SK collet, please refer to page 151 and 152.

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 6.3	RPM 15,000	Coolant System AD
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JIS B6339/MAS 403-BT

Unit : mm

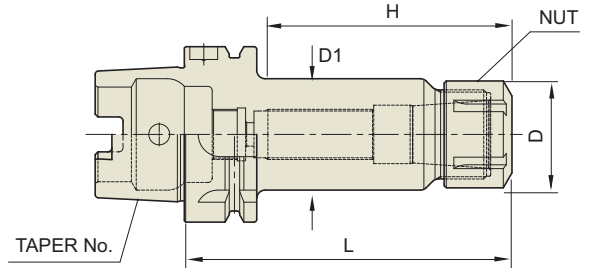
TAPER No.	MODEL No.	CLAMPING RANGE	L	C	C1	H		COLLET	Weight (kg)	Stock
						Min	Max			
50	BT50-SKA06-105	0.9-6.0	105	20	19.5	21	35	SKC6	3.8	●
	BT50-SKA06-135	0.9-6.0	135	20	19.5	21	35	SKC6	3.9	●
	BT50-SKA06-165	0.9-6.0	165	20	32.5	21	35	SKC6	4	
	BT50-SKA06-195	0.9-6.0	195	20	32.5	21	35	SKC6	4.2	
	BT50-SKA10-105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

- **Feature :**
Minimizing interference between tool holder and workpiece by employing slim type design.
- For applicable SK collet, please refer to page 151 and 152.

SK Slim
Chuck

SK SLIM CHUCK

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



DIN69893- HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Coolant System AD
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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

DIN 69893/ISO 12164-1-HSK FORM E

Unit : mm

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

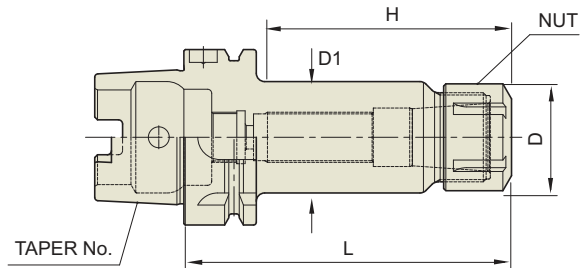
► Feature :

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

► For applicable SK collet, please refer to page 151 and 152.

SK SLIM CHUCK

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



DIN69893- HSK	Taper Accuracy	G Value 6.3	RPM 15,000	Coolant System AD
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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

SK Slim
Chuck

DIN 69893/ISO 12164-1-HSK FORM E

Unit : mm

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

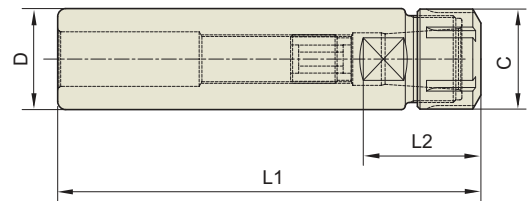
► Feature :

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

► For applicable SK collet, please refer to page 151 and 152.

SK SLIM CHUCK

SK SCHLANKE FUTTER - GERADEAUS SCHAFT
 MANDRIN TYPE SK MINCE - TOUT DROIT TIGE
 SK MANDRINI SOTTILI - TIBIA DIRITTA
 PORTAHERRAMIENTAS SK EJE REDUCIDO - CANA RECTA



STRAIGHT-K

Unit : mm

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

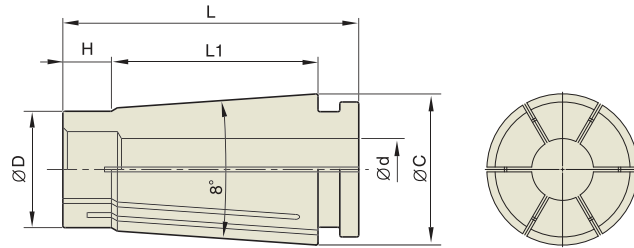
► **Feature :**

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

► For applicable SK collet, please refer to page 151 and 152.

SK COLLET

SK SCHLANKE FUTTER SPANNZANGE
MANDRIN TYPE SK MINCE PINCE DE SERRAGE
SK MANDRINI SOTTILI PINZA DI SERRAGGIO
PORTAHERRAMIENTAS SK EJE REDUCIDO PINZA PORTAPIEZAS



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

Unit : mm

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

► Stock Control Item

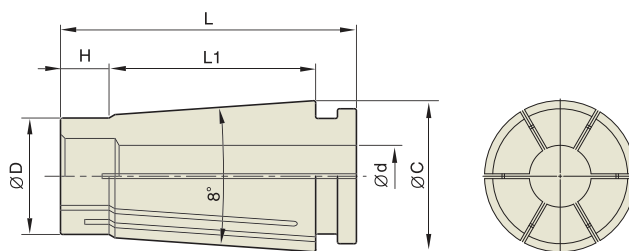
SKC COLLET DIMENSION

Unit : mm

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

SK COLLET

SK SCHLANKE FUTTER SPANNZANGE
MANDRIN TYPE SK MINCE PINCE DE SERRAGE
SK MANDRINI SOTTILI PINZA DI SERRAGGIO
PORTAHERRAMIENTAS SK EJE REDUCIDO PINZA PORTAPIEZAS



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

Unit : mm

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

► Stock Control Item

SK NUT

SKN NUSS
SKN ÉCROU
SKN DADO
SKN TUERCA

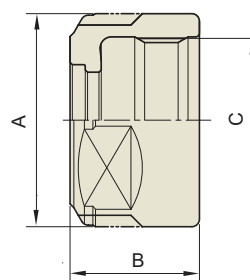


FIG 1

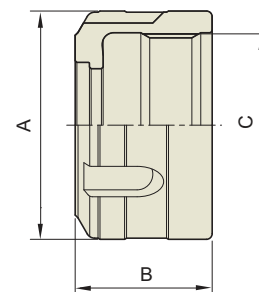


FIG 2

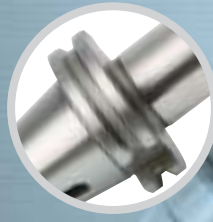
Unit : mm

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

► Stock Control Item

SK Slim
Chuck

The Top Leader of World Toolholder Industry



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



TAPPING ER CHUCK

ER - GEWINDESCHNEIDFUTTER

MANDRIN DE TARAUDAGE PINCE ER

MANDRINI PORTAPINZA ER PER
MASCHIATURA

PORTAPINZAS ER PARA MACHOS

SYNCHRO TAPPING ER CHUCK

DIN 69871-SK

TAPPING ER CHUCK

DIN 69871-SK

DIN 69893/ISO 12164-1-HSK

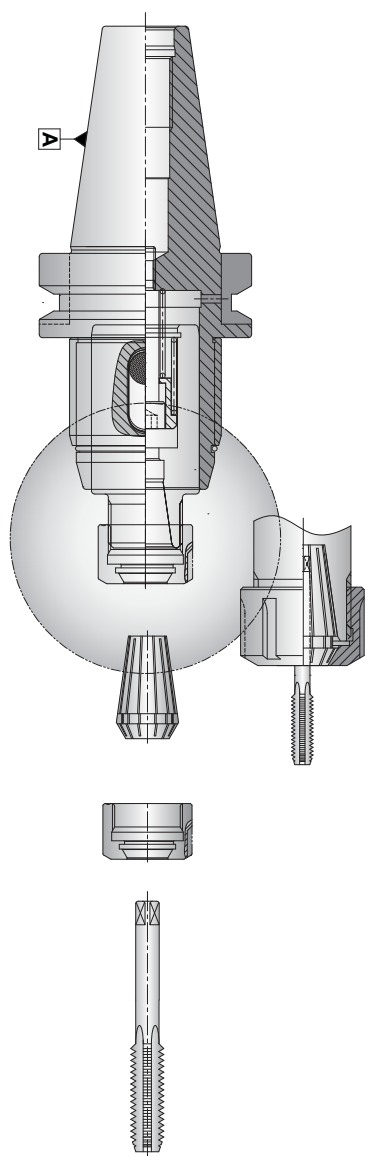
CBT (BT DUAL CONTACT)

JIS B6339 / MAS 403-BT

TAPPING ER CHUCK & TAP CHUCK

Tapping ER chuck

Tapping chuck



Minimizing tool interference during machining with short gauge line

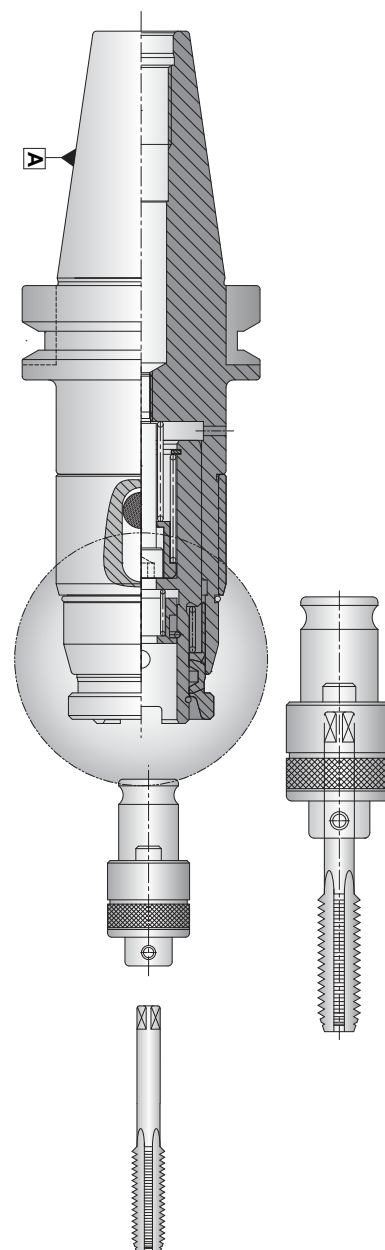
Interfered with tool during machining due to long gauge line

Combining strength of strong torque power of ER chuck and tension and compression function of tapping chuck

Tension and compression function

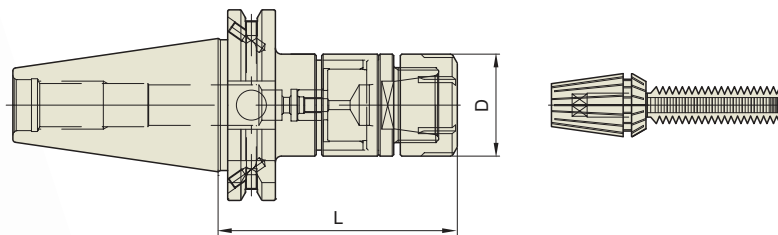
Possible to change suitable tap for machining conditions by replacement of cheaper ER collet (Sharing collet with ER chuck)
-> Saving costs

Preparing and changing expensive tap adaptor according to machining conditions



SYNCHRO TAPPING ER CHUCK **NEW**

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


DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System
AD/B

DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	TAP SIZE	CLAMPING RANGE	NUT	D	L	Weight (kg)	Stock
40	SK40AD/B-SYTER12-79	M3-M12	3.5-10	ER16	28	79		●
	SK40AD/B-SYTER16-85	M3-M16	3.5-10	ER20	34	85		●
	SK40AD/B-SYTER20-90	M3-M20	3.5-16	ER25	42	90		●
	SK40AD/B-SYTER27-100	M4-M27	3.5-16	ER32	50	100		●
	SK40AD/B-SYTER33-105	M4-M33	7-16	ER40	63	105		●
50	SK50AD/B-SYTER12-79	M3-M12	3.5-10	ER16	28	79		
	SK50AD/B-SYTER16-85	M3-M16	3.5-10	ER20	34	85		
	SK50AD/B-SYTER20-90	M3-M20	3.5-16	ER25	42	90		
	SK50AD/B-SYTER27-100	M4-M27	3.5-16	ER32	50	100		
	SK50AD/B-SYTER33-105	M4-M33	7-16	ER40	63	105		

► BT(JIS B6339/MAS-403), HSK(DIN 69893/ISO 12164-1) and K-Straight taper products are available.

For details , please discuss separately.

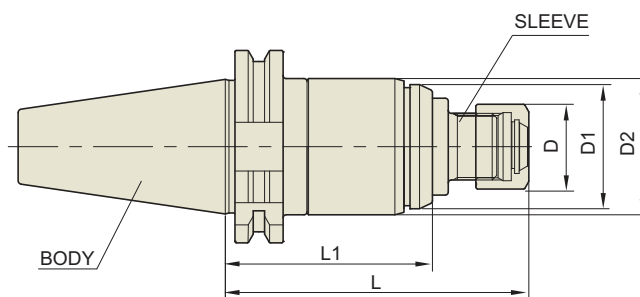
► Feature :

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

► ER collet of page79~81, and Tap ER collet of page 82 are applicable.

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	G Value	RPM	Coolant System
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DIN 69871-SK

DIN 69871-SK

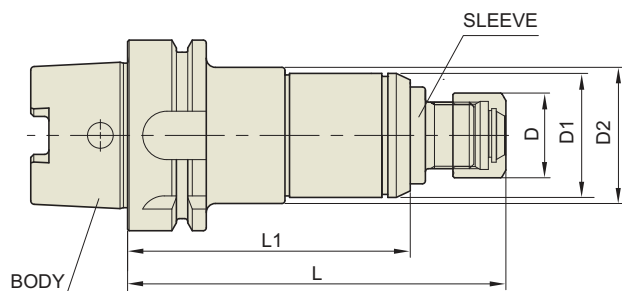
Unit : mm

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

- CAT(ANSI B5.50) taper and Inch type products area available.
- ER collet of page 79~81, and Tap ER collet of page 82 are applicable.

TAPPING ER CHUCK

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


DIN 69893
- HSK

Taper
Accuracy

G Value

RPM

Coolant
System

DIN 69893/ISO 12164-1-HSK FORM A

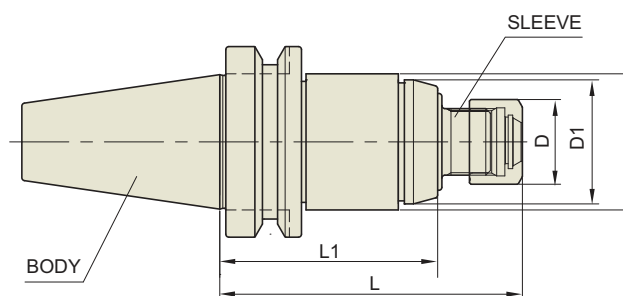
Unit : mm

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

► ER collet of page 79~81, and Tap ER collet of page 82 are applicable.

TAPPING ER CHUCK

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



CBT	Taper Accuracy AT3	G Value	RPM	Coolant System
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CBT (BT DUAL CONTACT)

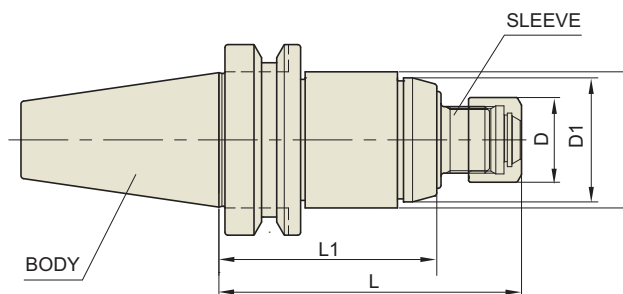
Unit : mm

TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT	Weight (kg)	Stock
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	

► ER collet of page 79~81, and Tap ER collet of page 82 are applicable.

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

G Value

RPM

Coolant
System

JIS B6339/MAS 403-BT

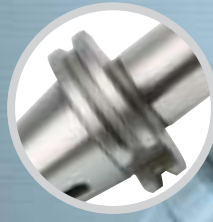
Unit : mm

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

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

► ER collet of page 79~81, and Tap ER collet of page 82 are applicable.

The Top Leader of World Toolholder Industry



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



TAP CHUCK

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

SYNCHRO TAP CHUCK

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

TAP CHUCK

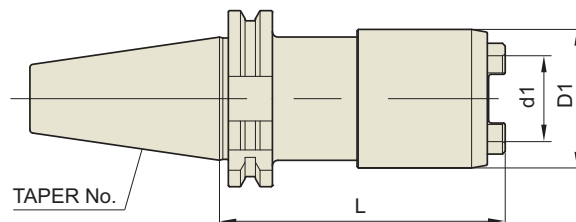
DIN 69871-SK
DIN 69893/ISO 12164-1-HSK
CBT (BT DUAL CONTACT)
JIS B6339/MAS 403-BT
STRAIGHT-K
DIN 228-MTA

ACCESSORY

TAP ADAPTER

SYNCHRO TAP CHUCK (QUICK CHANGE TYPE) **NEW**

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


DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	TAP SIZE	Matching inserts	d1	D1	L	G	Weight (kg)	Stock
30	SK30-SYTC12-65	M3-M12	1	19	36	65	M12	0.5	
	SK30-SYTC20-89	M8-M20	2	31	53	89	M12	1	
40	SK40-SYTC12-65	M3-M12	1	19	36	65	M16	1.1	●
	SK40-SYTC20-79	M8-M20	2	31	53	79	M16	1.5	●
	SK40-SYTC33-115	M14-M33	3	48	78	114	M16	3.3	●
50	SK50-SYTC12-65	M3-M12	1	19	36	65	M24	3	
	SK50-SYTC20-65	M8-M20	2	31	53	79	M24	3.3	
	SK50-SYTC33-65	M14-M33	3	48	78	115	M24	5.2	
	SK50-SYTC48-65	M22-M48	4	60	96	132	M24	6.5	

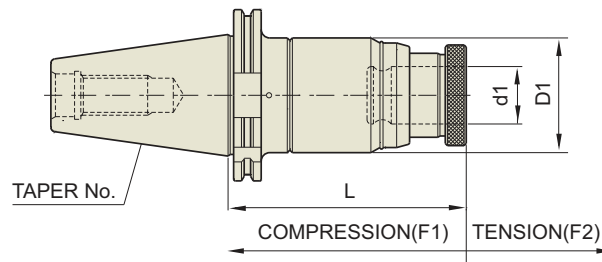
► Feature :

- To compensate 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 172 and 173

TAP CHUCK

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


DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

DIN 69871-SK

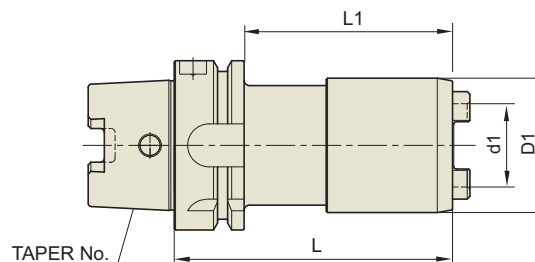
Unit : mm

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

- CAT(ANSI B5.50) taper and Inch type products are available.
- For applicable Tap Adaptor, please refer to page 172 and 173.

SYNCHRO TAP CHUCK (QUICK CHANGE TYPE) **NEW**

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



DIN 69893
- HSK

Taper
Accuracy

G Value

RPM

Coolant
System

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	TAP SIZE	Matching inserts	d1	D1	L	L1	Weight (kg)	Stock
32A	HSK32A-SYTC12-75	M3-M12	1	19	36	75	51		
50A	HSK50A-SYTC12-72	M3-M12	1	19	36	72	46		
	HSK50A-SYTC20-91	M8-M20	2	31	53	91	65		
63A	HSK63A-SYTC12-75	M3-M12	1	19	36	75	46		●
	HSK63A-SYTC12-80	M3-M12	1	19	36	80	54		●
	HSK63A-SYTC12-120	M3-M12	1	19	36	120	94		●
	HSK63A-SYTC12-152	M3-M12	1	19	36	152	126		●
	HSK63A-SYTC12-180	M3-M12	1	19	36	180	154		●
	HSK63A-SYTC20-89	M8-M20	2	31	53	89	63		●
	HSK63A-SYTC33-121	M14-M33	3	48	78	121	95		●
100A	HSK100A-SYTC-12-72	M3-M12	1	19	36	72	43		
	HSK100A-SYTC-12-160	M3-M12	1	19	36	160	131		
	HSK100A-SYTC-20-94	M8-M20	2	31	53	94	65		
	HSK100A-SYTC20-160	M8-M20	2	31	53	160	131		
	HSK100A-SYTC33-127	M14-M33	3	48	78	127	98		
	HSK100A-SYTC33-160	M14-M33	3	48	78	160	131		
	HSK100A-SYTC48-160	M22-M48	4	60	96	160	131		

Tap Chuck

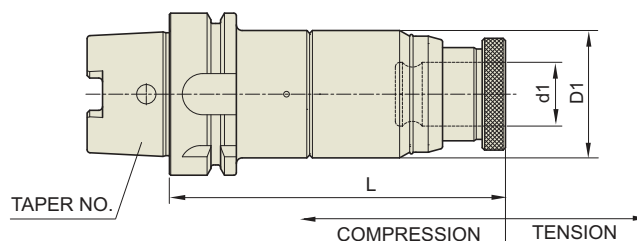
► Feature :

- To compensate 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 172 and 173

TAP CHUCK

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



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

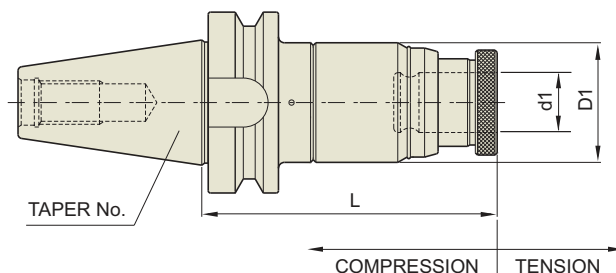
Unit : mm

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

► For applicable Tap Adaptor, please refer to page 172 and 173.

TAP CHUCK

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



CBT	Taper Accuracy AT3	G Value	RPM	Coolant System
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CBT (BT DUAL CONTACT)

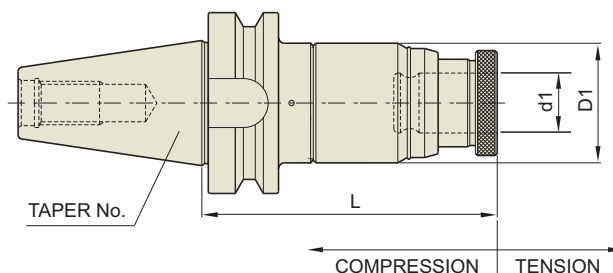
Unit : mm

TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L	Weight (kg)	Stock
			COMP.	TEN.					
30	CBT30-TC12-105	M3~M12	5	15	19	45	105	1.0	
40	CBT40-TC12- 90	M3~M12	5	15	19	45	90	1.5	●
	CBT40-TC12-130	M3~M12	5	15	19	45	130	1.6	
	CBT40-TC24-100	M6~M24	5	20	31	63	100	2.1	●
	CBT40-TC24-142	M6~M24	5	20	31	63	142	2.9	
50	CBT50-TC12-130	M3~M12	5	15	19	45	130	4.2	
	CBT50-TC12-175	M3~M12	5	15	19	45	175	4.8	
	CBT50-TC12-220	M3~M12	5	15	19	45	220	5.1	
	CBT50-TC24-142	M6~M24	5	20	31	63	142	5.8	
	CBT50-TC24-187	M6~M24	5	20	31	63	187	6.0	
	CBT50-TC38-175	M18~M38	10	25	48	98	175	8.3	

► For applicable Tap Adaptor, please refer to page 172 and 173.

TAP CHUCK

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



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

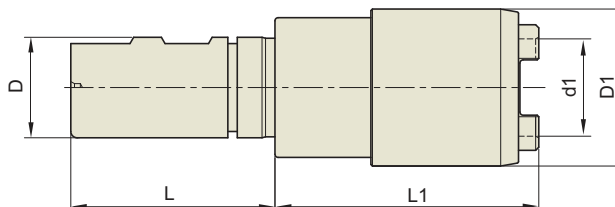
Unit : mm

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

- ▶ CAT(ANSI B5.50) taper and Inch type products are available.
- ▶ For applicable Tap Adaptor, please refer to page 172 and 173.

SYNCHRO TAP CHUCK (QUICK CHANGE TYPE) **NEW**

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



STRAIGHT-K

Unit : mm

TAPER No.	MODEL No.	For tap sizes	Matching inserts	d1	D1	L	G	Weight (kg)	Stock
20	K20-SYTC12-46	M3-M12	1	19	36	46	51		
	K20-SYTC12-107.5	M14-M33	3	48	78	107.5	61.5		
25	K25-SYTC12-46	M3-M12	1	19	36	46	51		
	K25-SYTC20-74	M8-M20	2	31	53	74	57		
	K25-SYTC33-107.5	M14-M33	3	48	78	107.5	57		
32	K32-SYTC12-74	M8-M20	2	31	53	74	61.5		

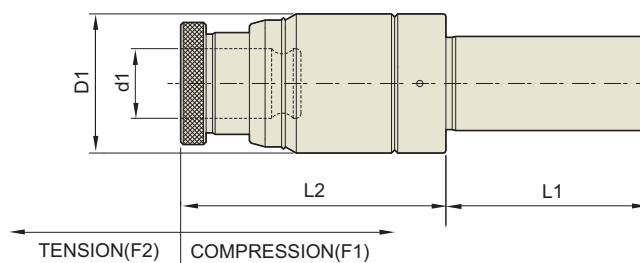
► **Feature :**

- To compensate 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 172 and 173.

TAP CHUCK

GEWINDESCHNEID-SCHNELLWECHSELFUTTER - GERADEAUS SCHAFT
TARAUDER À CHANGEMENT RAPIDE — TOUT DROIT TIGE
MANDRINO PER MASCHIARE - TIBIA DIRITTA
PORTAMACHOS DE CAMBIO RAPIDO - CANA RECTA

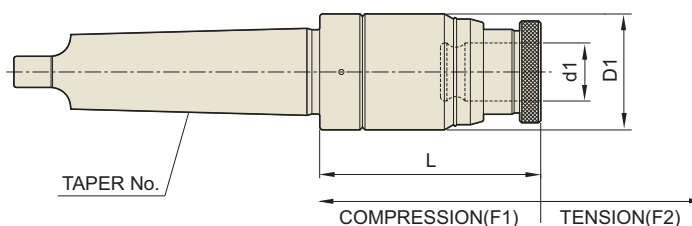


STRAIGHT-K

Unit : mm

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

► For applicable Tap Adaptor, please refer to page 172 and 173.



Tap Chuck

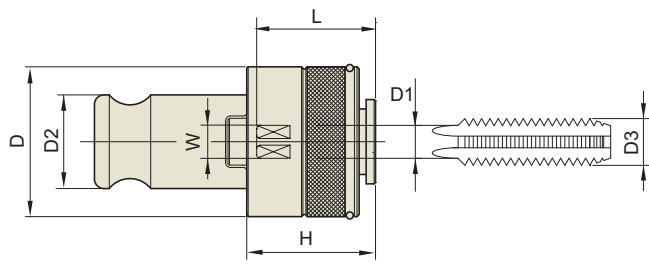
DIN 228-MTA

Unit : mm

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

TAP ADAPTER (JIS)

SCHNELLWECHSEL-EINSATZ
ADAPTATEUR CHANGEMENT RAPIDE
BUSSOLA A INNESTO RAPIDO
INSERTO DE CAMBIO RAPIDO



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

Unit : mm

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

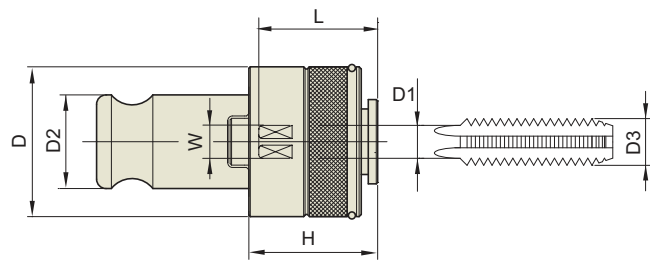
► Stock Control Item

► Feature : Quick Change Type with Built-in Torque Safety Device

Tap Chuck

DIN TAP ADAPTOR (DIN)

SNHELLWECHSEL-EINSATZ
ADAPTATEUR CHANGEMENT RAPIDE
BUSSOLA A INNESTO RAPIDO
INSERTO DE CAMBIO RAPIDO



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

Unit : mm

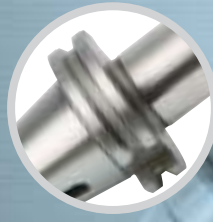
TYPE	MODEL No.	D	D1(Ø)	D2	H	W(□)	L	DIN No.	Weight (kg)
TCS12-D	12 D-2821	32	2.8	19	25	2.1	24	371	0.2
	12 D-3527	32	3.5	19	25	2.7	24	371	0.2
	12 D-4534	32	4.5	19	25	3.4	24	371	0.2
	12 D-43	32	4	19	25	3	24	371	0.2
	12 D-5543	32	5.5	19	25	4.3	25	376	0.2
	12 D-649	32	6	19	25	4.9	25	371	0.2
	12 D-755	32	7	19	25	5.5	25	376	0.2
	12 D-862	32	8	19	25	6.2	25	371	0.2
	12 D-97	32	9	19	25	7	26	376	0.2
	12 D-108	32	10	19	25	8	26	371	0.2
	12 D-119	32	11	19	25	9	26	376	0.2
TCS24-D	24 D-649	52	6	31	33	4.9	38	371	0.6
	24 D-755	52	7	31	33	5.5	38	376	0.6
	24 D-862	52	8	31	33	6.2	38	371	0.6
	24 D-97	52	9	31	33	7	38	376	0.6
	24 D-108	52	10	31	33	8	39	371	0.6
	24 D-119	52	11	31	33	9	41	376	0.6
	24 D-129	52	12	31	33	9	43	376	0.6
	24 D-1411	52	14	31	33	11	43	376	0.6
	24 D-1612	52	16	31	33	12	46	376	0.6
	24 D-18145	52	18	31	33	14.5	46	376	0.6
TCS38-D	38 D-119	72	11	48	45	9	43	376	1.8
	38 D-129	72	12	48	45	9	43	376	1.8
	38 D-1411	72	14	48	45	11	45	376	1.8
	38 D-1612	72	16	48	45	12	45	376	1.8
	38 D-18145	72	18	48	45	14.5	62	376	1.8
	38 D-2016	72	20	48	45	16	64	376	1.8
	38 D-2218	72	22	48	45	18	66	376	1.8
	38 D-2520	72	25	48	45	20	68	376	1.8
	38 D-2822	72	28	48	45	22	68	376	1.8

► Stock Control Item

► Feature : Quick Change Type with Built-in Torque Safety Device

Tap Chuck

The Top Leader of World Toolholder Industry



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



FACE MILL SYSTEM

AUFNAHMEDORNE

MANDRIN PORTE FRAISE À ALÉSAGE

SISTEMA PORTA FRESE FRONTALE

SISTEMA PARA PLATOS DE PLACAS

FACE MILL ARBOR

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT
FMA

DIN 69893/ISO12164-1-HSK
FMA

ANSI B5.18-NT
FMA

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT
FMB
FMC

DIN 69893/ISO12164-1-HSK
FMC

FACE MILL ARBOR NEW

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



FIG.1

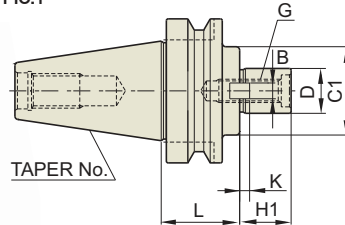
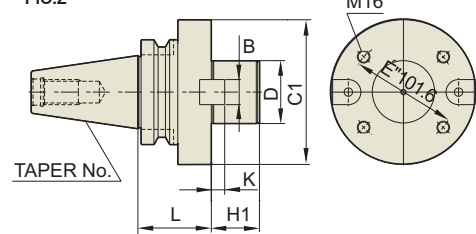


FIG.2



CBT

Taper Accuracy
AT3

G Value
G2.5

RPM
25,000

Coolant System
AD

CBT (BT DUAL CONTACT)

Unit : mm

TAPER No.	MODEL No.	D	L1	C1	H1	B	K	G	FIG.	Weight (kg)	Stock
30	CBT30-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	1.1	
	CBT30-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	1.2	
40	CBT40-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	1.5	●
	CBT40-FMA25.4 -90	25.4	90	50	22	9.5	5	M12	1	3.1	
	CBT40-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	1.9	●
	CBT40-FMA31.75-75	31.75	75	60	30	12.7	7	M16	1	2.7	
	CBT40-FMA38.1 -60	38.1	60	80	34	15.9	9	M20	1	2.9	●
50	CBT50-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	3.7	
	CBT50-FMA25.4 -90	25.4	90	50	22	9.5	5	M12	1	4.6	
	CBT50-FMA25.4 -150	25.4	150	50	22	9.5	5	M12	1	5.5	
	CBT50-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	4.5	
	CBT50-FMA31.75-75	31.75	75	60	30	12.7	7	M16	1	5.3	
	CBT50-FMA31.75-105	31.75	105	60	30	12.7	7	M16	1	5.8	
	CBT50-FMA31.75-150	31.75	150	60	30	12.7	7	M16	1	6.3	
	CBT50-FMA38.1 -45	38.1	45	80	34	15.9	9	M20	1	4.3	
	CBT50-FMA38.1 -75	38.1	75	80	34	15.9	9	M20	1	5.6	
	CBT50-FMA38.1 -105	38.1	105	80	34	15.9	9	M20	1	6.0	
	CBT50-FMA38.1 -150	38.1	150	80	34	15.9	9	M20	1	6.5	
	CBT50-FMA50.8 -45	50.8	45	100	36	19.05	10	M24	1	4.9	
	CBT50-FMA50.8 -75	50.8	75	100	36	19.05	10	M24	1	6.8	
	CBT50-FMA47.625-75	47.625	75	128.57	38	25.4	12.5	-	2	7.7	

► For parts, please refer to page 185.

FACE MILL ARBOR

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



FIG.1

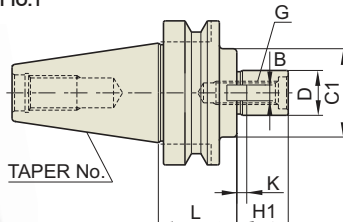
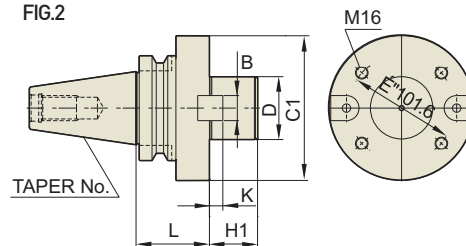


FIG.2


JIS B6339
- BT

Taper
Accuracy
AT3

G Value
G6.3

RPM
15,000

Coolant
System
AD

JIS B6339/MAS 403-BT

Unit : mm

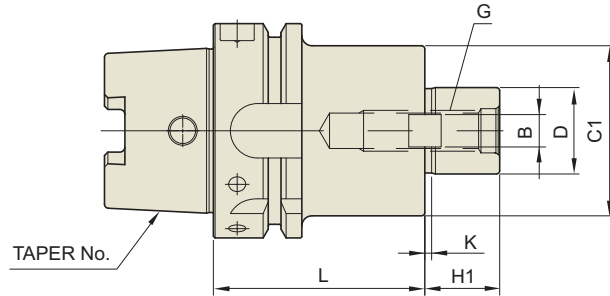
TAPER No.	MODEL No.	D	L1	C1	H1	B	K	G	FIG.	Weight (kg)	Stock
30	BT30-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	1.1	●
	BT30-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	1.2	●
40	BT40-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	1.5	●
	BT40-FMA25.4 -90	25.4	90	50	22	9.5	5	M12	1	3.1	
	BT40-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	1.9	●
	BT40-FMA31.75-75	31.75	75	60	30	12.7	7	M16	1	2.7	
	BT40-FMA38.1 -60	38.1	60	80	34	15.9	9	M20	1	2.9	●
50	BT50-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	3.7	●
	BT50-FMA25.4 -90	25.4	90	50	22	9.5	5	M12	1	4.6	●
	BT50-FMA25.4 -150	25.4	150	50	22	9.5	5	M12	1	5.5	●
	BT50-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	4.5	●
	BT50-FMA31.75-75	31.75	75	60	30	12.7	7	M16	1	5.3	●
	BT50-FMA31.75-105	31.75	105	60	30	12.7	7	M16	1	5.8	●
	BT50-FMA31.75-150	31.75	150	60	30	12.7	7	M16	1	6.3	●
	BT50-FMA38.1 -45	38.1	45	80	34	15.9	9	M20	1	4.3	●
	BT50-FMA38.1 -75	38.1	75	80	34	15.9	9	M20	1	5.6	●
	BT50-FMA38.1 -105	38.1	105	80	34	15.9	9	M20	1	6.0	●
	BT50-FMA38.1 -150	38.1	150	80	34	15.9	9	M20	1	6.5	●
	BT50-FMA50.8 -45	50.8	45	100	36	19.05	10	M24	1	4.9	●
	BT50-FMA50.8 -75	50.8	75	100	36	19.05	10	M24	1	6.8	●
	BT50-FMA47.625-75	47.625	75	128.57	38	25.4	12.5	-	2	7.7	●

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

► For parts, please refer to page 185.

FACE MILL ARBOR

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



DIN 69893
- HSK

Taper
Accuracy

G Value
6.3

RPM
15,000

Coolant
System
AD

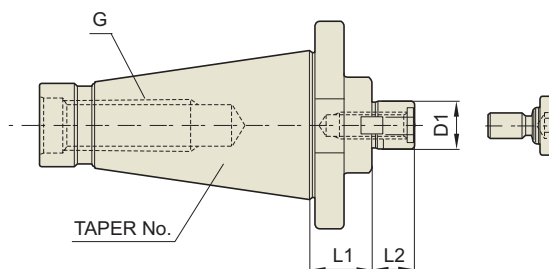
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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

FACE MILL ARBOR

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

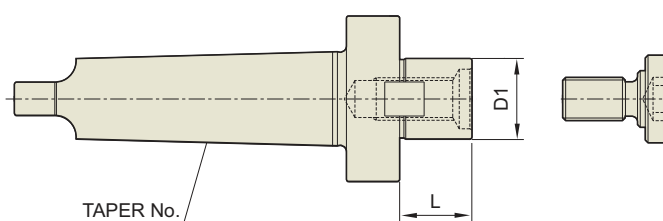


DIN 2080 - NT	Taper Accuracy AT3	G Value	RPM	Coolant System
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ANSI B5.18-NT

Unit : mm

TAPER No.	MODEL No.	CUTTERØ	D1	L1	L2	DRAW THREAD	OLD MODEL NO.	Weight (kg)	Stock
40	NT40-FMA25.4	3" (75Ø)	25.4	30	22	U5/8-11(M16×2)	NT40-3R	1.45	
	NT40-FMA31.75	4" (100Ø)	31.75	30	30	U5/8-11(M16×2)	NT40-4R	1.75	
	NT40-FMA38.1	5" (125Ø)	38.1	30	34	U5/8-11(M16×2)	NT40-5R	1.93	
	NT40-FMA50.8	6" (150Ø)	50.8	30	36	U5/8-11(M16×2)	NT40-6R	2.55	
50	NT50-FMA25.4	3" (75Ø)	25.4	30	22	U1-8(M24×3)	NT50-3R	3.30	
	NT50-FMA31.75	4" (100Ø)	31.75	30	30	U1-8(M24×3)	NT50-4R	3.40	
	NT50-FMA38.1	5" (125Ø)	38.1	30	34	U1-8(M24×3)	NT50-5R	3.60	
	NT50-FMA50.8	6" (150Ø)	50.8	30	36	U1-8(M24×3)	NT50-6R	3.90	
	NT50-FMA47.625	8" (200Ø)	47.625	45	38	U1-8(M24×3)	NT50-8R	4.90	



DIN 228-MTA

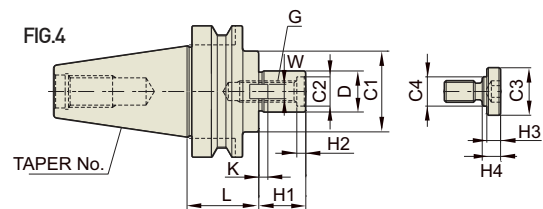
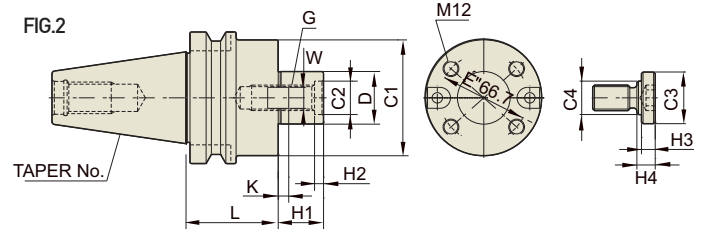
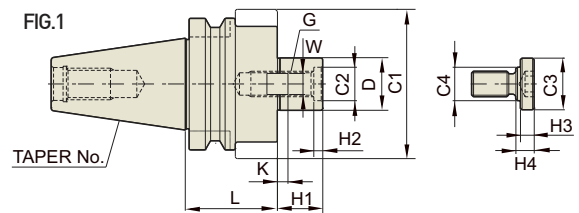
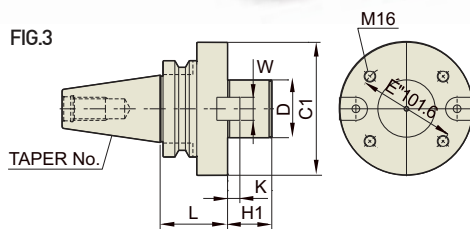
Unit : mm

TAPER No.	MODEL No.	CUTTERØ	D1	L	Weight (kg)	Stock
5	MT5-FMA25.4	3" (75Ø)	25.4	22	1.60	
	MT5-FMA31.75	4" (100Ø)	31.75	30	1.90	
	MT5-FMA38.1	5" (125Ø)	38.1	34	2.20	
6	MT6-FMA25.4	3" (75Ø)	25.4	22	3.50	
	MT6-FMA31.75	4" (100Ø)	31.75	30	3.80	
	MT6-FMA38.1	5" (125Ø)	38.1	34	4.10	
	MT6-FMA50.8	6" (150Ø)	50.8	36	4.60	
	MT6-FMA47.625	8" (200Ø)	47.625	38	5.40	

► For parts, please refer to page 130.

FACE MILL ARBOR **NEW**

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

**CBT (BT DUAL CONTACT)****METRIC TYPE**

CBT	Taper Accuracy AT3	G Value G2.5	RPM 25,000	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	D	L	C1	C2	H1	H2	W	K	G	C3	C4	H3	H4	FIG.	Weight (kg)	Stock
30	CBT30-FMB27- 40	27	40	80	-	26	-	12	6	M12	33	23	10	10	4	2.1	●
40	CBT40-FMB27- 60	27	60	80	-	26	-	12	6	M12	33	23	10	10	4	2.5	●
	CBT40-FMB27- 90	27	90	80	-	26	-	12	6	M12	33	23	10	10	4	4.7	●
	CBT40-FMB40- 60	40	60	85	28	26	6	16	8.5	M20	50	27	14	20	4	7.4	●
50	CBT50-FMB27- 45	27	45	80	-	26	-	12	6	M12	33	23	10	12	1	4.0	
	CBT50-FMB27- 90	27	90	80	-	26	-	12	6	M12	33	23	10	12	1	5.8	
	CBT50-FMB27-150	27	150	80	-	26	-	12	6	M12	33	23	10	12	1	8.2	
	CBT50-FMB40- 45	40	45	85	28	26	6	16	8.5	M20	50	27	14	20	1	4.7	
	CBT50-FMB40- 75	40	75	85	28	26	6	16	8.5	M20	50	27	14	20	1	6.1	
	CBT50-FMB40- 105	40	105	85	28	26	6	16	8.5	M20	50	27	14	20	1	8.1	
	CBT50-FMB40F-75	40	75	110	28	26	6	16	8.5	M20	50	27	14	20	2	6.6	
	CBT50-FMB60- 75	60	75	140	-	25	-	25.4	12.5	-	-	-	-	-	3	7.9	

INCH TYPE

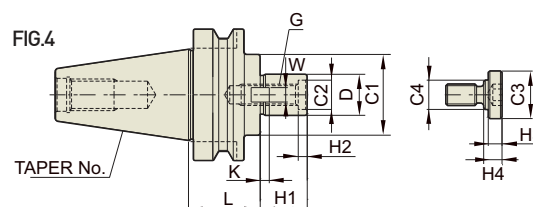
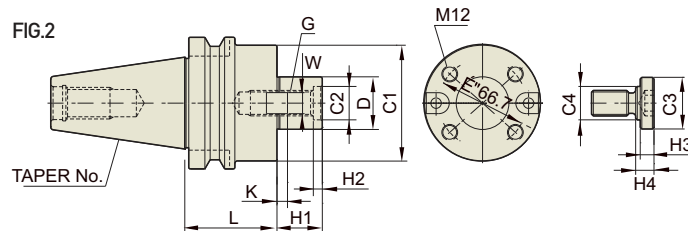
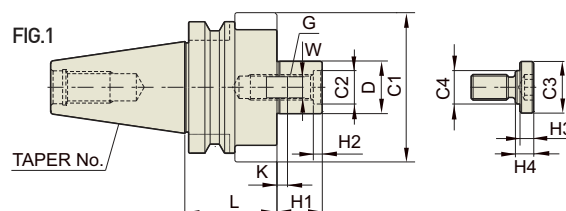
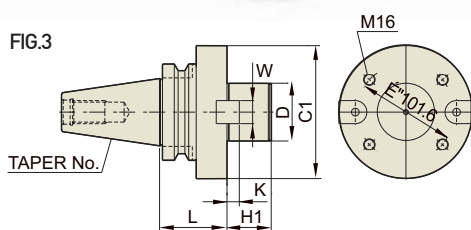
Unit : mm

TAPER No.	MODEL No.	D	L	C1	C2	H1	H2	W	K	G	C3	C4	H3	H4	FIG.	Weight (kg)	Stock
30	CBT30-FMB25.4-40	25.4	40	80	-	26	-	9.5	5	M12	33	23	10	12	4	2.1	
40	CBT40-FMB25.4-60	25.4	60	80	-	26	-	9.5	5	M12	33	23	10	12	4	2.5	
	CBT40-FMB25.4-90	25.4	90	80	-	26	-	9.5	5	M12	33	23	10	12	4	4.7	
	CBT40-FMB38.1-60	38.1	60	85	28	26	6	15.9	9	M20	60	27	14	20	4	7.4	
50	CBT50-FMB25.4-45	25.4	45	80	-	26	-	9.5	5	M12	33	23	10	12	1	4.0	
	CBT50-FMB25.4-90	25.4	90	80	-	26	-	9.5	5	M12	33	23	10	12	1	5.8	
	CBT50-FMB25.4-150	25.4	150	80	-	26	-	9.5	5	M12	33	23	10	12	1	8.2	
	CBT50-FMB38.1-45	38.1	45	85	28	26	6	15.9	9	M20	50	27	14	20	1	4.7	
	CBT50-FMB38.1-75	38.1	75	85	28	26	6	15.9	9	M20	50	27	14	20	1	6.1	
	CBT50-FMB38.1-105	38.1	105	85	28	26	6	15.9	9	M20	50	27	14	20	1	8.7	
	CBT50-FMB38.1F-75	38.1	75	110	28	26	6	15.9	9	M20	50	27	14	20	2	6.6	

► For parts, please refer to page 183.

FACE MILL ARBOR

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



JIS B6339/MAS 403-BT

METRIC TYPE

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

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

INCH TYPE

Unit : mm

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

► For parts, please refer to page 183.

FACE MILL ARBOR

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



FIG.1

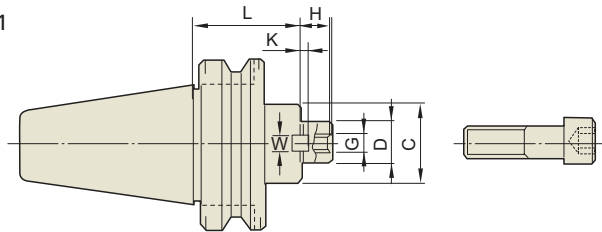
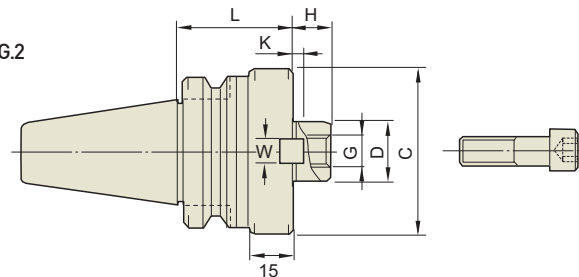


FIG.2



CBT	Taper Accuracy	G Value	RPM	Coolant System
CBT	AT3	G2.5	25,000	AD

CBT (BT DUAL CONTACT)

METRIC TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	Weight (kg)	Stock
30	CBT30-FMC22- 45	22	45	45	18	10	5	M10	2	0.8	
40	CBT40-FMC22- 45	22	45	45	18	10	5	M10	1	1.3	
	CBT40-FMC27- 60	27	60	70	20	12	6	M12	2	1.5	
	CBT40-FMC32- 60	32	60	85	22	14	7	M16	2	2.3	
50	CBT50-FMC22- 60	22	60	45	18	10	5	M10	1	4.2	
	CBT50-FMC22-105	22	105	45	18	10	5	M10	1	4.7	
	CBT50-FMC22-150	22	150	45	18	10	5	M10	1	5.3	
	CBT50-FMC27- 45	27	45	70	20	12	6	M12	1	4.1	
	CBT50-FMC27- 90	27	90	70	20	12	6	M12	1	5.5	
	CBT50-FMC27-150	27	150	70	20	12	6	M12	1	7.3	
	CBT50-FMC32- 60	32	60	85	22	14	7	M16	1	4.2	
	CBT50-FMC32-105	32	105	85	22	14	7	M16	1	5.5	
	CBT50-FMC32-150	32	150	85	22	14	7	M16	1	7.0	

INCH TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	Weight (kg)	Stock
30	CBT30-FMC25.4- 45	25.4	45	70	20	9.5	6	M12	2	1.1	
40	CBT40-FMC25.4- 60	25.4	60	70	20	9.5	6	M12	2	1.5	
	CBT40-FMC25.4- 90	25.4	90	70	20	9.5	6	M12	2	2.2	
	CBT40-FMC38.1- 60	38.1	60	85	22	15.9	7	M16	2	2.3	
	CBT40-FMC38.1- 75	38.1	75	85	22	15.9	7	M16	2	2.6	
50	CBT50-FMC25.4- 45	25.4	45	70	20	9.5	6	M12	1	4.1	
	CBT50-FMC25.4- 90	25.4	90	70	20	9.5	6	M12	1	5.5	
	CBT50-FMC25.4-150	25.4	150	70	20	9.5	6	M12	1	7.3	
	CBT50-FMC38.1- 45	38.1	45	85	22	15.9	7	M16	1	4.2	
	CBT50-FMC38.1- 75	38.1	75	85	22	15.9	7	M16	1	5.5	
	CBT50-FMC38.1-105	38.1	105	85	22	15.9	7	M16	1	7.0	

► For parts, please refer to page 183.

FACE MILL ARBOR

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



FIG.1

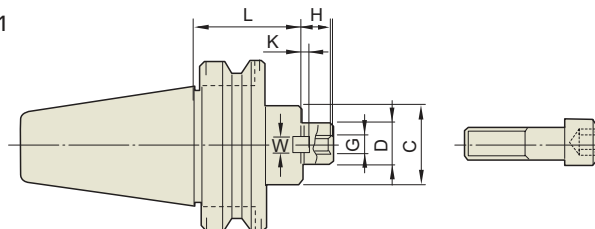
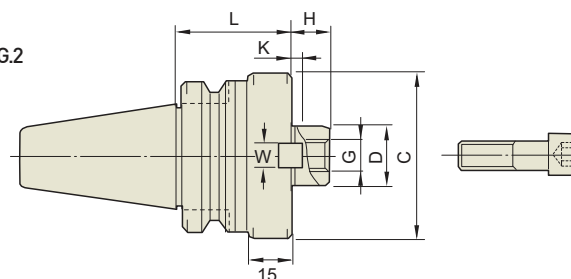


FIG.2

JIS B6339
- BTTaper
Accuracy
AT3G Value
G6.3RPM
15,000Coolant
System
AD

JIS B6339/MAS 403-BT

■ METRIC TYPE

Unit : mm

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

■ INCH TYPE

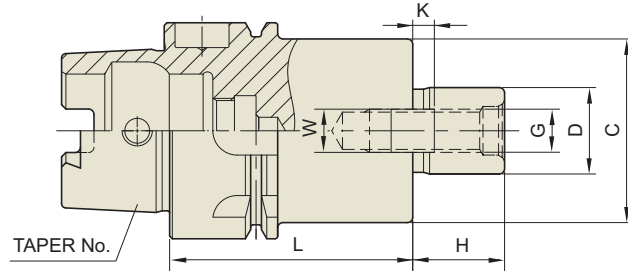
Unit : mm

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

► For parts, please refer to page 183.

FACE MILL ARBOR

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



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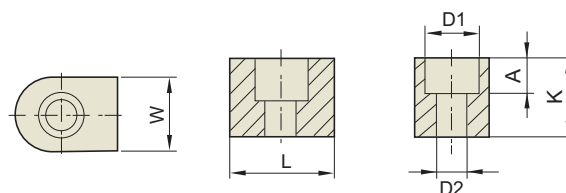
DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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

PARTS for FACE MILL ARBOR

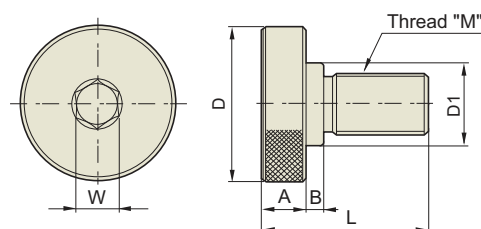
KEY



Unit : mm

Size	W	K	L	D1	D2	A	Applicable arbor
8×7×12.8	8	7	12.8	5.8	3.2	3.2	SMA16
10×7.8×15.5	10	7.8	15.5	7.5	4.2	4.3	SMA22
9.52×9.52×10.2	9.52	9.52	10.2	7.5	4.5	5.2	FMA25.4 / FMB25.4
9.5×12×11	9.5	12	11	7.5	4.2	5	FMC25.4
12×9×18.5	12	9	18.5	9	5.3	5.5	SMA27
10×10×11	10	10	11	7.5	4.2	5	FMC22
14×11.5×20.5	14	11.5	20.5	10.5	6.5	6.5	SMA32
12×13×18	12	13	18	9	5.3	8	FMB27 / FMC27
16×13.5×23.5	16	13.5	23.5	10.5	6.5	6.5	SMA40
12.7×12.7×12.7	12.7	12.7	12.7	7.5	4.5	5.2	FMA31.75
15.87×15.87×18.5	15.87	15.87	18.5	10.3	6.6	7.5	FMA38.1 / FMB40 / FMB40F
14×15×20	14	15	20	10.5	6.3	8	FMC32
18×18×28.5	18	18	28.5	10.5	6.5	10	SMA50
19×18×22	19	18	22	10.5	6.3	7	FMA50.8

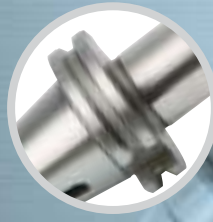
MOUNTING BOLT



Unit : mm

Size	M	D	D1	L	A	B	W	Applicable arbor
MB8	8X1.25	20	15	23	7	2	6	SMA16
MB10	10X1.5	28	18	29	9	2	8	SMA22
MB12	12×1.75	33	23	32	10	2	10	SMA27 / FMB27 / FMA25.4
MB16	16×2.0	40	23	42	10	6	12	SMA32 / FMA3.1.75
MB20	20×2.5	50	27	54	14	6	14	SMA40 / FMA38.1 / FMB40 / FMB40F
MB24	24×3.0	65	37	62	14	10	17	FMA50.8

The Top Leader of World Toolholder Industry



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



NC DRILL CHUCK

NC - BOHRFUTTER

MANDRIN DE PERÇAGE NC

NC MANDRINI PORTA PUNTE

PORTABROCAS PARA BROCAS NC

CBT (BT DUAL CONTACT)

JIS B6339/MAS 403-BT

DIN 69893/ISO12164-1-HSK

STRAIGHT-K

JACOBS TAPER ADAPTER

JIS B6339/MAS 403-BT

NC DRILL CHUCK



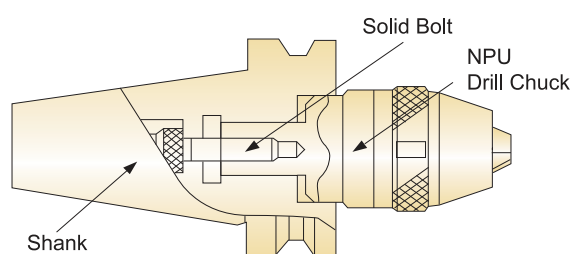
- **ZEIKEN** drill chuck is completely tightened with bolt for solid, and there is no danger of falling during rotating or cutting.

• Strong chucking power

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

HIGH PRECISION

• HIGHEST PRECISION



- Drill chuck with excellent high precision (TIR 0.04) and shank are integrated, which guarantees excellent TIR.

• Safety

ZEIKEN NC drill chuck with strong rigidity contributes to factory automation by unmanned operation by preventing accident from occurring during operation.

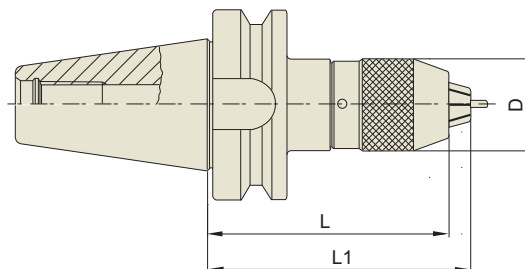
- Falling of drill occurring by sudden stopping
- Falling of drill occurring by rapid rotation
- Damage to drill caused by reverse thrust during perforation process

• Comparison of drill chuck torque

DESCRIPTION	CHUCKING	TWISTING
KEYLESS CHUCK	HAND	0.7kgf-m
ZEIKEN NPU CHUCK	HAND	0.7kgf-m
ZEIKEN NPU + WRENCH	WRENCH	2.2kgf-m

NC DRILL CHUCK **NEW**

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



CBT	Taper Accuracy AT3	G Value	RPM	Coolant System
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CBT (BT DUAL CONTACT)

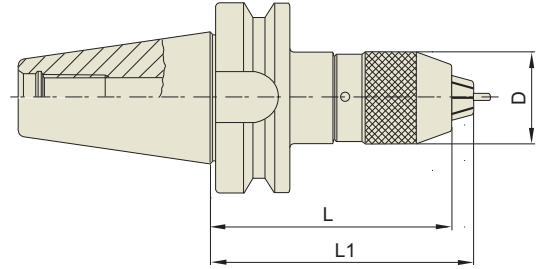
Unit : mm

TAPER No.	MODEL No.	RANGE	D	L(MIN)	L1(MAX)	Weight (kg)	Stock
30	CBT30-NPU 8- 70	0.3~8	36.5	70	75.7	0.80	●
	CBT30-NPU13-100	1~13	50.4	100	110	1.80	●
40	CBT40-NPU 8- 70	0.3~8	36.5	70	75.7	1.50	●
	CBT40-NPU 8-110	0.3~8	36.5	110	115.7	1.80	
	CBT40-NPU 8-150	0.3~8	36.5	150	155.7	2.60	
	CBT40-NPU13- 90	1~13	50.4	90	95.7	2.10	●
	CBT40-NPU13-130	1~13	50.4	130	140	2.70	●
	CBT40-NPU13-150	1~13	50.4	150	160	3.40	
50	CBT50-NPU 8- 90	0.3~8	36.5	90	95.7	4.20	
	CBT50-NPU 8-110	0.3~8	36.5	110	115.7	4.50	
	CBT50-NPU 8-170	0.3~8	36.5	170	180.7	5.20	
	CBT50-NPU13-100	1~13	50.4	100	110	4.80	
	CBT50-NPU13-130	1~13	50.4	130	140	5.20	
	CBT50-NPU13-150	1~13	50.4	150	160	5.50	
	CBT50-NPU13-190	1~13	50.4	190	200	5.90	

- Chucking Length
- NPU8 : 20mm
- NPU13 : 28mm

NC DRILL CHUCK

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



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

Unit : mm

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

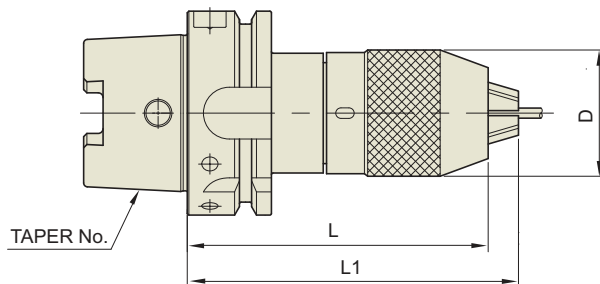
► Chucking Length

- NPU8 : 20mm
- NPU13 : 28mm

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

NC DRILL CHUCK

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

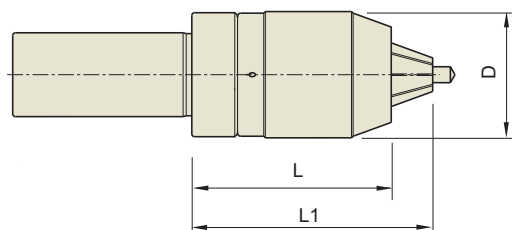


DIN 69893 - HSK	Taper Accuracy	G Value	RPM	Coolant System
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DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

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



STRAIGHT-K

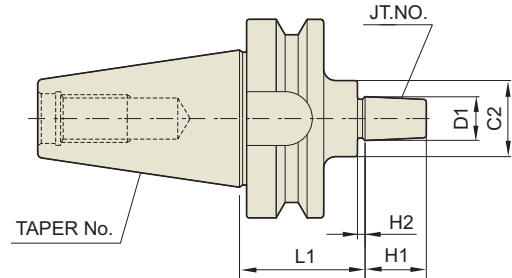
Unit : mm

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

NC Drill
Chuck

JACOBS TAPER ADAPTER

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


JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

JIS B6339/MAS 403-BT

Unit : mm

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

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

BORING SYSTEM

AUSBOHRSYSTEM

SYSTÈME D'ALÉSAGE

SISTEMA DI BARENATURA

SISTEMAS DE MANDRINADO

FINE BORING BAR

- POP Line
- SUPREME Line

TWIN EDGE BORING BAR : JIS B6339/MAS 403-BT, DIN 69871-SK

BORING BAR SET

STRAIGHT TWIN EDGE BORING BAR

BASIC HOLDER

TWIN BORE HEAD

INSERT HOLDER

REDUCTION / EXTENSION BAR

MICRO BORING BAR : JIS B6339/MAS 403-BT

BT / ST (BCA)

MICRO UNIT PARTS

SQUARE BORING BAR : JIS B6339/MAS 403-BT

BT (BSA)

ST (BSB)

SQUARE BITE (BAS, BSB)

BIG MICRO CUT BORING BAR : JIS B6339/MAS 403-BT

BT (BRA)

(RING ADAPTER, RING HEAD)

FINE BORING BAR (for Fine Boring of Small Bore)

Boring Range 20mm ~153mm

MODULAR SYSTEM

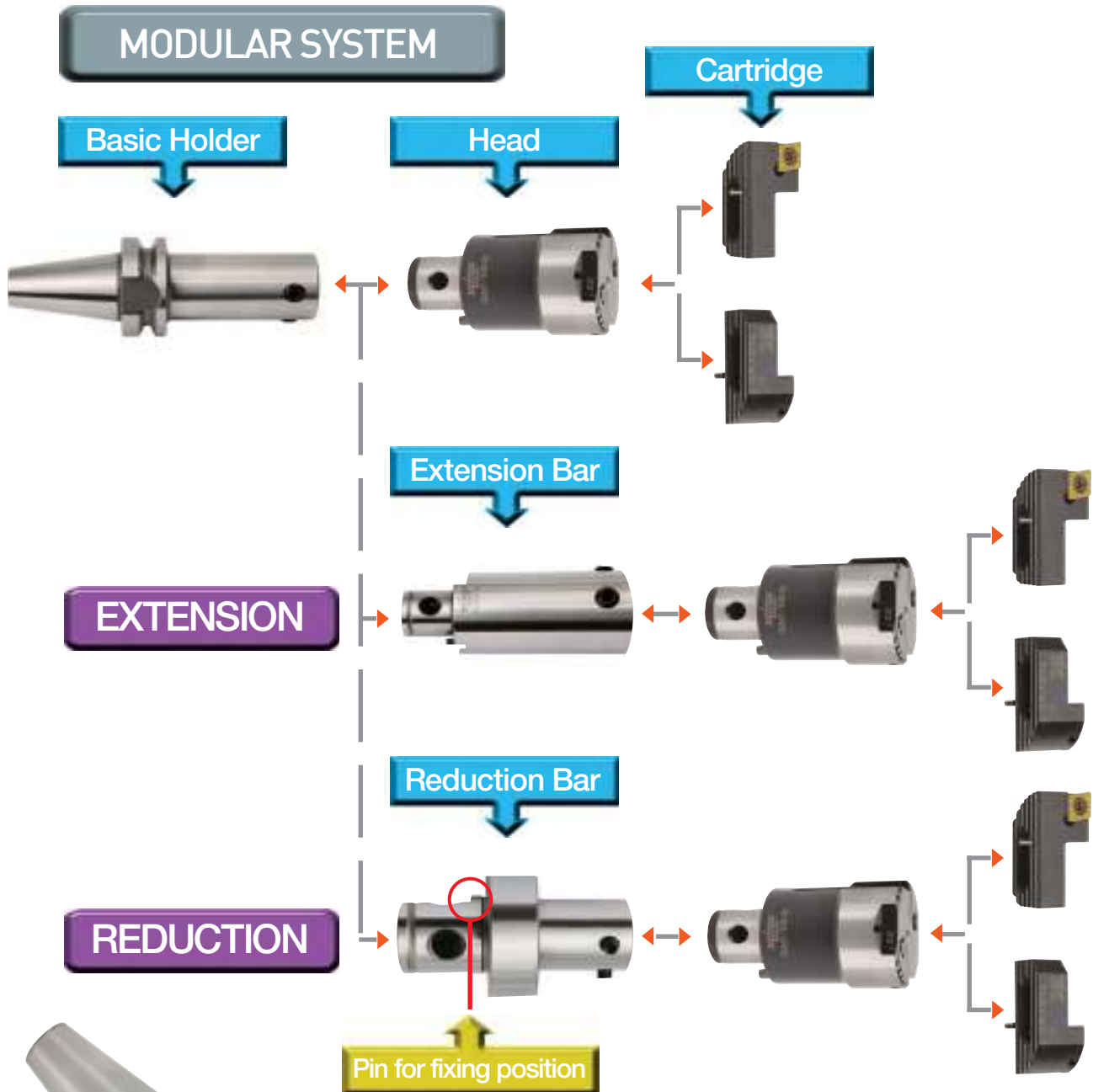


FEATURE

- Excellent roughness of boring surface by precise boring.
- 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 .

TWIN EDGE BORING BAR (for Rough Boring of Small Bore)

Boring Range : 25mm~156mm

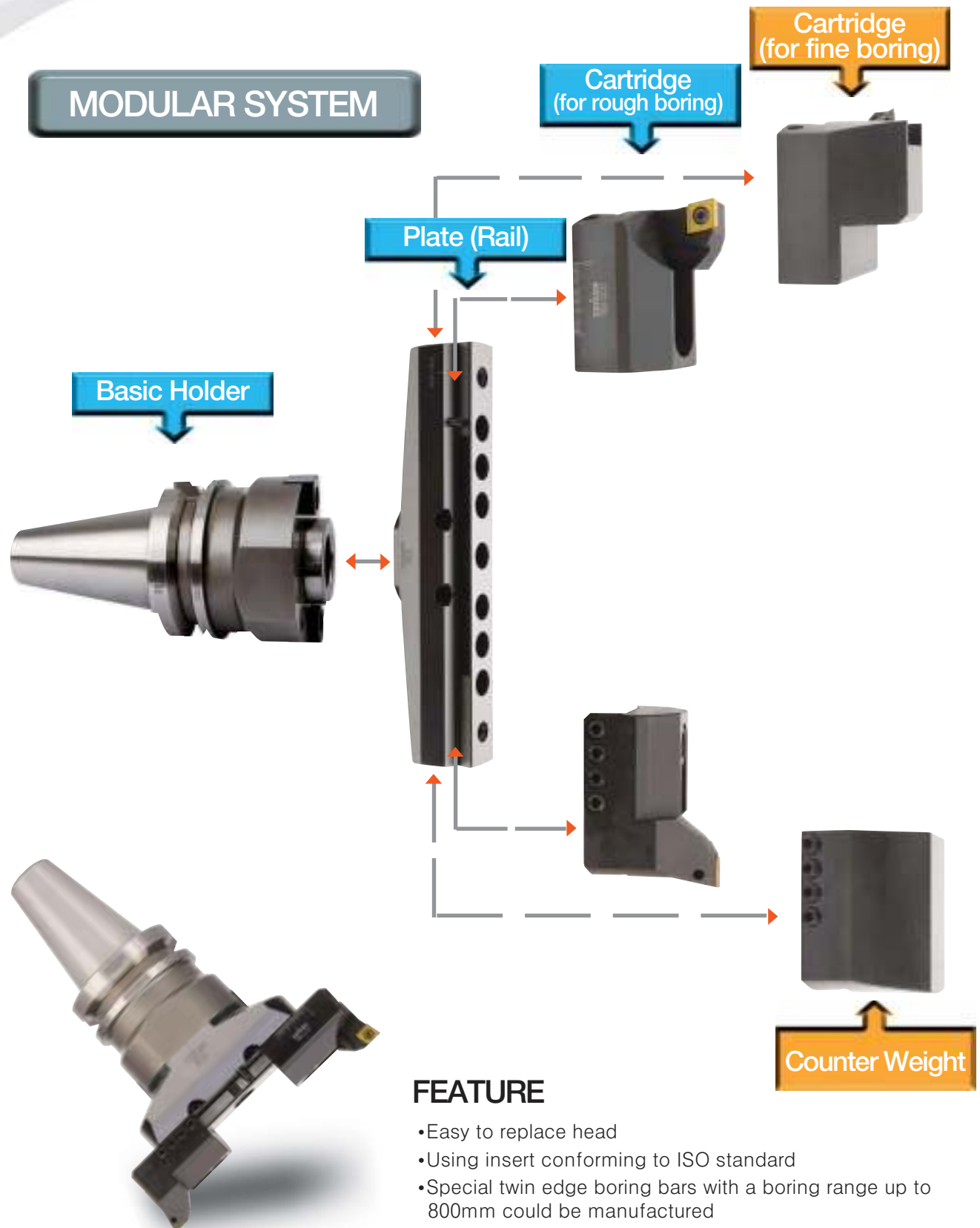


FEATURE

- 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 repeatedly attaching and detaching Head ; $\leq 0.002\text{mm}$
- Using insert conforming to ISO standard

FINE and TWIN EDGE BORING BAR (for Big Bore)

Boring Range : 153mm~576mm (FINE BORING BAR)
156mm~576mm (TWIN EDGE BORING BAR)



FINE BORING BAR (SMALL BORE)

FEINBOHRHALTER
ALÉSAGE PROFOND
BARRE DI ALESATURA FINE
BARRA DE MANDRINADO FINO



FIG. 1

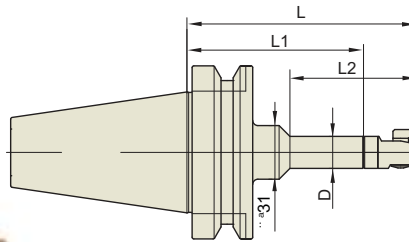
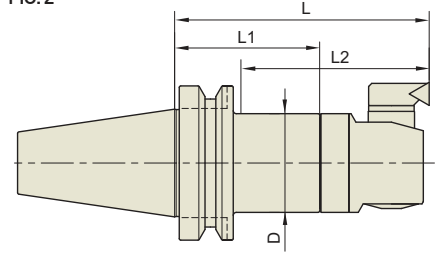


FIG. 2



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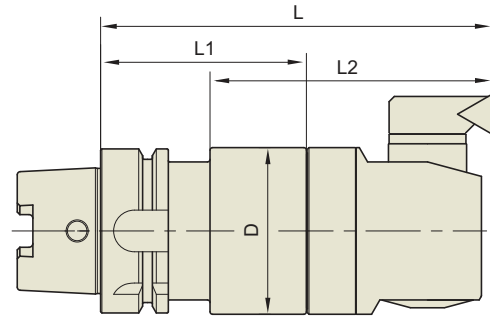
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	BORE RANGE (FRONT)	D	L	L1	L2	Fig	Weight (kg)	Stock
30	BT30-BAH1-105	20-26	19	104.5	72	73	1		
	BT30-BAH2-75	25-33	24	73	37.5	48	2		
	BT30-BAH2-120	25-33	24	118	82.5	93	2		
	BT30-BAH3-80	32-42	31	79	39	53	2		
	BT30-BAH3-120	32-42	31	119	79	93	2		
	BT30-BAH4-85	41-54	39	85	38	58	2		
	BT30-BAH4-120	41-54	39	120	73	93	2		
	BT30-BAH5-120	53-70	50	120	63	93	2		
40	BT40-BAH1-105	20-26	19	104.5	72	73	2		●
	BT40-BAH2-80	25-33	24	78	42.5	48	2		●
	BT40-BAH2-120	25-33	24	118	82.5	88	2		●
	BT40-BAH3-85	32-42	31	84	44	53	2		●
	BT40-BAH3-135	32-42	31	134	94	103	2		●
	BT40-BAH4-90	41-54	39	90	43	58	2		●
	BT40-BAH4-135	41-54	39	135	88	103	2		●
	BT40-BAH5-105	53-70	50	105	48	73	2		●
	BT40-BAH5-135	53-70	50	135	79	103	2		●
	BT40-BAH6-135	68-100	64	135	64	103	2		●
50	BT50-BAH1-135	20-26	19	134.5	102	73	1		
	BT50-BAH2-90	25-33	24	88	52.5	47	2		
	BT50-BAH2-150	25-33	24	148	112.5	107	2		
	BT50-BAH3-95	32-42	31	94	54	52	2		
	BT50-BAH3-165	32-42	31	164	124	122	2		
	BT50-BAH4-105	41-54	39	105	58	62	2		
	BT50-BAH4-165	41-54	39	165	118	122	2		
	BT50-BAH4-225	41-54	39	225	178	182	2		
	BT50-BAH5-120	53-70	50	120	63	77	2		
	BT50-BAH5-165	53-70	50	165	108	122	2		
	BT50-BAH5-240	53-70	50	240	183	197	2		
	BT50-BAH5-285	53-70	50	285	228	242	2		
	BT50-BAH6-165	68-100	64	165	94	122	2		
	BT50-BAH6-240	68-100	64	240	169	197	2		
	BT50-BAH6-300	68-100	64	300	229	257	2		
	BT50-BAH7-180	100-153	90	180	93	142	2		
	BT50-BAH7-330	100-153	90	330	243	292	2		

FINE BORING BAR (SMALL BORE)

FEINBOHRHALTER
ALÉSAGE PROFOND
BARRE DI ALESATURA FINE
BARRA DE MANDRINADO FINO



DIN 69893
- HSK

Taper
Accuracy

G Value

RPM

Coolant
System

DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	MODEL No.	BORE RANGE (FRONT)	D	L	L1	L2	Weight (kg)	Stock
40A	HSK40A-BAH1-72.5	20-26	19	105	72.5	73		
	HSK40A-BAH2-39.5	25-33	24	75	39.5	44		
	HSK40A-BAH2-84.5	25-33	24	120	84.5	89		
	HSK40A-BAH3-45	32-42	31	85	45	57		
	HSK40A-BAH3-80	32-42	31	120	80	92		
	HSK40A-BAH4-53	41-54	39	100	53			
	HSK40A-BAH4-73	41-54	39	120	73			
50A	HSK50A-BAH1-72.5	20-26	19	105	72.5	65		●
	HSK50A-BAH2-84.5	25-33	24	117	84.5	80		●
	HSK50A-BAH3-80	32-42	31	120	80	82		●
	HSK50A-BAH4-73	41-54	39	120	73	76		●
	HSK50A-BAH5-83	53-70	50	140	83			●
63A	HSK63A-BAH1-77.5	20-26	19	110	77.5	73		●
	HSK63A-BAH2-89.5	25-33	24	125	89.5	88		●
	HSK63A-BAH3-100	32-42	31	140	100	103		●
	HSK63A-BAH4-93	41-54	39	140	93	103		●
	HSK63A-BAH5-83	53-70	50	140	83	105		●
	HSK63A-BAH6-79	68-100	64	150	79			●
100A	HSK100A-BAH1-102.5	20-26	19	135	102.5	73		
	HSK100A-BAH2-114.5	25-33	24	150	114.5	107		
	HSK100A-BAH3-125	32-42	31	165	125	122		
	HSK100A-BAH4-118	41-54	39	165	118	122		
	HSK100A-BAH4-178	41-54	39	225	178	182		
	HSK100A-BAH5-108	53-70	50	165	108	122		
	HSK100A-BAH5-183	53-70	50	240	183	197		
	HSK100A-BAH5-228	53-70	50	285	228	242		
	HSK100A-BAH6-94	68-100	64	165	94	122		
	HSK100A-BAH6-169	68-100	64	240	169	197		
	HSK100A-BAH6-229	68-100	64	300	229	257		
	HSK100A-BAH7-123	100-153	90	210	123	181		
	HSK100A-BAH7-273	100-153	90	360	273	331		

FINE BORING BAR (SMALL BORE)

FEINBOHRHALTER
ALÉSAGE PROFOND
BARRE DI ALESATURA FINE
BARRA DE MANDRINADO FINO

FIG. 1

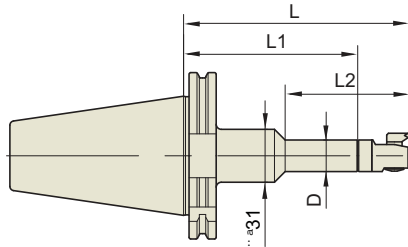
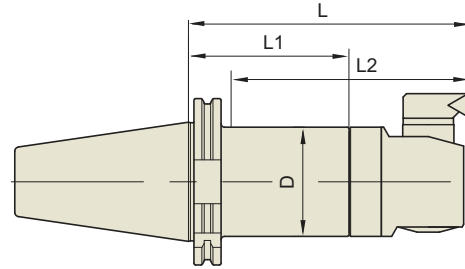


FIG. 2



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

Unit : mm

TAPER No.	MODEL No.	BORE RANGE (FRONT)	D	L	L1	L2	Fig	Weight (kg)	Stock
40	SK40-BAH1-105	20-26	19	104.5	72	73	2		
	SK40-BAH2-80	25-33	24	78	42.5	48	2		
	SK40-BAH2-120	25-33	24	118	82.5	88	2		
	SK40-BAH3-85	32-42	31	84	44	53	2		
	SK40-BAH3-135	32-42	31	134	94	103	2		
	SK40-BAH4-90	41-54	39	90	43	58	2		
	SK40-BAH4-135	41-54	39	135	88	103	2		
	SK40-BAH5-105	53-70	50	105	48	73	2		
	SK40-BAH5-135	53-70	50	135	79	103	2		
	SK40-BAH6-135	68-100	64	135	64	103	2		
50	SK50-BAH1-135	20-26	19	134.5	102	73	1		
	SK50-BAH2-90	25-33	24	88	52.5	66	2		
	SK50-BAH2-150	25-33	24	148	112.5	126	2		
	SK50-BAH3-95	32-42	31	94	54	71	2		
	SK50-BAH3-165	32-42	31	164	124	141	2		
	SK50-BAH4-105	41-54	39	105	58	81	2		
	SK50-BAH4-165	41-54	39	165	118	141	2		
	SK50-BAH4-225	41-54	39	225	178	201	2		
	SK50-BAH5-120	53-70	50	120	63	96	2		
	SK50-BAH5-165	53-70	50	165	105	141	2		
	SK50-BAH5-240	53-70	50	240	183	216	2		
	SK50-BAH5-285	53-70	50	285	228	261	2		
	SK50-BAH6-165	68-100	64	165	94	141	2		
	SK50-BAH6-240	68-100	64	240	169	216	2		
	SK50-BAH6-300	68-100	64	300	229	276	2		
	SK50-BAH7-210	100-153	90	210	93	191	2		
	SK50-BAH7-360	100-153	90	360	243	341	2		

BASIC HOLDER for FINE BORING BAR (SMALL BORE)



FIG.1

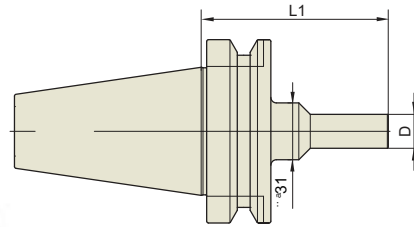
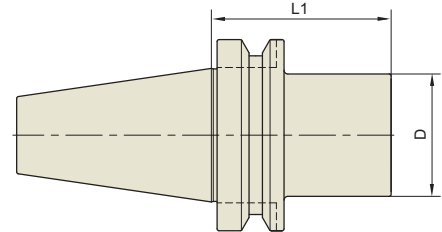


FIG.2



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	D	L1	Fig	Weight (kg)
30	BT30-SAS19-72	19	72	1	
	BT30-SAS24-37.5	24	37.5	2	
	BT30-SAS24-82.5	24	82.5	2	
	BT30-SAS31-39	31	39	2	
	BT30-SAS31-79	31	79	2	
	BT30-SAS39-38	39	38	2	
	BT30-SAS39-73	39	73	2	
	BT30-SAS50-63	50	63	2	
40	BT40-SAS19-72	19	72	2	
	BT40-SAS24-42.5	24	42.5	2	
	BT40-SAS24-82.5	24	82.5	2	
	BT40-SAS31-44	31	44	2	
	BT40-SAS31-94	31	94	2	
	BT40-SAS39-43	39	43	2	
	BT40-SAS39-88	39	88	2	
	BT40-SAS50-48	50	48	2	
	BT40-SAS50-79	50	79	2	
	BT40-SAS64-64	64	64	2	
50	BT50-SAS19-102	19	102	1	
	BT50-SAS24-52.5	24	52.5	2	
	BT50-SAS24-112.5	24	112.5	2	
	BT50-SAS31-54	31	54	2	
	BT50-SAS31-124	31	124	2	
	BT50-SAS39-58	39	58	2	
	BT50-SAS39-118	39	118	2	
	BT50-SAS39-178	39	178	2	
	BT50-SAS50-63	50	63	2	
	BT50-SAS50-108	50	108	2	
	BT50-SAS50-183	50	183	2	
	BT50-SAS50-228	50	228	2	
	BT50-SAS64-94	64	94	2	
	BT50-SAS64-169	64	169	2	
	BT50-SAS64-229	64	229	2	
	BT50-SAS90-93	90	93	2	
	BT50-SAS90-243	90	243	2	

BASIC HOLDER for FINE BORING BAR (SMALL BORE)

FIG. 1

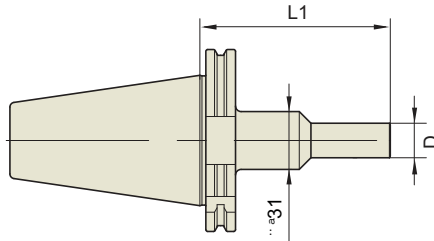
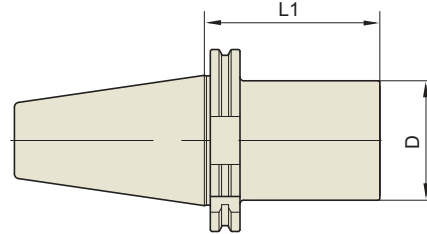


FIG. 2



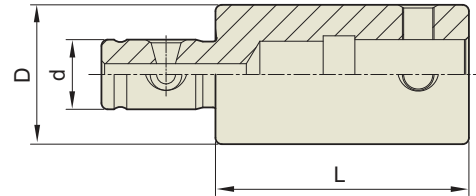
DIN 69871 - SK	Taper Accuracy AT3	G Value	RPM	Coolant System
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DIN 69871-SK

Unit : mm

TAPER No.	MODEL No.	D	L1	Fig	Weight (kg)
40	SK40-SAS19-72	19	72	2	
	SK40-SAS24-42.5	24	42.5	2	
	SK40-SAS24-82.5	24	82.5	2	
	SK40-SAS31-44	31	44	2	
	SK40-SAS31-94	31	94	2	
	SK40-SAS39-43	39	43	2	
	SK40-SAS39-88	39	88	2	
	SK40-SAS50-48	50	48	2	
	SK40-SAS50-79	50	79	2	
	SK40-SAS64-64	64	64	2	
50	SK50-SAS19-102	19	102	1	
	SK50-SAS24-52.5	24	52.5	2	
	SK50-SAS24-112.5	24	112.5	2	
	SK50-SAS31-54	31	54	2	
	SK50-SAS31-124	31	124	2	
	SK50-SAS39-58	39	58	2	
	SK50-SAS39-118	39	118	2	
	SK50-SAS39-178	39	178	2	
	SK50-SAS50-63	50	63	2	
	SK50-SAS50-105	50	105	2	
	SK50-SAS50-183	50	183	2	
	SK50-SAS50-228	50	228	2	
	SK50-SAS64-94	64	94	2	
	SK50-SAS64-169	64	169	2	
	SK50-SAS64-229	64	229	2	
	SK50-SAS90-93	90	93	2	
	SK50-SAS90-243	90	243	2	

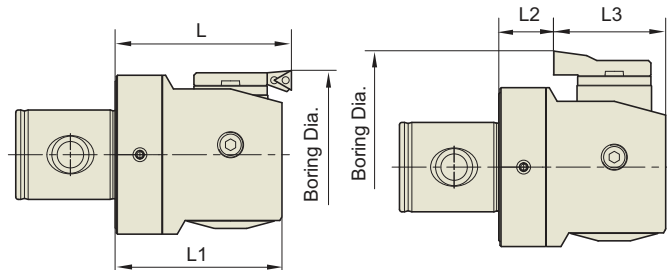
EXTENSION BAR for FINE BORING BAR (SMALL BORE)



Unit : mm

MODEL No.	d	D	L	Weight (kg)
E-BAH1-20	11	19	20	
E-BAH1-30	11	19	30	
E-BAH2-30	14	24	30	
E-BAH2-45	14	24	45	
E-BAH3-30	18	31	30	
E-BAH3-45	18	31	45	
E-BAH4-45	22	39	45	
E-BAH4-60	22	39	60	
E-BAH5-60	28	50	60	
E-BAH5-90	28	50	90	
E-BAH6-60	36	64	60	
E-BAH6-100	36	64	100	
E-BAH7-105	46	90	105	

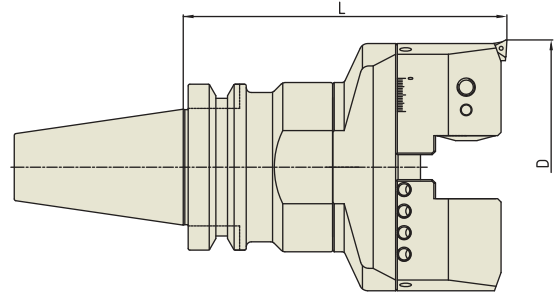
FINE BORING HEAD (SMALL BORE)



Unit : mm

MODEL No.	CARTRIDGE	FRONT BORE			BACK BORE			INSERT	Weight (kg)
		BORE RANGE	L	L1	BORE RANGE	L2	L3		
FBH20	FBH1-1	20-26	32.5	29.5	-	10.5	19	TP08	
FBH25	FBH2-1	25-33	35.5	32.5	-	10.5	19	TP08	
FBH32	FBH3-1	32-42	40	35	-	10	25	TP08	
FBH41	FBH4-1	41-54	47	43	-	14	29	TP11	
FBH53	FBH5-1	53-70	57	53	52-70	19	34	TP11	
FBH68	FBH6-1	68-100	71	67.2	80-100	22	45.2	TP11	
FBH100	FBH6-1	100-153	71	67.2	112-153	22	45.2	TP11	
FBH100-2	FBH6-1	100-153	87	83.2	112-153	38	45.2	TP11	

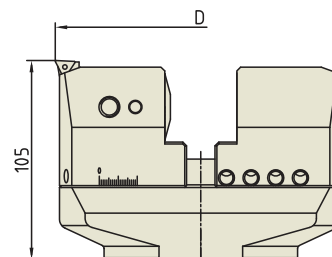
FINE BORING BAR (BIG BORE)



Unit : mm

MODEL No.	D (BORE RANGE)		Body (Basic Holder)	Boring Head	Weight(Kg)	Stock
	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			

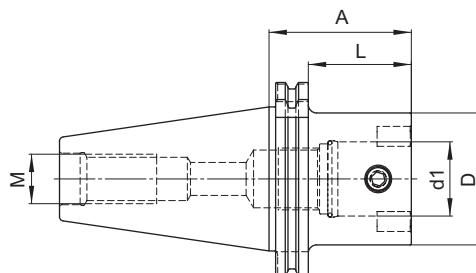
FINE BORING HEAD (BIG BORE)



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*30L	FBB153	L-W 5	FTNA0307	T7
FBH216S	PLA216						
FBH276S	PLA276						
FBH336S	PLA336						
FBH396S	PLA396						
FBH456S	PLA456						
FBH516S	PLA516						

BASIC HOLDER for FINE BORING BAR



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System
AD/B

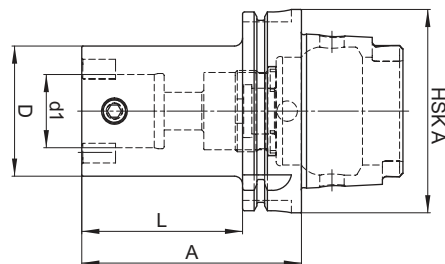
DIN 69871-SK

Unit : mm

TAPER No.	CODE No.	ST	D	d1	A	L	M	Weight (kg)
30	114.430.050.050	ST5	50	28	50	30.9	M12	
40	114.440.020.035	ST1	20	11	35	15.9	M16	
	114.440.025.040	ST2	25	14	40	20.9	M16	
	114.440.032.040	ST3	32	18	40	20.9	M16	
	114.440.039.043	ST4	39	22	43	23.9	M16	
	114.440.050.043	ST5	50	28	43	23.9	M16	
	114.440.064.059	ST6+	64	36	59	39.9	M16	
50	114.450.020.045	ST1	20	11	45	25.9	M24	
	114.450.025.050	ST2	25	14	50	30.9	M24	
	114.450.032.050	ST3	32	18	50	30.9	M24	
	114.450.039.053	ST4	39	22	53	33.9	M24	
	114.450.050.053	ST5	50	28	53	33.9	M24	
	114.450.064.069	ST6+	64	36	69	49.9	M24	
	114.450.090.085	ST7+	90	46	85	65.9	M24	

► ST+-shanks are supplied with threaded ring but without tension screw

BASIC HOLDER for FINE BORING BAR



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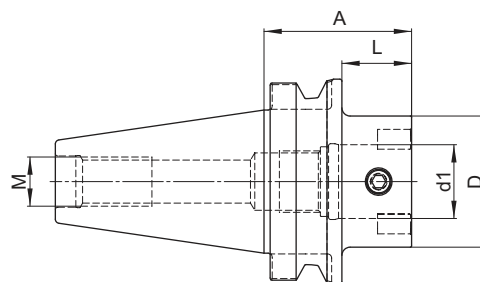
DIN 69893/ISO 12164-1-HSK

Unit : mm

TAPER No.	CODE No.	ST	D	d1	A	L	Weight (kg)
63	144.806.020.042	ST1	20	11	42	16	
	144.806.025.042	ST2	25	14	42	16	
	144.806.032.044	ST3	32	18	44	18	
	144.806.039.048	ST4	39	22	48	22	
	144.806.050.059	ST5	50	28	59	33	
	144.806.064.070	ST6	64	36	70	44	
	144.806.064.100	ST6+	64	36	100	74	
100	144.810.020.055	ST1	20	11	55	26	
	144.810.025.055	ST2	25	14	55	26	
	144.810.032.057	ST3	32	18	57	28	
	144.810.039.061	ST4	39	22	61	32	
	144.810.050.072	ST5	50	28	72	43	
	144.810.064.078	ST6	64	36	78	49	
	144.810.064.108	ST6+	64	36	108	79	
	144.810.090.127	ST7+	90	46	127	98	

► ST+-shanks are supplied with threaded ring but without tension screw

BASIC HOLDER for FINE BORING BAR



JIS B6339

- BT

Taper
Accuracy

AT3

G Value

RPM

Coolant
System

AD/B

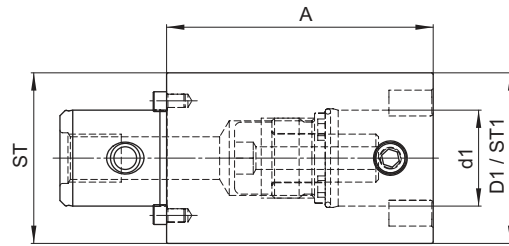
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	CODE No.	ST	D	d1	A	L	M	Weight (kg)
30	134.530.050.038	ST5	50	28	38	16	M12	
40	134.540.020.042	ST1	20	11	42	15	M16	
	134.540.025.042	ST2	25	14	42	15	M16	
	134.540.032.044	ST3	32	18	44	17	M16	
	134.540.039.048	ST4	39	22	48	21	M16	
	134.540.050.055	ST5	50	28	55	28	M16	
	134.540.064.046	ST6+	64	36	46	19	M16	
50	134.550.020.063	ST1	20	11	63	25	M24	
	134.550.025.063	ST2	25	14	63	25	M24	
	134.550.032.065	ST3	32	18	65	27	M24	
	134.550.039.069	ST4	39	22	69	31	M24	
	134.550.050.072	ST5	50	28	72	34	M24	
	134.550.064.072	ST6+	64	36	72	34	M24	
	134.550.090.086	ST7+	90	46	86	48	M24	

▶ ST+ -shanks are supplied with threaded ring but without tension screw

EXTENSION BAR for FINE BORING BAR

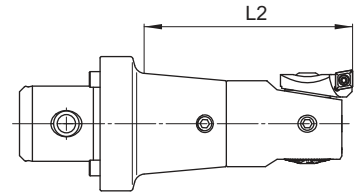
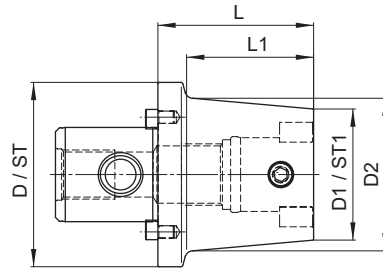


Unit : mm

CODE No.	ST	ST1	D1	d1	A	Weight (kg)
164.020.020.020	ST1	ST1	20	11	20	
164.020.020.030	ST1	ST1	20	11	30	
164.025.025.030	ST2	ST2	25	14	30	
164.025.025.045	ST2	ST2	25	14	45	
164.032.032.030	ST3	ST3	32	18	30	
164.032.032.045	ST3	ST3	32	18	45	
164.039.039.040	ST4	ST4	39	22	40	
164.039.039.060	ST4	ST4	39	22	60	
164.050.050.060	ST5	ST5	50	28	60	
164.050.050.090	ST5	ST5	50	28	90	
164.064.064.060	ST6+	ST6	64	36	60	
164.064.064.100	ST6+	ST6+	64	36	100	
164.090.090.100	ST7+	ST7+	90	46	100	
164.090.090.160	ST7+	ST7+	90	46	160	

► ST+ -shanks are supplied with threaded ring but without tension screw

REDUCTION BAR for FINE BORING BAR



Unit : mm

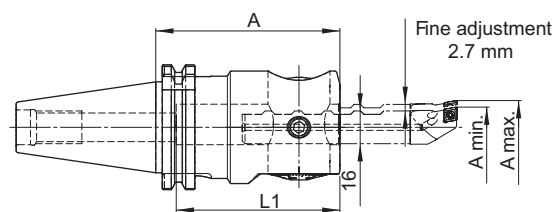
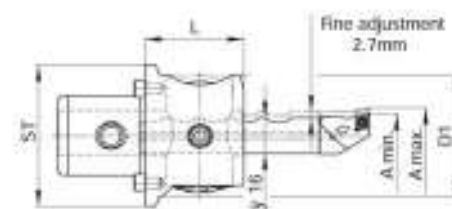
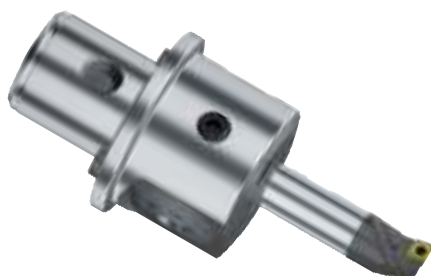
CODE No.	ST	D	ST1	D1	D2	L	L1	L2	Weight (kg)
184.025.020.036	ST2	25	ST1	20	23	36	25	60.5	
184.032.020.040	ST3	32	ST1	20	23	40.5	28	63.5	
184.032.025.034	ST3	32	ST2	25	29	34.5	20	60	
184.039.020.057	ST4	39	ST1	20	23	57.5	42	77.5	
184.039.025.051	ST4	39	ST2	25	29	51.5	37	77	
184.039.032.047	ST4	39	ST3	32	38	47	35	82	
184.050.020.057	ST5	50	ST1	20	23	57.5	38.5	74	
184.050.025.051	ST5	50	ST2	25	29	51.5	33.5	73.5	
184.050.032.047	ST5	50	ST3	32	38	47.0	30.5	77.5	
184.050.039.040	ST5	50	ST4	39	48	40.0	25.5	82.5	
184.064.020.066	ST6+	64	ST1	20	23	66.5	45.5	81	
184.064.020.101	ST6+	64	ST1	20	23	101.5	80.5	116	
184.064.020.119	ST6+	64	ST1	20	23	119.5	100.5	136	
184.064.020.139	ST6+	64	ST1	20	23	139.5	120.5	156	
184.064.025.060	ST6+	64	ST2	25	29	60.5	40.5	80.5	
184.064.025.095	ST6+	64	ST2	25	29	95.5	75.5	115.5	
184.064.025.135	ST6+	64	ST2	25	29	135.0	115	155	
184.064.025.175	ST6+	64	ST2	25	29	175.0	155	195	
184.064.032.056	ST6+	64	ST3	32	38	56.0	37.5	84.5	
184.064.032.091	ST6+	64	ST3	32	38	91.0	72	119	
184.064.032.158	ST6+	64	ST3	32	38	158.0	139	186	
184.064.032.198	ST6+	64	ST3	32	38	198.0	179	226	
184.064.039.049	ST6+	64	ST4	39	48	49.0	32	89	
184.064.039.084	ST6+	64	ST4	39	48	84.0	66.5	123.5	
184.064.039.129	ST6+	64	ST4	39	48	129.0	111.5	168.5	
184.064.039.218	ST6+	64	ST4	39	48	218.0	200.5	257.5	
184.064.050.039	ST6+	64	ST5	50	60	39.0	24	104	
184.064.050.074	ST6+	64	ST5	50	60	74.0	58.5	138.5	
184.064.050.119	ST6+	64	ST5	50	60	119.0	103.5	183.5	
184.064.050.234	ST6+	64	ST5	50	60	234.0	218	298	
184.090.064.076	ST7+	90	ST6+	64	75	76	60	160	

- Length L2 stands for the maximal boring depth with twin cutter or fine boring head
- ST+-reductions are supplied without tension screw and threaded ring

FINE BORING HEAD

Boring Range : 3-88.1mm

- For boring bars with a shank diameter of 16mm
- Diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- With inner coolant supply
- Boring bars go through head



Unit : mm

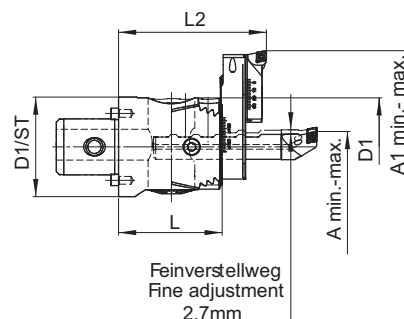
CODE No.		System	D1	ØA		L (A)	L1	Weight (kg)
				min.	max.			
ST modular	204.050.025.045	ST5	55	3	88.1	45	-	
	204.064.025.045	ST6	55	3	88.1	45	-	
DIN 69893-HSK	208.806.055.095	HSK 63 A	55	3	88.1	95	69	
DIN 69871-SK	208.440.055.090	SK 40	55	3	88.1	90	70	
JIS B6339-BT	208.540.055.090	BT40	55	3	88.1	90	63	

► Boring bars must be ordered separately

► Boring diameter ØA min. - A max. are only available with boring bars from code 264 to 294

Boring Range : 3-320mm

- For boring bars with a shank diameter of 16mm and fine boring bridges
- Diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- With inner coolant supply
- Boring bars go through head



Unit : mm

CODE No.		System	D1	ØA	ØA1	L (A)	L1	L2	Weight (kg)
				min.-max.	min.-max.				
ST modular	210.064.025.065	ST6	63	3 - 88.1	86 - 320	67	-	95	
DIN 69893-HSK	210.806.063.095	HSK 63 A	63	3 - 88.1	86 - 320	96	72	125	
DIN 69871-SK	210.440.063.090	SK 40	63	3 - 88.1	86 - 320	91	81	120	
JIS B6339-BT	210.540.063.090	BT40	63	3 - 88.1	86 - 320	91	81	120	

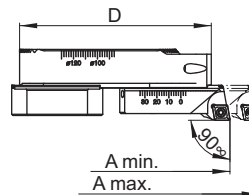
► Boring bars, fine boring bridges and insert holders must be ordered separately

► Boring diameters ØA min.-max. are only available with boring bars from code 264 to 294

► Boring diameters ØA min.-max. are only available with fine boring bridges from code 212

BORING BRIDGE for FINE BORING BAR

Boring Range : 86-320mm



Aluminium bridges

- with inner coolant supply

Unit : mm

CODE No.	D	ØA		Weight (kg)
		min.	max.	
212.086.164.080	80	86	164	
212.162.320.158	158	162	320	



Insert holders

- with inner coolant supply

Unit : mm

CODE No.	Insert	ØA		Weight (kg)
		min.	max.	
256.048.006.014	CC . . 06 02 . .	86	320	
256.048.009.014	CC . . 09 T3 . .	86	320	



Counter weight

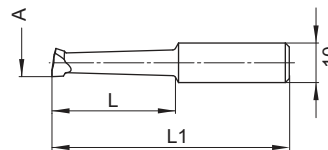
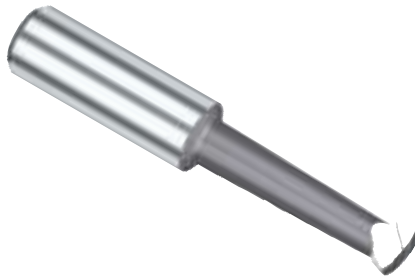
- for high revolution speed

Unit : mm

CODE No.		Weight (kg)
212.038.045.012		

BORING BAR for FINE BORING

With carbide tips



Unit : mm

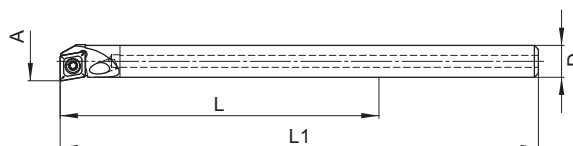
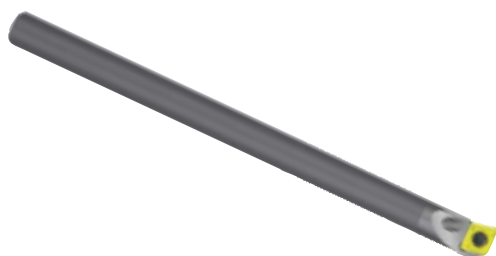
CODE No.	ØA		L	Carbide quality	Weight (kg)
	min.	max.			
264.003.010.020	3.0	8.0	20	K10	
264.003.020.020	3.0	8.0	20	P20	
264.004.010.023	4.0	9.0	23	K10	
264.004.020.023	4.0	9.0	23	P20	
264.005.010.025	5.0	10.0	25	K10	
264.005.020.025	5.0	10.0	25	P20	
264.006.010.028	6.0	11.0	28	K10	
264.006.020.028	6.0	11.0	28	P20	
264.007.010.031	7.0	12.0	31	K10	
264.007.020.031	7.0	12.0	31	P20	
264.009.010.034	9.0	14.0	34	K10	
264.009.020.034	9.0	14.0	34	P20	
264.010.010.037	10.0	15.0	37	K10	
264.010.020.037	10.0	15.0	37	P20	
264.012.010.040	12.0	17.0	40	K10	
264.012.020.040	12.0	17.0	40	P20	
264.014.010.043	14.0	19.0	43	K10	
264.014.020.043	14.0	19.0	43	P20	

► Boring diameters ØA min. - A max. are only available with fine boring heads from code 204 and 210

► Carbide quality K10 for cast iron, aluminium etc.

► Carbide quality P20 for steel, chrome nickel steel etc.

With solid carbide shank



Unit : mm

CODE No.	ØA		D	L	L1	Insert	Weight (kg)
	min.	max.					
274.006.002.080	5.8	11.2	5	50	85	WC . . 02 01 . .	
274.008.002.100	7.8	13.2	6	60	95	WC . . 02 01 . .	
274.010.006.120	9.8	15.0	8	80	120	CC . . 06 02 . .	
274.014.006.140	13.8	19.0	10	100	140	CC . . 06 02 . .	
274.018.009.170	17.8	23.0	12	120	170	CC . . 09 T3 . .	
274.022.009.210	21.8	27.0	16	160	210	CC . . 09 T3 . .	

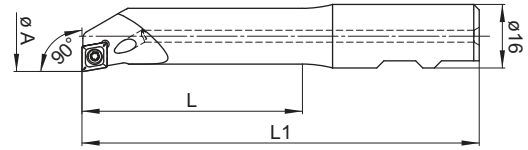
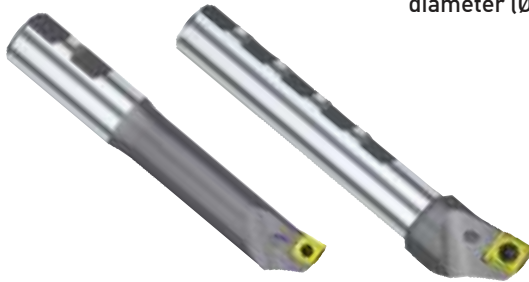
► Length L stands for the maximal boring depth

► Boring diameters ØA min. - A max. are only available with fine boring heads from code 204 and 210

BORING BAR for FINE BORING

BORING BARS : Ø9.75-48.1

- With inner coolant supply
- If the boring bars are clamped centrally (weldon adapter), the minimum diameter (ØA min.) is provided



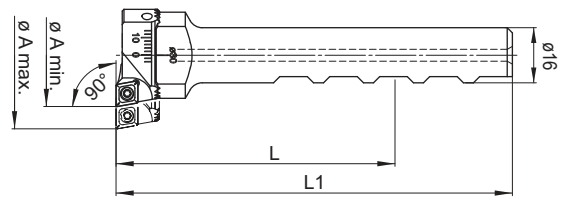
Unit : mm

CODE No.	ØA		L	L1	Insert	Weight (kg)
	min.	max.				
254.010.006.075	9.75	15.1	30	75	CC . . 06 02 . .	
254.012.006.080	11.75	17.1	37	80	CC . . 06 02 . .	
254.014.006.085	13.75	19.1	43	85	CC . . 06 02 . .	
254.015.006.090	14.75	20.1	51	90	CC . . 06 02 . .	
254.016.006.095	15.75	21.1	57	95	CC . . 06 02 . .	
254.018.006.100	17.75	23.1	67	100	CC . . 06 02 . .	
254.020.006.105	19.75	25.1	72	105	CC . . 06 02 . .	
254.020.009.105	19.75	25.1	72	105	CC . . 09 T3 . .	
254.022.009.110	21.75	27.1	77	110	CC . . 09 T3 . .	
254.025.006.115	24.75	30.1	82	115	CC . . 06 02 . .	
254.025.009.115	24.75	30.1	82	115	CC . . 09 T3 . .	
254.028.009.115	27.75	33.1	82	115	CC . . 09 T3 . .	
254.030.006.115	29.75	35.1	82	115	CC . . 06 02 . .	
254.032.009.115	31.75	37.1	82	115	CC . . 09 T3 . .	
254.035.006.115	34.75	40.1	82	115	CC . . 06 02 . .	
254.035.009.115	34.75	40.1	82	115	CC . . 09 T3 . .	
254.039.009.115	38.75	44.1	82	115	CC . . 09 T3 . .	
254.043.009.115	42.75	48.1	82	115	CC . . 09 T3 . .	

▶ Length L stands for the maximal boring depth

▶ Boring diameters ØA min. - A max. are only available with fine boring heads from series 204 to 210

ADJUSTABLE BORING BARS : Ø29.75-88.1



Unit : mm

Shanks

- with inner coolant supply

CODE No.	ØA		L	L1	For insert holder	Weight (kg)
	min.	max.				
256.030.048.115	29.75	48.1	85	115	256.030.006.012	
256.048.088.115	47.75	88.1	85	115	256.048.xxx.014	

Insert holders

- with inner coolant supply

CODE No.	ØA		Insert	Weight (kg)
	min.	max.		
256.030.006.012	29.75	48.1	CC . . 06 02 . .	
256.048.006.014	47.75	88.1	CC . . 06 02 . .	
256.048.009.014	47.75	88.1	CC . . 09 T3 . .	

▶ Length L stands for the maximal boring depth

▶ Using boring bars for Ø67 or bigger the maximal boring depth can be increased by extensions from series 164

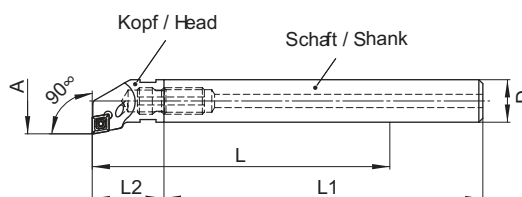
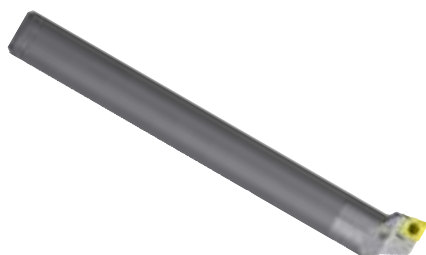
▶ Boring diameters ØA min. - A max. are only available with fine boring heads from series 204 to 210

▶ Shanks and insert holder must be ordered separately

SOLID CARBIDE BORING BAR for FINE BORING

With thread connection

- To machine long holes
- Solid carbide shank
- With inner coolant supply



Unit : mm

Head CODE No.	ØA		D	L max.	L2	Insert	For shank CODE No.	Weight (kg)
	min.	max.						
294.009.006.018	8.75	14.1	8	56	18	CC . . 06 02 . .	284.008.005.073	
294.010.006.018	9.75	15.1	9	63	18	CC . . 06 02 . .	284.009.005.080	
294.011.006.023	10.75	16.1	10	70	23	CC . . 06 02 . .	284.010.006.082	
294.012.006.023	11.75	17.1	11	77	23	CC . . 06 02 . .	284.011.006.089	
294.013.006.023	12.75	18.1	12	84	23	CC . . 06 02 . .	284.012.006.096	
294.014.006.023	13.75	19.1	13	91	23	CC . . 06 02 . .	284.013.006.103	
294.015.006.023	14.75	20.1	14	98	23	CC . . 06 02 . .	284.014.006.110	
294.016.006.023	15.75	21.1	14	98	23	CC . . 06 02 . .	284.014.006.110	
294.017.006.027	16.75	22.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.018.006.027	17.75	23.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.020.006.027	19.75	25.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.022.006.027	21.75	27.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.025.006.027	24.75	30.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.028.006.027	27.75	33.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.032.006.027	31.75	37.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.035.006.027	34.75	40.1	16	112	27	CC . . 06 02 . .	284.016.010.120	

Solid carbide shank



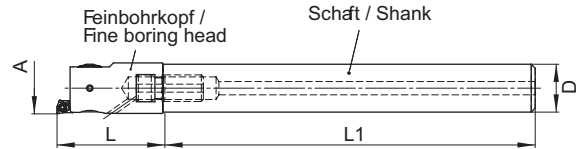
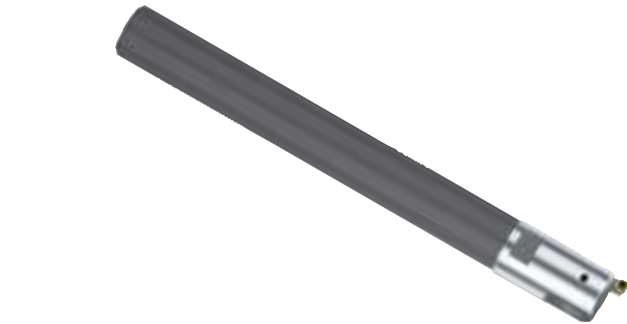
Unit : mm

Shank CODE No.	D	L1	For head CODE No.	Weight (kg)
284.008.005.073	8	91	294.009.006.018	
284.009.005.080	9	98	294.010.006.018	
284.010.006.082	10	105	294.011.006.023	
284.011.006.089	11	112	294.012.006.023	
284.012.006.096	12	119	294.013.006.023	
284.013.006.103	13	126	294.014.006.023	
284.014.006.110	14	133	294.015.006.023	
284.016.010.120	16	147	294.016.006.023	
			294.017.006.027	
			294.018.006.027	
			294.020.006.027	
			294.022.006.027	
			294.025.006.027	
			294.028.006.027	
			294.032.006.027	
			294.035.006.027	

BORING HEAD WITH CONNECTION for FINE BORING

With thread connection

- Diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- With inner coolant supply



Unit : mm

Fine boring head CODE No.	ØA		D	L	For insert holder	Weight (kg)
	min.	max.				
300.014.015.040	14.7	17.1	14	40	302.005.017.002	
300.016.017.040	16.7	20.1	16	40	302.005.017.002	
300.019.020.040	19.7	24.1	18	40	302.005.017.002	
300.020.024.080	23.9	31.1	20	80	314.011.024.006	
300.025.031.100	30.9	40.1	25	100	314.013.031.006	
300.032.040.128	39.9	51.1	32	128	314.017.040.006	

Solid carbide shank

Unit : mm

Shank CODE No.	D	L1	For fine boring head	Weight (kg)
284.014.006.110	14	110	300.014.015.040	
284.016.010.120	16	120	300.016.017.040	
284.018.010.140	18	140	300.019.020.040	
284.020.010.170	20	170	300.020.024.080	
284.025.012.206	25	206	300.025.031.100	
284.032.016.252	32	252	300.032.040.128	



Steel shank

Unit : mm

Shank CODE No.	D	L1	For fine boring head	Weight (kg)
282.014.006.060	14	60	300.014.015.040	
282.016.010.070	16	70	300.016.017.040	
282.018.010.080	18	80	300.019.020.040	

- Fine boring head, shank and insert holder must be ordered separately
- Insert holder from code 314



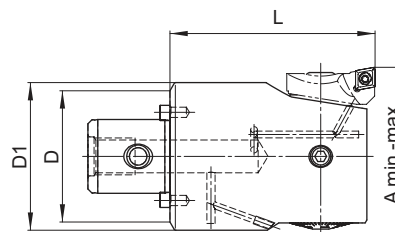
Insert holders

Unit : mm

CODE No.	Insert	Fine boring head	Weight (kg)
302.005.017.002	WC .. 02 01 ..	300.014.015.040	
		300.016.017.040	
		300.019.020.040	

FINE BORING HEAD

- Diametrical adjustment nearly with-out reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- With inner coolant supply



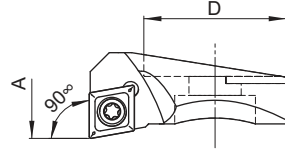
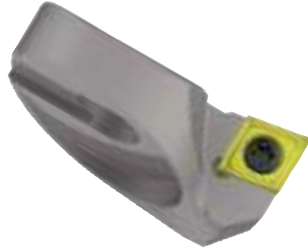
Unit : mm

CODE No.	ØA		ST	D	D1	L	Insert holder	Weight (kg)
	min.	max.						
304.020.024.035	23.9	31.1	ST1	20	20	35.5	314.011.024.006	
	29.9	37.1				40	314.011.030.006	
304.025.031.040	30.9	40.1	ST2	25	25	47	314.013.031.006	
	37.9	47.1				57	314.013.038.006	
304.032.040.047	39.9	51.1	ST3	32	32	80	314.017.040.006	
	47.9	59.1				100	314.017.048.006	
304.039.051.057	50.9	67.1	ST4	39	42	130	314.022.051.006	
	64.9	81.1					314.022.065.006	
304.050.067.080	66.9	87.1	ST5	50	55		314.030.067.009	
	66.9	87.1					314.030.067.006	
	84.9	105.1					314.030.085.006/9	
304.064.087.100	86.9	116.1	ST6+	64	72		314.030.067.009	
	86.9	116.1					314.030.067.006	
	104.9	134.1					314.030.085.006/9	
304.090.116.130	115.9	153.1	ST7+	90	94		314.030.067.009	
	115.9	153.1					314.030.067.006	
	133.9	171.1					314.030.085.006/9	

► Insert holders must be ordered separately

INSERT HOLDER (90°) for FINE BORING BAR

- For use in fine boring heads from code 304



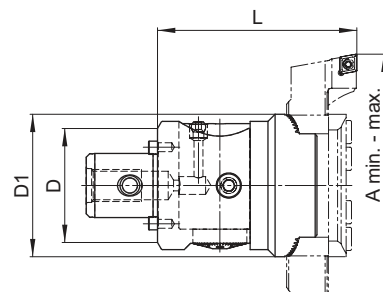
Unit : mm

CODE No.	ØA		D	Insert	Fine boring head	Weight (kg)
	min.	max.				
314.011.024.006	23.9	31.1	11	CC . . 06 02 . .	304.020.024.035	
314.011.030.006	29.9	37.1	11	CC . . 06 02 . .	304.020.024.035	
314.013.031.006	30.9	40.1	13	CC . . 06 02 . .	304.025.031.040	
314.013.038.006	37.9	47.1	13	CC . . 06 02 . .	304.025.031.040	
314.017.040.006	39.9	51.1	17	CC . . 06 02 . .	304.032.040.047	
314.017.048.006	47.9	59.1	17	CC . . 06 02 . .	304.032.040.047	
314.022.051.006	50.9	67.1	22	CC . . 06 02 . .	304.039.051.057	
314.022.065.006	64.9	81.1	22	CC . . 06 02 . .	304.039.051.057	
314.030.067.006	66.9	87.1	30	CC . . 06 02 . .	304.050.067.080	
314.030.067.009	66.9	87.1	30	CC . . 09 T3 . .	304.050.067.080	
314.030.085.006	84.9	105.1	30	CC . . 06 02 . .	304.050.067.080	
314.030.085.009	84.9	105.1	30	CC . . 09 T3 . .	304.050.067.080	
314.030.067.006	86.9	116.1	30	CC . . 06 02 . .	304.064.087.100	
314.030.067.009	86.9	116.1	30	CC . . 09 T3 . .	304.064.087.100	
314.030.085.006	104.9	134.1	30	CC . . 06 02 . .	304.064.087.100	
314.030.085.009	104.9	134.1	30	CC . . 09 T3 . .	304.064.087.100	
314.030.067.006	115.9	153.1	30	CC . . 06 02 . .	304.090.116.130	
314.030.067.009	115.9	153.1	30	CC . . 09 T3 . .	304.090.116.130	
314.030.085.006	133.9	171.1	30	CC . . 06 02 . .	304.090.116.130	
314.030.085.009	133.9	171.1	30	CC . . 09 T3 . .	304.090.116.130	

FINE BORING HEAD

Boring Range : 86-402mm

- Diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment
- With inner coolant supply

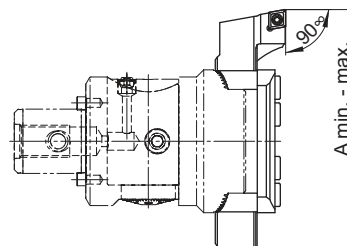


Unit : mm

CODE No.	ØA		ST	D	D1	L	Weight (kg)
	min.	max.					
344.064.086.112	86	402	ST6+	64	80	112	

► Insert holders from code 354 must be ordered separately

Clamp plate and support block (Insert holder including)

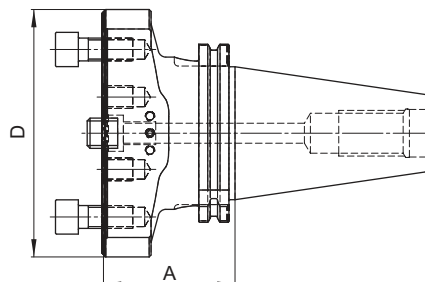


Unit : mm

CODE No.	ØA		Insert	Weight (kg)
	min.	max.		
354.086.138.009	86	138	CC . . 09 T3 . .	
354.086.138.012	86	138	CC . . 12 04 . .	
354.136.220.009	136	220	CC . . 09 T3 . .	
354.136.220.012	136	220	CC . . 12 04 . .	
354.188.302.009	188	302	CC . . 09 T3 . .	
354.242.402.009	242	402	CC . . 09 T3 . .	

BASIC HOLDER for FINE BORING BAR

With bridge adapter



ANSI B5.50-CAT

Unit : mm

TAPER No.	CODE No.	D	A	Weight (kg)
40	504.340.130.069	130	69.1	
50	504.350.130.069	130	69.1	

DIN 69871-SK

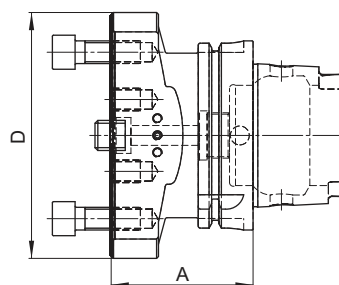
Unit : mm

TAPER No.	CODE No.	D	A	Weight (kg)
40	514.440.130.069	130	69.1	
50	514.450.130.069	130	69.1	

JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	CODE No.	D	A	Weight (kg)
40	534.540.130.077	130	77	
50	534.550.130.088	130	88	



DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

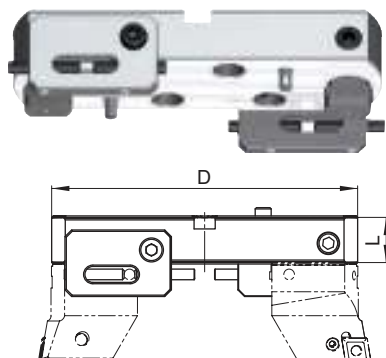
TAPER No.	CODE No.	D	A	Weight (kg)
63A	544.806.130.075	130	77	
100A	544.810.130.075	130	88	

► Cooling set must be ordered separately

EXTENSION BRIDGE for FINE BORING BAR

Boring Range : 150-655mm

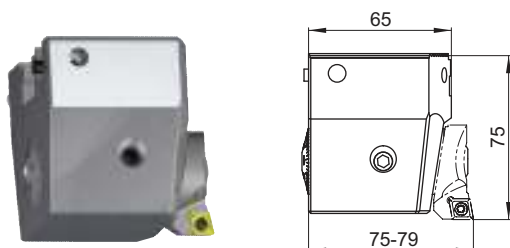
- For use on bridge adapters from code 514 to 554



Unit : mm

CODE No.	D	L	Boring range	Weight (kg)
560.130.130.030	130	30	150 - 205	
560.130.180.030	180	30	200 - 255	
560.130.230.035	230	35	250 - 305	
560.130.280.035	280	35	300 - 355	
560.130.330.040	330	40	350 - 405	
560.130.380.040	380	40	400 - 455	
560.130.430.040	430	40	450 - 505	
560.130.480.040	480	40	500 - 555	
560.130.530.050	530	50	550 - 605	
560.130.580.050	580	50	600 - 655	

Fine boring head

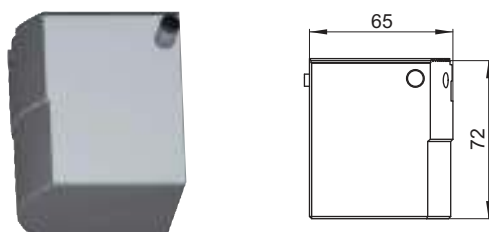


- For use on extension bridges from series 560 and 564
- Diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment

CODE No.		Weight (kg)
590.070.030.075	314.030.067.006	
	314.030.067.009	

► insert holder must be ordered separately

Counter weight

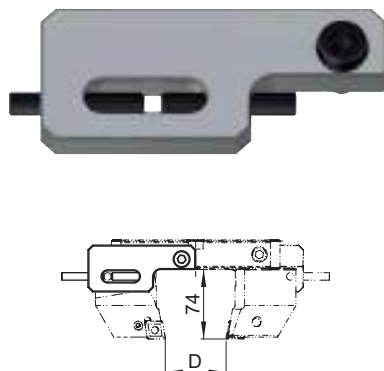


- For use with fine boring head from serie 590

CODE No.	Weight (kg)
594.070.065.072	

ADJUSTMENT PLATE for FINE BORING BAR

For pin turning

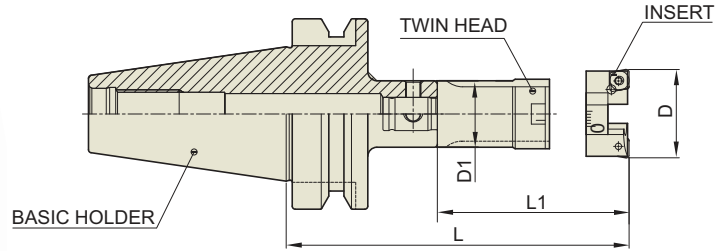


Unit : mm

Adjustment plate CODE No.	For extensions bridge	D	Weight (kg)
900.561.080.012	560.130.180.030	10 - 65	
900.561.080.012	560.130.230.035	60 - 115	
900.561.080.012	560.130.280.035	110 - 165	
900.561.080.012	560.130.330.040	160 - 215	
900.561.080.012	560.130.380.040	210 - 265	
900.561.080.012	560.130.430.040	260 - 315	
900.561.080.012	560.130.480.040	310 - 365	
900.561.080.012	560.130.530.050	360 - 415	
900.561.080.012	560.130.580.050	410 - 465	

TWIN EDGE BORING BAR (SMALL BORE)

DOPPELSCHNEIDER - BOHRSTANGE
BARRE D'ALÉSAGE À 2 ARÊTES DE COUPE
PORTA TESTINE BILAMA
BARRAS DE MANDRINAR DE DOS PLACAS



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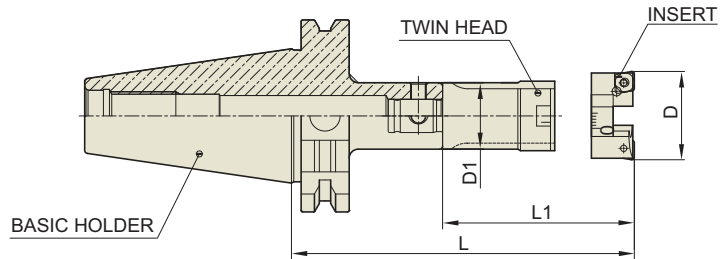
JIS B6339/MAS 403-BT

Unit : mm

MODEL No.	D	L	BASIC HOLDER	TWIN HEAD	D1	L1	INSERT	Weight (kg)	Stock
	Min - Max								
BT30-TBH25-90	Ø25 - Ø34	90	BT30-SAS22-40	SAS22-TBH25-50	22	50	CCMT060200		
BT30-TBH25-140	Ø25 - Ø34	140	BT30-SAS22-90	SAS22-TBH25-50	22	50	CCMT060200		
BT30-TBH34-110	Ø34 - Ø50	110	BT30-SAS31-50	SAS31-TBH34-60	31	60	CCMT060200		
BT30-TBH34-150	Ø34 - Ø50	150	BT30-SAS31-90	SAS31-TBH34-60	31	60	CCMT060200		
BT40-TBH25-100	Ø25 - Ø34	100	BT40-SAS22-50	SAS22-TBH25-50	22	50	CCMT060200		
BT40-TBH25-140	Ø25 - Ø34	140	BT40-SAS22-90	SAS22-TBH25-50	22	50	CCMT060200		
BT40-TBH25-155	Ø25 - Ø34	155	BT40-SAS22-105	SAS22-TBH25-50	22	50	CCMT060200		
BT40-TBH34-120	Ø34 - Ø50	120	BT40-SAS31-60	SAS31-TBH34-60	31	60	CCMT060200		
BT40-TBH34-160	Ø34 - Ø50	160	BT40-SAS31-100	SAS31-TBH34-60	31	60	CCMT060200		
BT40-TBH34-180	Ø34 - Ø50	180	BT40-SAS31-120	SAS31-TBH34-60	31	60	CCMT060200		
BT40-TBH50-140	Ø50 - Ø76	140	BT40-SAS42-60	SAS42-TBH50-80	42	80	CCMT09T300		
BT40-TBH50-185	Ø50 - Ø76	185	BT40-SAS42-105	SAS42-TBH50-80	42	80	CCMT09T300		
BT40-TBH50-200	Ø50 - Ø76	200	BT40-SAS42-120	SAS42-TBH50-80	42	80	CCMT09T300		
BT40-TBH76-180	Ø76 - Ø116	180	BT40-SAS65-70	SAS65-TBH76-110	65	110	CCMT120400		
BT40-TBH76-200	Ø76 - Ø116	200	BT40-SAS65-90	SAS65-TBH76-110	65	110	CCMT120400		
BT40-TBH76-220	Ø76 - Ø116	220	BT40-SAS65-110	SAS65-TBH76-110	65	110	CCMT120400		
BT40-TBH76-240	Ø76 - Ø116	240	BT40-SAS65-130	SAS65-TBH76-110	65	110	CCMT120400		
BT50-TBH25-110	Ø25 - Ø34	110	BT50-SAS22-60	SAS22-TBH25-50	22	50	CCMT060200		
BT50-TBH25-130	Ø25 - Ø34	130	BT50-SAS22-80	SAS22-TBH25-50	22	50	CCMT060200		
BT50-TBH25-150	Ø25 - Ø34	150	BT50-SAS22-100	SAS22-TBH25-50	22	50	CCMT060200		
BT50-TBH34-130	Ø34 - Ø50	130	BT50-SAS31-70	SAS31-TBH34-60	31	60	CCMT060200		
BT50-TBH34-160	Ø34 - Ø50	160	BT50-SAS31-100	SAS31-TBH34-60	31	60	CCMT060200		
BT50-TBH34-190	Ø34 - Ø50	190	BT50-SAS31-130	SAS31-TBH34-60	31	60	CCMT060200		
BT50-TBH50-150	Ø50 - Ø76	150	BT50-SAS42-70	SAS42-TBH50-80	42	80	CCMT09T300		
BT50-TBH50-190	Ø50 - Ø76	190	BT50-SAS42-110	SAS42-TBH50-80	42	80	CCMT09T300		
BT50-TBH50-240	Ø50 - Ø76	240	BT50-SAS42-150	SAS42-TBH50-80	42	80	CCMT09T300		
BT50-TBH76-200	Ø76 - Ø116	200	BT50-SAS65-90	SAS65-TBH76-110	65	110	CCMT120400		
BT50-TBH76-240	Ø76 - Ø116	240	BT50-SAS65-130	SAS65-TBH76-110	65	110	CCMT120400		
BT50-TBH76-280	Ø76 - Ø116	280	BT50-SAS65-170	SAS65-TBH76-110	65	110	CCMT120400		
BT50-TBH116-225	Ø116 - Ø156	225	BT50-SAS84-80	SAS84-TBH116-145	84	145	CCMT120400		
BT50-TBH116-275	Ø116 - Ø156	275	BT50-SAS84-130	SAS84-TBH116-145	84	145	CCMT120400		
BT50-TBH116-325	Ø116 - Ø156	325	BT50-SAS84-180	SAS84-TBH116-145	84	145	CCMT120400		

TWIN EDGE BORING BAR (SMALL BORE)

DOPPELSCHNEIDER - BOHRSTANGE
BARRE D'ALÉSAGE À 2 ARÊTES DE COUPE
PORTA TESTINE BILAMA
BARRAS DE MANDRINAR DE DOS PLACAS



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

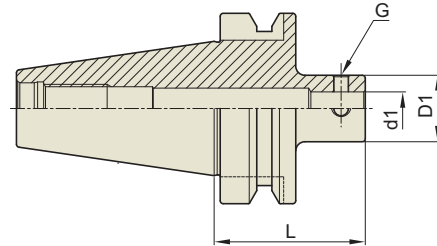
Coolant
System

DIN 69871-SK

Unit : mm

MODEL No.	D	L	BASIC HOLDER	TWIN HEAD	D1	L1	INSERT	Weight [kg]	Stock
	Min - Max								
SK30-TBH25-90	Ø25 - Ø34	90	SK30-SAS22-40	SAS22-TBH25-50	22	50	CCMT060200		
SK30-TBH25-140	Ø25 - Ø34	140	SK30-SAS22-90	SAS22-TBH25-50	22	50	CCMT060200		
SK30-TBH34-110	Ø34 - Ø50	110	SK30-SAS31-50	SAS31-TBH34-60	31	60	CCMT060200		
SK30-TBH34-150	Ø34 - Ø50	150	SK30-SAS31-90	SAS31-TBH34-60	31	60	CCMT060200		
SK40-TBH25-100	Ø25 - Ø34	100	SK40-SAS22-50	SAS22-TBH25-50	22	50	CCMT060200		
SK40-TBH25-140	Ø25 - Ø34	140	SK40-SAS22-90	SAS22-TBH25-50	22	50	CCMT060200		
SK40-TBH25-155	Ø25 - Ø34	155	SK40-SAS22-105	SAS22-TBH25-50	22	50	CCMT060200		
SK40-TBH34-120	Ø34 - Ø50	120	SK40-SAS31-60	SAS31-TBH34-60	31	60	CCMT060200		
SK40-TBH34-160	Ø34 - Ø50	160	SK40-SAS31-100	SAS31-TBH34-60	31	60	CCMT060200		
SK40-TBH34-180	Ø34 - Ø50	180	SK40-SAS31-120	SAS31-TBH34-60	31	60	CCMT060200		
SK40-TBH50-140	Ø50 - Ø76	140	SK40-SAS42-60	SAS42-TBH50-80	42	80	CCMT09T300		
SK40-TBH50-185	Ø50 - Ø76	185	SK40-SAS42-105	SAS42-TBH50-80	42	80	CCMT09T300		
SK40-TBH50-200	Ø50 - Ø76	200	SK40-SAS42-120	SAS42-TBH50-80	42	80	CCMT09T300		
SK40-TBH76-180	Ø76 - Ø116	180	SK40-SAS65-70	SAS65-TBH76-110	65	110	CCMT120400		
SK40-TBH76-200	Ø76 - Ø116	200	SK40-SAS65-90	SAS65-TBH76-110	65	110	CCMT120400		
SK40-TBH76-220	Ø76 - Ø116	220	SK40-SAS65-110	SAS65-TBH76-110	65	110	CCMT120400		
SK40-TBH76-240	Ø76 - Ø116	240	SK40-SAS65-130	SAS65-TBH76-110	65	110	CCMT120400		
SK50-TBH25-110	Ø25 - Ø34	110	SK50-SAS22-60	SAS22-TBH25-50	22	50	CCMT060200		
SK50-TBH25-130	Ø25 - Ø34	130	SK50-SAS22-80	SAS22-TBH25-50	22	50	CCMT060200		
SK50-TBH25-150	Ø25 - Ø34	150	SK50-SAS22-100	SAS22-TBH25-50	22	50	CCMT060200		
SK50-TBH34-130	Ø34 - Ø50	130	SK50-SAS31-70	SAS31-TBH34-60	31	60	CCMT060200		
SK50-TBH34-160	Ø34 - Ø50	160	SK50-SAS31-100	SAS31-TBH34-60	31	60	CCMT060200		
SK50-TBH34-190	Ø34 - Ø50	190	SK50-SAS31-130	SAS31-TBH34-60	31	60	CCMT060200		
SK50-TBH50-150	Ø50 - Ø76	150	SK50-SAS42-70	SAS42-TBH50-80	42	80	CCMT09T300		
SK50-TBH50-190	Ø50 - Ø76	190	SK50-SAS42-110	SAS42-TBH50-80	42	80	CCMT09T300		
SK50-TBH50-240	Ø50 - Ø76	240	SK50-SAS42-150	SAS42-TBH50-80	42	80	CCMT09T300		
SK50-TBH76-200	Ø76 - Ø116	200	SK50-SAS65-90	SAS65-TBH76-110	65	110	CCMT120400		
SK50-TBH76-240	Ø76 - Ø116	240	SK50-SAS65-130	SAS65-TBH76-110	65	110	CCMT120400		
SK50-TBH76-280	Ø76 - Ø116	280	SK50-SAS65-170	SAS65-TBH76-110	65	110	CCMT120400		
SK50-TBH116-225	Ø116 - Ø156	225	SK50-SAS84-80	SAS84-TBH116-145	84	145	CCMT120400		
SK50-TBH116-275	Ø116 - Ø156	275	SK50-SAS84-130	SAS84-TBH116-145	84	145	CCMT120400		
SK50-TBH116-325	Ø116 - Ø156	325	SK50-SAS84-180	SAS84-TBH116-145	84	145	CCMT120400		

BASIC HOLDER (SMALL BORE) for TWIN EDGE BORING BAR



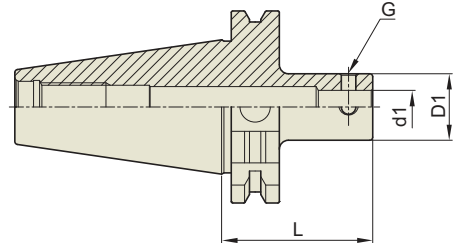
JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System
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JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	d1	D1	L	G	Weight (kg)
30	BT30-SAS22-40	Ø11	Ø22	40	M5	0.30
	BT30-SAS22-90	Ø11	Ø22	90	M5	0.40
	BT30-SAS31-50	Ø18	Ø31	50	M8	0.40
	BT30-SAS31-90	Ø18	Ø31	90	M8	0.50
40	BT40-SAS22-50	Ø11	Ø22	50	M5	1.70
	BT40-SAS22-90	Ø11	Ø22	90	M5	1.90
	BT40-SAS22-105	Ø11	Ø22	105	M5	1.90
	BT40-SAS31-60	Ø18	Ø31	60	M8	1.90
	BT40-SAS31-100	Ø18	Ø31	100	M8	2.30
	BT40-SAS31-120	Ø18	Ø31	120	M8	2.40
	BT40-SAS42-60	Ø24	Ø42	60	M10	2.70
	BT40-SAS42-105	Ø24	Ø42	105	M10	2.90
	BT40-SAS42-120	Ø24	Ø42	120	M10	3.10
	BT40-SAS65-70	Ø34	Ø65	70	M16	3.30
	BT40-SAS65-90	Ø34	Ø65	90	M16	3.60
	BT40-SAS65-110	Ø34	Ø65	110	M16	4.60
	BT40-SAS65-130	Ø34	Ø65	130	M16	4.70
50	BT50-SAS22-60	Ø11	Ø22	60	M5	4.30
	BT50-SAS22-80	Ø11	Ø22	80	M5	4.50
	BT50-SAS22-100	Ø11	Ø22	100	M5	4.70
	BT50-SAS31-70	Ø18	Ø31	70	M8	4.50
	BT50-SAS31-100	Ø18	Ø31	100	M8	5.10
	BT50-SAS31-130	Ø18	Ø31	130	M8	5.40
	BT50-SAS42-70	Ø24	Ø42	70	M10	5.00
	BT50-SAS42-110	Ø24	Ø42	110	M10	5.20
	BT50-SAS42-150	Ø24	Ø42	150	M10	5.50
	BT50-SAS65-90	Ø34	Ø65	90	M16	6.80
	BT50-SAS65-130	Ø34	Ø65	130	M16	7.50
	BT50-SAS65-170	Ø34	Ø65	170	M16	8.00
	BT50-SAS84-80	Ø46	Ø84	80	M16	9.00
	BT50-SAS84-130	Ø46	Ø84	130	M16	9.70
	BT50-SAS84-180	Ø46	Ø84	180	M16	9.90

BASIC HOLDER (SMALL BORE) for TWIN EDGE BORING BAR



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

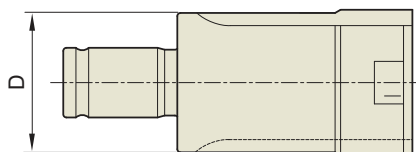
Coolant
System

DIN 69871-SK

Unit : mm

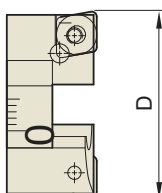
TAPER No.	MODEL No.	d1	D1	L	G	Weight (kg)
30	SK30-SAS22-40	Ø11	Ø22	40	M5	0.30
	SK30-SAS22-90	Ø11	Ø22	90	M5	0.40
	SK30-SAS31-50	Ø18	Ø31	50	M8	0.40
	SK30-SAS31-90	Ø18	Ø31	90	M8	0.50
40	SK40-SAS22-50	Ø11	Ø22	50	M5	1.70
	SK40-SAS22-90	Ø11	Ø22	90	M5	1.90
	SK40-SAS22-105	Ø11	Ø22	105	M5	1.90
	SK40-SAS31-60	Ø18	Ø31	60	M8	1.90
	SK40-SAS31-100	Ø18	Ø31	100	M8	2.30
	SK40-SAS31-120	Ø18	Ø31	120	M8	2.40
	SK40-SAS42-60	Ø24	Ø42	60	M10	2.70
	SK40-SAS42-105	Ø24	Ø42	105	M10	2.90
	SK40-SAS42-120	Ø24	Ø42	120	M10	3.10
	SK40-SAS65-70	Ø34	Ø65	70	M16	3.30
	SK40-SAS65-90	Ø34	Ø65	90	M16	3.60
	SK40-SAS65-110	Ø34	Ø65	110	M16	4.60
	SK40-SAS65-130	Ø34	Ø65	130	M16	4.70
50	SK50-SAS22-60	Ø11	Ø22	60	M5	4.30
	SK50-SAS22-80	Ø11	Ø22	80	M5	4.50
	SK50-SAS22-100	Ø11	Ø22	100	M5	4.70
	SK50-SAS31-70	Ø18	Ø31	70	M8	4.50
	SK50-SAS31-100	Ø18	Ø31	100	M8	5.10
	SK50-SAS31-130	Ø18	Ø31	130	M8	5.40
	SK50-SAS42-70	Ø24	Ø42	70	M10	5.00
	SK50-SAS42-110	Ø24	Ø42	110	M10	5.20
	SK50-SAS42-150	Ø24	Ø42	150	M10	5.50
	SK50-SAS65-90	Ø34	Ø65	90	M16	6.80
	SK50-SAS65-130	Ø34	Ø65	130	M16	7.50
	SK50-SAS65-170	Ø34	Ø65	170	M16	8.00
	SK50-SAS84-80	Ø46	Ø84	80	M16	9.00
	SK50-SAS84-130	Ø46	Ø84	130	M16	9.70
	SK50-SAS84-180	Ø46	Ø84	180	M16	9.90

TWIN HEAD



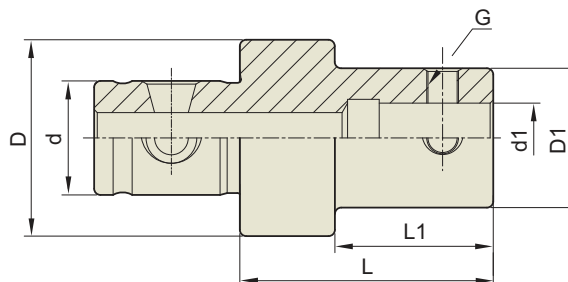
TWIN HEAD	D	Weight (kg)
SAS22-TBH25-50	22	
SAS31-TBH34-60	31	
SAS42-TBH50-80	42	
SAS65-TBH76-110	65	
SAS84-TBH116-145	84	

INSERT HOLDER (CARTRIDGE) for TWIN EDGE BORING BAR



INSERT HOLDER	D		Weight (kg)
	Min	Max.	
TBH25-CC06	Ø25 - Ø34		
TBH34-CC06	Ø34 - Ø50		
TBH50-CC09	Ø50 - Ø76		
TBH76-CC12	Ø76 - Ø116		
TBH116-CC12	Ø116 - Ø156		

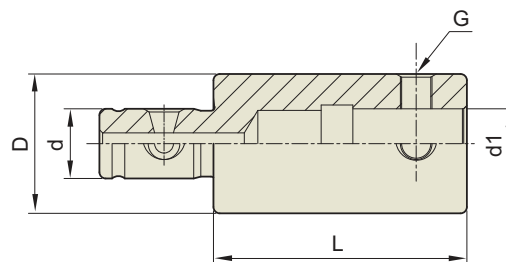
REDUCTION BAR for TWIN EDGE BORING BAR



Unit : mm

TWIN HEAD	d	d1	D	D1	L	L1	G	Weight (kg)
R-SAS31-22-40	Ø18	Ø11	Ø31	Ø22	40	25	M5	
R-SAS42-22-45	Ø24	Ø11	Ø42	Ø22	45	25	M5	
R-SAS42-31-50	Ø24	Ø18	Ø42	Ø31	50	30	M8	
R-SAS65-22-50	Ø34	Ø11	Ø65	Ø22	50	25	M5	
R-SAS65-31-55	Ø34	Ø18	Ø65	Ø31	55	30	M8	
R-SAS65-42-65	Ø34	Ø24	Ø65	Ø42	65	40	M10	
R-SAS84-22-55	Ø46	Ø11	Ø84	Ø22	55	25	M5	
R-SAS84-31-60	Ø46	Ø18	Ø84	Ø31	60	30	M8	
R-SAS84-42-65	Ø46	Ø24	Ø84	Ø42	65	40	M10	
R-SAS84-65-70	Ø46	Ø34	Ø84	Ø65	70	40	M16	

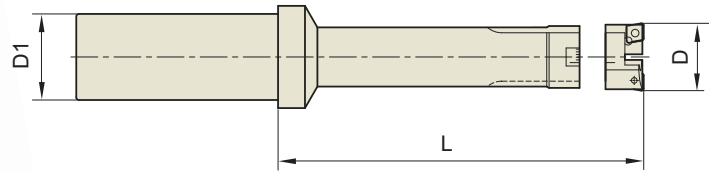
EXTENSION BAR for TWIN EDGE BORING BAR



Unit : mm

TWIN HEAD	d	d1	D	L	G	Weight (kg)
E-SAS22-40	Ø11	Ø11	Ø22	40	M5	
E-SAS22-60	Ø11	Ø11	Ø22	60	M5	
E-SAS31-50	Ø18	Ø18	Ø31	50	M8	
E-SAS31-80	Ø18	Ø18	Ø31	80	M8	
E-SAS42-60	Ø24	Ø24	Ø42	60	M10	
E-SAS42-90	Ø24	Ø24	Ø42	90	M10	
E-SAS65-70	Ø34	Ø34	Ø65	70	M16	
E-SAS65-100	Ø34	Ø34	Ø65	100	M16	
E-SAS84-90	Ø46	Ø46	Ø84	90	M16	
E-SAS84-100	Ø46	Ø46	Ø84	100	M16	

TWIN EDGE BORING BAR (STRAIGHT)



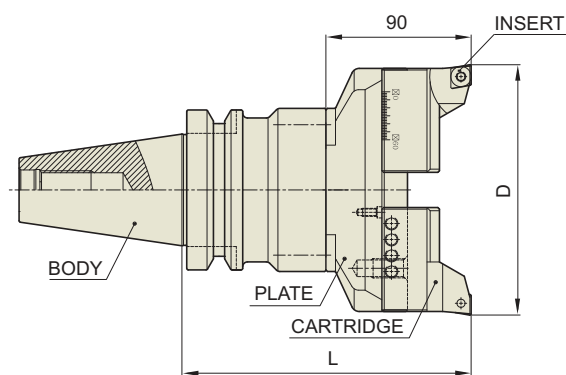
ST

Unit : mm

MODEL No.	D		L	D1	INSERT	Weight (kg)	Stock
	Min	Max					
ST32-TBH25-125	Ø25	Ø34	125	32	CCMT060200		
ST32-TBH34-130	Ø34	Ø50	130	32	CCMT060200		
ST32-TBH50-155	Ø50	Ø76	155	32	CCMT09T300		
ST40-TBH76-185	Ø76	Ø116	185	40	CCMT120400		
ST42-TBH76-185	Ø76	Ø116	185	42	CCMT120400		

TWIN EDGE BORING BAR (BIG BORE-for ROUGH BORING)

DOPPELSCHNEIDER - BOHRSTANGE
BARRE D'ALÉSAGE À 2 ARÊTES DE COUPE
PORTA TESTINE BILAMA
BARRAS DE MANDRINAR DE DOS PLACAS



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

JIS B6339/MAS 403-BT

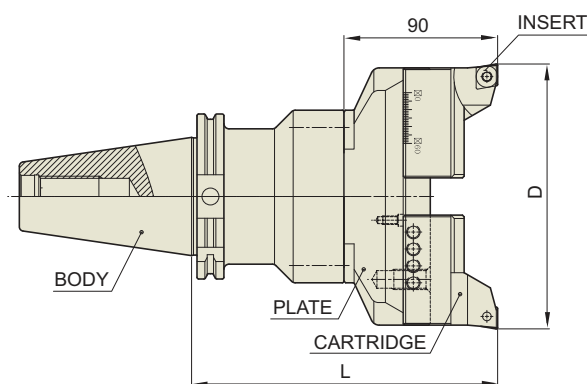
Unit : mm

MODEL No.	D		L	BODY	PLATE	INSERT	Weight (kg)	Stock
	Min	Max						
BT50-TBH156-180	Ø156	Ø216	180	BT50-SAS102-90	PLA156	CCMT120400		
BT50-TBH156-230	Ø156	Ø216	230	BT50-SAS102-140	PLA156	CCMT120400		
BT50-TBH156-280	Ø156	Ø216	280	BT50-SAS102-190	PLA156	CCMT120400		
BT50-TBH216-180	Ø216	Ø276	180	BT50-SAS102-90	PLA216	CCMT120400		
BT50-TBH216-230	Ø216	Ø276	230	BT50-SAS102-140	PLA216	CCMT120400		
BT50-TBH216-280	Ø216	Ø276	280	BT50-SAS102-190	PLA216	CCMT120400		
BT50-TBH276-180	Ø276	Ø336	180	BT50-SAS102-90	PLA276	CCMT120400		
BT50-TBH276-230	Ø276	Ø336	230	BT50-SAS102-140	PLA276	CCMT120400		
BT50-TBH276-280	Ø276	Ø336	280	BT50-SAS102-190	PLA276	CCMT120400		
BT50-TBH336-180	Ø336	Ø396	180	BT50-SAS102-90	PLA336	CCMT120400		
BT50-TBH336-230	Ø336	Ø396	230	BT50-SAS102-140	PLA336	CCMT120400		
BT50-TBH336-280	Ø336	Ø396	280	BT50-SAS102-190	PLA336	CCMT120400		
BT50-TBH396-180	Ø396	Ø456	180	BT50-SAS102-90	PLA396	CCMT120400		
BT50-TBH396-230	Ø396	Ø456	230	BT50-SAS102-140	PLA396	CCMT120400		
BT50-TBH396-280	Ø396	Ø456	280	BT50-SAS102-190	PLA396	CCMT120400		
BT50-TBH456-180	Ø456	Ø516	180	BT50-SAS102-90	PLA456	CCMT120400		
BT50-TBH456-230	Ø456	Ø516	230	BT50-SAS102-140	PLA456	CCMT120400		
BT50-TBH456-280	Ø456	Ø516	280	BT50-SAS102-190	PLA456	CCMT120400		
BT50-TBH516-180	Ø516	Ø576	180	BT50-SAS102-90	PLA516	CCMT120400		
BT50-TBH516-230	Ø516	Ø576	230	BT50-SAS102-140	PLA516	CCMT120400		
BT50-TBH516-280	Ø516	Ø576	280	BT50-SAS102-190	PLA516	CCMT120400		

► Upon request , special twin edge boring bars with a boring range up to 800mm could be manufactured and supplied.

TWIN EDGE BORING BAR (BIG BORE-for ROUGH BORING)

DOPPELSCHNEIDER - BOHRSTANGE
 BARRE D'ALÉSAGE À 2 ARÊTES DE COUPE
 PORTA TESTINE BILAMA
 BARRAS DE MANDRINAR DE DOS PLACAS



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

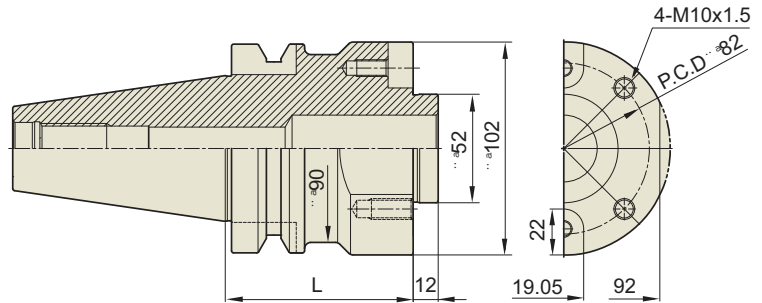
Unit : mm

MODEL No.	D		L	BODY	PLATE	INSERT	Weight (kg)	Stock
	Min	Max						
SK50-TBH156-180	Ø156	Ø216	180	SK50-SAS102-90	PLA156	CCMT120400		
SK50-TBH156-230	Ø156	Ø216	230	SK50-SAS102-140	PLA156	CCMT120400		
SK50-TBH156-280	Ø156	Ø216	280	SK50-SAS102-190	PLA156	CCMT120400		
SK50-TBH216-180	Ø216	Ø276	180	SK50-SAS102-90	PLA216	CCMT120400		
SK50-TBH216-230	Ø216	Ø276	230	SK50-SAS102-140	PLA216	CCMT120400		
SK50-TBH216-280	Ø216	Ø276	280	SK50-SAS102-190	PLA216	CCMT120400		
SK50-TBH276-180	Ø276	Ø336	180	SK50-SAS102-90	PLA276	CCMT120400		
SK50-TBH276-230	Ø276	Ø336	230	SK50-SAS102-140	PLA276	CCMT120400		
SK50-TBH276-280	Ø276	Ø336	280	SK50-SAS102-190	PLA276	CCMT120400		
SK50-TBH336-180	Ø336	Ø396	180	SK50-SAS102-90	PLA336	CCMT120400		
SK50-TBH336-230	Ø336	Ø396	230	SK50-SAS102-140	PLA336	CCMT120400		
SK50-TBH336-280	Ø336	Ø396	280	SK50-SAS102-190	PLA336	CCMT120400		
SK50-TBH396-180	Ø396	Ø456	180	SK50-SAS102-90	PLA396	CCMT120400		
SK50-TBH396-230	Ø396	Ø456	230	SK50-SAS102-140	PLA396	CCMT120400		
SK50-TBH396-280	Ø396	Ø456	280	SK50-SAS102-190	PLA396	CCMT120400		
SK50-TBH456-180	Ø456	Ø516	180	SK50-SAS102-90	PLA456	CCMT120400		
SK50-TBH456-230	Ø456	Ø516	230	SK50-SAS102-140	PLA456	CCMT120400		
SK50-TBH456-280	Ø456	Ø516	280	SK50-SAS102-190	PLA456	CCMT120400		
SK50-TBH516-180	Ø516	Ø576	180	SK50-SAS102-90	PLA516	CCMT120400		
SK50-TBH516-230	Ø516	Ø576	230	SK50-SAS102-140	PLA516	CCMT120400		
SK50-TBH516-280	Ø516	Ø576	280	SK50-SAS102-190	PLA516	CCMT120400		

► Upon request , special twin edge boring bars with a boring range up to 800mm could be manufactured and supplied.

BASIC HOLDER (BIG BORE) for TWIN EDGE BORING BAR

JIS B6339/MAS 403-BT



JIS B6339
-BT

Taper
Accuracy
AT3

G Value

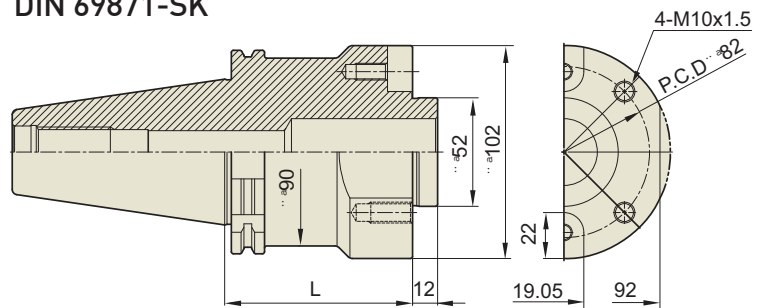
RPM

Coolant
System

Unit : mm

MODEL No.	L	Weight (kg)
BT50-SAS102-90	90	
BT50-SAS102-140	140	
BT50-SAS102-190	190	

DIN 69871-SK



DIN 69871
-SK

Taper
Accuracy
AT3

G Value

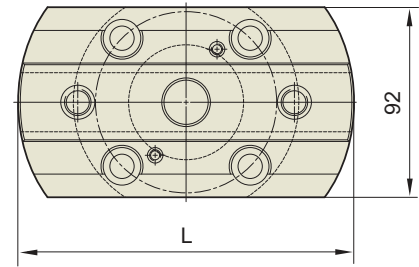
RPM

Coolant
System

Unit : mm

MODEL No.	L	Weight (kg)
SK50-SAS102-90	90	
SK50-SAS102-140	140	
SK50-SAS102-190	190	

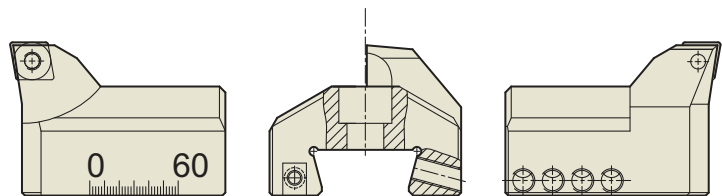
PLATE for TWIN EDGE BORING BAR



Unit : mm

PLATE	L	Weight (kg)
PLA156	152	
PLA216	212	
PLA276	272	
PLA336	332	
PLA396	392	
PLA456	452	
PLA516	512	

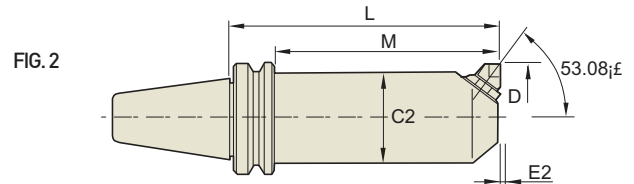
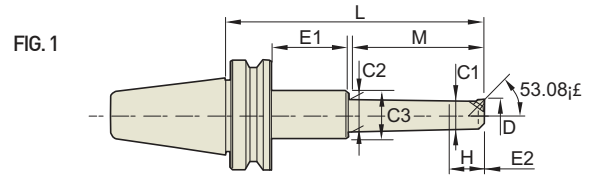
INSERT HOLDER (CARTRIDGE) for TWIN EDGE BORING BAR



CARTRIDGE (For Rough Cutting)	Weight (kg)
CN120	

MICRO BORING BAR

MIKRO - BOHRSTANGE
BARRE D'ALÉSAGE MICRO
PORTA TESTINE MICROREGISTRABILI
BARRAS DE MANDRINAR MICRO


JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	FIG.	D		L	M	C1	C2	C3	H	E1	E2	UNIT	INSERT	Weight (kg)	Stock
			Min	Max												
30	BT30-BCA13.5-105	1	13.5	16	105	68	12	13.0	44	15	5	0.2	M1B2 E/F	BRAZED TYPE		
	BT30-BCA14.5-105	1	14.5	17	105	68	13	14.0	44	15	5	0.2	M1B2 E/F	BRAZED TYPE		
	BT30-BCA16-105	3	16	22.5	105	73	14	15	-	18	-	0.2	M1A2 E/F	BRAZED TYPE		
	BT30-BCA19-120	1	19	23	120	85	16	18	44	23	3	0.2	M2B 2CC	CCGT0401	0.70	
	BT30-BCA23-135	3	23	29	135	105	19	22	-	24	-	0.2	M3B 2TC	TBGT0601	0.70	
	BT30-BCA29-150	1	29	41	150	115	25	28	44	30	8	0.2	M3A 2TC	TBGT0601	0.90	
	BT30-BCA29-195	1	29	41	195	115	25	28	44	30	53	0.2	M3A 2TC	TBGT0601		
	BT30-BCA38-150	1	38	49	150	115	33	35	55	41	8	0.2	M5B 2TC	TCGT1102	1.40	
	BT30-BCA38-210	1	38	49	210	175	33	37	55	41	8	0.2	M5B 2TC	TCGT1102		
	BT30-BCA46-150	1	46	66	150	115	38	41	55	45	8	0.2	M5A 2TC	TCGT1102	2.10	
	BT30-BCA46-210	1	46	66	210	175	38	45	55	45	8	0.2	M5A 2TC	TCGT1102		
40	BT30-BCA62-165	2	62	87	165	135	51	-	-	-	-	0.2	M7A 2TC	TCGT16T3		
	BT40-BCA13.5-105	1	13.5	16	105	68	12	13.0	44	15	5	0.2	M1B2 E/F	BRAZED TYPE		
	BT40-BCA14.5-105	1	14.5	17	105	68	13	14.0	44	15	5	0.2	M1B2 E/F	BRAZED TYPE		
	BT40-BCA16-105	3	16	22.5	105	73	14	15	-	18	-	0.2	M1A2 E/F	BRAZED TYPE		
	BT40-BCA19-120	1	19	23	120	85	16	18	44	23	3	0.2	M2B2CC	CCGT0401	1.50	
	BT40-BCA23-135	3	23	29	135	105	19	22	-	24	-	0.2	M3B2TC	TBGT0601	1.50	
	BT40-BCA29-150	1	29	41	150	115	25	28	44	30	8	0.2	M3A2TC	TBGT0601	1.50	
	BT40-BCA29-195	1	29	41	195	115	25	28	44	30	53	0.2	M3A2TC	TBGT0601	2.00	
	BT40-BCA38-150	1	38	49	150	115	33	35	55	41	8	0.2	M5B2TC	TCGT1102	1.80	
	BT40-BCA38-210	1	38	49	210	175	33	37	55	41	8	0.2	M5B2TC	TCGT1102	2.20	
	BT40-BCA46-150	1	46	66	150	115	38	41	55	45	8	0.2	M5A2TC	TCGT1102	2.10	
	BT40-BCA46-210	1	46	66	210	175	38	45	55	45	8	0.2	M5A2TC	TCGT1102	2.30	
	BT40-BCA62-165	2	62	87	165	135	51	-	-	-	-	0.2	M7A2TC	TCGT16T3	2.90	
	BT40-BCA62-210	2	62	87	210	180	51	-	-	-	-	0.2	M7A2TC	TCGT16T3	3.60	
	BT40-BCA83-150	2	83	108	150	120	63	-	-	-	-	0.2	M7A2TC	TCGT16T3		
	BT40-BCA83-210	2	83	108	210	180	63	-	-	-	-	0.2	M7A2TC	TCGT16T3		
	BT40-BCA98-150	4	98	142	150	120	83	-	-	85	-	0.2	M10A2TC	TCGT16T3		

MICRO BORING BAR

MIKRO - BOHRSTANGE
BARRE D'ALÉSAGE MICRO
PORTA TESTINE MICROREGISTRABILI
BARRAS DE MANDRINAR MICRO

FIG. 3

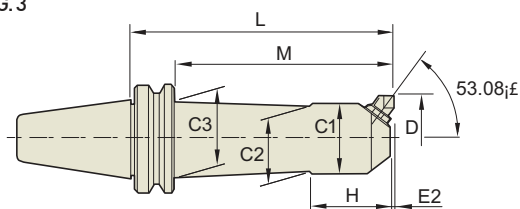
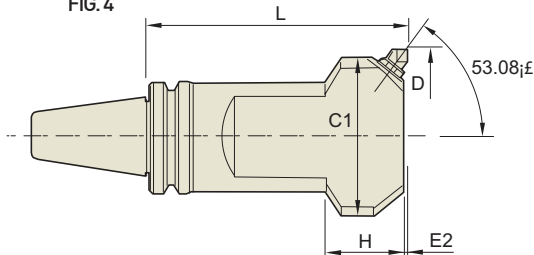


FIG. 4

JIS B6339
- BTTaper
Accuracy
AT3

G Value

RPM

Coolant
System

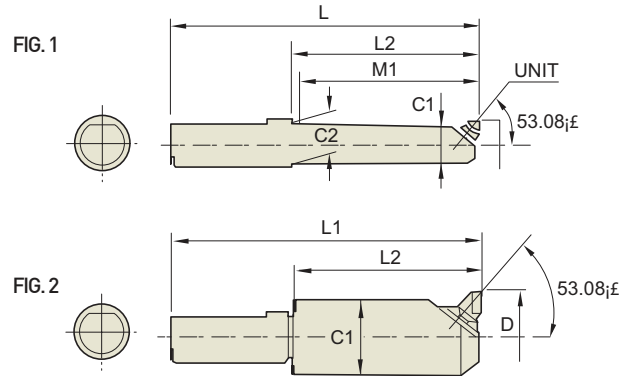
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	FIG.	D		L	M	C1	C2	C3	H	E1	E2	UNIT	INSERT	Weight (kg)	Stock
			Min	Max												
50	BT50-BCA13.5-120	1	13.5	16	120	67	12	13	44	15	10	0.2	M1B2 E/F	-		
	BT50-BCA13.5-195	1	13.5	16	195	67	12	13	44	15	85	0.2	M1B2 E/F	-		
	BT50-BCA14.5-120	1	14.5	17	120	67	13	14	44	15	10	0.2	M1B2 E/F	-		
	BT50-BCA14.5-195	1	14.5	17	195	67	13	14	44	15	85	0.2	M1B2 E/F	-		
	BT50-BCA16-120	1	16	22.5	120	73	14	15	44	18	4	0.2	M1A2 E/F	-		
	BT50-BCA16-195	1	16	22.5	195	73	14	15	44	18	79	0.2	M1A2 E/F	-		
	BT50-BCA19-135	1	19	23	135	86	16	18	44	23	6	0.2	M2B2CC	CCGT0401	3.80	
	BT50-BCA19-210	1	19	23	210	86	16	18	44	23	81	0.2	M2B2CC	CCGT0401		
	BT50-BCA23-150	1	23	29	150	105	19	22	44	24	2	0.2	M3B2TC	TBGT0601	3.90	
	BT50-BCA23-225	1	23	29	225	105	19	22	44	24	77	0.2	M3B2TC	TBGT0601		
	BT50-BCA29-165	1	29	41	165	115	25	28	44	30	7	0.2	M3A2TC	TBGT0601	4.50	
	BT50-BCA29-225	1	29	41	225	115	25	28	44	30	67	0.2	M3A2TC	TBGT0601		
	BT50-BCA38-165	1	38	49	165	115	33	35	55	41	7	0.2	M5B2TC	TCGT1102		
	BT50-BCA38-225	1	38	49	225	172	33	37	55	41	10	0.2	M5B2TC	TCGT1102	5.00	
	BT50-BCA46-165	1	46	66	165	115	38	41	55	45	7	0.2	M5A2TC	TCGT1102	5.20	
	BT50-BCA46-225	3	46	66	225	182	38	-	-	45	-	0.2	M5A2TC	TCGT1102		
	BT50-BCA46-255	1	46	66	255	206	38	-	55	45	6	0.2	M5A2TC	TCGT1102	5.70	
	BT50-BCA62-180	2	62	87	180	137	51	-	-	-	-	0.2	M7A2TC	TCGT16T3	7.00	
	BT50-BCA62-240	1	62	87	240	184	51	57	70	60	13	0.2	M7A2TC	TCGT16T3	7.60	
	BT50-BCA62-330	1	62	87	330	280	51	60	70	60	7	0.2	M7A2TC	TCGT16T3	9.50	
	BT50-BCA83-165	2	83	108	165	122	63	-	-	-	-	0.2	M7A2TC	TCGT16T3		
	BT50-BCA83-240	1	83	108	240	190	63	62	90	95	7	0.2	M7A2TC	TCGT16T3		
	BT50-BCA83-345	1	83	108	345	295	63	62	90	95	7	0.2	M7A2TC	TCGT16T3		
	BT50-BCA98-165	2	98	142	165	122	83	-	-	-	-	0.2	M10A2TC	TCGT16T3		
	BT50-BCA98-240	2	98	142	240	197	83	-	-	-	-	0.2	M10A2TC	TCGT16T3		
	BT50-BCA98-345	3	98	142	345	302	83	92	-	85	-	0.2	M10A2TC	TCGT16T3		
	BT50-BCA132-210	4	132	176	210	-	108	-	-	65	-	0.2	M10A2TC	TCGT16T3		
	BT50-BCA132-315	4	132	176	315	-	108	-	-	65	-	0.2	M10A2TC	TCGT16T3		
	BT50-BCA166-225	4	166	210	225	-	142	-	-	70	-	0.2	M10A2TC	TCGT16T3		
	BT50-BCA166-315	4	166	210	315	-	142	-	-	70	-	0.2	M10A2TC	TCGT16T3		
	BT50-BCA200-210	4	200	244	210	-	176	-	-	75	-	0.2	M10A2TC	TCGT16T3		

MICRO BORING BAR

MIKRO - BOHRSTANGE
BARRE D'ALÉSAGE MICRO
PORTA TESTINE MICROREGISTRABILI
BARRAS DE MANDRINAR MICRO



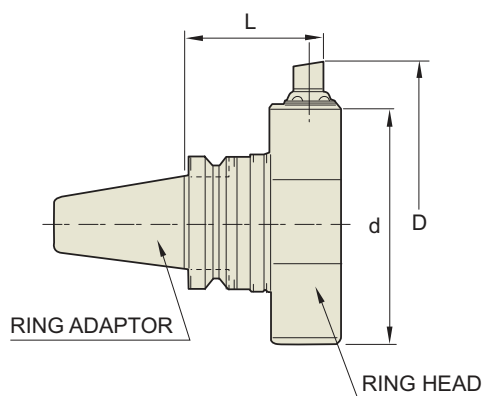
ST

Unit : mm

STYLE	MODEL No.	FIG.	D		L1	L2	M1	C1	C2	MICRO UNIT	Weight (kg)	Stock
			Min	Max								
32	ST32-BCA13.5-75	1	13.5	16	135	75	67	12	13	M1B2E/F	0.5	
	ST32-BCA14.5-75	1	14.5	17	145	75	67	12	14	M1B2E/F	0.5	
	ST32-BCA16-90	1	16	22.5	160	90	82	14	15	M1A2E/F	0.5	
	ST32-BCA19-90	1	19	23.0	160	90	82	16	18	M2B-2CC	0.5	•
	ST32-BCA23-120	1	23	29.0	190	120	110	19	22	M3B-2TC	1	•
	ST32-BCA29-120	1	29	41.0	190	120	110	25	28	M3A-2TC	1	•
	ST32-BCA38-120	2	38	49.0	190	120	115	33	35	M5B-2TC	1.5	•
	ST32-BCA46-120	2	46	66	190	120	115	38	-	M5A-2TC	1.5	•
	ST32-BCA62-120	2	62	87.0	190	120	115	51	-	M7A-2TC	2.5	•
42	ST42-BCA13.5-85	1	13.5	16	165	85	67	12	13	M1B2E or F	1.0	
	ST42-BCA14.5-85	1	14.5	17	165	85	67	12	14	M1B2E or F	1.0	
	ST42-BCA16-100	1	16	22.5	180	100	82	14	15	M1A2E or F	1.0	
	ST42-BCA19-100	1	19	23.0	180	100	82	16	18	M2B2E or F	1.0	
	ST42-BCA23-120	1	23	29.0	200	120	110	19	22	M3B-2TC	1.5	•
	ST42-BCA29-120	1	29	41.0	200	120	110	25	28	M3A-2TC	1.5	•
	ST42-BCA38-130	1	38	49.0	210	130	125	33	35	M5B-2TC	1.5	•
	ST42-BCA46-135	1	46	66.0	215	135	130	38	44	M5A-2TC	1.5	•
	ST42-BCA62-135	2	62	87.0	215	135	130	51	-	M7A-2TC	2.5	•
	ST42-BCA83-150	2	83	108	230	150	145	63	-	M7A-2TC	3.0	•

BIG SIZE MICRO CUT BORING BAR

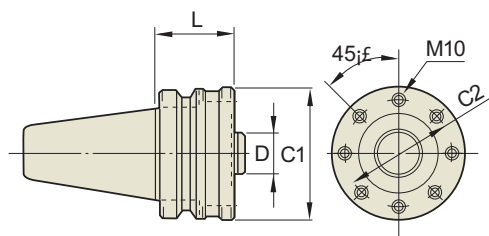
JIS B6339/MAS 403-BT



■ BORING RING HOLDER

Unit : mm

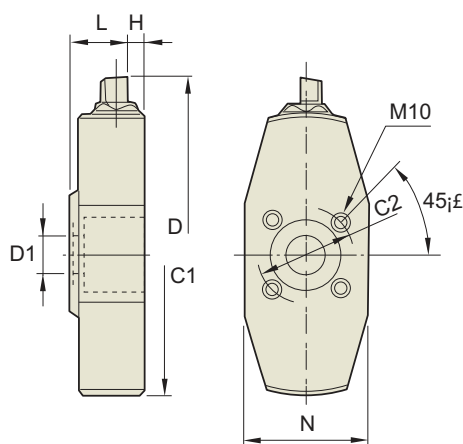
MODEL No.	d	D	L
BT50-BRA140-105	140	197	105
BT50-BRA140-165	140	197	165
BT50-BRA191-105	191	248	105
BT50-BRA191-165	191	248	165
BT50-BRA242-105	242	299	105
BT50-BRA242-165	242	299	165
BT50-BRA293-105	293	350	105
BT50-BRA293-165	293	350	165
BT50-BRA344-105	344	401	105
BT50-BRA344-165	344	401	165
BT50-BRA395-105	395	452	105
BT50-BRA395-165	395	452	165



■ RING ADAPTER

Unit : mm

MODEL No.	D(h6)	L	C1	C2
BT50-RAA32- 60	32	60	102	82
BT50-RAA32-120	32	120	102	82

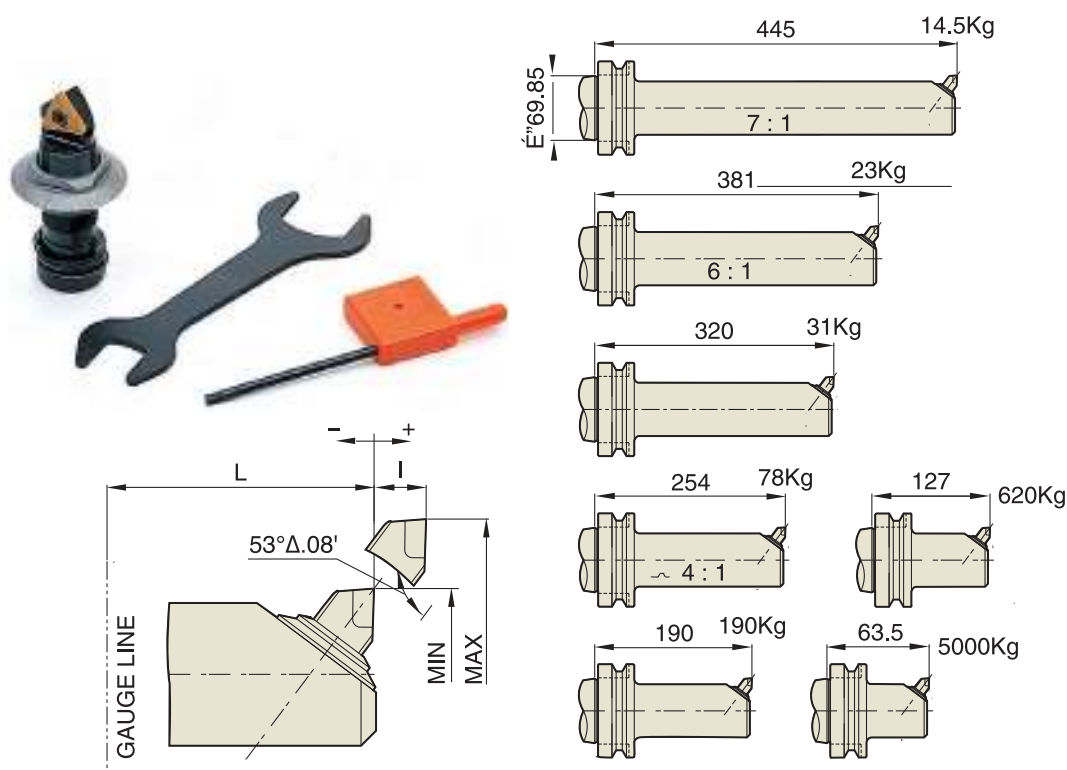


■ RING HEAD

Unit : mm

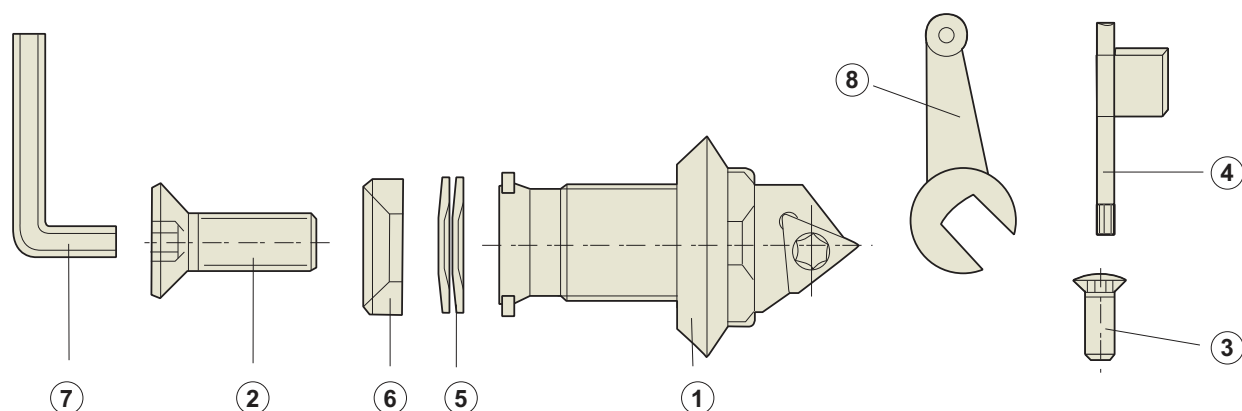
MODEL No.	D1 (H7)	D		L	C1	C2	H	N	MICRO UNIT
		MIN	MAX						
RH32-BCA140	32	140	197	45	102	82	14	-	M10A2TC
RH32-BCA191	32	191	248	45	136	82	14	-	M10A2TC
RH32-BCA242	32	242	299	45	184	82	14	103	M10A2TC
RH32-BCA293	32	293	350	45	234	82	14	103	M10A2TC
RH32-BCA344	32	344	401	45	284	82	14	103	M10A2TC
RH32-BCA395	32	395	452	45	36	82	14	103	M10A2TC

Strength of BORING BAR and Comparison Table of MICRO UNITS

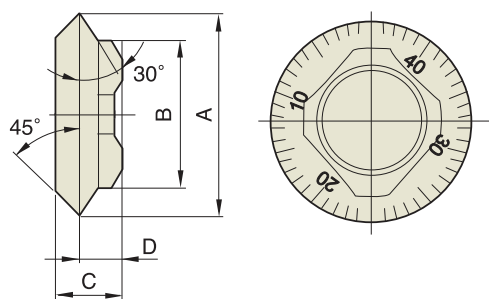


BORING BAR MODEL No.	BRAZED TYPE B EF		SCREW ON TYPE			Insert Spec
	MIN	MAX	MIN	MAX	ΔL	
BCA 19	M2B2	M2B2				CCGT0401
	19	23			-1.9	CCGT0401
BCA 23	M3B2	M3B2	M3B2TC	M3B2TC	M3B2TC	TBGT 060102
	23	29	24.9	30.9	-1.9	TBGT 060102
BCA 29	M3A2	M3A2	M3A2TC	M3A2TC	M3A2TC	TBGT 060102
	29	41.8	30.9	43.8	-1.9	TBGT 060102
BCA 38	M5B2	M5B2	M5B2TC	M5B2TC	M5B2TC	TCGT 110204
	38	49.2	40.9	52.1	-1.9	TCGT 110204
BCA 46	M5A2	M5A2	M5A2TC	M5A2TC	M5A2TC	TCGT 110204
	46	66.6	48.9	69.5	-1.9	TCGT 110204
BCA 62	M7A2	M7A2	M7A2TC	M7A2TC	M7A2TC	TCGT 16T304
	62	87.4	62	87.4	0	TCGT 16T304
BCA 83	M7A2	M7A2	M7A2TC	M7A2TC	M7A2TC	TCGT 16T304
	83	108.4	83	108.4	0	TCGT 16T304
BCA 98	M10A2	M10A2	M10A2TC	M10A2TC	M10A2TC	TCGT 16T304
	98	142.4	98	142.4	0	TCGT 16T304
BCA 132	M10A2	M10A2	M10A2TC	M10A2TC	M10A2TC	TCGT 16T304
	132	176.4	132	176.4	0	TCGT 16T304
BCA 166	M10A2	M10A2	M10A2TC	M10A2TC	M10A2TC	TCGT 16T304
	166	210.4	166	210.4	0	TCGT 16T304
BCA 200	M10A2	M10A2	M10A2TC	M10A2TC	M10A2TC	TCGT 16T304
	200	244.4	200	244.4	0	TCGT 16T304

MICRO UNIT SPARE PART



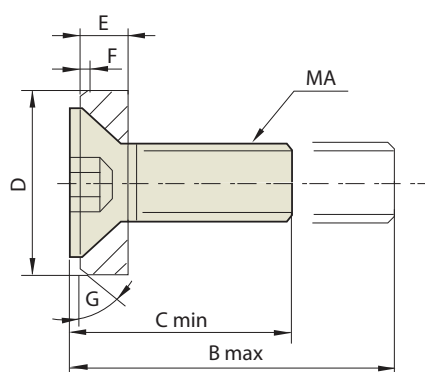
PART NAME ORDER NO.			M1A-B	M2A-B	M3A-B	M5A-B	M5A-B	M7A-B	M10A-B
1	DIAL NUT	Slant Angle	1-40	2-40	3-40	5-40	5-40	7-80	10-80
	DIAL NUT	Right Angle	1-50	2-50	3-50	5-50	5-50	7-100	10-100
2	CARTRIDGE BOLT	M-A	F-M3-0.5-8	F-M3-0.5-12	F-M4-0.7-15	F-M6-1.0-25	F-M6-1.0-25	F-M10-1.5-30	M12-1,75-50
	CARTRIDGE BOLT	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



GRADUATED DIAL UNIT

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



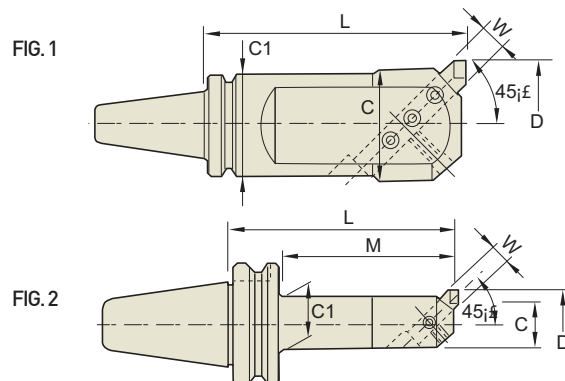
LOCK SCREW AND WASHER

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°)

VIERKANT - BOHRSTANGE
BARRE D'ALÉSAGE CARRE
BARRA PORTA TESTINE
BARRAS DE MANDRINAR CUADRADAS


JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

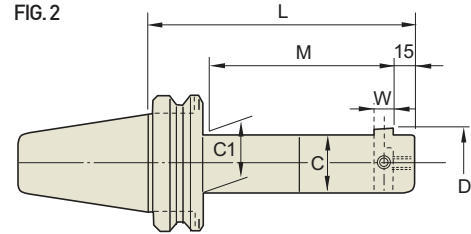
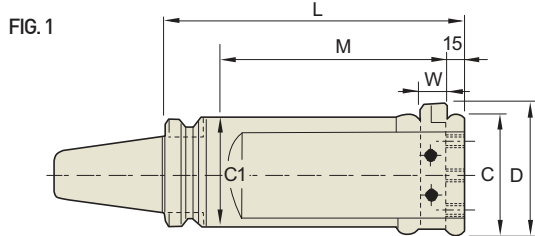
JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	MODEL No.	D		L	C	C1	W	M	Weight (kg)	Stock
		Min	Max							
30	BT30-BSA25-120	25	38	120	20	22	8	90	1.0	
	BT30-BSA30-135	30	42	135	24	26	8	105	1.1	
	BT30-BSA38-150	38	52	150	30	33	10	120	1.4	
	BT30-BSA42-150	42	56	150	34	37	10	125	1.6	
	BT30-BSA50-150	50	65	150	40	44	13	125	1.8	
40	BT40-BSA25-135	25	38	135	20	22	8	108	1.3	
	BT40-BSA30-165	30	42	165	24	26	8	138	1.5	
	BT40-BSA38-180	38	52	180	30	33	10	153	1.8	
	BT40-BSA42-210	42	56	210	34	37	10	183	2.3	
	BT40-BSA50-180	50	65	180	40	44	13	153	2.4	
	BT40-BSA50-225	50	65	225	40	44	13	198	2.9	
	BT40-BSA62-180	62	90	180	50	54	16	153	3.2	
	BT40-BSA62-240	62	90	240	50	54	16	213	4.2	
	BT40-BSA72-180	72	110	180	60	63	19	153	4.4	
	BT40-BSA72-240	72	110	240	60	63	19	213	5.7	
	BT40-BSA90-180	90	125	180	75	63	19	153	5.4	
50	BT50-BSA25-135	25	38	135	20	22	8	95	4.4	
	BT50-BSA30-165	30	42	165	24	26	8	125	4.6	
	BT50-BSA38-180	38	52	180	30	33	10	140	4.8	
	BT50-BSA42-210	42	56	210	34	37	10	170	5.0	
	BT50-BSA50-180	50	65	180	40	44	13	140	5.4	
	BT50-BSA50-240	50	65	240	40	44	13	200	5.7	
	BT50-BSA62-195	62	90	195	50	54	16	155	6.1	
	BT50-BSA62-270	62	90	270	50	54	16	230	7.5	
	BT50-BSA72-195	72	110	195	60	66	19	155	6.9	
	BT50-BSA72-285	72	110	285	60	66	19	245	9.3	
	BT50-BSA90-210	90	125	210	75	80	19	170	9.2	
	BT50-BSA90-300	90	125	300	75	80	19	260	12.3	
	BT50-BSA105-195	105	160	195	90	90	25	157	10.5	
	BT50-BSA105-285	105	160	285	90	90	25	247	14.8	

SQUARE BORING BAR (90°)

VIERKANT - BOHRSTANGE
 BARRE D'ALÉSAGE CARRE
 BARRA PORTA TESTINE
 BARRAS DE MANDRINAR CUADRADAS



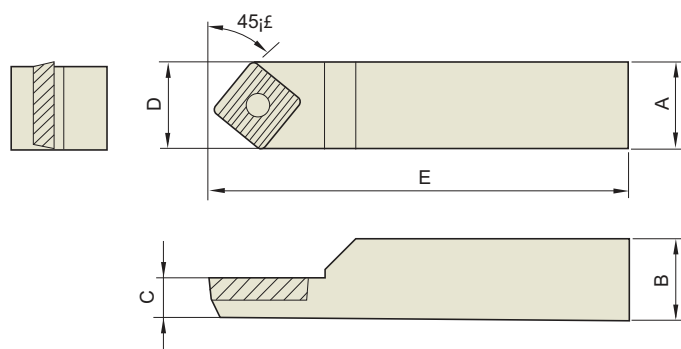
JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System
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JIS B6339/MAS 403-BT

Unit : mm

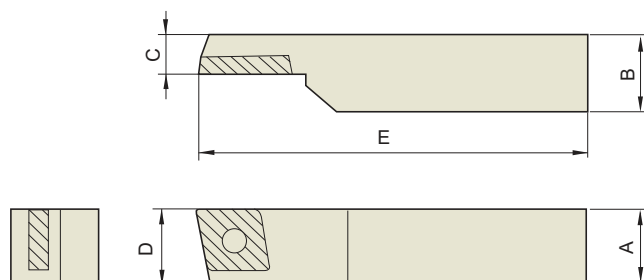
TAPER No.	MODEL No.	D		L	C	C1	W	M	Weight (kg)	Stock
		Min	Max							
30	BT30-BSB25-120	25	50	120	20	22	8	90	1.1	
	BT30-BSB38-150	38	70	150	30	33	10	120	1.5	
	BT30-BSB50-150	50	90	150	40	44	13	125	2.2	
40	BT40-BSB25-135	25	50	135	20	22	8	108	1.3	
	BT40-BSB38-180	38	70	180	30	33	10	153	1.9	
	BT40-BSB50-180	50	90	180	40	44	13	153	2.6	
	BT40-BSB50-225	50	90	225	40	44	13	198	3.1	
	BT40-BSB62-180	62	115	180	50	56	16	153	3.4	
	BT40-BSB62-225	62	115	225	50	56	16	198	4.1	
	BT40-BSB72-180	72	135	180	60	66	19	153	4.7	
	BT40-BSB72-225	72	135	225	60	66	19	198	5.6	
	BT40-BSB90-180	90	150	180	75	80	19	153	5.7	
	BT40-BSB90-225	90	150	225	75	80	19	198	6.6	
50	BT50-BSB25-135	25	50	135	20	22	8	95	4.1	
	BT50-BSB38-180	38	70	180	30	33	10	140	4.8	
	BT50-BSB50-180	50	90	180	40	44	13	140	5.5	
	BT50-BSB50-240	50	50	240	40	44	13	200	5.7	
	BT50-BSB62-195	62	115	195	50	56	16	155	6.4	
	BT50-BSB62-270	62	115	270	50	56	16	230	7.9	
	BT50-BSB72-195	72	135	195	60	66	19	155	7.3	
	BT50-BSB72-285	72	135	285	60	66	19	245	9.6	
	BT50-BSB90-210	90	150	210	75	80	19	170	9.6	
	BT50-BSB90-300	90	150	300	75	80	19	260	12.6	
	BT50-BSB105-195	105	190	195	90	-	25	155	11.1	
	BT50-BSB105-285	105	190	285	90	94	25	245	15.4	

SQUARE BITE



Unit : mm

classification Size	A	B	C	D	E	SCREW	WRENCH	INSERT
SBC08-45	08	08	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

classification Size	A	B	C	D	E	SCREW	WRENCH	INSERT
SBC08-90	08	08	6.3	8.4	70	SSB-2506	T7	CCMT0602
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



ANGLE HEAD

WINKELKÖPFE

TÊTES À RENVOI D'ANGLE

TESTE ANGOLARI

CABEZALES ANGULARES

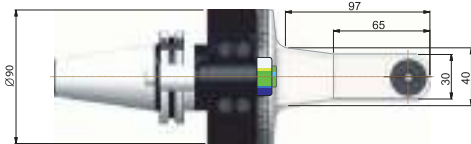
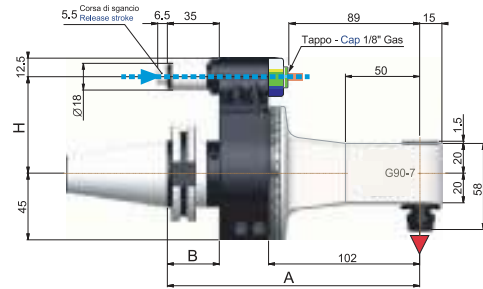
JIS B6339/MAS 403-BT

INTEGRAL TYPE

MODULAR TYPE

RIGHT ANGLE HEAD (INTEGRAL TYPE)

INTEGRAL CASE HARDENED GROUND SHANK AND SHAFT

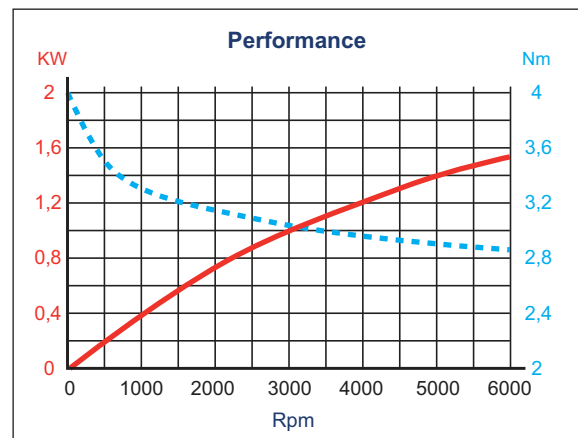


JIS B6339/MAS 403-BT

JIS B6339/MAS 403-B1										Unit : mm
TAPER	MODEL No.	L	D	A	L1	RATIO (IN : OUT)	MAX. RPM	MAX. TORQUE (Nm)	COLLET	Weight (kg)
30	BT30-AGH/ER11-170	170	30	65	15	1:1	6,000	5	ER11	4
	BT30-AGH/ER16-150	150	40	65	20	1:1	6,000	7	ER16	4.3
40	BT40-AGH/ER11-170	170	30	65	15	1:1	6,000	20	ER11	4
	BT40-AGH/ER16-150	150	40	65	20	1:1	6,000	5	ER16	4.3
	BT40-AGH/ER25-150	150	58	65	29	1:1	4,000	7	ER25	5.4
50	BT50-AGH/ER11-170	170	30	80	15	1:1	6,000	20	ER11	6
	BT50-AGH/ER16-150	150	40	80	20	1:1	6,000	40	ER16	6.3
	BT50-AGH/ER25-150	150	58	80	29	1:1	4,000		ER25	7
	BT50-AGH/ER32-160	160	75	80	37.5	1:1	4,000		ER32	11

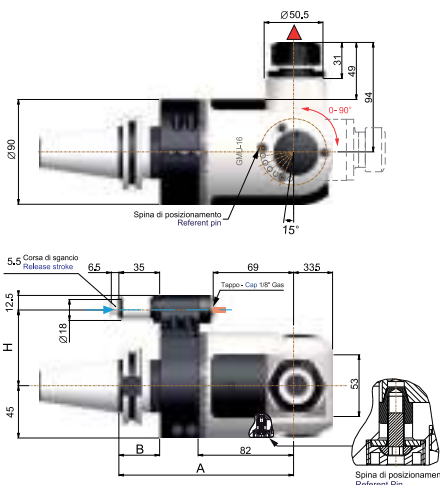
► Feature

1. Free to adjust positioning by 360 degrees in radious angle.
2. Junction area of Stopper Part is a Taper shape.
3. Rotation direction of main axis is same as that of cutting tool.
(Rotation direction may not be same as machine spindle.)
4. Internal coolant through by rotating distributor : 10 bar
5. Standard Equipment includes following:
 - Internal coolant from positioning pin (10bar)
 - Internal air pressure
 - Special bag
 - Retaining block
 - ER nut
 - Wrenches
 - Grease tube
 - Instruction book



UNIVERSAL ANGLE HEAD (INTEGRAL TYPE)

INTEGRAL CASE HARDENED GROUND SHANK AND SHAFT



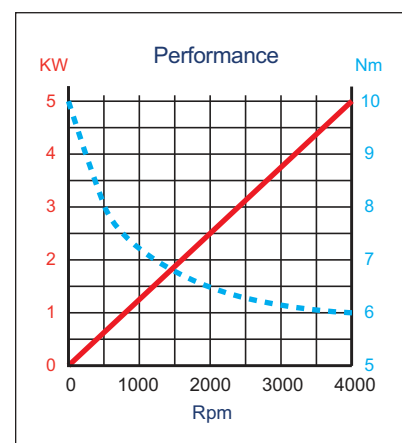
JIS B6339/MAS 403-BT

Unit : mm

TAPER	MODEL No.	L	D	A	L1	RATIO (IN : OUT)	MAX. RPM	MAX. TORQUE (Nm)	COLLET	Weight (kg)
30	BT30-AGHU/ER20-130	130	43	80	27.5	1:1	4,000	6	ER20	4.2
40	BT40-AGHU/ER20-130	130	43	80	27.5	1:1	4,000	6	ER20	4.5
	BT40-AGHU/ER25-150	150	52.5	80	33.5	1:1	4,000	18	ER25	6.8
50	BT50-AGHU/ER20-130	130	43	110	27.5	1:1	4,000	32	ER20	9.5
	BT50-AGHU/ER25-150	150	52.5	110	33.5	1:1	4,000		ER25	11
	BT50-AGHU/ER32-160	160	64.5	110	41	1:1	4,000		ER32	13

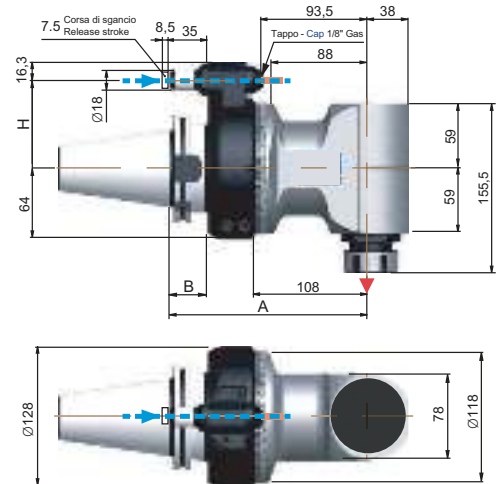
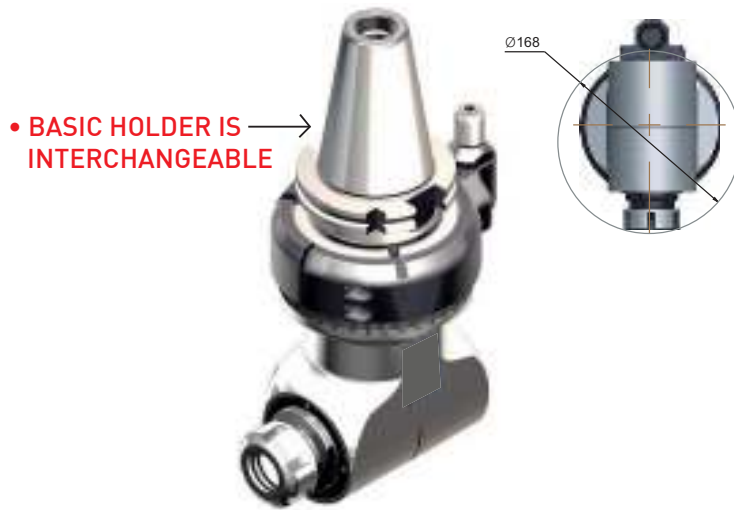
► Feature

1. Free to adjust positioning by 90 degrees in axial angle and 360 degrees in radius angle.
2. Junction area of Stopper Part is a Taper shape. (Step : 15 degrees)
3. Rotation direction of main axis is same as that of cutting tool.
(Rotation direction may not be same as machine spindle.)
4. Internal coolant through by rotating distributor : 10 bar
5. Standard equipment includes items of page 240.



RIGHT ANGLE HEAD (MODULAR TYPE)

CASE HARDENED GROUND SHANK (INTERCHANGEABLE) AND SHAFT

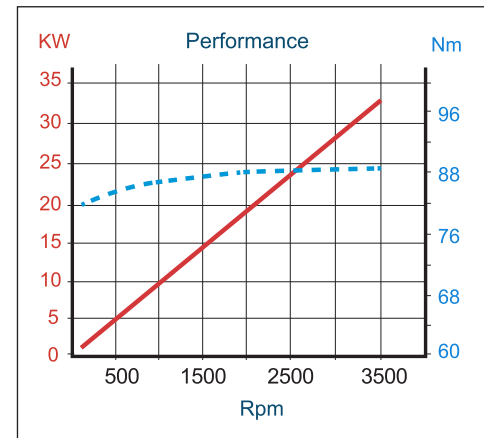


TAPER	MODEL No.	NAX. RPM	MAX. TORQUE (Nm)	COLLET	Weight (kg)
All BT, SK and HSK shanks available	F90/ER16	10,000	11	ER16	5.5
	F90/ER25	5,000	46	ER25	11
	F90/ER32	3,500	85	ER32	13.2

► For details of product spec., please discuss separately .

► Feature

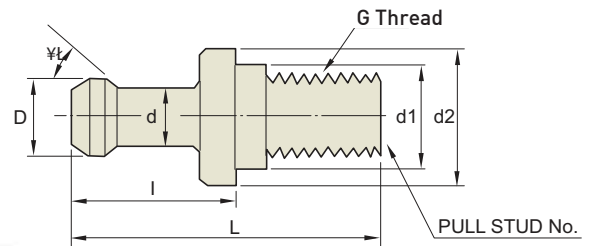
- Modular structure**
 - Different shank base holders could be interchangeable for one angle head.
 - Different angle heads could be interchangeable for one base holder.
- Internal coolant through by rotating distributor : 10 bar
- Standard equipment includes items of page 240.



PULL STUD BOLT & PULL STUD BOLT SPANNER

ANZUGBOLZEN
BOULONS DE SERRAGE
TIRANTI PER MANDRINI UNIVERSALI
TIRANTES PARA PORTAHERRAMIENTAS

PULL STUD BOLT



Unit : mm

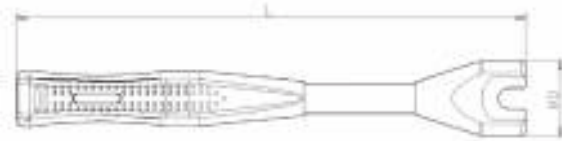
MODEL No.	D	d2	d1	d	L	l	G	Θ	TYPE
PS-1	15	23	17	10	60	35	M16	45°	BT40- I standard type
PS-2	15	23	17	10	60	35	M16	60°	BT40- II standard type
PS-5	23	38	25	17	85	45	M24	45°	BT50- I standard type
PS-6	23	38	25	17	85	45	M24	60°	BT50- II standard type
PS-16	11	16.5	12.5	7	43	23	M12	45°	BT30- I standard type
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 MASAK
PS-G51	18.8	22	17	12.45	44.1	19.1	M16	45°	For BT40 MASAK
PS-S2	25	39	25	18	95	55	M24	60°	For SHIN NIPPON KOKI
PS-F1	23	39	25	18	104	64	M24	45°	For MITSUBISHI
PS-B1	22	38	25	16	112	72	M24	60°	For OKUMA
PSS-1	19	23	17	14	54	26	M16	75°	For SK40
PSS-5	28	36	25	21	74	34	M24	75°	For SK50

► Stock Control Item

► Upon requests, other pull stud bolts with special dimensions could be produced and supplied.

► Through hole type ("H" type) is available upon request.

PULL STUD BOLT SPANNER



Unit : mm

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

PULL STUD BOLT

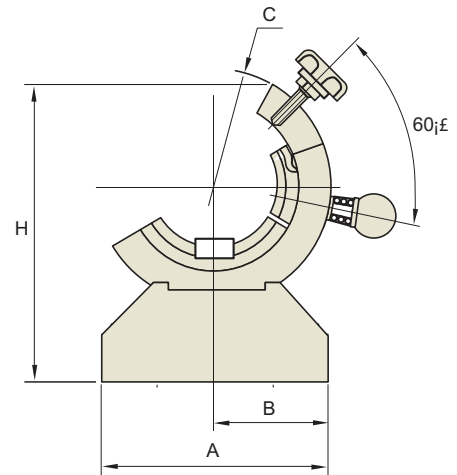
ANZUGBOLZEN
BOULONS DE SERRAGE
TIRANTI PER MANDRINI UNIVERSALI
TIRANTES PARA PORTAHERRAMIENTAS

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	ACE-TC400	BT30	PS-16	SEMC	Any Mill LCV30A/B	BT30	PS-17
	ACE-TC320D	BT30	PS-16		Any Mill LCV55S	BT50	PS-6
	Mynx NM410	BT40	PS-1		Any Mill LCV650S	BT50	PS-5
	Mynx 410	BT40	PS-5		Any Mill ICV66	BT50	PS-5
	Mynx 500	BT50	PS-5		Any Mill ICV80	BT50	PS-5
	Mynx 650	BT50	PS-5		DMC-3000	BT50	PS-0
	Mynx 750	BT50	PS-1		PCH40	BT40	PS-1
	ACE-VM5410/510	BT40	PS-1		PCH50	BT50	PS-5
	ACE-VM710	BT50	PS-5	HWACHEON	SIRIUS-1	BT30	PS-16
	ACE-VM900/950	BT50	PS-1		SIRIUS-550	BT40	PS-1
	ACE-V430	BT40	PS-1		SIRIUS-UL/ULG	BT40	PS-1
	ACE-VC500	BT40	PS-1		SIRIUS-7040	BT50	PS-0
	ACE-VMD450	BT40	PS-1		SIRIUS-650/650N	BT50	PS-0
	ACE-VMD600	BT40	PS-1		SIRIUS-850/850N	BT50	PS-0
	NR 510M	BT50	PS-5		SIRIUS-700	BT50	PS-0
	NR 700	BT50	PS-5		SIRIUS-12580	BT50	PS-0
	VM560/50	BT50	PS-5	S&T	TCH-45	BT40	PS-1
	VM 70(H)	BT50	PS-5		TCH-50	BT50	PS-6
	VM 84	BT50	PS-5		TCH-80	BT50	PS-6
	VM 925L	BT50	PS-5		TCH-80TS	BT50	PS-6
	NX 5000	BT50	PS-5		FX-500H	BT40	PS-2
	ACE-HC400/500	BT40	PS-1		TNV-40A	BT40	PS-1
	ACE-HM500/630/800	BT50	PS-5		TNV-80A	BT40	PS-1
	ACE-H100	BT50	PS-5		TNV-650V	BT50	PS-6
	ACE-HP4000/5100	BT40	PS-1	HASS	TM-1/2	BT40	PS-1
	ACE-HP400	BT40	PS-1		VF-4SS/3SS/2SS	BT40	PS-1
	ACE-HP500/630	BT50	PS-5		VF-2TR	BT40	PS-1
	VX380T/420T	BT30	PS-16		VF-5/50TR	BT50	PS-5
	MX380/420	BT30	PS-16		VF-9/50	BT50	PS-5
WIA	VX400/460	BT40	PS-1	MAZAK	VF-8/50	BT50	PS-5
	KV45/45P	BT40	PS-1			BT40	PS-G51
	VX500	BT40	PS-1	MORI SEKI		BT50	PS-G41
	VX510M/660M	BT40	PS-1			BT40	PS-08
	VX700/40	BT40	PS-1			BT50	PS-51
	VX700/50	BT50	PS-5				
	VX750	BT50	PS-5				
	VX500/50	BT50	PS-6				
	KV60N/90	BT50	PS-5				

TOOL CLAMP

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	3.0
BT40	TCP40	160	80	138	180	7.6
BT50	TCP50	180	90	165	205	8.6
SK30	TSK30	125	65	108	135	3.0
SK40	TSK40	160	80	138	180	7.6
SK50	TSK50	180	90	165	205	8.6
HSK32/40/50	THSK32/40/50	125	65	108	135	
HSK63	THSK63	160	80	138	180	
HSK100	THSK100	180	90	165	205	

► Tool clamp for CAT taper could be supplied.

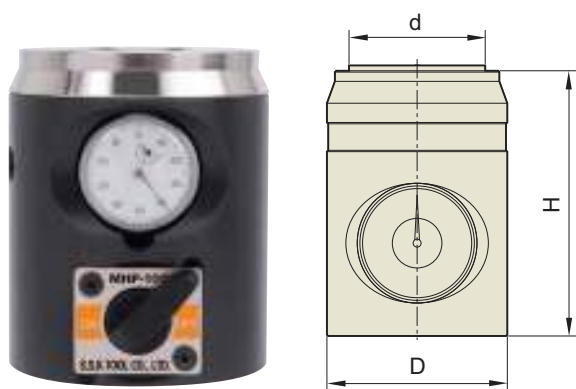
► Stock Control Item

► Features

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

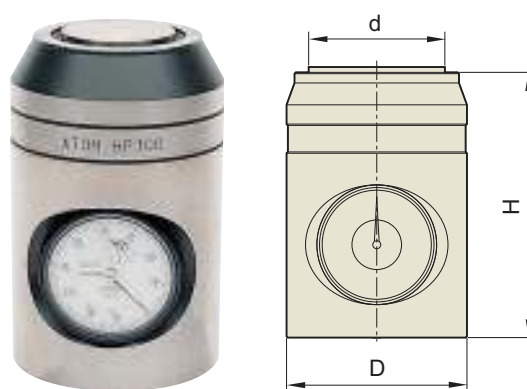
HEIGHT PRESETTER

· MAGNETIC HEIGHT PESETTER



- Both vertical and horizontal type usable
- Slim design

· HEIGHT PRESETTER

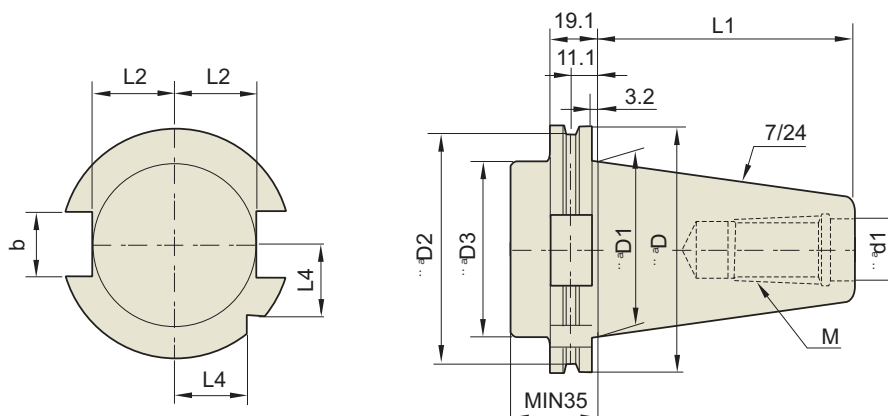


- Exclusively for vertical

Unit : mm

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

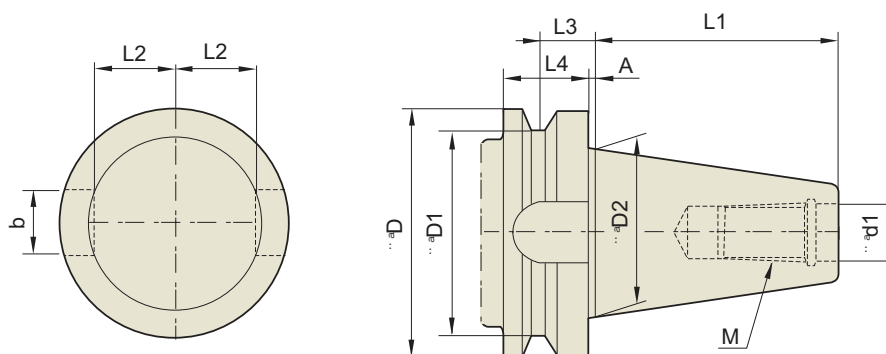
DIN 69871 - SK SHANK



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

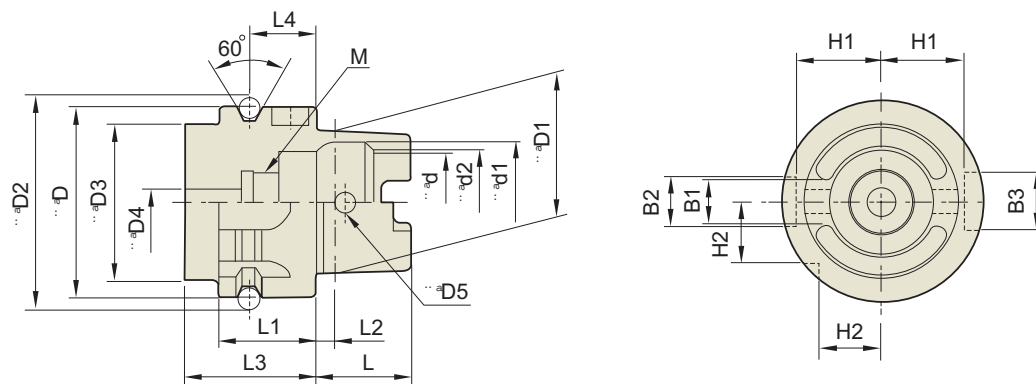
JIS B6339/MAS 403 - BT SHANK



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

DIN 69893/ISO12164-1-HSK SHANK



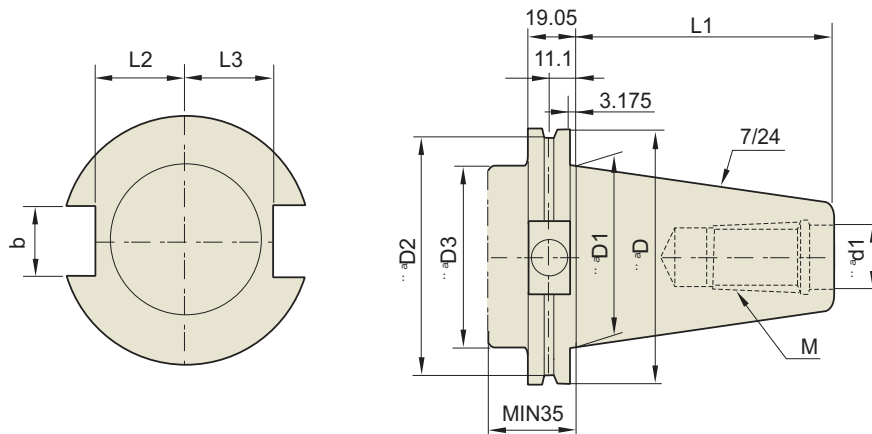
Unit : mm

TAPER No.	$\varnothing D$	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	$\varnothing D4$	$\varnothing D5$	L	L1	L2	L3	L4
HSK 32A	32	24	37.00	26	4.2	4.0	16	20	3.2	35	16
HSK 40A	40	30	45.00	34	5.0	4.6	20	20	4.0	35	16
HSK 50A	50	38	59.30	42	6.8	6.0	25	26	5.0	42	18
HSK 63A	63	48	72.30	53	8.4	7.5	32	26	6.3	42	18
HSK100A	100	75	109.75	85	12.0	12.0	50	29	10.0	45	20

Unit : mm

TAPER No.	$\varnothing d$	$\varnothing d1$	$\varnothing d2$	B1	B2	B3	H1	H2	M
HSK 32A	17	20.5	19	7.05	9	7	13.0	9.5	M10 × 1.0
HSK 40A	21	25.5	23	8.05	11	9	17.0	12.0	M12 × 1.0
HSK 50A	26	32.0	29	10.54	14	12	21.0	15.5	M16 × 1.0
HSK 63A	34	40.0	37	12.54	18	16	26.5	20.0	M18 × 1.0
HSK100A	53	63.0	58	20.02	22	20	44.0	31.5	M24 × 1.5

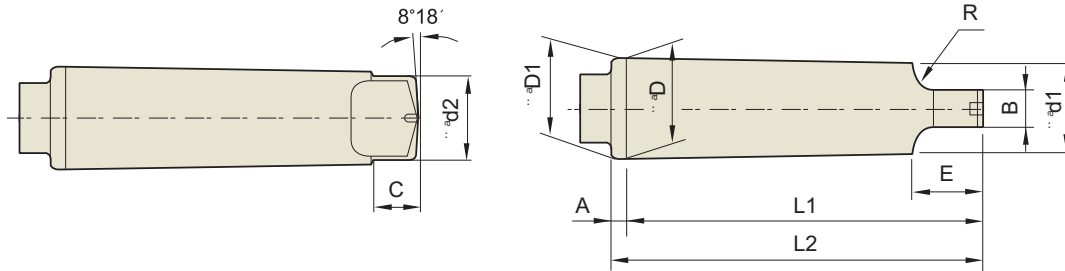
ANSI B5.50 - CAT SHANK



Unit : mm

TAPER No.	ØD	ØD1	ØD2	ØD3	Ød1	L1	L2	L3	b	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	22.60	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

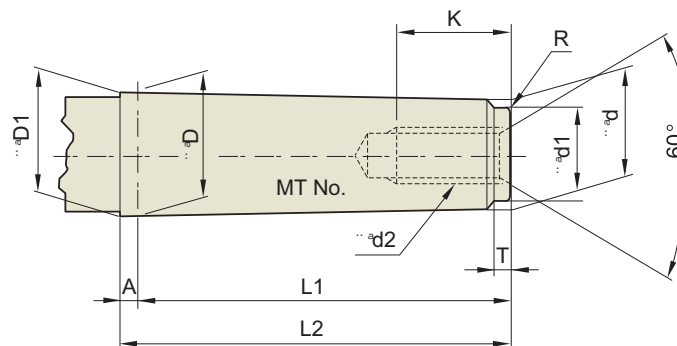
DIN 228(MORSE TAPER) - Tang type (MTA)



Unit : mm

TAPER	Taper	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

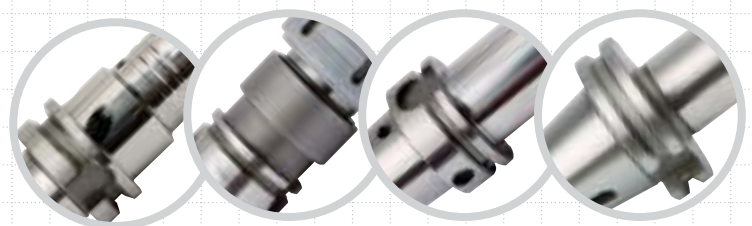
DIN 228(MORSE TAPER) - Screw type (MTB)



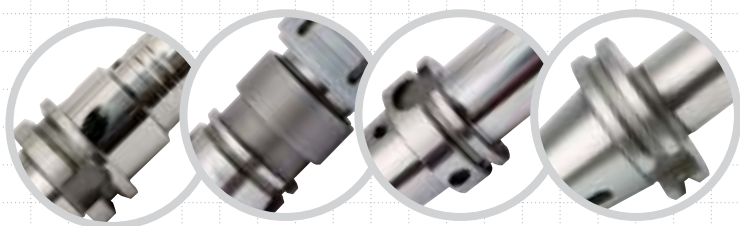
Unit : mm

TAPER	Taper	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

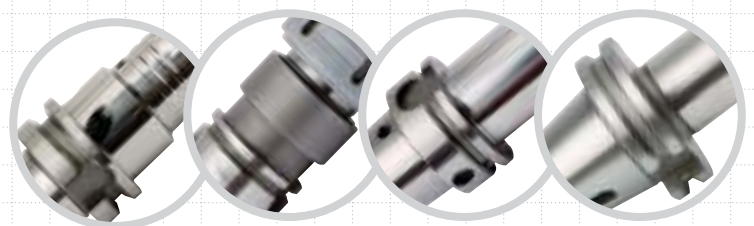
MEMO



MEMO



MEMO



MEMO

