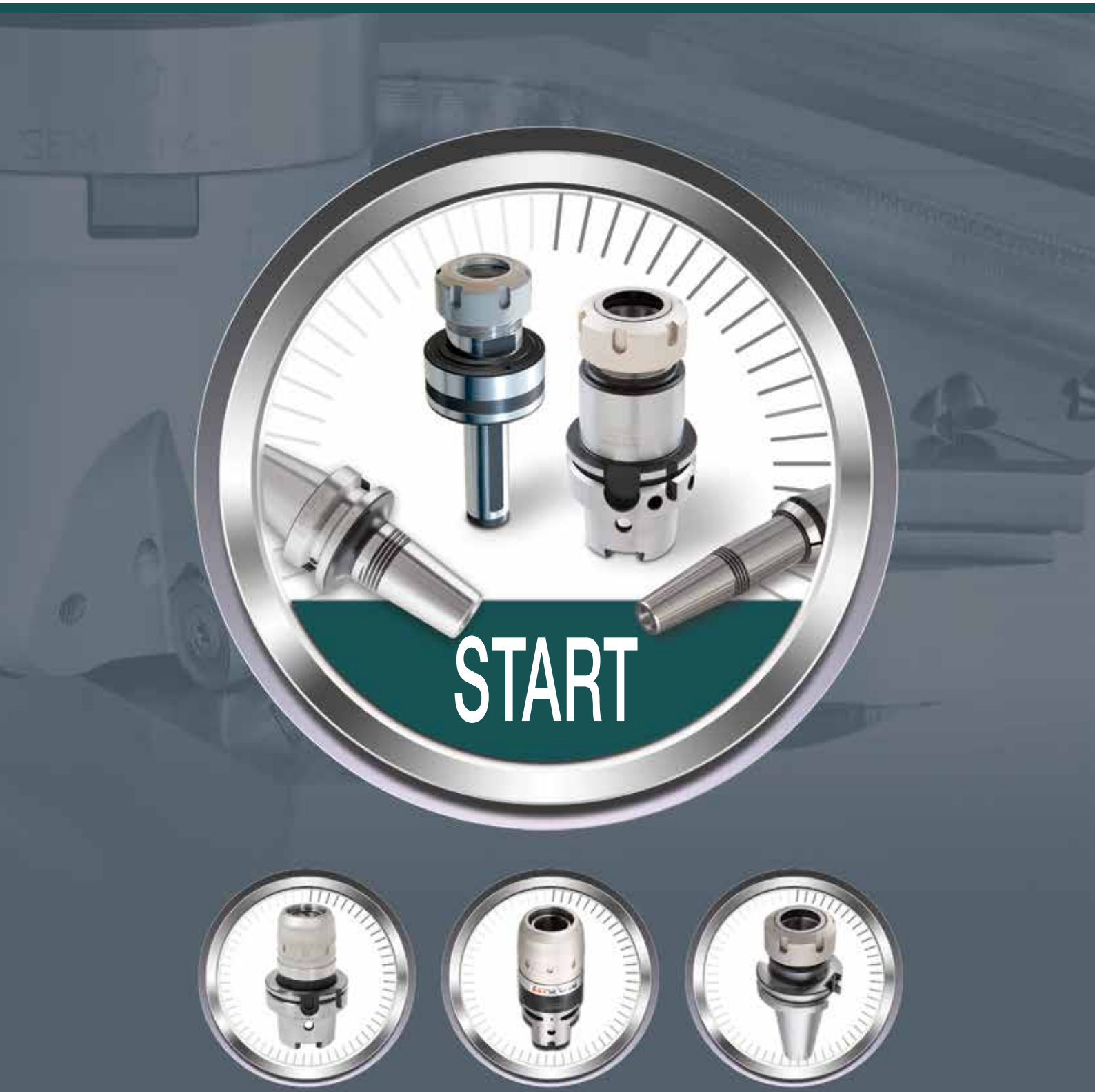
Complete Machining Solutions
TOOLING SYSTEMS



Member IMC Group

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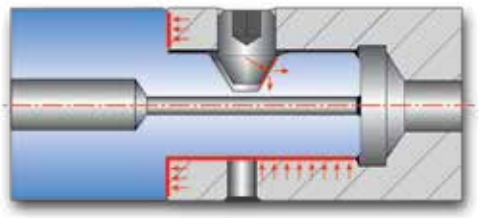
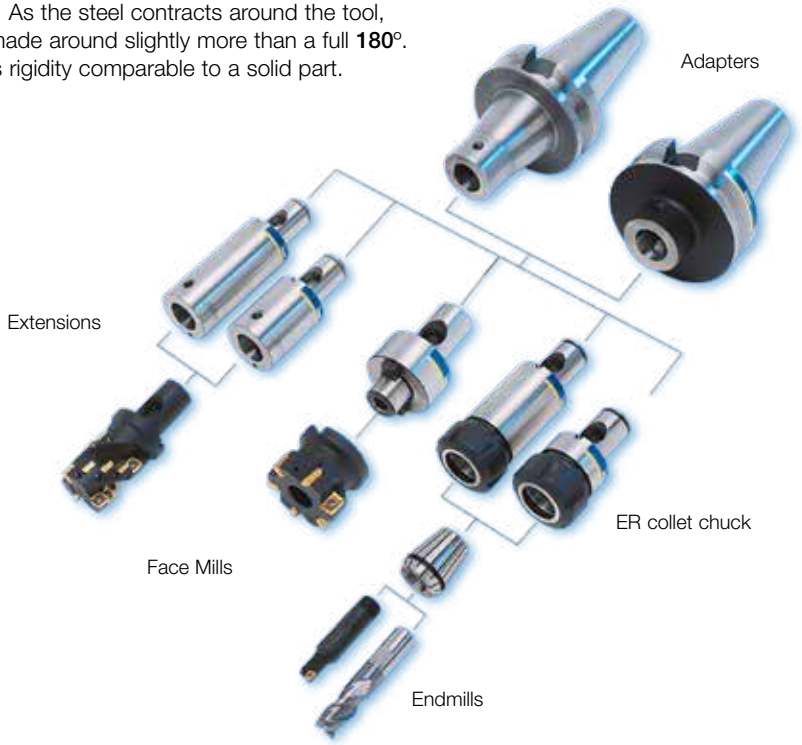


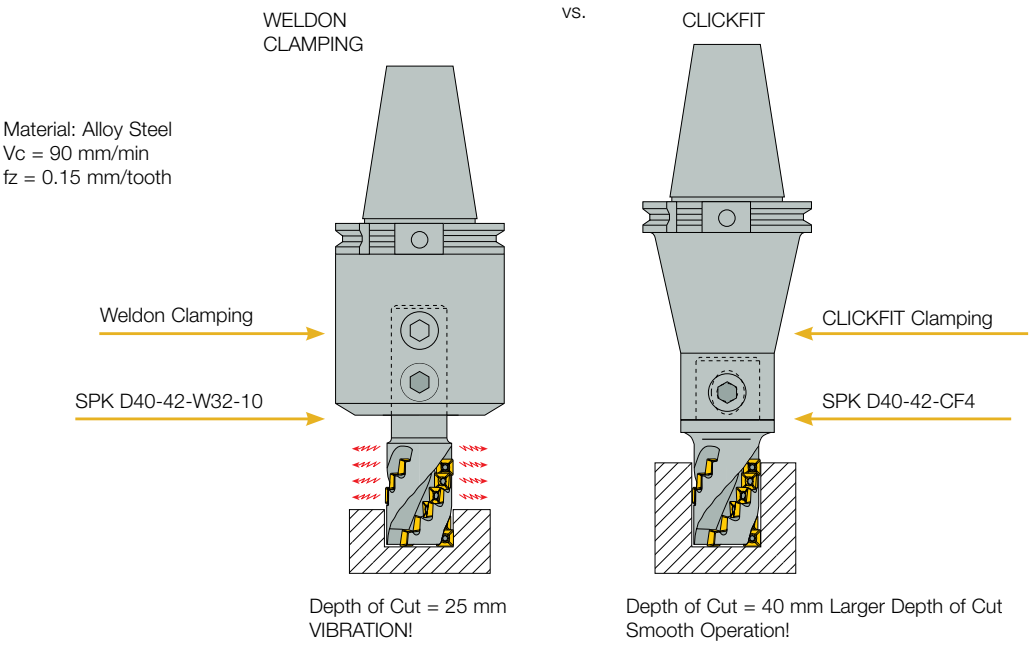
The CLICKFIT Concept

A clamping screw pushes the shank of the tool through a narrowed opening, forcing elastic deformation of the steel holder. As the steel contracts around the tool, contact is made around slightly more than a full **180**°. The result is rigidity comparable to a solid part.



Modular Adaptation System

CLICKFIT Clamping Enhances the Tool's Performance



Balancing Definitions

Balancing Elements

Introduction

Balancing is the process of equalizing the mass distribution of a body so it rotates in its bearing without unbalanced centrifugal forces.

Balancing causes reduced vibration, lower spindle strain and improved machining qualities, and allows for higher cutting parameters.

The measuring equipment available today enables unbalance to be reduced to low limits. However, it would be uneconomical to exaggerate the quality requirements. It has therefore become necessary to determine to what extent the unbalance should be reduced and where the optimum economic and technical compromise on balance quality requirements would be struck.

Definition

G	-	Balance quality (mm/s)
e	-	Specific unbalance (gxmm/Kg)
Ω	-	Speed (rad/s)
N	-	Speed (rpm)
M	-	Mass of the body (kg)
m	-	Mass of the unbalance (g)
r	-	Radius of the unbalance (mm)
U	-	Residual unbalance (gxmm)

$$e = \frac{U}{M} => U = M \times e$$

$$\Omega = \frac{2\pi N}{60} = \frac{\pi N}{30}$$

Operation

Residual unbalance equals the tool's mass (**M**) times its eccentricity (e).
Eccentricity measures the extent to which the tool's weight is off-center.
It is defined as the distance from the tool's center of the rotation to its true center of mass.
If eccentricity is measured in microns and tool mass is measured in kilograms, this unit yields residual unbalance in gram-millimeters.

Any two sets of mass and eccentricity that yield the same unbalance value will have the same effect on the tools, so long as the residual unbalance is in the same plane perpendicular to the rotation axis.
U=r x m
The residual unbalance is independent of the speed. This value reflects the unbalance mass and its distance from the true center of mass.
The residual unbalance value is measured on balancing machines.

Balanceable Collet Chucks

Balancing Elements

Example 1

U=2 g x mm can be treated as an unbalance mass of m=2 g in radial distance of r=1 mm or as a mass of m=0.1 g in radial distance of r=20 mm, etc.

Example 2

The residual unbalance is independent of the speed. This value reflects the unbalance mass and its distance from the true center of mass. The residual unbalance value is measured on balancing machines.

$$U = m \times r => m = \frac{U}{r} = \frac{4}{20} = 0.2g$$

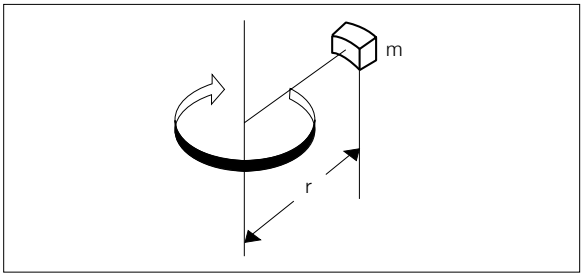
G value reflects the balancing quality of a toolholder according to its rotational speed (N)

$$G = \Omega \times e = \frac{\pi \times N}{30} \times \frac{U}{M} = \frac{U \times N \times \pi}{M \times 30}$$

$$e = \frac{G \times 30}{\pi \times N}$$

Example 3

G value reflects the balancing quality of a toolholder according to its rotational speed (**N**).



$$G = \frac{\pi}{30} \times N \times \frac{U}{M} = \frac{\pi}{30} \times 15{,}000 \times \frac{8}{2{,}000} \approx 6.3 \text{ (mm/s)}$$

$$e = \frac{U}{M} = e = \frac{8}{2} = 4 \text{ (g x mm/kg)}$$

The G value will change to **G=2.5** mm/s when using the same toolholder at a rotational speed **N=6,000** rpm and to **G=1.0** mm/s at **N=2,500** rpm.
Balance quality grades for various groups of representative rotors:

- General machine tool parts - **G6.3**
- General toolholders and machine drivers - **G2.5**
- Grinding machine drivers - **G1.0**
- Spindles of precision grinders - **G0.4**

Power Chucks

With this tool, only a small tightening torque compresses the frontal nose, providing an extremely high gripping force. It is designed for roughing and finishing applications in milling where high torque transmission, maximum accuracy, compactness and easy operation are required.

Features

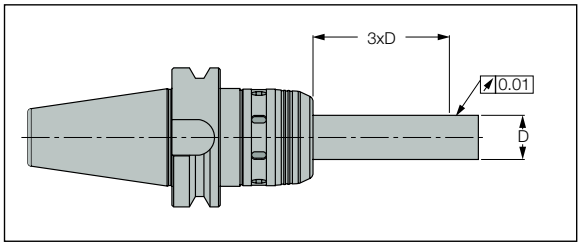
- The clamping nut is not threaded (as in **ER** collet chucks)
- Designed for direct chucking of the tool shank – no need for intermediate collet for maximum gripping force
- Sealed nut construction
- No axial drawback of the tool shank as chuck is tightened
- Thick wall construction to withstand greater side loading forces

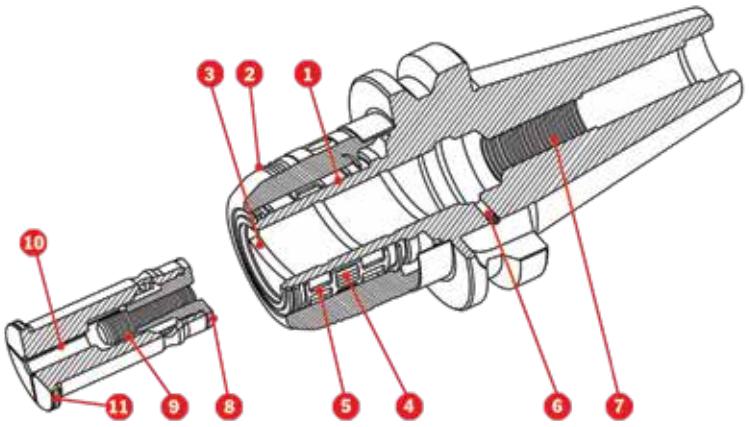
The high gripping force achieved by the **MAXIN POWER CHUCK** results from the shallow nose tapered cone (1) with helical slot (3) inside the internal chuck bore. It exerts a very high clamping force when the clamping nut (2) is rotated in the axial direction. The shallow taper of the tool nose (1) and the angled position of the needle bearing (4) that sit in the cage create the axial movement of the clamping nut (2).

This unique clamping mechanism eliminates axial movement of the shank while clamping, simplifying the preset process.

Runout Accuracy

Maximum runout at **3XD** overhang is less 0.01 mm





1. Shallow tapered front end cone
2. Clamping nut
3. Helical slot
4. Needle bearing cage
5. Front seal
6. Ventilation bore (thread **M4**)
7. Preset screw thread
8. Cap screw (for the preset screw)
9. Preset screw
10. Ground bore
11. Grip groove (for collet release)

MAXIN

Power Chucks

Assembly and Disassembly of Shank Cutter with Wrench

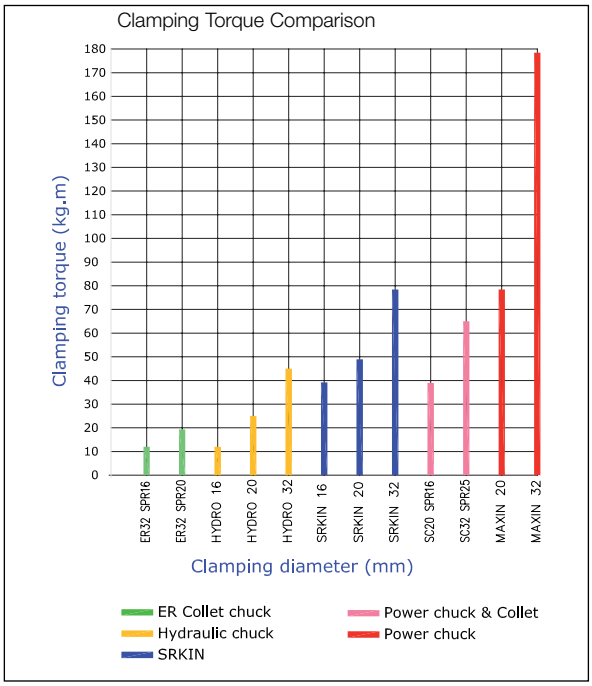
⚠ Tighten the nut with the spanner wrench until clamping is achieved.
Loosen the nut with the spanner wrench to remove the cutting tool.

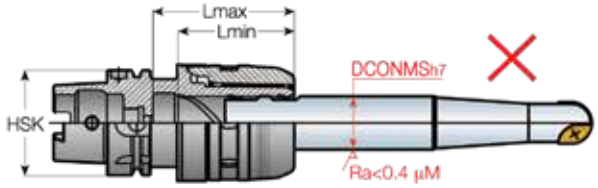
⚠ Instructions for Proper Use
To avoid damage to the **MAXIN** mechanism, never tighten the clamping nut unless there is a shank inside the bore.
After removing the cutting tool from the **MAXIN**, the clamping nut must be unscrewed one extra turn to prevent reduction of the clamping power and to ensure maximum gripping force.

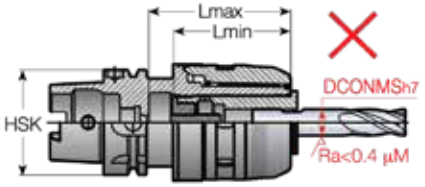
⚠ Preset Screw
In order to adjust the projection length of the cutting tool you can use a preset screw inside the **MAXIN** internal bore part #9.
This is supplied as an optional accessory.

⚠ Insertion of **SC** Collets and Shanks
The cutting tool should be inserted into the collet before inserting it into the **MAXIN** chuck.
Insert the collet into the **MAXIN** chuck until the collet reaches the front end of the chuck.
For maximum rigidity and accuracy insert the shank cutters to the full ground area of the collet.

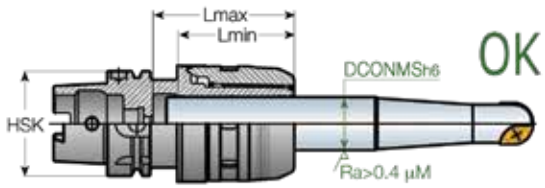
⚠ Preset Screw
In order to adjust the length of the cutting tool, use a preset screw inside the collet (optional).
When using **SC** collet inside the **MAXIN** chuck, the runout accuracy may be affected.
In case of cutting tool damage or crash during machining, the **MAXIN** chuck has to be inspected for cracks and that proper runout is maintained.

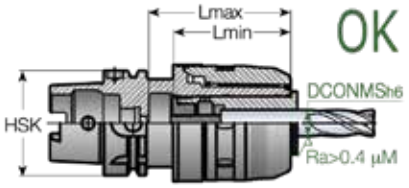






See pages **965-966**

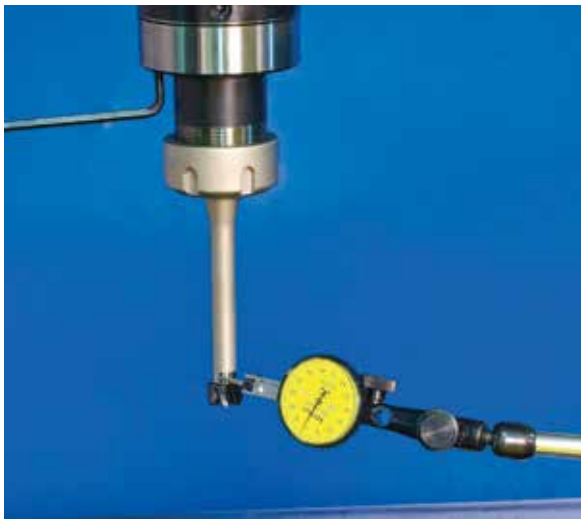


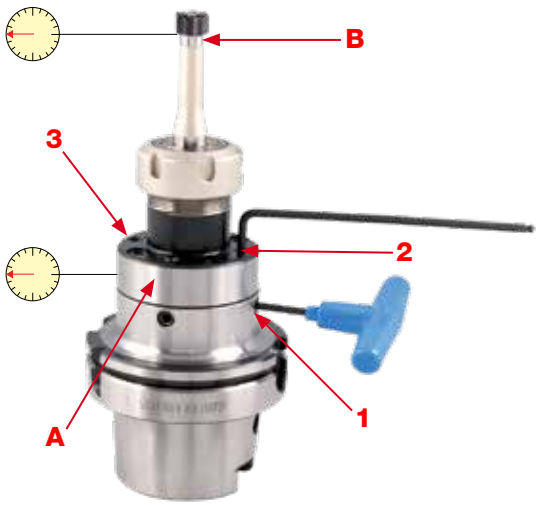


1. Do not use Weldon type shanks.
2. Insert shank at least Lmin into the chuck.
3. In order to maintain a firm grip, the shank's surface finish should have a roughness of at least **N5**.

ADJ Operating Instructions

Radial and Angular Alignment Toolholder





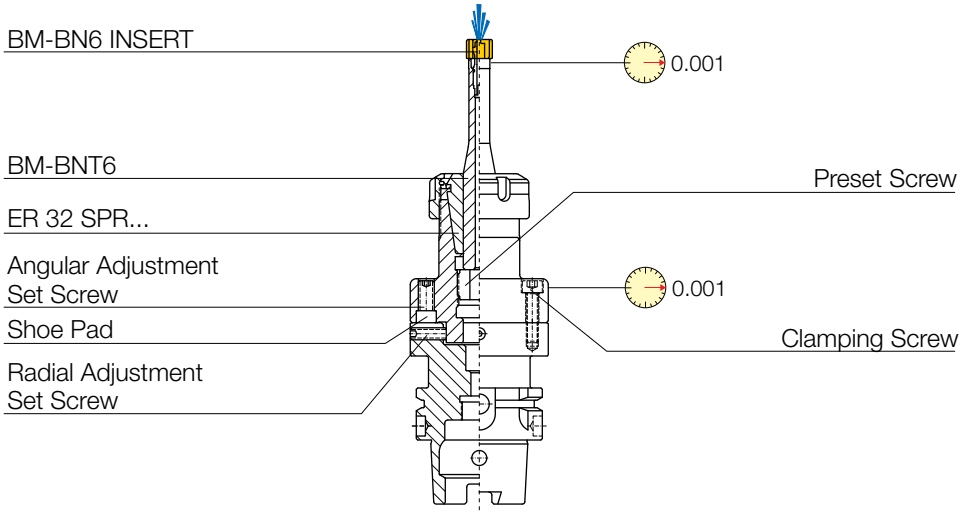
Tighten the Cutting Tool
Clamp the cutting tool into the chuck and make sure that screws no. 1 & 3 are tightened until a slight resistance is felt.

Radial Adjustment
Place the dial indicator (with a resolution of 0.001 mm) on the ground area A and adjust the runout to 0.001 mm. The adjustment should be made with the 4 screws (no. 1) located on the outer diameter of the toolholder.

Angular Adjustment
Place the dial indicator on the ground area B. Adjust the axial runout to 0.001 mm with 4 adjustment screws (no. 2) located on the face of the chuck.

Final Clamping
Slightly tighten the 4 clamping screws (no. 3) located on the face of the chuck, and then the 4 screws on the outer diameter.

Final Runout Check
After adjusting and tightening, recheck the axial and radial runout to make sure that runout of 0.001 mm is maintained. If necessary, do fine tuning.



GYRO - Radial and Angular Alignment Toolholder

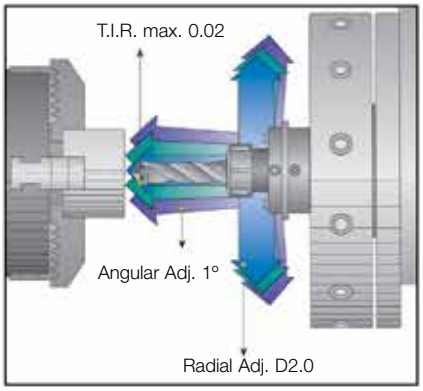
Adjustable Toolholder for Easy Adjustment of Radial and Angular Misalignment

Application

Gyro is a rugged and adjustable toolholder developed by **ISCAR/ETM** to solve drilling, tapping and reaming problems encountered on **CNC** and turret lathes.
Its unique design allows smooth and easy adjustment of radial and angular misalignment between chuck and turret.

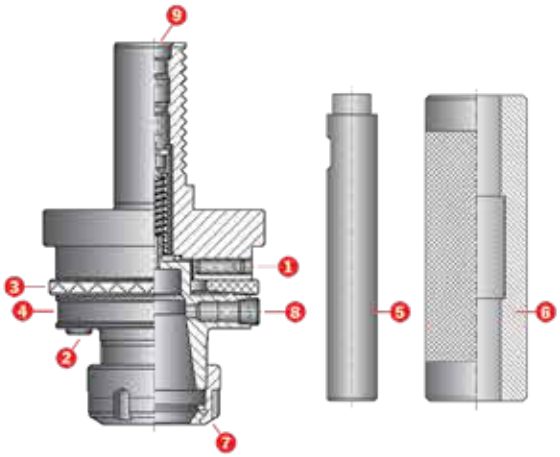
Gyro reduces total machining time by making it possible to complete machining of holes in one drilling step and to achieve tolerances as close as 0.01 mm, thereby eliminating subsequent boring or reaming operations.

- A breakthrough in drilling technology for **CNC** lathes
- Dramatic increase in tool performance at reduced cost



Features

- Enables high precision drilling to a close tolerance of h6, to be performed as a final boring operation on **CNC** lathes
- Reduces machining time by completing the bore in one drilling step, eliminating secondary turning and boring operations
- Prolongs cutting tool life tenfold and more, especially for high performance **HSS**, solid and brazed carbide drills, center drills, taps and reamers
- Dramatic increase in speed and feed by up to 300%
- Coolant supply through the shank center of the tool shoulder for oil hole cutting tools



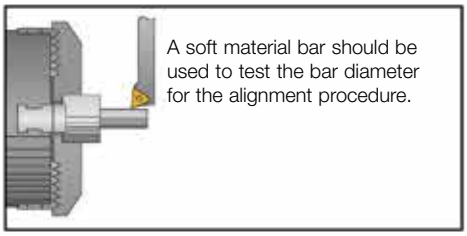
1. Radial adjustment screw
2. Clamping screw
3. Angular set ring
4. Front part
5. Alignment test bar
6. Test bushing
7. **ER** nut
8. Coolant connection

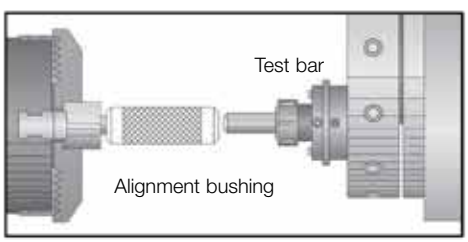
Advantages

- Easy adjustment for correcting misalignment between chuck and turret axis (drill and workpiece)
- Precise and efficient tool clamping with **ER** collets and **ER** sealed Coolit Jet collets
- Quick functional adjustment is made on machine by using **ISCAR/ETM** plug and ring gauge kit

Operation

For operation instructions see the brochure packed with the tool.



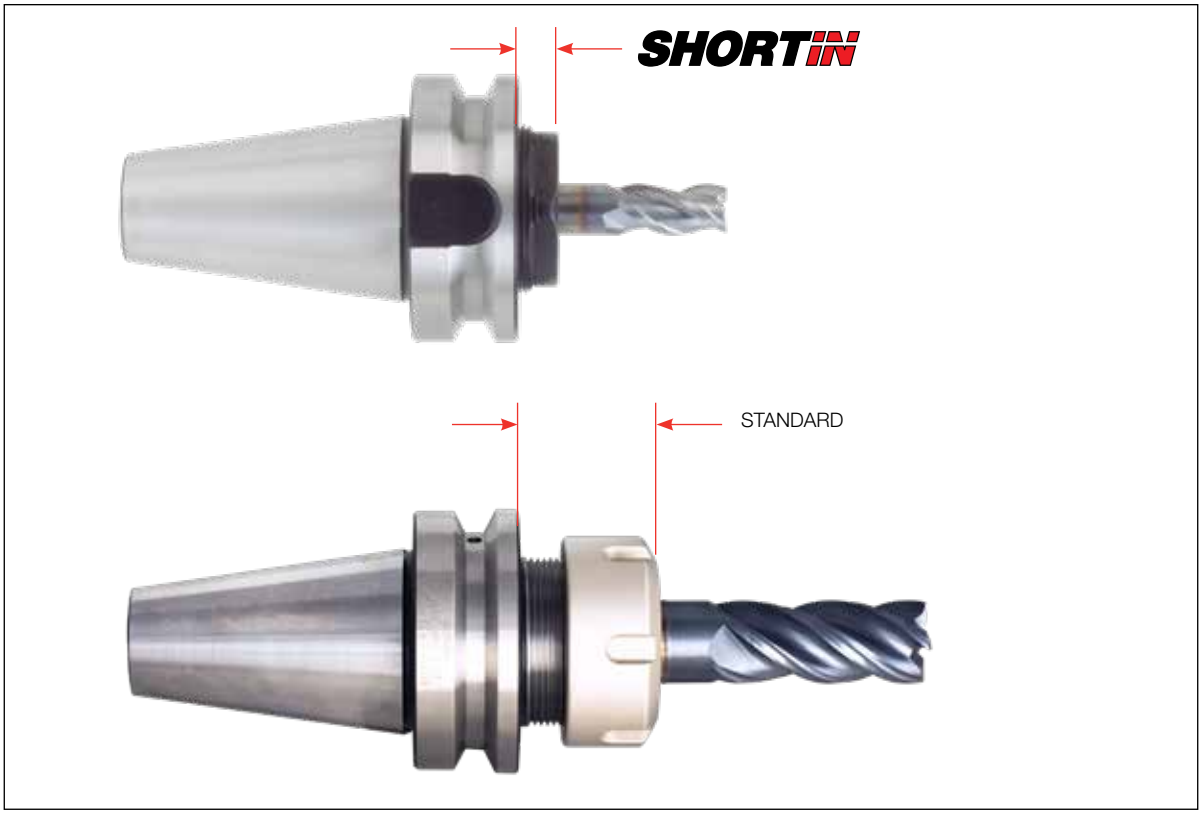


Notes

- Coolant supply should be minimum 10 bar and maximum 80 bar for small diameter oil hole drills ranging from 3-20 mm. (the normal machine pressure of 4 bar is insufficient).
- Coolant filtration is most important to eliminate chips from blocking the drill oil hole.
- To ensure maximum performance of the **GYRO**, the backlash of the turret indexing and support axis mechanism should be checked and readjusted according to the machine standard.

First time users should buy a GYRO kit which includes a test bar and a bushing for performing the alignment procedure.

Short Collet Chucks



Short Collet Chucks

BT MAS-403
page 1008

HSK DIN 69893
page 965

DIN 69871
page 941

Advantages

- Shortest overhang
- Suitable for regular and shrink collets
- High gripping force
- Reduces vibration
- Better runout and repeatability
- Balanced to **G2**.5, 20,000 rpm
- Symmetric design for high speed machining
- Cost effective

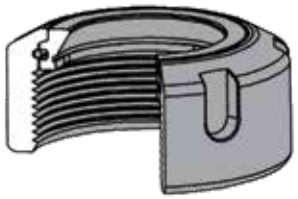
Short Collet Chuck ER

Short holder for **ER** spring and shrink collets for maximum rigidity and better cutting conditions.

ER - Collet Chuck Features

ER-TOP™ NUT

- Perfect balance and accuracy
- Exclusive anti-friction mechanism
- Powerful gripping force, 50-100% higher than conventional design
- Compact design, standard size, **DIN** 6499
- **HARD TOUCH** protective coating



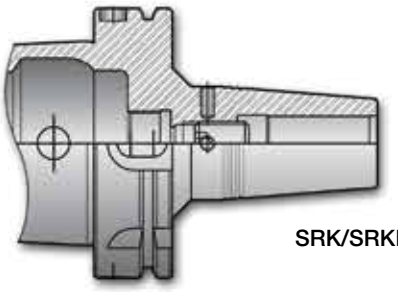
ER-COOLIT™ JET

- Ultra precision runout 0.01/ 0.005
- Worldwide patented sealing system
- Special Corrosion protection
- Super-finished execution
- Collapsibility 1 mm

ER-COLLET CHUCK

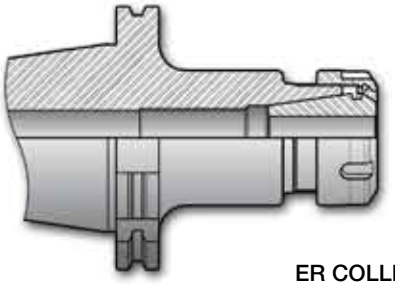
- Runout **O.D.** - **I.D.** Max. 0.003
- Two hole for symmetrical design for high spindle speed from 20,000 **RPM**
- Superior surface finish Ra 0.4
- Taper accuracy **DIN** standard 85% fitness
- Hole for **FRID** chip

Recommmended Toolholder for Different Shank Types



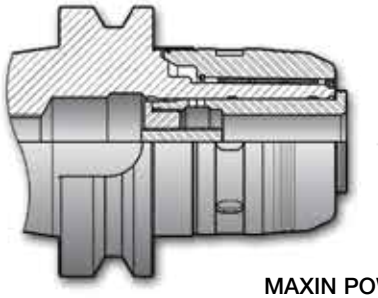
SRK/SRKIN

CYLINDRICAL SHANK



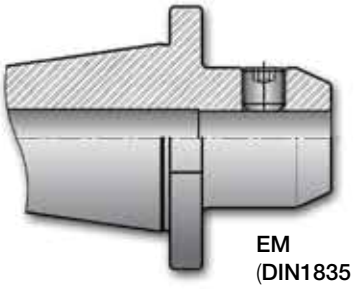
ER COLLET CHUCK
DIN 6499

CYLINDRICAL SHANK



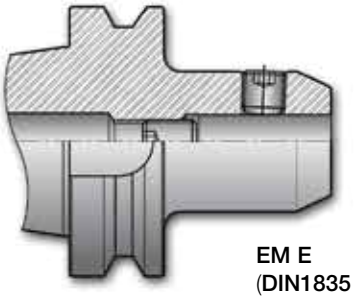
MAXIN POWER
CHUCK

CYLINDRICAL SHANK



EM
(DIN1835
FORM A/B)

WELDON SHANK



EM E
(DIN1835 FORM E)

WHISTLE
NOTCH SHANK

Hydraulic Chucks

ISCAR-ETM has expanded its toolholder clamping options by adding hydraulic chucks.
These hydraulic chucks range from 6-32 mm.
This type of chucking system is used for rotating and stationary applications.

Main Applications

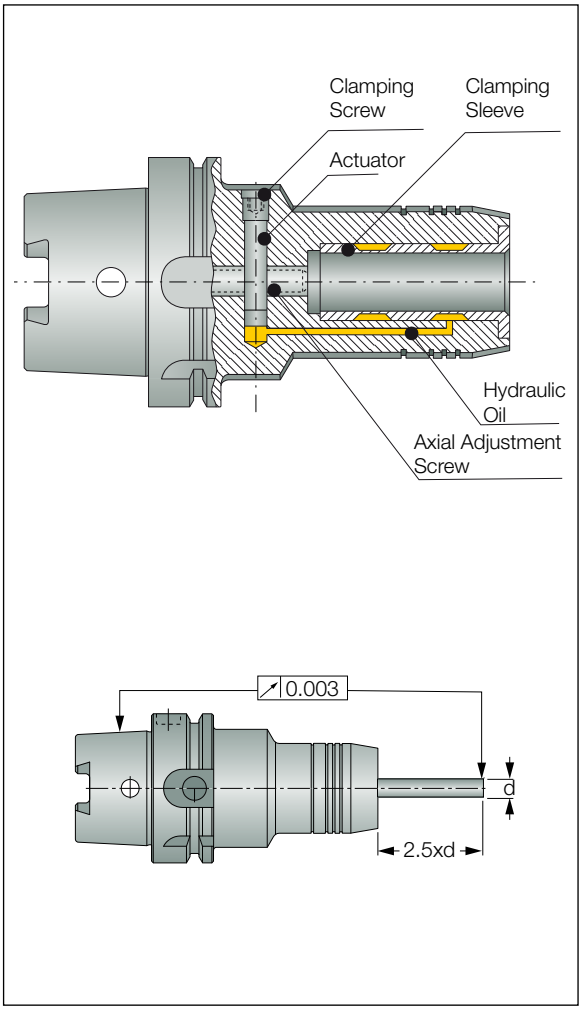
- Fine and accurate machining
- Reaming
- Drilling
- Finish milling
- Internal turning

Features

- High runout accuracy of less than 0.003 mm
- Very low torque required to activate the clamping mechanism, by using a 4 mm Allen key
- Prolongs cutting tool life and improves surface finish due to vibration damping
- Easy presetting by using an internal preset screw
- All rotating chucks feature a symmetrical and balanced design for high speed machining of up to 25,000 min-1
- Available with threaded holes for fine balancing
- Consistent and secure clamping force when used within the recommended speed range
- Suitable for both Weldon and cylindrical shank clamping
- Very convenient and safe tool change on the machine

Two main HYDROFIT chuck types are available

- Taper shanks for rotating applications
- **VDI DIN** 69880 in sizes 30 and 40 for stationary applications on **CNC** lathes



Operating Instructions

To ensure correct functioning of the hydraulic chuck, the following instructions should be followed:

Tools with cylindrical shanks in accordance with **DIN** 1835 and **DIN** 6535 forms (**HA**) and B (**HB**) up to 20 mm diameters should be manufactured according to h6 tolerance and Ramin = 0.3 ground.
Tools with **DIN** 6535 **HE** (whistle notch) shanks should be used in reduction elements, to avoid damaging the chucking hole.

- Clean any grease and dirt from the chuck mounting hole and the tool shank. Insert the tool shank up to the stopper. Make sure that the minimum chucking length is maintained.

- Using the hexagonal-headed key, rotate the clamping screw in a clockwise direction until the end.
Do not attempt to clamp the chuck without a shank inside as it may break the expansion clamping sleeve.

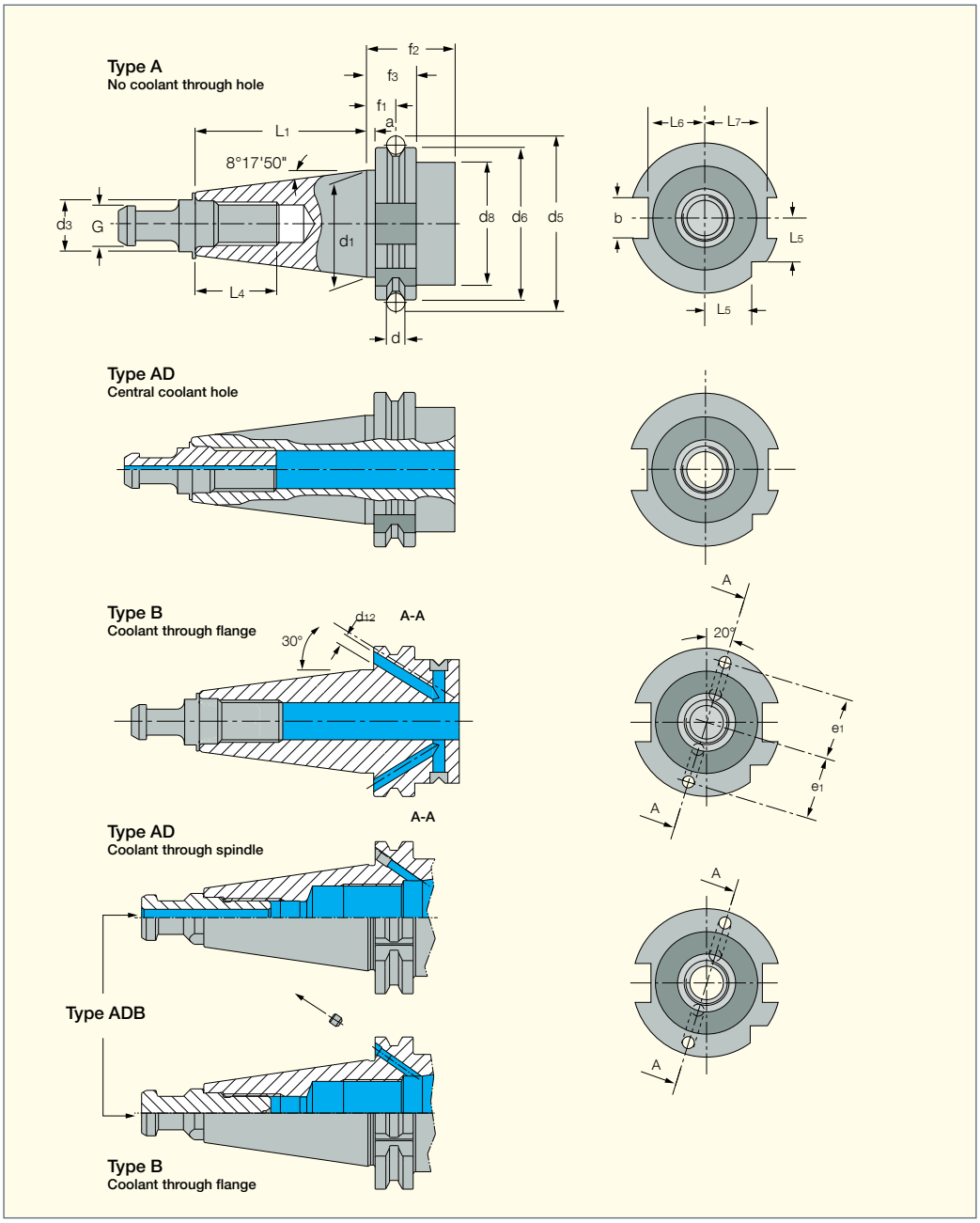
- To release the tool, turn the clamping screw in a counterclockwise direction by about 5 or 6 revolutions and remove the tool.

DIN69871-A/B

DIN69871

Toolholder Standard

DIN69871 Form A/AD/B/ADB



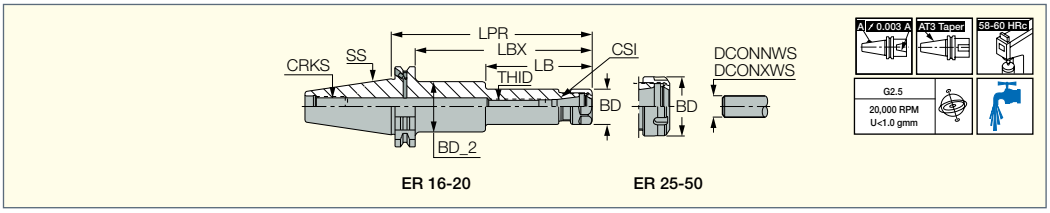
Shank	a±0.1	b (H12)	d	d1	G	d3 (H7)	d5 ±0.05	d6	d8 max	f1 ±0.1
SK 30	3.2	16.1	7	31.75	M12	13	59.30	50	45	11.1
SK 40	3.2	16.1	7	44.45	M16	17	72.30	63.55	50	11.1
SK 50	3.2	25.7	7	69.85	M24	25	107.25	97.50	80	11.1

Shank	f2 min.	f3 -0.1	L1 -0.3	L4 min.	L5 -0.3	L6 -0.4	L7 -0.4	e1 ±0.1	d12	TAPER AT3
SK 30	35	19.1	47.80	24	15.0	16.4	19.0	21	4	0.002
SK 40	35	19.1	68.40	32	18.5	22.8	25.0	27	4	0.003
SK 50	35	19.1	101.75	47	30.0	35.5	37.7	42	6	0.004

DIN69871

DIN69871-ER (form ADB)

DIN 6499 ER Collet Chucks
with a DIN 69871 Form
ADB Taper Shanks



ER 16-20 ER 25-50

Designation	SS	CSI	DCONNWS[2]	DCONXWS[3]	LPR	LBX	LB	BD	BD_2	CRKS	THID	kg
DIN69871 30 ER16X 63	30	ER16	0.5	10.0	63.00	43.9	28.00	28.00	-	M12	M10	0.46
DIN69871 30 ER32X 65	30	ER32	2.0	20.0	65.00	45.9	32.00	50.00	40.40	M12	M18X1.5	0.48
DIN69871 40 ER16X 63	40	ER16	0.5	10.0	63.00	43.9	-	28.00	-	M16	M12	0.86
DIN69871 40 ER16X100	40	ER16	0.5	10.0	100.00	80.9	-	28.00	-	M16	M12	1.05
DIN69871 40 ER16X160 [1]	40	ER16	0.5	10.0	160.00	140.9	85.00	28.00	40.00	M16	M12	1.52
DIN69871 40 ER20X 63	40	ER20	1.0	13.0	63.00	43.9	-	34.00	-	M16	M12	0.91
DIN69871 40 ER20X100	40	ER20	1.0	13.0	100.00	80.9	-	34.00	-	M16	M12	1.16
DIN69871 40 ER20X160 [1]	40	ER20	1.0	13.0	160.00	140.9	91.00	34.00	44.00	M16	M12	1.72
DIN69871 40 ER25X 65	40	ER25	1.0	16.0	65.00	45.9	28.00	42.00	-	M16	M16X2	0.90
DIN69871 40 ER25X100	40	ER25	1.0	16.0	100.00	80.9	-	42.00	-	M16	M16X2	1.29
DIN69871 40 ER25X150	40	ER25	1.0	16.0	150.00	130.9	-	42.00	-	M16	M16X2	1.81
DIN69871 40 ER32X 65	40	ER32	2.0	20.0	65.00	45.9	32.00	50.00	40.40	M16	M22X1.5	0.85
DIN69871 40 ER32X100	40	ER32	2.0	20.0	100.00	80.9	35.00	50.00	49.00	M16	M22X1.5	1.20
DIN69871 40 ER32X150	40	ER32	2.0	20.0	150.00	130.9	35.00	50.00	49.00	M16	M22X1.5	2.17
DIN69871 40 ER40X 70	40	ER40	3.0	26.0	70.00	50.9	32.00	63.00	50.40	M16	M28X1.5	0.89
DIN69871 40 ER40X100	40	ER40	3.0	26.0	100.00	80.9	32.00	63.00	50.40	M16	M28X1.5	1.28
DIN69871 50 ER16X100	50	ER16	0.5	10.0	100.00	80.9	-	28.00	-	M24	M12	2.76
DIN69871 50 ER16X160 [1]	50	ER16	0.5	10.0	160.00	140.9	85.00	28.00	40.00	M24	M12	3.29
DIN69871 50 ER16X200 [1]	50	ER16	0.5	10.0	200.00	180.9	110.00	28.00	40.00	M24	M10	3.52
DIN69871 50 ER20X100	50	ER20	1.0	13.0	100.00	80.9	-	34.00	-	M24	M12	2.86
DIN69871 50 ER20X160 [1]	50	ER20	1.0	13.0	160.00	140.9	86.00	34.00	45.00	M24	M12	3.50
DIN69871 50 ER25X100	50	ER25	1.0	16.0	100.00	80.9	-	42.00	-	M24	M16X2	3.08
DIN69871 50 ER25X150	50	ER25	1.0	16.0	150.00	130.9	80.90	42.00	50.00	M24	M16X2	3.71
DIN69871 50 ER25X200 [1]	50	ER25	1.0	16.0	200.00	180.9	85.00	42.00	55.00	M24	M16X2	4.70
DIN69871 50 ER32X100	50	ER32	2.0	20.0	100.00	80.9	-	50.00	-	M24	M22X1.5	3.20
DIN69871 50 ER32X150	50	ER32	2.0	20.0	150.00	130.9	-	50.00	-	M24	M22X1.5	3.83
DIN69871 50 ER32X200 [1]	50	ER32	2.0	20.0	200.00	180.9	-	50.00	-	M24	M22X1.5	4.51
DIN69871 50 ER40X100	50	ER40	3.0	26.0	100.00	80.9	-	63.00	-	M24	M28X1.5	3.45
DIN69871 50 ER40X150	50	ER40	3.0	26.0	150.00	130.9	-	63.00	-	M24	M28X1.5	4.51
DIN69871 50 ER40X200 [1]	50	ER40	3.0	26.0	200.00	180.9	-	63.00	-	M24	M28X1.5	5.60
DIN69871 50 ER50X100	50	ER50	10.0	34.0	100.00	80.9	-	78.00	-	M24	M36X1.5	3.51
DIN69871 50 ER50X150	50	ER50	10.0	34.0	150.00	130.9	-	78.00	-	M24	M36X1.5	5.22

[1] Balanced to G6.3/12,000 RPM
[2] Minimum diameter
[3] Maximum diameter

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DIN69871-ER (form ADB)

Spare Parts

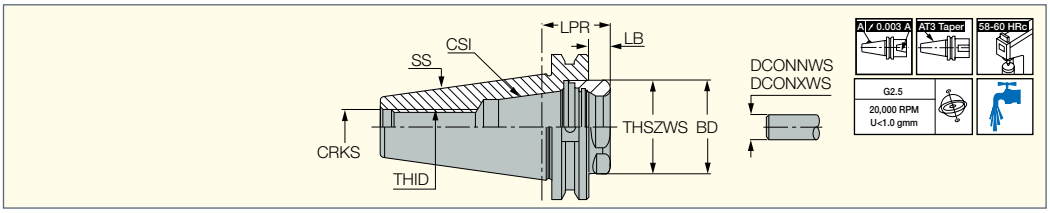
Designation				
DIN69871 30 ER16X 63	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	
DIN69871 30 ER32X 65	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 18X1.5*	PRESET ER-JET 18X1.5L*
DIN69871 40 ER16X 63	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	
DIN69871 40 ER16X100	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	
DIN69871 40 ER16X160	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	
DIN69871 40 ER20X 63	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN69871 40 ER20X100	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN69871 40 ER20X160	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN69871 40 ER25X 65	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
DIN69871 40 ER25X100	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
DIN69871 40 ER25X150	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
DIN69871 40 ER32X 65	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN69871 40 ER32X100	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN69871 40 ER32X150	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN69871 40 ER40X 70	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	
DIN69871 40 ER40X100	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	
DIN69871 50 ER16X100	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN69871 50 ER16X160	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN69871 50 ER16X200	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	
DIN69871 50 ER20X100	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN69871 50 ER20X160	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN69871 50 ER25X100	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
DIN69871 50 ER25X150	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
DIN69871 50 ER25X200	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
DIN69871 50 ER32X100	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN69871 50 ER32X150	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN69871 50 ER32X200	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN69871 50 ER40X100	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	
DIN69871 50 ER40X150	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	
DIN69871 50 ER40X200	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	
DIN69871 50 ER50X100	NUT ER50 UM	WRENCH ER50*		
DIN69871 50 ER50X150	NUT ER50 UM	WRENCH ER50*		

* Optional, should be ordered separately

DIN69871 SHORTIN

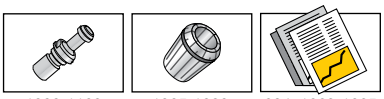
DIN69871-ER-SHORT

Short Front End ER Collet Chucks with DIN 69871 Form AD Tapered Shanks



Designation	SS	CSI	DCONNWS[1]	DCONXWS[2]	LPR	LB	BD	THSZWS	CRKS	THID	kg
DIN69871 40 ER32 SHORT	40	ER32	2.0	20.0	25.10	6.0	40.00	M40X1.5	M16	-	0.58
DIN69871 50 ER32 SHORT	50	ER32	2.0	20.0	28.60	9.5	40.00	M40X1.5	M24	M22X1.5	2.38
DIN69871 50 ER40 SHORT	50	ER40	3.0	26.0	28.60	9.5	50.00	M50X1.5	M24	M28X1.5	2.14

[1] Minimum diameter
[2] Maximum diameter



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Spare Parts

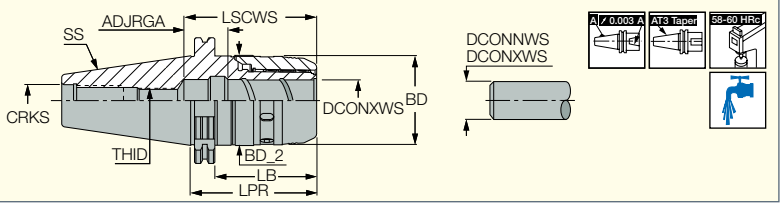
Designation				
DIN69871 40 ER32 SHORT	NUT ER32 SHORT	WRENCH ER32 SHORT*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
DIN69871 50 ER32 SHORT	NUT ER32 SHORT	WRENCH ER32 SHORT*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN69871 50 ER40 SHORT	NUT ER40 SHORT	WRENCH ER40 SHORT*	PRESET ER-JET 28X1.5*	

* Optional, should be ordered separately

DIN69871 MAXIN

DIN69871-MAXIN

Power Chucks with DIN 69871
Form AD/B Taper Shanks



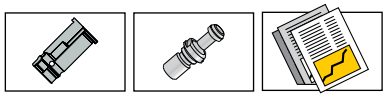
Designation	SS	DCONNWS[2]	DCONXWS[3]	BD	BD_2	LPR	LB	ADJRGA	LSCWS	THID	CRKS	kg
DIN69871 40 MAXIN 20X 95	40	6.0	20.0	51.00	53.00	95.00	76.0	13.00	69.0	M16	M16	1.20
DIN69871 40 MAXIN 32X106	40	6.0	32.0	69.00	70.00	106.00	87.0	13.00	83.0	M16	M16	1.42
DIN69871 50 MAXIN 20X105	50	6.0	20.0	51.00	53.00	105.00	86.0	13.00	69.0	M16	M24	3.20
DIN69871 50 MAXIN 20X105B [1]	50	6.0	20.0	51.00	53.00	105.00	86.0	13.00	69.0	M16	M24	3.16
DIN69871 50 MAXIN 32X100	50	6.0	32.0	69.00	70.00	100.00	81.0	14.00	84.0	M20X2	M24	3.17
DIN69871 50 MAXIN 32X100B [1]	50	6.0	32.0	69.00	70.00	100.00	81.0	14.00	84.0	M20X2	M24	3.16
DIN69871 50 MAXIN 32X135	50	6.0	32.0	69.00	70.00	135.00	116.0	14.00	85.0	M20X2	M24	4.20

• Use of DCONXWS diameter tools provides the best performance as collets reduce gripping force by 25%. • B is the designation for coolant through flange.

[1] With coolant through the flange

[2] Min. diameter by using a reduction collet

[3] Max. diameter without a collet



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Spare Parts

Designation		
DIN69871 40 MAXIN 20X 95	WRENCH MAXIN 20 HOOK*	EXTRACTOR SC COLLETS*
DIN69871 40 MAXIN 32X106	WRENCH MAXIN 32 HOOK*	EXTRACTOR SC COLLETS*
DIN69871 50 MAXIN 20X105	WRENCH MAXIN 20 HOOK*	EXTRACTOR SC COLLETS*
DIN69871 50 MAXIN 20X105B	WRENCH MAXIN 20 HOOK	EXTRACTOR SC COLLETS
DIN69871 50 MAXIN 32X100	WRENCH MAXIN 32 HOOK*	EXTRACTOR SC COLLETS*
DIN69871 50 MAXIN 32X100B	WRENCH MAXIN 32 HOOK*	EXTRACTOR SC COLLETS*
DIN69871 50 MAXIN 32X135	WRENCH MAXIN 32 HOOK*	EXTRACTOR SC COLLETS*

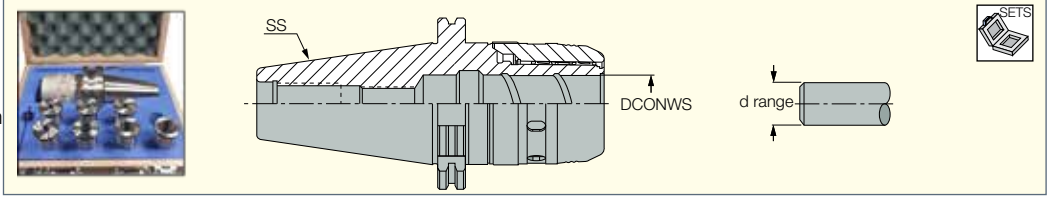
* Optional, should be ordered separately

DIN69871

MAXIN KIT

KIT SK-MAXIN

Contains a DIN 69871 Holder with MAXIN Power Chuck and a Set of Collets with Various Bore Sizes



Designation	SS	DCONWS	Qty	d Range
KIT SK40 MAXIN 20X95 6	SK40	20.00	6	6,8,10,12,14,16
KIT SK40 MAXIN 32X106 7	SK40	32.00	7	6,8,10,12,16,20,25
KIT SK50 MAXIN 32X100 7	SK50	32.00	7	6,8,10,12,16,20,25

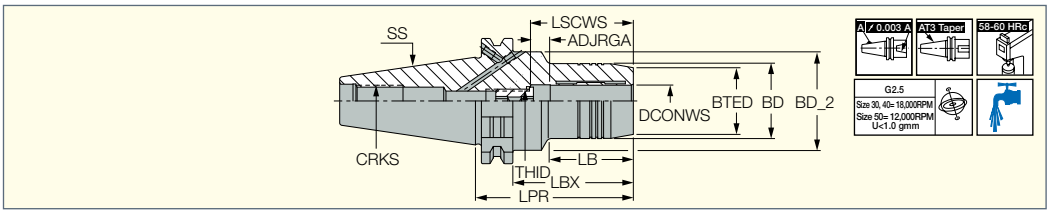
• Each kit contains one power chuck, a set of SC-SPR collets, extraction hook and wrench.

DIN69871

HYDROFIT HOLDING LINE

DIN69871-HYDRO

Hydraulic Chucks with
DIN69781 Form ADB Shanks

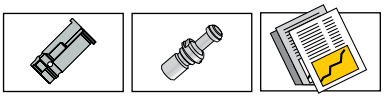


Designation	SS	DCONWS	BTED	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	THID	CRKS	kg
DIN69871 30 HYDRO 6X60 (1)	30	6.00	23.00	26.00	45.00	60.00	41.0	25.00	10.00	37.0	M5	M12	0.63
DIN69871 30 HYDRO 16X90 (1)	30	16.00	34.00	38.00	45.00	90.00	71.0	43.00	10.00	52.0	M12X1	M12	0.96
DIN69871 30 HYDRO 20X90 (1)	30	20.00	38.00	42.00	-	90.00	71.0	-	10.00	52.0	M12X1	M12	0.90
DIN69871 40 HYDRO 6X68 (1)	40	6.00	23.00	26.00	50.00	68.00	49.0	33.00	11.00	38.0	M5	M16	1.09
DIN69871 40 HYDRO 8X68 (1)	40	8.00	25.00	28.00	50.00	68.00	49.0	33.00	10.00	37.0	M6	M16	1.11
DIN69871 40 HYDRO 10X72 (1)	40	10.00	27.00	30.00	50.00	72.00	53.0	37.00	10.00	42.0	M8X1	M16	1.14
DIN69871 40 HYDRO 12X77 (1)	40	12.00	29.00	32.00	50.00	77.00	58.0	42.00	10.00	47.0	M10X1	M16	1.20
DIN69871 40 HYDRO 14X77 (1)	40	14.00	30.00	34.00	50.00	77.00	58.0	42.00	10.00	47.0	M10X1	M16	1.20
DIN69871 40 HYDRO 16X80 (1)	40	16.00	34.00	38.00	50.00	80.00	61.0	43.00	10.00	52.0	M12X1	M16	1.28
DIN69871 40 HYDRO 18X80 (1)	40	18.00	36.00	40.00	50.00	80.00	61.0	43.00	10.00	52.0	M12X1	M16	1.30
DIN69871 40 HYDRO 20X82 (1)	40	20.00	38.00	42.00	50.00	82.00	63.0	47.00	10.00	52.0	M12X1	M16	1.34
DIN69871 40 HYDRO 25X117 (1)	40	25.00	46.00	50.00	63.00	117.00	98.0	51.00	10.00	58.0	M16X1	M16	2.01
DIN69871 40 HYDRO 32X117 (1)	40	32.00	56.00	60.00	63.00	117.00	98.0	56.00	10.00	62.0	M16X1	M16	2.44
DIN69871 50 HYDRO 6X68 (2)	50	6.00	23.00	26.00	80.00	68.00	49.0	33.00	10.00	37.0	M5	M24	3.10
DIN69871 50 HYDRO 8X68 (2)	50	8.00	25.00	28.00	80.00	68.00	49.0	33.00	10.00	37.0	M6	M24	3.10
DIN69871 50 HYDRO 10X72 (2)	50	10.00	27.00	30.00	80.00	72.00	53.0	37.00	10.00	42.0	M8X1	M24	3.20
DIN69871 50 HYDRO 12X77 (2)	50	12.00	29.00	32.00	80.00	77.00	58.0	42.00	10.00	47.0	M10X1	M24	3.20
DIN69871 50 HYDRO 14X77 (2)	50	14.00	30.00	34.00	80.00	77.00	58.0	42.00	10.00	47.0	M10X1	M24	3.34
DIN69871 50 HYDRO 16X80 (2)	50	16.00	34.00	38.00	80.00	80.00	61.0	45.00	10.00	52.0	M12X1	M24	3.41
DIN69871 50 HYDRO 18X80 (2)	50	18.00	36.00	40.00	80.00	80.00	61.0	45.00	10.00	52.0	M12X1	M24	2.57
DIN69871 50 HYDRO 20X82 (2)	50	20.00	38.00	42.00	80.00	82.00	63.0	47.00	10.00	52.0	M16X1	M24	3.50
DIN69871 50 HYDRO 25X87 (2)	50	25.00	46.00	50.00	80.00	87.00	68.0	52.00	10.00	58.0	M16X1	M24	3.73
DIN69871 50 HYDRO 32X91 (2)	50	32.00	56.00	60.00	80.00	91.00	72.0	56.00	10.00	64.0	M16X1	M24	4.01

• Chucking forces will be reduced by 25% if reduction sleeves are used. • Note: Reduction sleeves are available for 12, 20, 25 and 32 mm bore diameters (ordered separately). • The coolant passages in the B type flange are blocked with screws which can be removed when required. • Clamping wrench (wrench HYDRO HEX 4) and test bar should be ordered separately.

(1) Balanced to G2.5/18,000 RPM.

(2) Balanced to G2.5/12,000 RPM.



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Spare Parts

Designation			
DIN69871 30 HYDRO 6X60	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*
DIN69871 30 HYDRO 16X90	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*
DIN69871 30 HYDRO 20X90	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 6X68	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 8X68	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 8*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 10X72	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 10*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 12X77	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 12*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 14X77	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 16X80	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 18X80	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 20X82	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 25X117	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 25*	WRENCH HYDRO HEX 4*
DIN69871 40 HYDRO 32X117	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 32*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 6X68	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 8X68	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 8*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 10X72	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 10*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 12X77	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 12*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 14X77	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 16X80	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 18X80	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 20X82	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 25X87	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 25*	WRENCH HYDRO HEX 4*
DIN69871 50 HYDRO 32X91	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 32*	WRENCH HYDRO HEX 4*

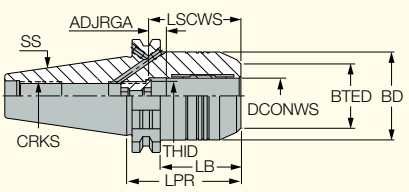
* Optional, should be ordered separately

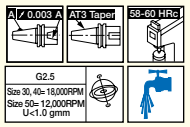
DIN69871

HYDROFIT HOLDING LINE

DIN69871-HYDRO HD

Heavy Duty, Short Hydraulic Chucks With DIN69871 form ADB shanks



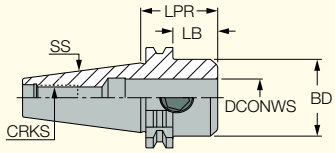


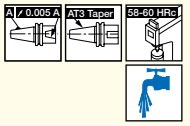
Designation	SS	DCONWS	BTED	BD	BD_2	LPR	LB	LBX	ADJRGA	LSCWS	THID	CRKS	kg
SK40 HYDRO 12X50 HD	40	12.00	32.00	42.00	999.00	50.00	31.0	999.00	10.00	46.0	M8X1	M16	1.11
SK40 HYDRO 16X64.5 HD	40	16.00	38.00	49.25	999.00	64.50	45.5	999.00	8.00	51.0	M8X1	M16	0.00
SK40 HYDRO 20X64.5 HD	40	20.00	38.00	49.25	999.00	64.50	45.5	999.00	8.00	51.0	M8X1	M16	0.00
SK50 HYDRO 20X64.5 HD	50	20.00	38.00	49.25	999.00	64.50	45.5	999.00	8.00	51.0	M8X1	M24	0.00
SK50 HYDRO 32X81 HD	50	32.00	58.50	72.00	999.00	81.00	62.0	999.00	9.00	61.0	M8X1	M24	0.00

DIN69871

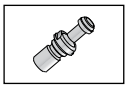
DIN69871-EM (DIN 6359 short)

Short Side Clamp Endmill Holders (DIN 6359-HB) with DIN 69871 Form AD Taper Shanks for DIN 1835 Form B Weldon Shanks





Designation	SS	DCONWS	BD	LPR	LB	CRKS	kg	
DIN69871 40 EM10X 45	40	10.00	35.00	45.00	25.9	M16	0.93	SR M10X12 DIN1835-B
DIN69871 40 EM12X 45	40	12.00	42.00	45.00	25.9	M16	0.99	SR M12X16 DIN1835-B
DIN69871 40 EM14X 45	40	14.00	44.00	45.00	25.9	M16	1.02	SR M12X16 DIN1835-B
DIN69871 40 EM16X 45	40	16.00	48.00	45.00	25.9	M16	1.05	SR M14X16 DIN1835-B
DIN69871 40 EM18X 45	40	18.00	49.00	45.00	25.9	M16	1.04	SR M14X16 DIN1835-B
DIN69871 40 EM20X 45	40	20.00	49.00	45.00	25.9	M16	1.00	SR M16X16 DIN1835-B
DIN69871 40 EM25X 45	40	25.00	49.00	45.00	25.9	M16	0.93	SR M18X2X10 EM SHORT

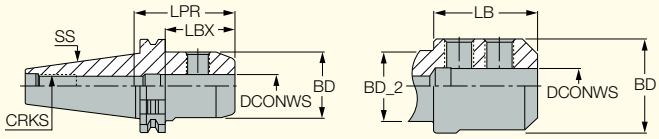


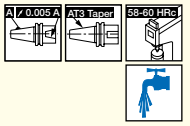
1099-1100

DIN69871

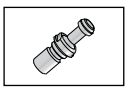
DIN69871-EM (DIN 6359-HB)

DIN 69871 Form AD/B Taper Shanks Holders with DIN 6359-HB for DIN 1835 Form B Weldon Shanks





Designation	SS	DCONWS	BD	BD_2	LPR	LBX	LB	CRKS	kg	
DIN69871 30 EM 6X 50	30	6.00	25.00	-	50.00	30.9	-	M12	0.45	SR M6X10 DIN1835B
DIN69871 30 EM 8X 50	30	8.00	28.00	-	50.00	30.9	-	M12	0.49	SR M8X10 DIN1835-B
DIN69871 30 EM10X 50	30	10.00	35.00	-	50.00	30.9	-	M12	0.55	SR M10X12 DIN1835-B
DIN69871 30 EM16X 63	30	16.00	48.00	-	63.00	43.9	-	M12	0.81	SR M14X16 DIN1835-B
DIN69871 30 EM18X 72	30	18.00	50.00	-	72.00	52.9	-	M12	0.96	SR M14X16 DIN1835-B
DIN69871 30 EM20X72	30	20.00	52.00	-	72.00	52.9	-	M12	0.96	SR M16X16 DIN1835-B
DIN69871 40 EM 6X 50	40	6.00	25.00	-	50.00	30.9	-	M16	0.89	SR M6X10 DIN1835B
DIN69871 40 EM 8X 50	40	8.00	28.00	-	50.00	30.9	-	M16	0.91	SR M8X10 DIN1835-B
DIN69871 40 EM10X 50	40	10.00	35.00	-	50.00	30.9	-	M16	0.96	SR M10X12 DIN1835-B
DIN69871 40 EM12X 50	40	12.00	42.00	-	50.00	30.9	-	M16	1.04	SR M12X16 DIN1835-B
DIN69871 40 EM14X 63	40	14.00	44.00	-	63.00	43.9	-	M16	1.20	SR M12X16 DIN1835-B
DIN69871 40 EM16X 63	40	16.00	48.00	-	63.00	43.9	-	M16	1.20	SR M14X16 DIN1835-B
DIN69871 40 EM18X 63	40	18.00	50.00	-	63.00	43.9	-	M16	1.29	SR M14X16 DIN1835-B
DIN69871 40 EM20X 63	40	20.00	52.00	-	63.00	43.9	-	M16	1.26	SR M16X16 DIN1835-B
DIN69871 40 EM25X100	40	25.00	65.00	49.00	100.00	80.9	65.00	M16	2.23	SR M18X2X20 DIN1835-B
DIN69871 40 EM32X100	40	32.00	71.00	49.00	100.00	80.9	65.00	M16	2.42	SR M20X2X20 DIN1835-B
DIN69871 50 EM 6X 63	50	6.00	25.00	-	63.00	43.9	-	M24	2.70	SR M6X10 DIN1835B
DIN69871 50 EM 8X 63	50	8.00	28.00	-	63.00	43.9	-	M24	2.73	SR M8X10 DIN1835-B
DIN69871 50 EM10X 63	50	10.00	35.00	-	63.00	43.9	-	M24	2.83	SR M10X12 DIN1835-B
DIN69871 50 EM12X 63	50	12.00	42.00	-	63.00	43.9	-	M24	2.93	SR M12X16 DIN1835-B
DIN69871 50 EM14X 63	50	14.00	44.00	-	63.00	43.9	-	M24	2.91	SR M12X16 DIN1835-B
DIN69871 50 EM16X 63	50	16.00	48.00	-	63.00	43.9	-	M24	3.02	SR M14X16 DIN1835-B
DIN69871 50 EM18X 63	50	18.00	50.00	-	63.00	43.9	-	M24	3.08	SR M14X16 DIN1835-B
DIN69871 50 EM20X 63	50	20.00	52.00	-	63.00	43.9	-	M24	3.07	SR M16X16 DIN1835-B
DIN69871 50 EM25X 80	50	25.00	65.00	-	80.00	60.9	-	M24	3.70	SR M18X2X20 DIN1835-B
DIN69871 50 EM32X100	50	32.00	72.00	-	100.00	80.9	-	M24	4.44	SR M20X2X20 DIN1835-B
DIN69871 50 EM40X100	50	40.00	90.00	79.90	100.00	80.9	43.00	M24	5.05	SR M20X2X20 DIN1835-B
DIN69871 50 EM50X125	50	50.00	98.00	79.90	125.00	105.9	90.00	M24	6.80	SR M24X2X25 DIN1835-B

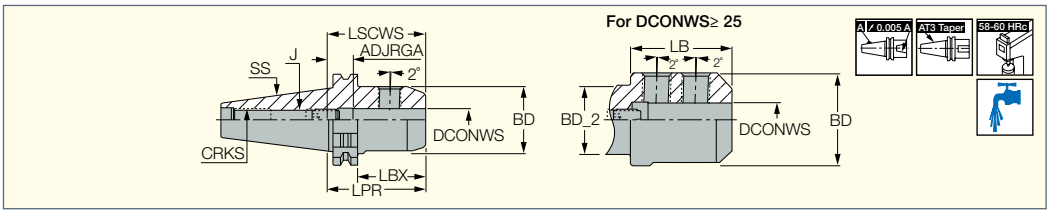


1099-1100

DIN69871

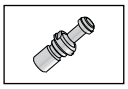
DIN69871-EM (DIN 6359-HE)

DIN 69871 Form ADB Taper Shank Drill Holders with DIN 6359-HE for DIN 1835 Form E Whistle Notch Shanks



Designation	SS	DCONWS	BD	BD_2	LPR	LBX	LB	LSCWS	ADJRGA	J(1)	Key(2)	CRKS	kg
DIN69871 40 EM 8X 50E	40	8.00	28.00	28.00	50.00	30.9	-	45.0	10.00	M6	3.00	M16	0.94
DIN69871 40 EM10X 50E	40	10.00	35.00	35.00	50.00	30.9	-	49.0	10.00	M8	4.00	M16	1.00
DIN69871 40 EM12X 50E	40	12.00	42.00	42.00	50.00	30.9	-	54.0	10.00	M10	5.00	M16	1.07
DIN69871 40 EM16X 63E	40	16.00	48.00	48.00	63.00	43.9	-	57.0	10.00	M12	6.00	M16	1.28
DIN69871 40 EM18X 63E	40	18.00	50.00	50.00	63.00	43.9	-	57.0	10.00	M12	6.00	M16	1.31
DIN69871 40 EM20X 63E	40	20.00	52.00	52.00	63.00	43.9	-	59.0	10.00	M16	8.00	M16	1.25
DIN69871 40 EM25X100E	40	25.00	64.00	49.00	100.00	80.9	65.00	64.0	10.00	M20X1.5	10.00	M16	2.18
DIN69871 40 EM32X100E	40	32.00	71.00	49.00	100.00	80.9	65.00	68.0	10.00	M20X1.5	10.00	M16	2.40
DIN69871 50 EM10X 63E	50	10.00	35.00	35.00	63.00	43.9	-	49.0	10.00	M8	4.00	M24	2.86
DIN69871 50 EM12X 63E	50	12.00	42.00	42.00	63.00	43.9	-	54.0	10.00	M10	5.00	M24	2.98
DIN69871 50 EM14X 63E	50	14.00	44.00	44.00	63.00	43.9	-	54.0	10.00	M10	5.00	M24	3.02
DIN69871 50 EM16X 63E	50	16.00	48.00	48.00	63.00	43.9	-	57.0	10.00	M12	6.00	M24	3.07
DIN69871 50 EM20X 63E	50	20.00	52.00	52.00	63.00	43.9	-	59.0	10.00	M16	8.00	M24	3.11
DIN69871 50 EM25X 80E	50	25.00	65.00	65.00	80.00	60.9	-	64.0	10.00	M20X1.5	10.00	M24	3.67
DIN69871 50 EM32X100E	50	32.00	72.00	72.00	100.00	80.9	-	68.0	10.00	M20X1.5	10.00	M24	4.50
DIN69871 50 EM40X100E	50	40.00	90.00	79.90	100.00	80.9	43.00	78.0	10.00	M20X1.5	10.00	M24	5.05

(1) Adjustment screw has an internal coolant hole.
(2) Adjustment screw hexagon key size.



1099-1100

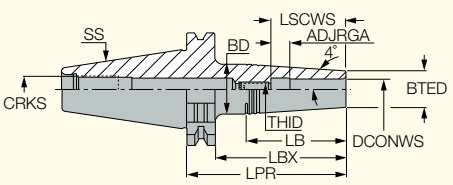
Spare Parts

Designation		
DIN69871 40 EM 8X 50E	SR M8X10 DIN1835-B	PRESET M6X20B
DIN69871 40 EM10X 50E	SR M10X12 DIN1835-B	PRESET M8X20B
DIN69871 40 EM12X 50E	SR M12X16 DIN1835-B	PRESET M10X18B
DIN69871 40 EM16X 63E	SR M14X16 DIN1835-B	PRESET M12X18B
DIN69871 40 EM18X 63E	SR M14X16 DIN1835-B	PRESET M12X18B
DIN69871 40 EM20X 63E	SR M16X16 DIN1835-B	PRESET M16X20B
DIN69871 40 EM25X100E	SR M18X2X20 DIN1835-B	PRESET M20X20E
DIN69871 40 EM32X100E	SR M20X2X20 DIN1835-B	PRESET M20X20E
DIN69871 50 EM10X 63E	SR M10X12 DIN1835-B	PRESET M8X20B
DIN69871 50 EM12X 63E	SR M12X16 DIN1835-B	PRESET M10X18B
DIN69871 50 EM14X 63E	SR M12X16 DIN1835-B	PRESET M10X18B
DIN69871 50 EM16X 63E	SR M14X16 DIN1835-B	PRESET M12X18B
DIN69871 50 EM20X 63E	SR M16X16 DIN1835-B	PRESET M16X20B
DIN69871 50 EM25X 80E	SR M18X2X20 DIN1835-B	PRESET M20X20E
DIN69871 50 EM32X100E	SR M20X2X20 DIN1835-B	PRESET M20X20E
DIN69871 50 EM40X100E	SR M20X2X20 DIN1835-B	PRESET M20X20E

DIN69871 SHRINKIN

DIN69871-SRK

Thermal Shrinking Chucks with
DIN 69871 Form AD Taper Shanks



Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key(1)	CRKS	kg
DIN69871 40 SRK 3X50	40	3.00	10.00	15.00	69.10	50.0	35.50	6.00	16.0	M6	3.00	M16	0.83
DIN69871 40 SRK 3X85	40	3.00	10.00	19.00	104.10	85.0	64.10	6.00	16.0	M6	3.00	M16	0.89
DIN69871 40 SRK 4X50	40	4.00	10.00	15.00	69.10	50.0	35.50	6.00	18.0	M6	3.00	M16	0.82
DIN69871 40 SRK 4X85	40	4.00	10.00	19.00	104.10	85.0	64.10	6.00	18.0	M6	3.00	M16	0.90
DIN69871 40 SRK 5X50	40	5.00	10.00	15.00	69.10	50.0	35.50	6.00	21.0	M6	3.00	M16	0.84
DIN69871 40 SRK 5X85	40	5.00	10.00	19.00	104.10	85.0	64.10	6.00	21.0	M6	3.00	M16	0.89
DIN69871 40 SRK 6X50	40	6.00	11.00	16.00	69.10	50.0	35.50	6.00	24.0	M8	4.00	M16	0.84
DIN69871 40 SRK 6X85	40	6.00	11.00	20.00	104.10	85.0	64.10	6.00	24.0	M8	4.00	M16	0.82
DIN69871 40 SRK 8X50	40	8.00	14.00	20.00	69.10	50.0	42.50	6.00	31.0	M10	5.00	M16	0.84
DIN69871 40 SRK 8X85	40	8.00	14.00	23.00	104.10	85.0	63.90	6.00	31.0	M10	5.00	M16	0.94
DIN69871 40 SRK 10X50	40	10.00	16.00	22.00	69.10	50.0	42.40	6.00	36.0	M12	6.00	M16	0.87
DIN69871 40 SRK 10X85	40	10.00	16.00	24.50	104.10	85.0	60.30	6.00	36.0	M12	6.00	M16	0.94
DIN69871 40 SRK 12X50	40	12.00	20.00	26.00	69.10	50.0	42.30	10.00	42.0	M10	5.00	M16	0.92
DIN69871 40 SRK 12X85	40	12.00	20.00	28.00	104.10	85.0	56.60	10.00	42.0	M10	5.00	M16	1.05

• To be used for carbide tools only. • Preset sco G2.5/25,000 RPM.

(1) Hex key size for the rear stopper screw

1099-1100 1070-1072 1076-1077

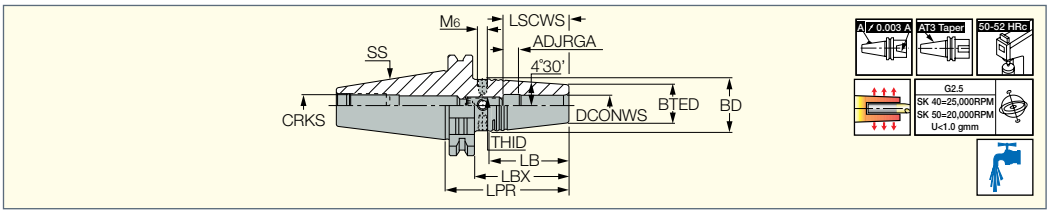
Spare Parts

Designation	
DIN69871 40 SRK 3X50	SR M6X10 DIN916
DIN69871 40 SRK 3X85	SR M6X10 DIN916
DIN69871 40 SRK 4X50	SR M6X10 DIN916
DIN69871 40 SRK 4X85	SR M6X10 DIN916
DIN69871 40 SRK 5X50	SR M6X10 DIN916
DIN69871 40 SRK 5X85	SR M6X10 DIN916
DIN69871 40 SRK 6X50	SR M8X12 DIN916
DIN69871 40 SRK 6X85	SR M8X12 DIN916
DIN69871 40 SRK 8X50	SR M10X10 DIN913
DIN69871 40 SRK 8X85	SR M10X10 DIN913
DIN69871 40 SRK 10X50	SR M12X10 DIN913
DIN69871 40 SRK 10X85	SR M12X10 DIN913
DIN69871 40 SRK 12X50	SR M10X18 DIN913
DIN69871 40 SRK 12X85	SR M10X18 DIN913

DIN69871 SHRINKIN

DIN69871-SRKIN

Thermal Shrink Chucks with DIN 69871 Form AD Taper Shanks for Solid Carbide HSS and Steel Tools



Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key(3)	CRKS	kg
DIN69871 40 SRKIN 6X80 (1)	40	6.00	21.00	27.00	80.00	60.9	38.00	11.00	36.0	M5	2.50	M16	0.99
DIN69871 40 SRKIN 8X80 (1)	40	8.00	21.00	27.00	80.00	60.9	38.00	11.00	36.0	M6	3.00	M16	1.00
DIN69871 40 SRKIN 10X80 (1)	40	10.00	24.00	32.00	80.00	60.9	50.50	11.00	42.0	M8	4.00	M16	1.05
DIN69871 40 SRKIN 12X80 (1)	40	12.00	24.00	32.00	80.00	60.9	50.80	16.00	47.0	M10	5.00	M16	1.04
DIN69871 40 SRKIN 14X80 (1)	40	14.00	27.00	34.00	80.00	60.9	44.20	11.00	47.0	M10	5.00	M16	1.15
DIN69871 40 SRKIN 16X80 (1)	40	16.00	27.00	34.00	80.00	60.9	44.20	11.00	50.0	M12	6.00	M16	1.07
DIN69871 40 SRKIN 18X80 (1)	40	18.00	33.00	42.00	80.00	60.9	57.00	11.00	50.0	M12	6.00	M16	1.21
DIN69871 40 SRKIN 20X80 (1)	40	20.00	33.00	42.00	80.00	60.9	57.00	11.00	52.0	M16	8.00	M16	1.16
DIN69871 40 SRKIN 25X100 (1)	40	25.00	44.00	53.00	100.00	80.9	57.00	11.00	58.0	M20	8.00	M16	1.71
DIN69871 50 SRKIN 6X 80 (2)	50	6.00	21.00	27.00	80.00	60.9	38.00	11.00	36.0	M5	2.50	M24	2.72
DIN69871 50 SRKIN 8X 80 (2)	50	8.00	21.00	27.00	80.00	60.9	38.00	11.00	36.0	M6	3.00	M24	2.71
DIN69871 50 SRKIN 10X 80 (2)	50	10.00	24.00	32.00	80.00	60.9	51.00	11.00	42.0	M8	4.00	M24	2.81
DIN69871 50 SRKIN 12X 80 (2)	50	12.00	24.00	32.00	80.00	60.9	51.00	11.00	47.0	M10	5.00	M24	2.79
DIN69871 50 SRKIN 14X 80 (2)	50	14.00	27.00	34.00	80.00	60.9	45.00	11.00	47.0	M10	5.00	M24	2.84
DIN69871 50 SRKIN 16X 80 (2)	50	16.00	27.00	34.00	80.00	60.9	45.00	11.00	50.0	M12	6.00	M24	2.76
DIN69871 50 SRKIN 18X 80 (2)	50	18.00	33.00	42.00	80.00	60.9	57.00	11.00	50.0	M12	6.00	M24	2.90
DIN69871 50 SRKIN 20X 80 (2)	50	20.00	33.00	42.00	80.00	60.9	57.00	11.00	52.0	M16	8.00	M24	2.92
DIN69871 50 SRKIN 20X 80B (2)	50	20.00	33.00	42.00	80.00	60.9	57.00	11.00	52.0	M16	8.00	M24	3.00
DIN69871 50 SRKIN 25X100 (2)	50	25.00	44.00	53.00	100.00	80.9	57.00	11.00	58.0	M16	8.00	M24	3.51
DIN69871 50 SRKIN 32X100 (2)	50	32.00	44.00	53.00	100.00	80.9	57.00	11.00	58.0	M18	8.00	M24	3.36

• Use only inductive heating device for SRKIN holders • B is the designation for coolant through flange

(1) Balanced to G2.5/25.000 RPM

(2) Balanced to G2.5/20.000 RPM

(3) Hex key size for the rear stopper screw

1099-1100 1070-1072 1076-1077

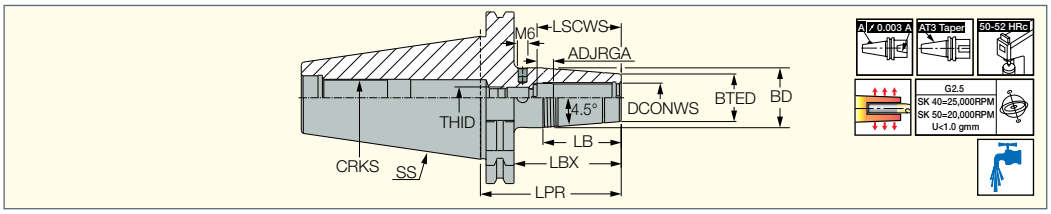
Spare Parts

Designation	
DIN69871 40 SRKIN 6X80	PRESET M5X18B
DIN69871 40 SRKIN 8X80	PRESET M6X20B
DIN69871 40 SRKIN 10X80	PRESET M8X20B
DIN69871 40 SRKIN 12X80	PRESET M10X18B
DIN69871 40 SRKIN 14X80	PRESET M10X18B
DIN69871 40 SRKIN 16X80	PRESET M12X18B
DIN69871 40 SRKIN 18X80	PRESET M12X18B
DIN69871 40 SRKIN 20X80	PRESET M16X20B
DIN69871 40 SRKIN 25X100	PRESET M16X25B
DIN69871 50 SRKIN 6X 80	PRESET M5X18B
DIN69871 50 SRKIN 8X 80	PRESET M6X20B
DIN69871 50 SRKIN 10X 80	PRESET M8X20B
DIN69871 50 SRKIN 12X 80	PRESET M10X18B
DIN69871 50 SRKIN 14X 80	PRESET M10X18B
DIN69871 50 SRKIN 16X 80	PRESET M12X18B
DIN69871 50 SRKIN 18X 80	PRESET M12X18B
DIN69871 50 SRKIN 20X 80	PRESET M16X20B
DIN69871 50 SRKIN 20X 80B	PRESET M16X20B
DIN69871 50 SRKIN 25X100	PRESET M16X25B
DIN69871 50 SRKIN 32X100	PRESET M16X25B

DIN69871
X-STREAM
JET TOOLHOLDING

DIN69871-SRKIN-CX

Thermal Shrink Chucks with DIN69871 Form AD Tapered Shank and Coolant Jet Channels along the Shank Bore



Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	LSCWS	ADJRGA	THID	Key(1)	CRKS	kg
DIN69871 40 SRKIN 6X80 CX	40	6.00	21.00	27.00	80.00	60.90	38.00	34.0	9.50	M5	2.50	M16	0.99
DIN69871 40 SRKIN 8X80 CX	40	8.00	21.00	27.00	80.00	60.90	38.00	34.0	9.50	M6	3.00	M16	1.00
DIN69871 40 SRKIN 10X80CX	40	10.00	24.00	32.00	80.00	60.90	51.00	39.8	9.30	M8	4.00	M16	1.05
DIN69871 40 SRKIN 12X80CX	40	12.00	24.00	32.00	80.00	60.90	51.00	44.8	9.30	M10	5.00	M16	1.05
DIN69871 40 SRKIN 14X80CX	40	14.00	27.00	34.00	80.00	60.90	45.00	44.8	9.30	M10	5.00	M16	1.15
DIN69871 40 SRKIN 16X80CX	40	16.00	27.00	34.00	80.00	60.90	45.00	47.8	9.30	M12	6.00	M16	1.07
DIN69871 40 SRKIN 18X80CX	40	18.00	33.00	42.00	80.00	60.90	57.00	47.8	9.30	M12	6.00	M16	1.21
DIN69871 40 SRKIN 20X80CX	40	20.00	33.00	42.00	80.00	60.90	57.00	49.0	8.50	M16	8.00	M16	1.16
DIN69871 40 SRKIN25X100CX	40	25.00	44.00	53.00	100.00	80.90	57.00	55.0	8.50	M16	8.00	M16	1.71
DIN69871 40 SRKIN32X100CX	40	32.00	44.00	53.00	100.00	80.90	57.00	59.0	8.50	M16	8.00	M16	1.60
DIN69871 50 SRKIN 6X80 CX	50	6.00	21.00	27.00	80.00	61.00	38.00	34.0	9.50	M5	2.50	M24	2.72
DIN69871 50 SRKIN 8X80 CX	50	8.00	21.00	27.00	80.00	60.90	38.00	34.0	9.50	M6	3.00	M24	2.71
DIN69871 50 SRKIN 10X80CX	50	10.00	24.00	32.00	80.00	60.90	51.00	39.8	9.30	M8	4.00	M24	2.81
DIN69871 50 SRKIN 12X80CX	50	12.00	24.00	32.00	80.00	60.90	51.00	44.8	9.30	M10	5.00	M24	2.79
DIN69871 50 SRKIN 14X80CX	50	14.00	27.00	34.00	80.00	60.90	45.00	44.8	9.30	M10	5.00	M24	2.84
DIN69871 50 SRKIN 16X80CX	50	16.00	27.00	34.00	80.00	60.90	45.00	47.8	9.30	M12	6.00	M24	2.76
DIN69871 50 SRKIN 18X80CX	50	18.00	33.00	42.00	80.00	60.90	57.00	47.8	9.30	M12	6.00	M24	2.90
DIN69871 50 SRKIN 20X80CX	50	20.00	33.00	42.00	80.00	60.90	57.00	49.0	8.50	M16	8.00	M24	2.92
DIN69871 50 SRKIN25X100CX	50	25.00	44.00	53.00	100.00	80.90	57.00	55.0	8.50	M16	8.00	M24	3.51
DIN69871 50 SRKIN32X100CX	50	32.00	44.00	53.00	100.00	80.90	57.00	59.0	8.50	M16	8.00	M24	3.36

• Use only inductive heating device for SRKIN holders • Preset screw CX allows supply of coolant via JET channels - do not remove

(1) Hex key size for the rear stopper screw

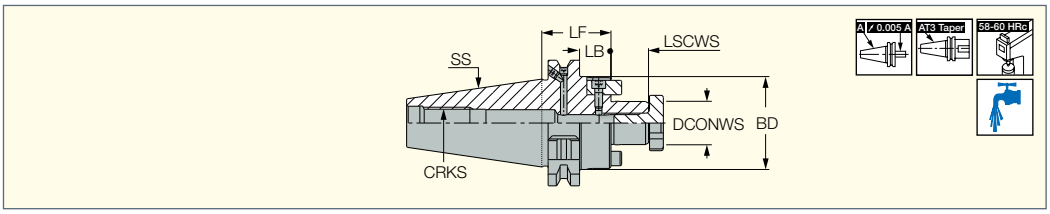
Spare Parts

Designation	
DIN69871 40 SRKIN 6X80 CX	PRESET CX M5X13
DIN69871 40 SRKIN 8X80 CX	PRESET CX M6X12
DIN69871 40 SRKIN 10X80CX	PRESET CX M8X16
DIN69871 40 SRKIN 12X80CX	PRESET CX M10X16
DIN69871 40 SRKIN 14X80CX	PRESET CX M10X16
DIN69871 40 SRKIN 16X80CX	PRESET CX M12X16
DIN69871 40 SRKIN 20X80CX	PRESET CX M16X14
DIN69871 40 SRKIN25X100CX	PRESET CX M16X14
DIN69871 40 SRKIN32X100CX	PRESET CX M16X14
DIN69871 50 SRKIN 6X80 CX	PRESET CX M5X13
DIN69871 50 SRKIN 8X80 CX	PRESET CX M6X12
DIN69871 50 SRKIN 10X80CX	PRESET CX M8X16
DIN69871 50 SRKIN 12X80CX	PRESET CX M10X16
DIN69871 50 SRKIN 14X80CX	PRESET CX M10X16
DIN69871 50 SRKIN 16X80CX	PRESET CX M12X16
DIN69871 50 SRKIN 18X80CX	PRESET CX M12X16
DIN69871 50 SRKIN 20X80CX	PRESET CX M16X14
DIN69871 50 SRKIN25X100CX	PRESET CX M16X14
DIN69871 50 SRKIN32X100CX	PRESET CX M16X14

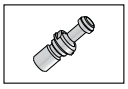
DIN69871

DIN69871-SEM

ISO 3937 Shell Mill Holders
with DIN 69871 Form AD
Taper Shanks



Designation	SS	DCONWS	BD	LF	LSCWS	LB	CRKS	kg
DIN69871 30 SEM16X 35	30	16.00	38.00	35.00	17.00	15.9	M12	0.52
DIN69871 30 SEM22X 50	30	22.00	47.00	50.00	19.00	30.9	M12	0.80
DIN69871 30 SEM27X 50	30	27.00	58.00	50.00	21.00	30.9	M12	0.92
DIN69871 40 SEM16X35	40	16.00	38.00	35.00	17.00	15.9	M16	0.92
DIN69871 40 SEM22X 35	40	22.00	47.00	35.00	19.00	15.9	M16	1.02
DIN69871 40 SEM27X 60	40	27.00	58.00	60.00	21.00	40.9	M16	1.60
DIN69871 40 SEM32X 60	40	32.00	66.00	60.00	24.00	40.9	M16	1.78
DIN69871 40 SEM40X 60	40	40.00	82.00	60.00	27.00	40.9	M16	2.16
DIN69871 50 SEM16X35	50	16.00	38.00	35.00	17.00	15.9	M24	2.70
DIN69871 50 SEM22X 35	50	22.00	47.00	35.00	19.00	15.9	M24	2.80
DIN69871 50 SEM22X50X200	50	22.00	50.00	200.00	19.00	180.9	M24	5.21
DIN69871 50 SEM27X 35	50	27.00	58.00	35.00	21.00	15.9	M24	2.94
DIN69871 50 SEM32X 35	50	32.00	66.00	35.00	24.00	15.9	M24	3.16
DIN69871 50 SEM32X78X370	50	32.00	78.00	370.00	24.00	350.9	M24	15.76
DIN69871 50 SEM40X 50	50	40.00	82.00	50.00	27.00	30.9	M24	3.81
DIN69871 50 SEM50X 60	50	50.00	81.00	60.00	30.00	40.9	M24	4.85



1099-1100

Spare Parts

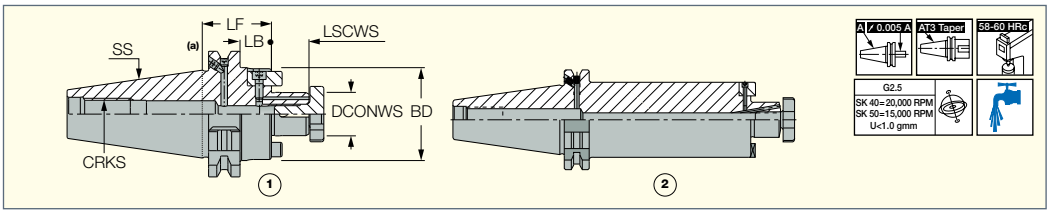
Designation			
DIN69871 30 SEM16X 35	M8 CLAMP SCREW SEM16		WRENCH M8 SEMC16*
DIN69871 30 SEM22X 50	M10 CLAMP SCREW SEM22		WRENCH M10 SEMC 22*
DIN69871 30 SEM27X 50	M12 CLAMP SCREW SEM27		WRENCH M12 SEMC 27*
DIN69871 40 SEM16X35	M8 CLAMP SCREW SEM16		WRENCH M8 SEMC16*
DIN69871 40 SEM22X 35	M10 CLAMP SCREW SEM22		WRENCH M10 SEMC 22*
DIN69871 40 SEM27X 60	M12 CLAMP SCREW SEM27		WRENCH M12 SEMC 27*
DIN69871 40 SEM32X 60	M16 CLAMP SCREW SEM32		WRENCH M16 SEMC 32*
DIN69871 40 SEM40X 60	M20 CLAMP SCREW SEM40		WRENCH M20 SEMC 40*
DIN69871 50 SEM16X35	M8 CLAMP SCREW SEM16		WRENCH M8 SEMC16*
DIN69871 50 SEM22X 35	M10 CLAMP SCREW SEM22		WRENCH M10 SEMC 22*
DIN69871 50 SEM22X50X200	M10 CLAMP SCREW SEM22		WRENCH M10 SEMC 22*
DIN69871 50 SEM27X 35	M12 CLAMP SCREW SEM27	SR M5X14DIN912	WRENCH M12 SEMC 27*
DIN69871 50 SEM32X 35	M16 CLAMP SCREW SEM32	SR M5X14DIN912	WRENCH M16 SEMC 32*
DIN69871 50 SEM32X78X370	M16 CLAMP SCREW SEM32		WRENCH M16 SEMC 32*
DIN69871 50 SEM40X 50	M20 CLAMP SCREW SEM40	SR M6X20 DIN912	WRENCH M20 SEMC 40*
DIN69871 50 SEM50X 60	M24 CLAMP SCREW SEM50		WRENCH M24 SEMC 50*

* Optional, should be ordered separately

DIN69871

DIN69871-SEM-C

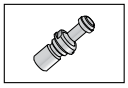
ISO 3937 Shell Mill Holders with Coolant Holes and DIN 69871 Form ADB Tapered Shanks



Designation	SS	DCONWS	BD	LF	LSCWS	LB	CRKS	kg	Fig.
DIN69871 40 SEM16X 35 C	40	16.00	38.00	35.00	17.00	15.9	M16	0.94	1.
DIN69871 40 SEM16X100 C	40	16.00	38.00	100.00	17.00	80.9	M16	1.48	1.
DIN69871 40 SEM22X 35 C	40	22.00	47.00	35.00	19.00	15.9	M16	1.02	1.
DIN69871 40 SEM22X100 C	40	22.00	47.00	100.00	19.00	80.9	M16	0.94	1.
DIN69871 40 SEM27X 60 C	40	27.00	58.00	60.00	21.00	40.9	M16	1.20	1.
DIN69871 40 SEM27X100 C	40	27.00	58.00	100.00	21.00	80.9	M16	2.32	1.
DIN69871 40 SEM32X 60 C	40	32.00	66.00	60.00	24.00	40.9	M16	1.69	1.
DIN69871 50 SEM16X 35 C	50	16.00	38.00	35.00	17.00	15.9	M24	2.68	1.
DIN69871 50 SEM16X100 C	50	16.00	38.00	100.00	17.00	80.9	M24	3.24	1.
DIN69871 50 SEM22X 35 C	50	22.00	47.00	35.00	19.00	15.9	M24	2.77	1.
DIN69871 50 SEM22X100 C	50	22.00	47.00	100.00	19.00	80.9	M24	3.59	1.
DIN69871 50 SEM22X48X200C (1)	50	22.00	48.00	200.00	19.00	181.0	M24	5.00	2.
DIN69871 50 SEM22X61X300C (1)	50	22.00	61.00	300.00	19.00	281.0	M24	8.75	2.
DIN69871 50 SEM27X 35 C	50	27.00	58.00	35.00	21.00	15.9	M24	2.88	1.
DIN69871 50 SEM27X100 C	50	27.00	58.00	100.00	21.00	80.9	M24	4.15	1.
DIN69871 50 SEM27X61X300C (1)	50	27.00	61.00	300.00	21.00	281.0	M24	8.70	2.
DIN69871 50 SEM32X 35 C	50	32.00	66.00	35.00	24.00	15.9	M24	3.00	1.
DIN69871 50 SEM32X100 C	50	32.00	66.00	100.00	24.00	80.9	M24	4.64	1.
DIN69871 50 SEM32X78X370C (1)	50	32.00	78.00	370.00	24.00	351.0	M24	15.42	2.

• (a) If the B type option is required, the plug screw must be removed from the flange cooling hole (use a 2 mm hex key)

(1) Symmetrical design. However, the family's balance values are not guaranteed for this tool



1099-1100

Spare Parts

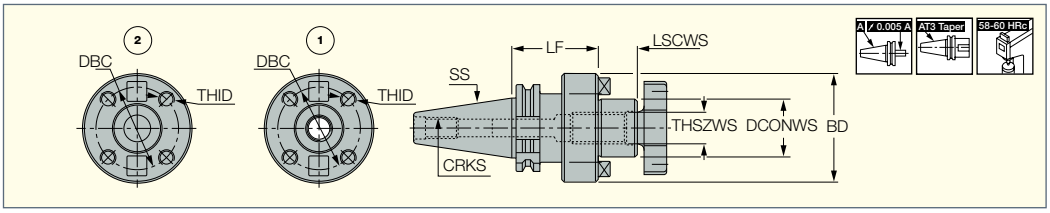
Designation				
DIN69871 40 SEM16X 35 C	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10DIN912
DIN69871 40 SEM16X100 C	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10DIN912
DIN69871 40 SEM22X 35 C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912
DIN69871 40 SEM22X100 C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912
DIN69871 40 SEM27X 60 C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X12 DIN912
DIN69871 40 SEM27X100 C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X12 DIN912
DIN69871 40 SEM32X 60 C	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X13S	SR M5X14DIN912
DIN69871 50 SEM16X 35 C	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10DIN912
DIN69871 50 SEM16X100 C	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10DIN912
DIN69871 50 SEM22X 35 C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912
DIN69871 50 SEM22X100 C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912
DIN69871 50 SEM22X48X200C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912
DIN69871 50 SEM22X61X300C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912
DIN69871 50 SEM27X 35 C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X12 DIN912
DIN69871 50 SEM27X100 C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X12 DIN912
DIN69871 50 SEM27X61X300C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27	DR.DOG 12S	SR M5X12 DIN912
DIN69871 50 SEM32X 35 C	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X13S	SR M5X14DIN912
DIN69871 50 SEM32X100 C	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X13S	SR M5X14DIN912
DIN69871 50 SEM32X78X370C	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X16S	SR M5X20DIN912

* Optional, should be ordered separately

DIN69871

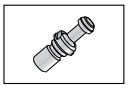
DIN69871-FM

DIN 6357 Face Mill Holders
with DIN 69871 Form A/AD
Taper Shanks



Designation	SS	DCONWS	BD	DBC	LF	LSCWS	THID	THSZWS	CRKS	Fig.	kg
DIN69871 40 FM 40 (1)	40	40.00	88.00	66.70	60.00	27.00	M12	M20	M16	1.	2.25
DIN69871 50 FM 40X70 (1)	50	40.00	88.00	66.70	70.00	27.00	M12	M20	M24	1.	4.87
DIN69871 50 FM 60 (2)	50	60.00	128.00	101.60	70.00	40.00	M16	-	M24	2.	7.32

• Peripheral clamping screws are not supplied.
(1) Form AD
(2) Form A



1099-1100

Spare Parts

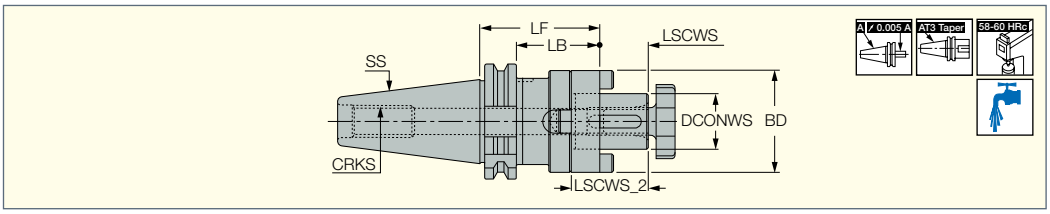
Designation		
DIN69871-FM	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*

* Optional, should be ordered separately

DIN69871

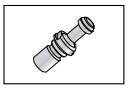
DIN69871-SEMC

DIN 6358 COMBI Shell Mill Holders with DIN 69871 Form AD Taper Shanks



Designation	SS	DCONWS	LF	LSCWS	LB	LSCWS_2	BD	CRKS	kg
DIN69871 30 SEMC 16X 50	30	16.00	50.00	17.00	30.9	27.00	32.00	M12	0.53
DIN69871 30 SEMC 22X 50	30	22.00	50.00	19.00	30.9	31.00	40.00	M12	0.61
DIN69871 30 SEMC 32X 60	30	32.00	60.00	24.00	40.9	38.00	58.00	M12	0.77
DIN69871 40 SEMC 16X 55	40	16.00	55.00	17.00	35.9	27.00	32.00	M16	1.01
DIN69871 40 SEMC 16X100	40	16.00	100.00	17.00	80.9	27.00	32.00	M16	1.30
DIN69871 40 SEMC 22X 55	40	22.00	55.00	19.00	35.9	31.00	40.00	M16	1.05
DIN69871 40 SEMC 22X100	40	22.00	100.00	19.00	80.9	31.00	40.00	M16	1.47
DIN69871 40 SEMC 27X 55	40	27.00	55.00	21.00	35.9	33.00	48.00	M16	1.25
DIN69871 40 SEMC 27X100	40	27.00	100.00	21.00	80.9	33.00	48.00	M16	1.89
DIN69871 40 SEMC 32X 60	40	32.00	60.00	24.00	40.9	38.00	58.00	M16	1.41
DIN69871 40 SEMC 32X100	40	32.00	100.00	24.00	80.9	38.00	58.00	M16	2.24
DIN69871 40 SEMC 40X 60	40	40.00	60.00	27.00	40.9	41.00	70.00	M16	1.63
DIN69871 50 SEMC 16X 55	50	16.00	55.00	17.00	35.9	27.00	32.00	M24	2.80
DIN69871 50 SEMC 16X100	50	16.00	100.00	17.00	80.9	27.00	32.00	M24	3.54
DIN69871 50 SEMC 22X 55	50	22.00	55.00	19.00	35.9	31.00	40.00	M24	2.82
DIN69871 50 SEMC 22X100	50	22.00	100.00	19.00	80.9	31.00	40.00	M24	3.60
DIN69871 50 SEMC 27X 55	50	27.00	55.00	21.00	35.9	33.00	48.00	M24	3.06
DIN69871 50 SEMC 27X100	50	27.00	100.00	21.00	80.9	33.00	48.00	M24	3.82
DIN69871 50 SEMC 32X 55	50	32.00	55.00	24.00	35.9	38.00	58.00	M24	3.23
DIN69871 50 SEMC 32X100	50	32.00	100.00	24.00	80.9	38.00	58.00	M24	4.32
DIN69871 50 SEMC 40X 55	50	40.00	55.00	27.00	35.9	41.00	70.00	M24	3.43
DIN69871 50 SEMC 40X100	50	40.00	100.00	27.00	80.9	41.00	70.00	M24	5.24
DIN69871 50 SEMC 50X 70	50	50.00	70.00	30.00	50.9	46.00	90.00	M24	4.58

• Axial driving key is not supplied.



1099-1100

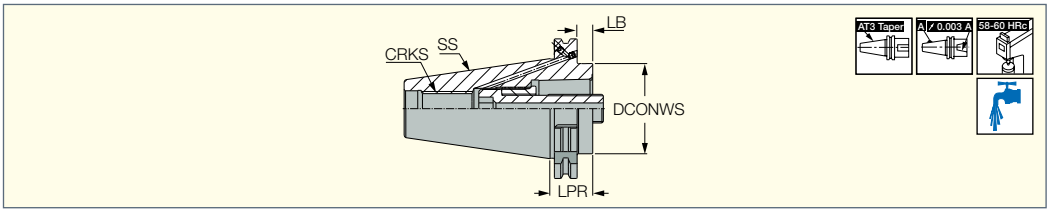
Spare Parts

Designation				
DIN69871 30 SEMC 16X 50	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	KEY SEMC 16 4X4X20
DIN69871 30 SEMC 22X 50	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	KEY SEMC 22 6X6X25
DIN69871 30 SEMC 32X 60	32 D.RING SEMC	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	KEY SEMC 32 8X7X28
DIN69871 40 SEMC 16X 55	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	KEY SEMC 16 4X4X20
DIN69871 40 SEMC 16X100	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	KEY SEMC 16 4X4X20
DIN69871 40 SEMC 22X 55	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	KEY SEMC 22 6X6X25
DIN69871 40 SEMC 22X100	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	KEY SEMC 22 6X6X25
DIN69871 40 SEMC 27X 55	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	KEY SEMC 27 7X7X25
DIN69871 40 SEMC 27X100	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	KEY SEMC 27 7X7X25
DIN69871 40 SEMC 32X 60	32 D.RING SEMC	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	KEY SEMC 32 8X7X28
DIN69871 40 SEMC 32X100	32 D.RING SEMC	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	KEY SEMC 32 8X7X28
DIN69871 40 SEMC 40X 60	40 D.RING SEMC	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	KEY SEMC 40 10X8X32
DIN69871 50 SEMC 16X 55	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	KEY SEMC 16 4X4X20
DIN69871 50 SEMC 16X100	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	KEY SEMC 16 4X4X20
DIN69871 50 SEMC 22X 55	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	KEY SEMC 22 6X6X25
DIN69871 50 SEMC 22X100	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	KEY SEMC 22 6X6X25
DIN69871 50 SEMC 27X 55	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	KEY SEMC 27 7X7X25
DIN69871 50 SEMC 27X100	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	KEY SEMC 27 7X7X25
DIN69871 50 SEMC 32X 55	32 D.RING SEMC	M16 CLAMP SCREW SEM32		KEY SEMC 32 8X7X28
DIN69871 50 SEMC 32X100	32 D.RING SEMC	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	KEY SEMC 32 8X7X28
DIN69871 50 SEMC 40X 55	40 D.RING SEMC	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	KEY SEMC 40 10X8X32
DIN69871 50 SEMC 40X100	40 D.RING SEMC	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	KEY SEMC 40 10X8X32
DIN69871 50 SEMC 50X 70	50 D.RING SEMC	M24 CLAMP SCREW SEM50	WRENCH M24 SEMC 50*	KEY SEMC 50 12X8X36

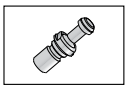
DIN69871 CAMFIX

DIN69871-C#

CAMFIX (ISO 26623-1) Holders with DIN 69871 Form AD/ADB Tapered Shanks



Designation	SS	DCONWS	LPR	CRKS	kg
C4 AD SKA 40X30 ADB	40	40	30.00	M16	0.83
C5 AD SKA 40X30	40	50	30.00	M16	0.80
C5 AD SKA 50X30 ADB	50	50	30.00	M24	2.61
C6 AD SKA 50X30	50	63	30.00	M24	2.55
C8 AD SKA 50X70 ADB	50	80	70.00	M24	3.77



1099-1100

Spare Parts

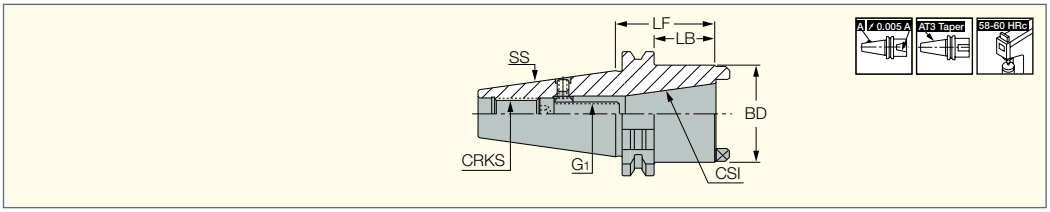
Designation						
C4 AD SKA 40X30 ADB	SR M14X58 C4	HW 8.0*	MT RING M22X17XC4			WRENCH C4 DRW NUT*
C5 AD SKA 40X30	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5			WRENCH C5 DRW NUT*
C5 AD SKA 50X30 ADB	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5	SR M4X4 DIN913	HW 2.0*	WRENCH C5 DRW NUT*
C6 AD SKA 50X30	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8			WRENCH C6-8 DRW NUT*
C8 AD SKA 50X70 ADB	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	SR M4X4 DIN913	HW 2.0*	WRENCH C6-8 DRW NUT*

* Optional, should be ordered separately

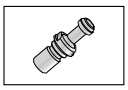
DIN69871

DIN69871-AD

DIN 2080, DIN 69871/A and BT MAS-403 Adapters with DIN 69871 Form A Taper Shanks



Designation	SS	CSI	LF	LB	BD	G1	CRKS	kg
DIN69871 40 AD DIN2080 30	40	DIN2080 30	50.00	30.9	50.00	M12	M16	1.07
DIN69871 50 AD BT/SK 40	50	BT/SK 40	70.00	50.9	66.00	M16	M24	3.40



1099-1100

Spare Parts

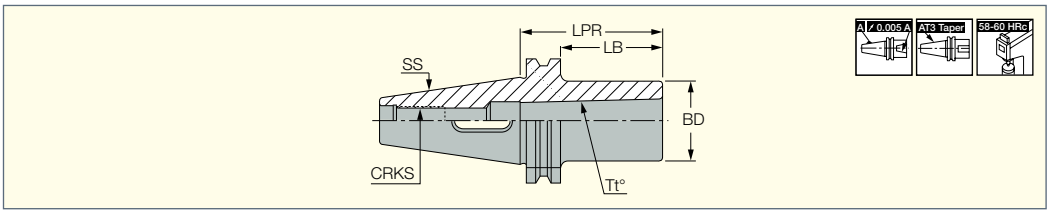
Designation					
DIN69871 40 AD DIN2080 30	SR M6X6DIN914	MT RING M18X9X12.5		HW 3.0*	HW 10.0*
DIN69871 50 AD BT/SK 40	SR M6X10 DIN914	MT RING M24X12X14	HW M16X60 20.9 DIN7984	HW 3.0*	HW 14.0*

* Optional, should be ordered separately

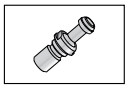
DIN69871

DIN69871-MT

DIN 6383 Morse Taper Adapters with DIN 228-2 Form D Tang and DIN 69871 Form A Taper Shanks



Designation	SS	Tt°	LPR	LB	BD	CRKS	kg
DIN69871 30 MT3X 75	30	MT3	75.00	55.9	40.00	M12	0.52
DIN69871 40 MT1X 50	40	MT1	50.00	30.9	25.00	M16	0.88
DIN69871 40 MT2X 50	40	MT2	50.00	30.9	32.00	M16	0.90
DIN69871 40 MT3X 70	40	MT3	70.00	50.9	40.00	M16	1.04
DIN69871 40 MT4X 95	40	MT4	95.00	75.9	48.00	M16	1.30
DIN69871 50 MT1X 45	50	MT1	45.00	25.9	25.00	M24	2.65
DIN69871 50 MT2X 60	50	MT2	60.00	40.9	32.00	M24	2.72
DIN69871 50 MT3X 65	50	MT3	65.00	45.9	40.00	M24	2.75
DIN69871 50 MT4X 95	50	MT4	95.00	75.9	48.00	M24	3.04
DIN69871 50 MT5X105	50	MT5	105.00	85.9	63.00	M24	3.20

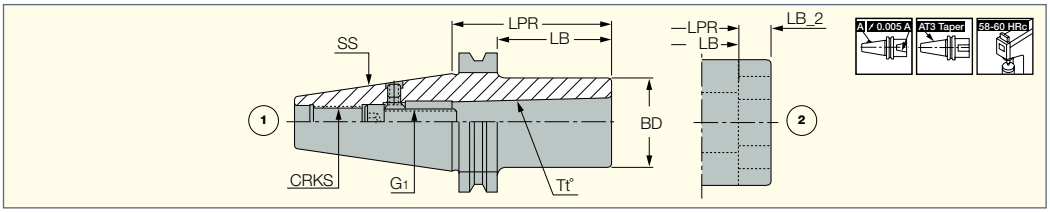


1099-1100

DIN69871

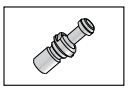
DIN69871-MT-DRW

DIN 6364 Morse Taper Adapters with DIN 228-2 Form B Draw Bar and DIN 69871 Form A Taper Shanks



Designation	SS	Tt°	LPR	LB	LB_2	BD	G_1	CRKS	Fig.	kg
DIN69871 40 MT1 DRW	40	MT1	50.00	30.9	-	25.00	M6	M16	1.	0.90
DIN69871 40 MT2 DRW	40	MT2	50.00	30.9	-	32.00	M10	M16	1.	0.92
DIN69871 40 MT3 DRW	40	MT3	70.00	50.9	-	40.00	M12	M16	1.	1.05
DIN69871 40 MT4 DRW (1)	40	MT4	110.00	90.9	15.00	63.00	M16	M16	2.	2.10
DIN69871 50 MT1 DRW	50	MT1	45.00	25.9	-	25.00	M6	M24	1.	2.67
DIN69871 50 MT2 DRW	50	MT2	60.00	40.9	-	32.00	M10	M24	1.	2.75
DIN69871 50 MT3 DRW	50	MT3	65.00	45.9	-	40.00	M12	M24	1.	2.83
DIN69871 50 MT4 DRW (1)	50	MT4	85.00	65.9	15.00	63.00	M16	M24	2.	3.57
DIN69871 50 MT5 DRW (1)	50	MT5	118.00	98.9	18.00	78.00	M20	M24	2.	4.49

(1) DIN 2201



1099-1100

Spare Parts

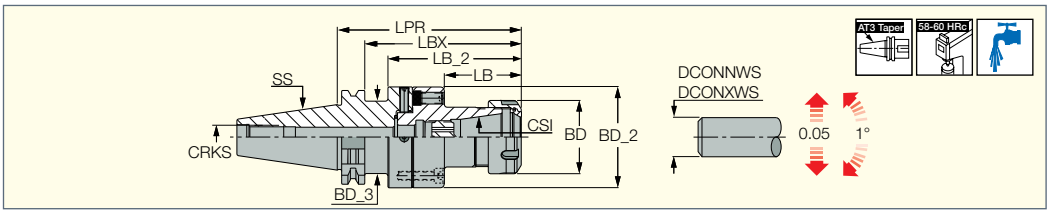
Designation						
DIN69871 40 MT1 DRW	MT RING M16X10X6.5	SR M6X20 DIN912	HW 3.0*			
DIN69871 40 MT2 DRW	MT RING M16X8X8.5	HW M10X25 13.8 DIN7984	HW 3.0*	HW 5.0*		HW M 6X 6(NO HEAD)DIN914
DIN69871 40 MT3 DRW	MT RING M20X10X12.5	SCREW M12X35 DIN7984	HW 3.0*	HW 6.0*		HW M 6X 6(NO HEAD)DIN914
DIN69871 40 MT4 DRW	MT RING M24X1.5X7X16.5	HW M16X40 20.9 DIN7984	HW 3.0*	HW 14.0*		HW M 6X 6(NO HEAD)DIN914
DIN69871 50 MT1 DRW	MT RING M24X14X6.5	SR M6X20 DIN912		HW 5.0*		
DIN69871 50 MT2 DRW	MT RING M24X18X10	SR M10X25 DIN912		HW 5.0*	HW 8.0*	SR M6X10 DIN914
DIN69871 50 MT3 DRW	MT RING M24X16X12	SCREW M12X35 DIN7984	HW 3.0*	HW 5.0*		SR M6X10 DIN914
DIN69871 50 MT4 DRW	MT RING M24X7X16.5	HW M16X35 20.9 DIN7984	HW 3.0*	HW 8.0*		SR M6X10 DIN914
DIN69871 50 MT5 DRW	MT RING M33X13X20.5	SR M20X55DIN7984	HW 3.0*	HW 10.0*		SR M6X10 DIN914

* Optional, should be ordered separately

DIN69871 FINEFIT

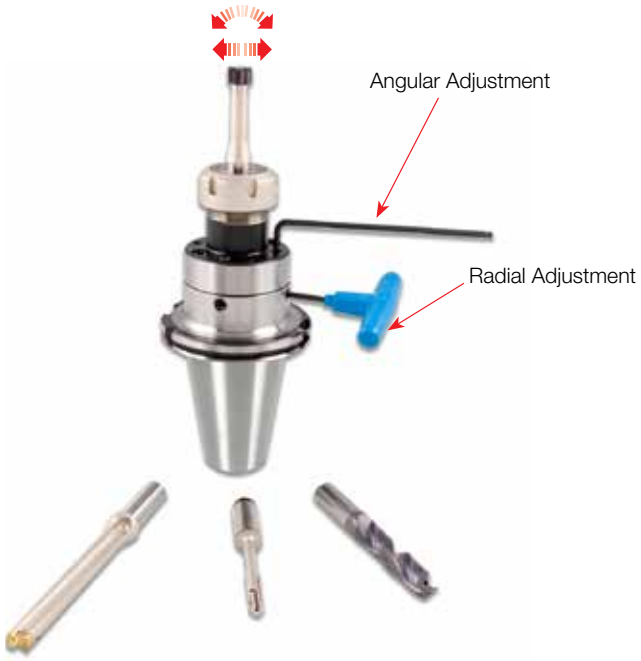
ADJ DIN69871-ER

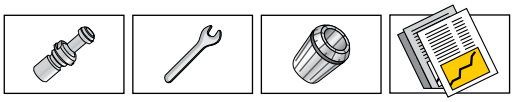
Center Alignment DIN 6499 ER
Collet Chucks with DIN 69871
Form AD/B Taper Shanks



Designation	SS	CSI	DCONNWS(1)	DCONXWS(2)	LPR	LB	LBX	LB_2	BD	BD_2	BD_3	CRKS	kg
ADJ DIN69871 40 D70 ER32	40	ER32	2.0	20.0	124.50	52.50	105.4	89.50	50.00	70.00	46.00	M16	2.36
ADJ DIN69871 50 D70 ER32	50	ER32	2.0	20.0	124.50	52.50	105.4	-	50.00	70.00	-	M24	4.29

• Radial adjustment 0.05 mm Angular adjustment 1°
(1) Minimum diameter
(2) Maximum diameter





1099-1100 | 1102 | 1065-1069 | 932, 1063-1065

Spare Parts

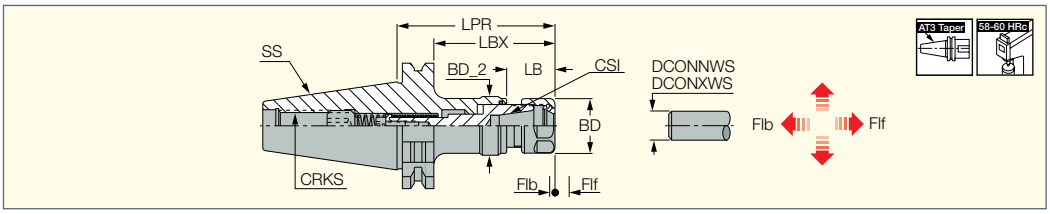
Designation						
ADJ DIN69871-ER	NUT ER32 TOP*	ADJUST SPACER 9.5X5	PRESET ER-JET 22X1.5	SR M8X1X16 DIN916	SR M6X30 DIN912	ADJ ER32 NOSE

* Optional, should be ordered separately

DIN69871 GTI

GTI DIN69871-ER (tapping)

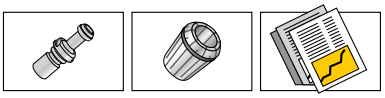
DIN 6499 ER Tapping Attachments with DIN 69871 Form A Tapered Shanks



Designation	SS	CSI	Tap min	Tap max	DCONNWS(1)	DCONXWS(2)	LPR	LBX	LB	BD	BD_2	Flf	Flb	CRKS	kg
GTI DIN69871 40 ER16	40	ER16	M3	M10	0.5	10.0	81.20	62.1	24.60	28.00	29.50	8.0	3.0	M16	2.40
GTI DIN69871 40 ER32	40	ER32	M6	M20	2.0	20.0	111.40	92.3	33.00	50.00	56.50	9.0	4.0	M16	2.28
GTI DIN69871 40 ER40	40	ER40	M6	M28	3.0	26.0	129.40	110.3	51.00	63.00	56.50	9.0	4.0	M16	0.00
GTI DIN69871 50 ER16	50	ER16	M3	M10	0.5	10.0	104.80	85.7	24.60	28.00	29.50	8.0	3.0	M24	2.95
GTI DIN69871 50 ER32	50	ER32	M6	M20	2.0	20.0	113.30	94.4	33.00	50.00	56.50	9.0	4.0	M24	3.90
GTI DIN69871 50 ER40	50	ER40	M6	M28	3.0	26.0	132.40	113.3	51.00	63.00	56.50	9.0	4.0	M24	4.20

(1) Minimum diameter

(2) Maximum diameter



1099-1100 1065-1069 932, 1063-1065

Spare Parts

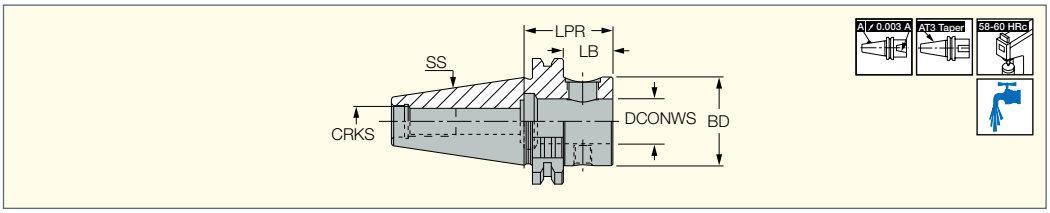
Designation		
GTI DIN69871 40 ER16	NUT ER16 TOP	WRENCH ER16*
GTI DIN69871 40 ER32	NUT ER32 TOP	WRENCH ER32*
GTI DIN69871 40 ER40	NUT ER40 TOP	WRENCH ER40*
GTI DIN69871 50 ER16	NUT ER16 TOP	WRENCH ER16*
GTI DIN69871 50 ER32	NUT ER32 TOP	WRENCH ER32*
GTI DIN69871 50 ER40	NUT ER40 TOP	WRENCH ER40*

* Optional, should be ordered separately

DIN69871 CLICKFIT

DIN69871-CF

DIN69871 Form ADB Tapered Shanks to CLICKFIT Adapters



Designation	SS	DCONWS	LPR	LB	BD	CRKS	kg
DIN69871 40 CF4-S	40	25.00	44.10	25.0	44.50	M16	0.93
DIN69871 40 CF4-L	40	25.00	100.00	80.9	44.50	M16	1.55
DIN69871 50 CF4-S	50	25.00	44.10	25.0	44.50	M24	2.70
DIN69871 50 CF4-S B (1)	50	25.00	44.10	25.0	44.50	M24	2.73
DIN69871 50 CF4-L	50	25.00	100.00	80.9	44.50	M24	3.54
DIN69871 50 CF4-L B (1)	50	25.00	100.00	80.9	44.50	M24	3.52

• Tightening torque: 6 Kgxm

(1) B for coolant through flange.

1099-1100 928 1046

Spare Parts

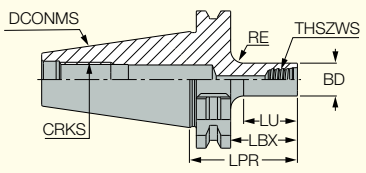
Designation				
DIN69871-CF	SCREW M16X1.5 FOR CF4	WRENCH HW 8 200X36 DIN911	OR 15X3N	WRENCH REAL C.F M8

MULTI-MASTER

DIN69871

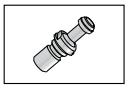
MM S-A-SK

DIN 69871 Integral Tapered Shanks
for MULTI-MASTER Milling Heads



Designation	DCONMS	CRKS	THSZWS	BD	LPR	LBX	LU	RE
MM S-A-H040-SK 40-T06	40.00	M16	T06	9.25	40.00	21.0	15.00	6.0
MM S-A-H045-SK 40-T08	40.00	M16	T08	11.60	45.00	26.0	20.00	6.0
MM S-A-H050-SK 40-T10	40.00	M16	T10	15.30	50.00	31.0	25.00	6.0
MM S-A-H050-SK 40-T12	40.00	M16	T12	18.30	50.00	31.0	25.00	6.0
MM S-A-H050-SK 40-T15	40.00	M16	T15	23.90	50.00	31.0	25.00	6.0

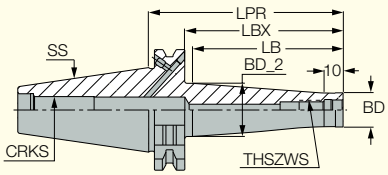
• Do not apply lubricant to the threaded connection • For adaptation, see page 39


1099-1100

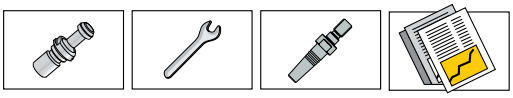
DIN69871 FLEXFIT

DIN69871-ODP

FLEXFIT Threaded Connection
Shanks with Integral DIN69871
Form ADB Taper Adaptation



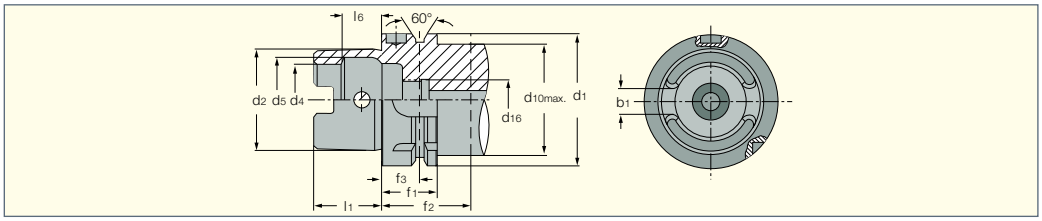
Designation	SS	THSZWS	BD	BD_2	LPR	LBX	LB	CRKS	kg
DIN69871 40 ODP 6X58	40	M06	9.80	13.00	58.00	38.9	30.00	M16	0.82
DIN69871 40 ODP 6X98	40	M06	9.80	23.00	98.00	78.9	70.00	M16	0.91
DIN69871 40 ODP 8X58	40	M08	13.10	15.00	58.00	38.9	30.00	M16	0.82
DIN69871 40 ODP 8X98	40	M08	13.10	23.00	98.00	78.9	70.00	M16	0.92
DIN69871 40 ODP10X58	40	M10	18.00	20.00	58.00	38.9	30.00	M16	0.84
DIN69871 40 ODP10X98	40	M10	18.00	28.00	98.00	78.9	70.00	M16	1.00
DIN69871 40 ODP12X58	40	M12	21.00	24.00	58.00	38.9	30.00	M16	0.88
DIN69871 40 ODP12X98	40	M12	21.00	31.00	98.00	78.9	70.00	M16	1.07
DIN69871 40 ODP16X58	40	M16	29.00	28.60	58.00	38.9	35.00	M16	0.91
DIN69871 40 ODP16X98	40	M16	29.00	34.00	98.00	78.9	70.00	M16	1.15
DIN69871 50 ODP12X 78	50	M12	23.00	30.00	78.00	58.9	50.00	M24	2.74
DIN69871 50 ODP12X128	50	M12	23.00	40.00	128.00	108.9	100.00	M24	3.14
DIN69871 50 ODP12X178	50	M12	23.00	40.00	178.00	158.9	150.00	M24	3.38
DIN69871 50 ODP12X228	50	M12	23.00	46.00	228.00	208.9	200.00	M24	4.14
DIN69871 50 ODP16X 78	50	M16	29.00	34.00	78.00	58.9	50.00	M24	2.95
DIN69871 50 ODP16X128	50	M16	29.00	40.00	128.00	108.9	100.00	M24	3.20
DIN69871 50 ODP16X178	50	M16	29.00	55.00	178.00	158.9	150.00	M24	4.08
DIN69871 50 ODP16X228	50	M16	29.00	55.00	228.00	208.9	200.00	M24	4.64


1099-1100 1102 1046-1048 1044

DIN 69893 HSK A / E

HSK DIN 69893 (ISO 12164-1 Standard)

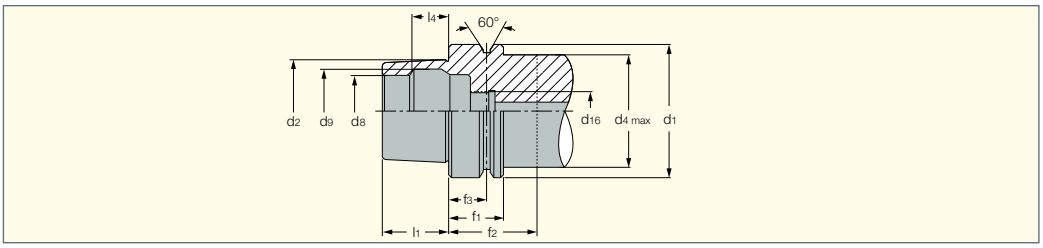
DIN 69893 Form A



HSK-A	d1 h10	d2	d4 H10	d5 H11	d10 max	d16	l1 -0.2	l6 Js10	b1 ±0.04(1)	f1 -0.1	f2 min	f3 ±0.1
40	40	30	21	25.5	34	M12x1	20	11.42	8.05	20	35	16
50	50	38	26	32.0	42	M16x1	25	14.13	10.54	26	42	18
63	63	48	34	40.0	53	M18x1	32	18.13	12.54 (12.42)	26	42	18
80	80	60	42	50.0	67	M20x1.5	40	22.85	16.04	26	42	18
100	100	75	53	63.0	85	M24x1.5	50	28.56	20.02 (19.9)	29	45	20

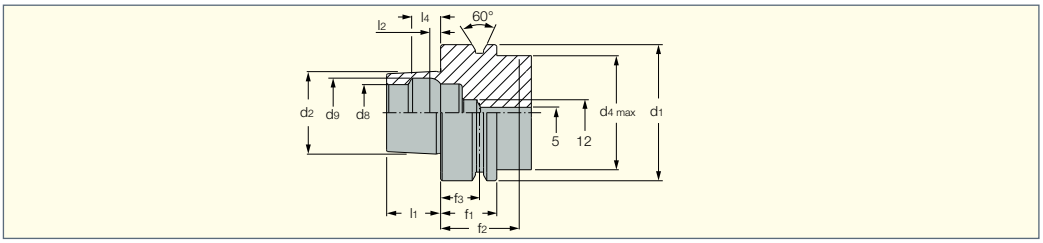
(1) The dimensions in parentheses refer to dimension b1 only for HSK A...WH tools. These tools feature key slot gap and tolerance, used on turning tools for accurate cutting edge height position, (according to Japanese ICTM standard and ISO 12164/3 standard).

DIN 69893 Form E



HSK-E	d1 h10	d2	d4 max	d8 H10	d9 H11	d16	l1 -0.2	L4 Js10	f1 -0.1	f2 min	f3 ±0.1
32	32	24	26	17	19	M10X1	16	8.92	20	35	16
40	40	30	34	21	25.5	M12X1	20	11.42	20	35	16
50	50	38	42	26	32.0	M16X1	25	14.13	26	42	18
63	63	48	53	34	40.0	M18X1	32	18.13	26	42	18

DIN 69893 Form F (1)



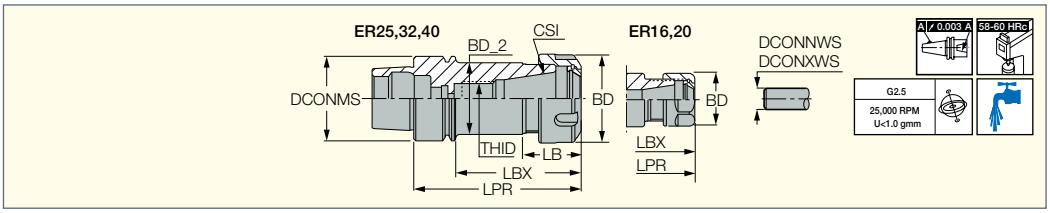
HSK-F	d1 h10	d2	d4 max	d8 H10	d9 H11	l1 -0.2	l2	l4 Js10	f1 -0.1	f2 min	f3 ±0.1
63	63	38	53	26	32	25	5.0	14.13	26	42	18

(1) Without crosshole.

HSK

HSK E-ER

DIN6499 ER Collet Chucks with HSK DIN69893 Form E Tapered Shanks

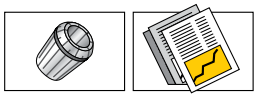


Designation	DCONMS	CSI	DCONNWS(2)	DCONXWS	BD	BD_2	LPR	LBX	LB	THID	kg
HSK E32 ER16X60	32.00	ER16	0.5	10.0	28.00	22.40	60.00	40.0	21.50	M10x1-6H	0.22
HSK E32 ER20X60	32.00	ER20	1.0	13.0	34.00	25.40	60.00	40.0	26.00	M10x1-6H	0.18
HSK E32 ER25X65	32.00	ER25	1.0	16.0	42.00	25.80	65.00	45.0	30.00	M10x1-6H	0.20
HSK E40 ER16X60	40.00	ER16	0.5	10.0	28.00	28.00	60.00	40.0	27.10	M12X1-6H	0.28
HSK E40 ER16X80	40.00	ER16	0.5	10.0	28.00	28.00	80.00	60.0	27.10	M10x1.5-6H	0.36
HSK E40 ER20X80	40.00	ER20	1.0	13.0	34.00	33.80	80.00	60.0	28.00	M12	0.44
HSK E40 ER25X80	40.00	ER25	1.0	16.0	42.00	33.80	80.00	60.0	28.00	M18X1.5	0.42
HSK E40 ER32X80	40.00	ER32	2.0	20.0	50.00	40.10	80.00	60.0	31.00	M22X1.5	0.41
HSK E50 ER16X100	50.00	ER16	0.5	10.0	28.00	28.00	100.00	74.0	27.00	M10	0.64
HSK E50 ER16X100M (1)	50.00	ER16	0.5	10.0	22.00	22.00	100.00	74.0	25.60	M10	0.55
HSK E50 ER16X80	50.00	ER16	0.5	10.0	28.00	28.00	80.00	54.0	27.10	M10	0.55
HSK E50 ER20X80	50.00	ER20	1.0	13.0	34.00	34.00	80.00	54.0	28.00	M12	0.60
HSK E50 ER25X80	50.00	ER25	1.0	16.0	42.00	32.40	80.00	54.0	28.00	M16	0.71
HSK E50 ER32X100	50.00	ER32	2.0	20.0	50.00	40.00	100.00	74.0	31.00	M22X1.5	0.78
HSK E50 ER32X80	50.00	ER32	2.0	20.0	50.00	40.00	80.00	54.0	31.00	M16X1-6H	0.63
HSK E63 ER16X100	63.00	ER16	0.5	10.0	28.00	28.00	100.00	74.0	27.10	M10	0.91
HSK E63 ER16X80	63.00	ER16	0.5	10.0	28.00	28.00	80.00	54.0	27.10	M10	0.92
HSK E63 ER20X75	63.00	ER20	1.0	13.0	34.00	34.00	75.00	49.0	28.00	M18X1-6H	0.90
HSK E63 ER32X100	63.00	ER32	2.0	20.0	50.00	50.00	100.00	75.0	36.00	M22X1.5	1.28
HSK E63 ER32X80 *	63.00	ER32	2.0	20.0	50.00	40.40	80.00	54.0	31.00	M18X1-6H	0.91
HSK E63 ER40X80	63.00	ER40	3.0	26.0	63.00	50.00	80.00	54.0	34.00	M18X1-6H	0.99

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

(1) Equipped with nut ER 16 MINI.

(2) Minimum diameter



1065-1069 1063-1065

Spare Parts

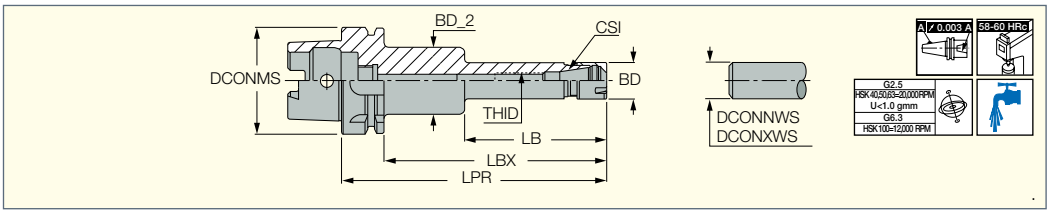
Designation							
HSK E32 ER16X60	NUT ER16 TOP		WRENCH ER16*				
HSK E32 ER20X60	NUT ER20 TOP		WRENCH ER20*				
HSK E32 ER25X65	NUT ER25 TOP		WRENCH ER25*				
HSK E40 ER16X60	NUT ER16 TOP		WRENCH ER16*			COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 ER16X80	NUT ER16 TOP		WRENCH ER16*		PRESET ER-JET 10X1.5*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 ER20X80	NUT ER20 TOP		WRENCH ER20*		PRESET ER-JET 12X1.75*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 ER25X80	NUT ER25 TOP		WRENCH ER25*		PRESET ER-JET 18X1.5*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 ER32X80	NUT ER32 TOP		WRENCH ER32*		PRESET ER-JET 22X1.5*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E50 ER16X100	NUT ER16 TOP		WRENCH ER16*		PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 ER16X100M		NUT ER16 MINI		WRENCH ER16 MINI*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 ER16X80	NUT ER16 TOP		WRENCH ER16*		PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 ER20X80	NUT ER20 TOP		WRENCH ER20*		PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 ER25X80	NUT ER25 TOP		WRENCH ER25*			COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 ER32X100	NUT ER32 TOP		WRENCH ER32*		PRESET ER-JET 22X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 ER32X80	NUT ER32 TOP		WRENCH ER32*			COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E63 ER16X100	NUT ER16 TOP		WRENCH ER16*		PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK E63 ER16X80	NUT ER16 TOP		WRENCH ER16*		PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK E63 ER20X75	NUT ER20 TOP		WRENCH ER20*			COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK E63 ER32X100	NUT ER32 TOP		WRENCH ER32*		PRESET ER-JET 22X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK E63 ER32X80 *	NUT ER32 TOP		WRENCH ER32*			COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK E63 ER40X80	NUT ER40 TOP		WRENCH ER40*			COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*

* Optional, should be ordered separately

HSK

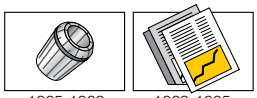
HSK A-ER-M (mini)

DIN6499 ER Mini Collet
Chucks with HSK DIN69893
Form A Tapered Shanks



Designation	DCONMS	CSI	DCONNWS(1)	DCONXWS(2)	BD	BD_2	LPR	LBX	LB	THID	kg
HSK A50 ER16X100M	50.00	ER16	0.5	10.0	22.00	-	100.00	74.0	-	M10	0.50
HSK A50 ER20X100M	50.00	ER20	1.0	13.0	28.00	-	100.00	74.0	-	M12	0.61
HSK A63 ER16X100M	63.00	ER16	0.5	10.0	22.00	-	100.00	74.0	-	M10	0.80
HSK A63 ER16X120M	63.00	ER16	0.5	10.0	22.00	40.00	120.00	94.0	78.00	M10	0.94
HSK A63 ER16X160M	63.00	ER16	0.5	10.0	22.00	40.00	160.00	134.0	85.00	M10	1.26
HSK A63 ER20X100M	63.00	ER20	1.0	13.0	28.00	-	100.00	74.0	-	M12	0.85
HSK A63 ER20X120M	63.00	ER20	1.0	13.0	28.00	-	120.00	94.0	-	M12	0.92
HSK A63 ER20X160M	63.00	ER20	1.0	13.0	28.00	45.00	160.00	134.0	85.00	M12	1.46
HSK A100 ER16X100M	100.00	ER16	0.5	10.0	22.00	-	100.00	71.0	-	M10	2.16
HSK A100 ER16X160M	100.00	ER16	0.5	10.0	22.00	40.00	160.00	131.0	85.00	M10	2.65
HSK A100 ER20X100M	100.00	ER20	1.0	13.0	28.00	-	100.00	71.0	-	M12	2.22
HSK A100 ER20X160M	100.00	ER20	1.0	13.0	28.00	50.00	160.00	131.0	85.00	M12	2.82

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).
(1) Minimum diameter
(2) Maximum diameter


1065-1069 1063-1065

Spare Parts

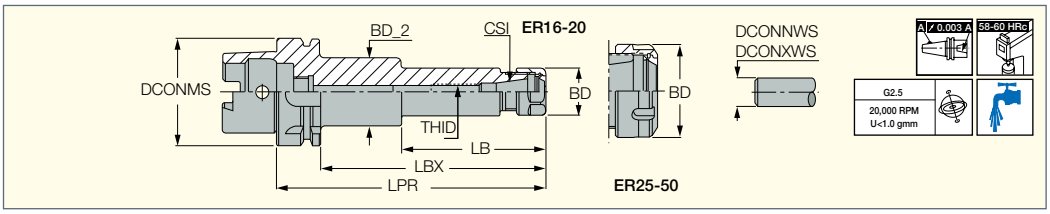
Designation					
HSK A50 ER16X100M	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 ER20X100M	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A63 ER16X100M	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER16X120M	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER16X160M	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER20X100M	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER20X120M	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER20X160M	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 ER16X100M	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER16X160M	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER20X100M	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER20X160M	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

HSK

HSK A-ER

DIN6499 ER Collet Chucks
with HSK DIN69893 Form A
Tapered Shanks

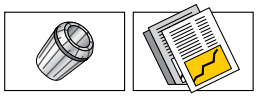


Designation	DCONMS	CSI	DCONNWS(1)	DCONXWS(2)	BD	BD_2	LPR	LBX	LB	THID	kg
HSK A40 ER16X60	40.00	ER16	0.5	10.0	28.00	-	60.00	40.0	-	-	0.27
HSK A40 ER16X80	40.00	ER16	0.5	10.0	28.00	-	80.00	60.0	-	M10	0.36
HSK A40 ER25X100	40.00	ER25	1.0	16.0	42.00	32.40	100.00	80.0	28.00	M16	0.49
HSK A40 ER25X60	40.00	ER25	1.0	16.0	42.00	32.40	60.00	40.0	28.00	-	0.41
HSK A40 ER25X80	40.00	ER25	1.0	16.0	42.00	32.40	80.00	60.0	28.00	M18X1.5	0.50
HSK A40 ER32X100	40.00	ER32	2.0	20.0	50.00	40.40	100.00	80.0	31.00	M22X1.5	0.58
HSK A50 ER16X100	50.00	ER16	0.5	10.0	28.00	-	100.00	74.0	-	M10	0.61
HSK A50 ER20X100	50.00	ER20	1.0	13.0	34.00	-	100.00	74.0	-	M12	0.70
HSK A50 ER20X120	50.00	ER20	1.0	13.0	34.00	-	120.00	94.0	-	M12	0.84
HSK A50 ER25X100	50.00	ER25	1.0	16.0	42.00	41.80	100.00	74.0	28.50	M16	0.79
HSK A50 ER25X80	50.00	ER25	1.0	16.0	42.00	32.40	80.00	54.0	28.00	M8	0.53
HSK A50 ER32X100	50.00	ER32	2.0	20.0	50.00	40.40	100.00	74.0	31.00	M22X1.5	0.76
HSK A50 ER32X120	50.00	ER32	2.0	20.0	50.00	41.80	120.00	94.0	35.00	M22X1.5	0.96
HSK A50 ER32X160	50.00	ER32	2.0	20.0	50.00	40.00	160.00	134.0	-	M22X1.5	1.00
HSK A63 ER16X100	63.00	ER16	0.5	10.0	28.00	-	100.00	74.0	-	M10	0.86
HSK A63 ER16X120	63.00	ER16	0.5	10.0	28.00	-	120.00	94.0	-	M10	0.96
HSK A63 ER16X160	63.00	ER16	0.5	10.0	28.00	40.00	160.00	134.0	85.60	M10	1.38
HSK A63 ER20X100	63.00	ER20	1.0	13.0	34.00	-	100.00	74.0	-	M12	0.94
HSK A63 ER20X120	63.00	ER20	1.0	13.0	34.00	-	120.00	94.0	-	M12	1.09
HSK A63 ER20X160	63.00	ER20	1.0	13.0	34.00	45.00	160.00	134.0	85.00	M12	1.59
HSK A63 ER25X100	63.00	ER25	1.0	16.0	42.00	-	100.00	74.0	-	M16	1.10
HSK A63 ER25X120	63.00	ER25	1.0	16.0	42.00	-	120.00	94.0	-	M16	1.29
HSK A63 ER25X160	63.00	ER25	1.0	16.0	42.00	-	160.00	134.0	-	M16	1.68
HSK A63 ER25X80	63.00	ER25	1.0	16.0	42.00	-	80.00	54.0	-	M8	0.92
HSK A63 ER32X100	63.00	ER32	2.0	20.0	50.00	-	100.00	74.0	-	M22X1.5	1.18
HSK A63 ER32X120	63.00	ER32	2.0	20.0	50.00	-	120.00	94.0	-	M22X1.5	1.46
HSK A63 ER32X160	63.00	ER32	2.0	20.0	50.00	-	160.00	134.0	-	M22X1.5	1.99
HSK A63 ER32X80	63.00	ER32	2.0	20.0	50.00	40.40	80.00	54.0	31.00	-	0.84
HSK A63 ER40X 80	63.00	ER40	3.0	26.0	63.00	50.40	80.00	54.0	34.00	-	0.92
HSK A63 ER40X100	63.00	ER40	3.0	26.0	63.00	50.40	100.00	74.0	34.00	M28X1.5	1.16
HSK A63 ER40X120	63.00	ER40	3.0	26.0	63.00	50.40	120.00	94.0	34.00	M28X1.5	1.38
HSK A63 ER40X160	63.00	ER40	3.0	26.0	63.00	50.40	160.00	134.0	34.00	M28X1.5	1.99
HSK A100 ER16X100	100.00	ER16	0.5	10.0	28.00	-	100.00	71.0	-	M10	2.21
HSK A100 ER16X160	100.00	ER16	0.5	10.0	28.00	40.00	160.00	131.0	85.00	M10	2.71
HSK A100 ER20X100	100.00	ER20	1.0	13.0	34.00	-	100.00	71.0	-	M12	2.29
HSK A100 ER20X160	100.00	ER20	1.0	13.0	34.00	50.00	160.00	131.0	85.00	M12	3.08
HSK A100 ER25X100	100.00	ER25	1.0	16.0	42.00	-	100.00	71.0	-	M16	2.47
HSK A100 ER25X120	100.00	ER25	1.0	16.0	42.00	-	120.00	91.0	-	M16	2.65
HSK A100 ER25X160	100.00	ER25	1.0	16.0	42.00	-	160.00	134.0	-	M16	3.02
HSK A100 ER32X100	100.00	ER32	2.0	20.0	50.00	-	100.00	71.0	-	M22X1.5	2.69
HSK A100 ER32X120	100.00	ER32	2.0	20.0	50.00	-	120.00	91.0	-	M22X1.5	2.80
HSK A100 ER32X160	100.00	ER32	2.0	20.0	50.00	-	160.00	131.0	-	M22X1.5	3.32
HSK A100 ER40X100	100.00	ER40	3.0	26.0	63.00	-	100.00	71.0	-	-	2.80
HSK A100 ER40X120	100.00	ER40	3.0	26.0	63.00	-	120.00	91.0	-	M28X1.5	3.17
HSK A100 ER40X160	100.00	ER40	3.0	26.0	63.00	-	160.00	131.0	-	M28X1.5	4.08
HSK A100 ER50X100	100.00	ER50	10.0	34.0	78.00	-	100.00	71.0	-	M22X1.5	2.88

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

(1) Minimum diameter

(2) Maximum diameter



1065-1069 1063-1065

HSK A-ER

Spare Parts

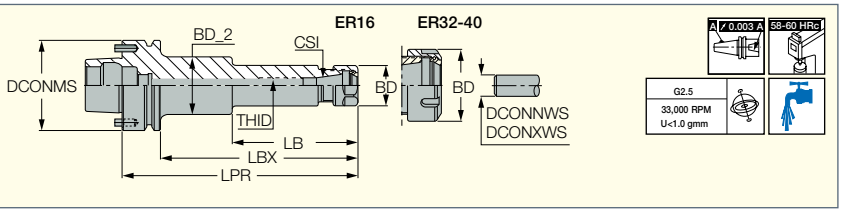
Designation					
HSK A40 ER16X60	NUT ER16 TOP	WRENCH ER16*		COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK A40 ER16X80	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK A40 ER25X100	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK A40 ER25X60	NUT ER25 TOP	WRENCH ER25*		COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK A40 ER25X80	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 18X1.5*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK A40 ER32X100	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK A50 ER16X100	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 ER20X100	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 ER20X120	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 ER25X100	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 ER25X80	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 ER32X100	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 ER32X120	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 ER32X160	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A63 ER16X100	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER16X120	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER16X160	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER20X100	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER20X120	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER20X160	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER25X100	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER25X120	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER25X160	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER25X80	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 8X1.25*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER32X100	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER32X120	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER32X160	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER32X80	NUT ER32 TOP	WRENCH ER32*		COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER40X 80	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER40X100	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER40X120	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ER40X160	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 ER16X100	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER16X160	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER20X100	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER20X160	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER25X100	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER25X120	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER25X160	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER32X100	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER32X120	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER32X160	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER40X100	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER40X120	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER40X160	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER50X100	NUT ER50 UM	WRENCH ER50*		COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

HSK

HSK FM-ER

DIN6499 ER Collet Chucks with HSK DIN69893 FM Tapered Shanks with Two Pins for MAKINO Machine Models MAG

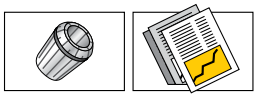


Designation	DCONMS	CSI	LPR	DCONNWS[2]	DCONXWS	BD	BD_2	LBX	LB	THID	kg
HSK FM63 ER16X80 [1]	63.00	ER16	80.00	0.5	10.0	28.00	-	54.0	-	M10	0.81
HSK FM63 ER16X100 [1]	63.00	ER16	100.00	0.5	10.0	28.00	-	74.0	-	M10	0.87
HSK FM63 ER16X120 [1]	63.00	ER16	120.00	0.5	10.0	28.00	-	94.0	-	M10	0.98
HSK FM63 ER16X160 [1]	63.00	ER16	160.00	0.5	10.0	28.00	40.00	134.0	85.60	M10	1.32
HSK FM63 ER32X80 [1]	63.00	ER32	80.00	2.0	20.0	50.00	-	54.0	-	-	0.96
HSK FM63 ER32X100 [1]	63.00	ER32	100.00	2.0	20.0	50.00	-	74.0	-	M22X1.5	1.19
HSK FM63 ER40X80	63.00	ER40	80.00	3.0	26.0	63.00	50.00	54.0	32.00	-	0.94
HSK FM63 ER40X100 [1]	63.00	ER40	100.00	3.0	26.0	63.00	50.00	74.0	32.00	M22X1.5	1.16
HSK FM80 ER16X85	80.00	ER16	85.00	0.5	10.0	28.00	-	59.0	-	M10	3.00
HSK FM80 ER16X120	80.00	ER16	120.00	0.5	10.0	28.00	-	94.0	-	M10	3.70
HSK FM80 ER20X85	80.00	ER20	85.00	1.0	13.0	34.00	-	59.0	-	M8	3.00
HSK FM80 ER20X120	80.00	ER20	120.00	1.0	13.0	34.00	-	94.0	-	M12	3.70
HSK FM80 ER32X85	80.00	ER32	85.00	2.0	20.0	50.00	-	59.0	-	M8	3.00
HSK FM80 ER32X120	80.00	ER32	120.00	2.0	20.0	50.00	-	94.0	-	M22X1.5	3.70

• Used on Makino machine models MAG • The anti-slip pins can be removed, turning the toolholders into a standard HSK F63 type • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately)

[1] Please check availbility

[2] Minimum diameter



1065-1069 1063-1065

Spare Parts

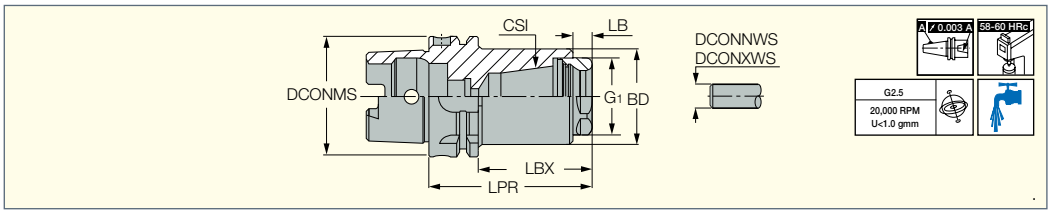
Designation					
HSK FM63 ER16X80	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 ER16X100	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 ER16X120	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 ER16X160	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 ER32X80	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 ER32X100	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 ER40X80	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 16X2*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 ER40X100	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM80 ER16X85	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK FM80 ER16X120	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK FM80 ER20X85	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 8X1.25*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK FM80 ER20X120	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK FM80 ER32X85	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 8X1.25*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK FM80 ER32X120	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*

* Optional, should be ordered separately

SHORTIN HSK

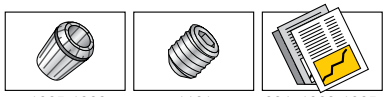
HSK A-ER-SHORT

Short DIN6499 ER Collet Chucks with HSK DIN69893 Form A Tapered Shanks



Designation	DCONMS	CSI	DCONNWS(1)	DCONXWS	BD	LPR	LBX	LB	G1	kg
HSK A63 ER32 SHORT	63.00	ER32	2.0	20.0	50.00	81.00	55.0	9.50	M40X1.5	1.13
HSK A100 ER32 SHORT	100.00	ER32	2.0	20.0	50.00	89.50	60.5	9.50	M40X1.5	2.54
HSK A100 ER40 SHORT	100.00	ER40	3.0	26.0	70.00	104.50	75.5	9.50	M50X1.5	3.51

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).
(1) Minimum diameter



1065-1069 | 1101 | 934, 1063-1065

Spare Parts

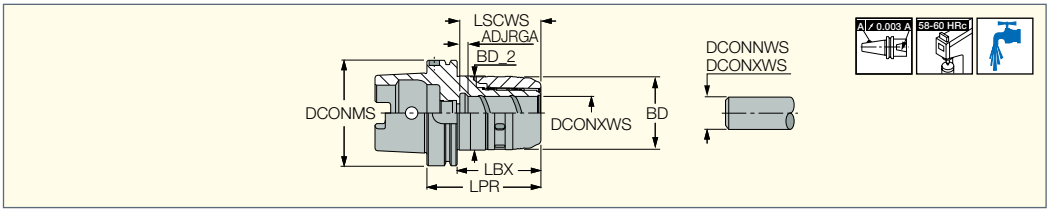
Designation				
HSK A63 ER32 SHORT	NUT ER32 SHORT	WRENCH ER32 SHORT*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 ER32 SHORT	NUT ER32 SHORT	WRENCH ER32 SHORT*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ER40 SHORT	NUT ER40 SHORT	WRENCH ER40 SHORT*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

MAXIN HSK

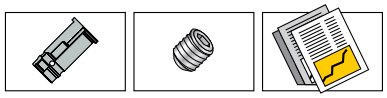
HSK A-MAXIN

Power Chucks with HSK DIN69893 Form A Tapered Shanks



Designation	DCONMS	DCONXWS(1)	DCONNWS(2)	BD	BD_2	LPR	LBX	ADJRGA	LSCWS	kg
HSK A63 MAXIN20X95	63.00	20.00	6.0	51.00	53.00	95.00	69.0	9.50	65.5	1.02
HSK A63 MAXIN32X113	63.00	32.00	6.0	69.00	70.00	113.00	87.0	15.00	85.0	1.32
HSK A100 MAXIN20X115	100.00	20.00	6.0	51.00	53.00	115.00	86.0	13.00	69.0	2.61
HSK A100 MAXIN32X110	100.00	32.00	6.0	69.00	70.00	110.00	81.0	8.00	78.0	2.72
HSK A100 MAXIN32X135	100.00	32.00	6.0	69.00	70.00	135.00	106.0	16.00	87.0	3.45

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Use of DCONXWS diameter tools provide best performance as collets reduce gripping force by 25%.
(1) Max. diameter without a collet
(2) Minimum diameter by using a reduction collet



1082, 1104 | 1102 | 930-931

Spare Parts

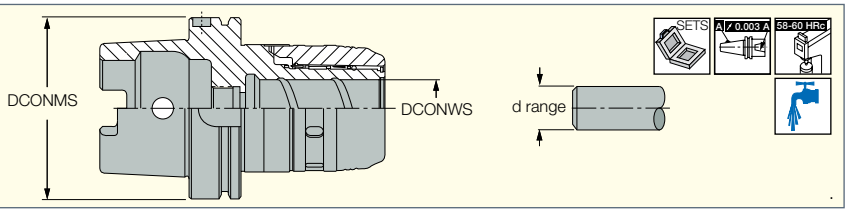
Designation				
HSK A63 MAXIN20X95	WRENCH MAXIN 20 HOOK*	EXTRACTOR SC COLLETS*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 MAXIN32X113	WRENCH MAXIN 32 HOOK*	EXTRACTOR SC COLLETS*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 MAXIN20X115	WRENCH MAXIN 20 HOOK*	EXTRACTOR SC COLLETS*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 MAXIN32X135	WRENCH MAXIN 32 HOOK*	EXTRACTOR SC COLLETS*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

MAXIN KIT HSK

KIT HSK A-MAXIN

Contains a Power Chuck with HSK Tapered Shanks and a Set of Collets in Various Bore Sizes



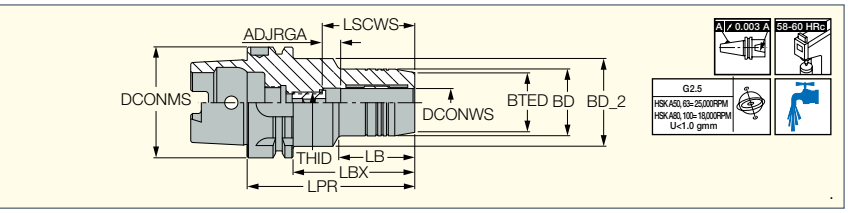
Designation	DCONMS	DCONWS	Qty	d Range
KIT HSK A63 MAXIN20X95-6	63	20.00	6	6,8,10,12,14,16
KIT HSK A63MAXIN32X113-7	63	32.00	7	6,8,10,12,16,20,25
KIT HSK A100MAXIN20X115-6	100	20.00	6	6,8,10,12,14,16

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Each kit contains one power chuck, a set of SC-SPR collets, extraction hook and wrench.

HYDROFIT HSK HOLDING LINE

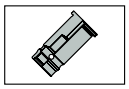
HSK A-HYDRO

Hydraulic Chucks with HSK DIN69893 Form A Tapered Shanks



Designation	DCONMS	DCONWS	BTED	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	THID	kg
HSK A50 HYDRO 6X80	50.00	6.00	23.00	26.00	42.00	80.00	54.0	35.00	10.00	37.0	M5	0.75
HSK A50 HYDRO 8X80	50.00	8.00	25.00	28.00	42.00	80.00	54.0	36.00	10.00	37.0	M6	0.77
HSK A50 HYDRO 10X85	50.00	10.00	27.00	30.00	42.00	85.00	59.0	41.00	10.00	42.0	M8X1	0.80
HSK A50 HYDRO 12X90	50.00	12.00	29.00	32.00	42.00	90.00	64.0	47.00	10.00	47.0	M10X1	0.80
HSK A50 HYDRO 14X90	50.00	14.00	30.00	34.00	42.00	90.00	64.0	49.00	10.00	47.0	M10X1	0.80
HSK A50 HYDRO 16X95	50.00	16.00	34.00	38.00	42.00	95.00	69.0	52.00	10.00	52.0	M12X1	0.96
HSK A50 HYDRO 18X95	50.00	16.00	36.00	40.00	42.00	95.00	69.0	52.00	10.00	52.0	M12X1	0.98
HSK A50 HYDRO 20X100	50.00	20.00	38.00	42.00	42.00	100.00	74.0	74.00	10.00	52.0	M10X1	1.08
HSK A63 HYDRO 6X80	63.00	6.00	23.00	26.00	50.00	80.00	54.0	33.00	10.00	37.0	M5	1.09
HSK A63 HYDRO 8X80	63.00	8.00	25.00	28.00	50.00	80.00	54.0	33.00	10.00	37.0	M6	1.10
HSK A63 HYDRO 10X85	63.00	10.00	27.00	30.00	50.00	85.00	59.0	39.00	10.00	42.0	M8X1	1.13
HSK A63 HYDRO 12X90	63.00	12.00	29.00	32.00	50.00	90.00	64.0	44.00	10.00	47.0	M10X1	1.18
HSK A63 HYDRO 14X90	63.00	14.00	30.00	34.00	50.00	90.00	64.0	46.00	10.00	47.0	M10X1	1.13
HSK A63 HYDRO 16X95	63.00	16.00	34.00	38.00	50.00	95.00	69.0	52.00	10.00	52.0	M12X1	1.28
HSK A63 HYDRO 18X95	63.00	18.00	36.00	40.00	50.00	95.00	69.0	52.00	10.00	52.0	M12X1	1.32
HSK A63 HYDRO 20X100	63.00	20.00	38.00	42.00	50.00	100.00	74.0	58.00	10.00	52.0	M16X1	1.32
HSK A63 HYDRO 25X120	63.00	25.00	46.00	50.00	50.00	120.00	94.0	94.00	10.00	58.0	M16X1	1.83
HSK A63 HYDRO 32X125	63.00	32.00	56.00	60.00	53.00	125.00	99.0	83.00	10.00	62.0	M16X1	2.32
HSK A80 HYDRO 6X85	80.00	6.00	23.00	26.00	50.00	85.00	59.0	37.00	10.00	37.0	M5	1.25
HSK A80 HYDRO 14X95	80.00	14.00	30.00	34.00	50.00	95.00	69.0	47.00	10.00	47.0	M10X1	2.40
HSK A80 HYDRO 16X100	80.00	16.00	34.00	38.00	56.00	100.00	74.0	52.00	10.00	52.0	M12X1	1.91
HSK A80 HYDRO 18X100	80.00	18.00	36.00	40.00	50.00	100.00	74.0	52.00	10.00	52.0	M12X1	1.92
HSK A80 HYDRO 20X105	80.00	20.00	38.00	42.00	50.00	105.00	79.0	52.00	10.00	52.0	M16X1	2.09
HSK A80 HYDRO 25X115	80.00	25.00	46.00	50.00	50.00	115.00	89.0	58.00	10.00	58.0	M16X1	2.35
HSK A80 HYDRO 32X120	80.00	32.00	56.00	60.00	50.00	120.00	94.0	62.00	10.00	62.0	M16X1	2.65
HSK A100 HYDRO 6X85	100.00	6.00	23.00	26.00	50.00	85.00	56.0	29.00	10.00	37.0	M5	2.57
HSK A100 HYDRO 8X85	100.00	8.00	25.00	28.00	50.00	85.00	56.0	29.00	10.00	37.0	M6	2.54
HSK A100 HYDRO 10X90	100.00	10.00	27.00	30.00	50.00	90.00	61.0	35.00	10.00	42.0	M8X1	2.55
HSK A100 HYDRO 12X95	100.00	12.00	29.00	32.00	50.00	95.00	66.0	40.00	10.00	47.0	M10X1	2.60
HSK A100 HYDRO 14X95	100.00	14.00	30.00	34.00	63.00	95.00	66.0	42.00	10.00	47.0	M10X1	2.81
HSK A100 HYDRO 16X100	100.00	16.00	34.00	38.00	50.00	100.00	71.0	47.00	10.00	52.0	M12X1	2.73
HSK A100 HYDRO 18X100	100.00	18.00	36.00	40.00	50.00	100.00	71.0	48.00	10.00	52.0	M12X1	2.76
HSK A100 HYDRO 20X105	100.00	20.00	38.00	42.00	63.00	105.00	76.0	54.00	10.00	52.0	M16X1	2.83
HSK A100 HYDRO 25X115	100.00	25.00	46.00	50.00	63.00	115.00	86.0	51.00	10.00	58.0	M16X1	3.47
HSK A100 HYDRO 32X120	100.00	32.00	56.00	60.00	63.00	120.00	91.0	59.00	10.00	62.0	M16X1	3.73

• Chucking forces will be reduced by 25% if reduction sleeves are used. • A cooling tube must be used with coolant through HSK spindles (ordered separately). • Reduction sleeves are available for 12, 20, 25 and 32 mm bore diameters (must be ordered separately). • Clamping wrench (wrench HYDRO HEX 4) and test bar should be ordered separately.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HSK A-HYDRO

Spare Parts

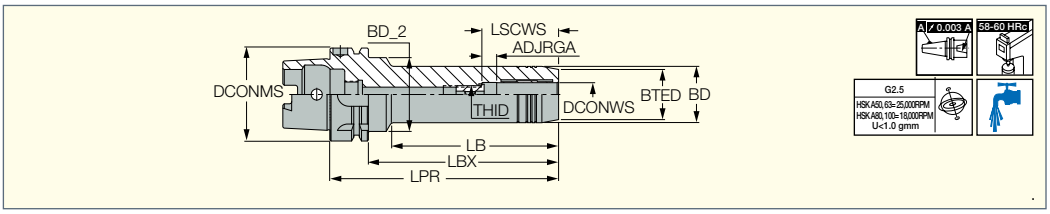
Designation					
HSK A50 HYDRO 6X80	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 HYDRO 8X80	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 8*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 HYDRO 10X85	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 10*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 HYDRO 12X90	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 12*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 HYDRO 14X90	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 HYDRO 16X95	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 HYDRO 18X95	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 HYDRO 20X100	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A63 HYDRO 6X80	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 8X80	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 8*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 10X85	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 10*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 12X90	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 12*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 14X90	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 16X95	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 18X95	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 20X100	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 25X120	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 25*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 32X125	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 32*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A80 HYDRO 6X85	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A 80*	WRENCH COOL TUBE HSK80*
HSK A80 HYDRO 14X95	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A 80*	WRENCH COOL TUBE HSK80*
HSK A80 HYDRO 16X100	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A 80*	WRENCH COOL TUBE HSK80*
HSK A80 HYDRO 18X100	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A 80*	WRENCH COOL TUBE HSK80*
HSK A80 HYDRO 20X105	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A 80*	WRENCH COOL TUBE HSK80*
HSK A80 HYDRO 25X115	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 25*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A 80*	WRENCH COOL TUBE HSK80*
HSK A80 HYDRO 32X120	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 32*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A 80*	WRENCH COOL TUBE HSK80*
HSK A100 HYDRO 6X85	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 8X85	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 8*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 10X90	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 10*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 12X95	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 12*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 14X95	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 16X100	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 18X100	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 20X105	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 25X115	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 25*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 32X120	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 32*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

HYDROFIT HSK
HOLDING LINE

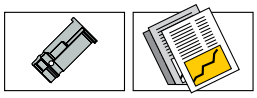
HSK A-HYDRO (long)

Long Projection Hydraulic Chucks with HSK DIN69893 Form A Tapered Shanks



Designation	DCONMS	DCONWS	BTED	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	THID	kg
HSK A63 HYDRO 6X150	63.00	6.00	23.00	26.00	50.00	150.00	124.0	103.00	10.00	37.0	M5	1.36
HSK A63 HYDRO 6X200	63.00	6.00	23.00	26.00	50.00	200.00	174.0	153.00	10.00	37.0	M5	1.57
HSK A63 HYDRO 8X150	63.00	8.00	25.00	28.00	50.00	150.00	124.0	104.00	10.00	37.0	M6	1.41
HSK A63 HYDRO 8X200	63.00	8.00	25.00	28.00	50.00	200.00	174.0	154.00	10.00	37.0	M6	1.68
HSK A63 HYDRO 10X150	63.00	10.00	27.00	30.00	50.00	150.00	124.0	104.00	10.00	42.0	M8X1	1.45
HSK A63 HYDRO 10X200	63.00	10.00	27.00	30.00	50.00	200.00	174.0	154.00	10.00	42.0	M8X1	1.74
HSK A63 HYDRO 12X150	63.00	12.00	29.00	32.00	50.00	150.00	124.0	105.00	10.00	47.0	M10X1	1.49
HSK A63 HYDRO 12X200	63.00	12.00	29.00	32.00	50.00	200.00	174.0	155.00	10.00	47.0	M10X1	1.83
HSK A63 HYDRO 14X150	63.00	14.00	30.00	34.00	50.00	150.00	124.0	105.00	10.00	47.0	M10X1	1.58
HSK A63 HYDRO 14X200	63.00	14.00	30.00	34.00	50.00	200.00	174.0	155.00	10.00	47.0	M10X1	1.95
HSK A63 HYDRO 16X150	63.00	16.00	34.00	38.00	50.00	150.00	124.0	106.50	10.00	52.0	M12X1	1.74
HSK A63 HYDRO 16X200	63.00	16.00	34.00	38.00	50.00	200.00	174.0	156.50	10.00	52.0	M12X1	2.17
HSK A63 HYDRO 18X150	63.00	18.00	36.00	40.00	50.00	150.00	124.0	107.00	10.00	52.0	M12X1	1.81
HSK A63 HYDRO 18X200	63.00	18.00	36.00	40.00	50.00	200.00	174.0	157.00	10.00	52.0	M12X1	2.30
HSK A63 HYDRO 20X150	63.00	20.00	38.00	42.00	50.00	150.00	124.0	108.00	10.00	52.0	M12X1	1.89
HSK A63 HYDRO 20X200	63.00	20.00	38.00	42.00	50.00	200.00	174.0	158.00	10.00	52.0	M12X1	2.44
HSK A63 HYDRO 25X150	63.00	25.00	46.00	50.00	50.00	150.00	124.0	-	10.00	58.0	M16X1	2.56
HSK A63 HYDRO 25X200	63.00	25.00	46.00	50.00	50.00	200.00	174.0	-	10.00	58.0	M16X1	3.05
HSK A100 HYDRO 6X150	100.00	6.00	23.00	26.00	50.00	150.00	121.0	100.00	10.00	37.0	M5	3.00
HSK A100 HYDRO 6X200	100.00	6.00	23.00	26.00	63.00	200.00	171.0	144.00	10.00	37.0	M5	3.29
HSK A100 HYDRO 8X150	100.00	8.00	25.00	28.00	63.00	150.00	121.0	94.50	10.00	37.0	M6	3.07
HSK A100 HYDRO 8X200	100.00	8.00	25.00	28.00	63.00	200.00	171.0	144.50	10.00	37.0	M6	3.29
HSK A100 HYDRO 10X150	100.00	10.00	27.00	30.00	63.00	150.00	121.0	95.00	10.00	42.0	M8X1	3.11
HSK A100 HYDRO 10X200	100.00	10.00	27.00	30.00	50.00	200.00	171.0	151.00	10.00	42.0	M8X1	3.27
HSK A100 HYDRO 12X150	100.00	12.00	29.00	32.00	63.00	150.00	121.0	95.50	10.00	47.0	M10X1	3.15
HSK A100 HYDRO 12X200	100.00	12.00	29.00	32.00	63.00	200.00	171.0	145.50	10.00	47.0	M10X1	3.46
HSK A100 HYDRO 14X150	100.00	14.00	30.00	34.00	50.00	150.00	121.0	97.00	10.00	47.0	M10X1	3.05
HSK A100 HYDRO 14X200	100.00	14.00	30.00	34.00	50.00	200.00	171.0	147.00	10.00	47.0	M10X1	3.56
HSK A100 HYDRO 16X150	100.00	16.00	38.00	38.00	63.00	150.00	121.0	97.50	10.00	52.0	M12X1	3.15
HSK A100 HYDRO 16X200	100.00	16.00	38.00	38.00	63.00	200.00	171.0	147.50	10.00	52.0	M12X1	3.73
HSK A100 HYDRO 18X150	100.00	18.00	36.00	40.00	50.00	150.00	121.0	107.00	10.00	52.0	M12X1	3.25
HSK A100 HYDRO 18X200	100.00	18.00	36.00	40.00	63.00	200.00	171.0	148.00	10.00	52.0	M12X1	3.86
HSK A100 HYDRO 20X150	100.00	20.00	38.00	42.00	63.00	150.00	121.0	99.00	10.00	52.0	M12X1	3.46
HSK A100 HYDRO 20X200	100.00	20.00	38.00	42.00	63.00	200.00	171.0	149.00	10.00	52.0	M12X1	4.01
HSK A100 HYDRO 25X150	100.00	25.00	46.00	50.00	50.00	150.00	121.0	-	10.00	58.0	M16X1	3.65
HSK A100 HYDRO 25X200	100.00	25.00	46.00	50.00	63.00	200.00	171.0	136.00	10.00	58.0	M16X1	4.67
HSK A100 HYDRO 32X200	100.00	32.00	56.00	60.00	60.00	200.00	171.0	-	10.00	62.0	M16X1	5.36

• Chucking forces will be reduced by 25% if reduction sleeves are used. • A cooling tube must be used with coolant through HSK spindles (ordered separately). • Reduction sleeves are available for 12, 20, 25 and 32 mm bore diameters (must be ordered separately). • Clamping wrench (wrench HYDRO HEX4) and test bar should be ordered separately.



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HSK A-HYDRO (long)

Spare Parts

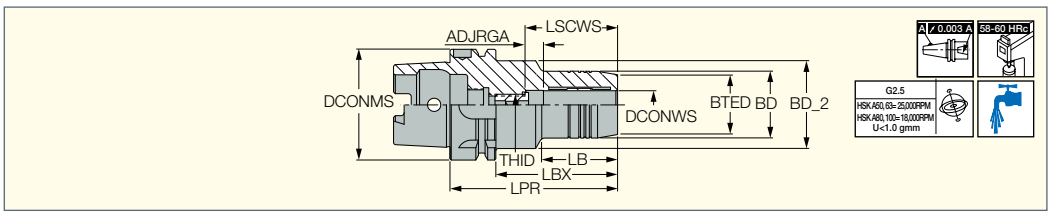
Designation					
HSK A63 HYDRO 6X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 6X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 8X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 8*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 8X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 8*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 10X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 10*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 10X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 10*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 12X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 12*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 12X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 12*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 14X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 14X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 16X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 16X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 18X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 18X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 20X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 20X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 25X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 25*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 25X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 25*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 HYDRO 6X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 6X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 6*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 8X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 8*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 8X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 8*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 10X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 10*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 10X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 10*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 12X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 12*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 12X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 12*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 14X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 14X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 14*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 16X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 16X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 16*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 18X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 18X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 18*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 20X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 20X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 20*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 25X150	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 25*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 25X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 25*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 32X200	HYDRO CLAMP SCREW M8X14	TEST BAR HYDRO 32*	WRENCH HYDRO HEX 4*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

HYDROFIT HSK
HOLDING LINE

HSK A-HYDRO HD

Heavy Duty, Short
Hydraulic Chucks With
HSK Form ADB Shanks



Designation	DCONMS	DCONWS	BTED	BD_2	BD	LPR	LB	ADJRGA	LSCWS	THID	kg
HSK A63 HYDRO 12X80 HD	63.0	12.00	32.00	53.00	42.00	80.00	34.50	10.00	46.0	M8X1	0.00
HSK A63 HYDRO 16X80 HD	63.0	16.00	38.00	0.00	52.50	80.00	0.00	8.00	51.0	M8X1	1.45
HSK A63 HYDRO 20X80 HD	63.0	20.00	38.00	0.00	53.00	80.00	0.00	8.00	51.0	M8X1	0.00
HSK A100 HYDRO 20X90 HD	100.0	20.00	38.00	0.00	52.50	90.00	0.00	8.00	51.0	M8X1	1.92
HSK A100 HYDRO 32X100 HD	100.0	32.00	58.50	0.00	72.00	100.00	0.00	9.00	61.0	M8X1	0.00

Spare Parts

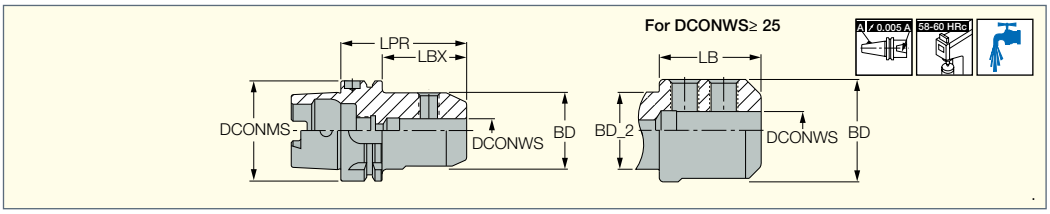
Designation		
HSK A63 HYDRO 12X80 HD	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 16X80 HD	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 HYDRO 20X80 HD	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 HYDRO 20X90 HD	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 HYDRO 32X100 HD	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

HSK

HSK A-EM (DIN 1835 Form B)

DIN6359 Side Clamp Holders for DIN 1835 Form B Weldon Shanks with HSK DIN69893 Form A Tapered Shanks



Designation	DCONMS	DCONWS	BD	BD_2	LPR	LBX	LB	kg
HSK A50 EM8X65*	50.00	8.00	28.00	-	65.00	39.0	-	0.56
HSK A50 EM10X80*	50.00	10.00	35.00	-	80.00	54.0	-	1.25
HSK A50 EM16X80*	50.00	16.00	48.00	-	80.00	54.0	-	1.00
HSK A50 EM18X80*	50.00	18.00	50.00	-	80.00	54.0	-	1.00
HSK A50 EM20X80*	50.00	20.00	52.00	-	80.00	54.0	-	0.99
HSK A63 EM6X65	63.00	6.00	25.00	-	65.00	39.0	-	0.77
HSK A63 EM8X65	63.00	8.00	28.00	-	65.00	39.0	-	0.79
HSK A63 EM10X65	63.00	10.00	35.00	-	65.00	39.0	-	0.88
HSK A63 EM12X80	63.00	12.00	42.00	-	80.00	54.0	-	1.13
HSK A63 EM14X80	63.00	14.00	44.00	-	80.00	54.0	-	1.16
HSK A63 EM16X80	63.00	16.00	48.00	-	80.00	54.0	-	1.28
HSK A63 EM18X80	63.00	18.00	50.00	-	80.00	54.0	-	1.29
HSK A63 EM20X80	63.00	20.00	52.00	-	80.00	54.0	-	1.32
HSK A63 EM25X110	63.00	25.00	65.00	52.00	110.00	84.0	65.50	2.21
HSK A63 EM32X110	63.00	32.00	72.00	52.00	110.00	84.0	65.50	2.41
HSK A100 EM6X80	100.00	6.00	25.00	-	80.00	51.0	-	2.20
HSK A100 EM8X80	100.00	8.00	28.00	-	80.00	51.0	-	2.24
HSK A100 EM10X80	100.00	10.00	35.00	-	80.00	51.0	-	2.36
HSK A100EM 12X80	100.00	12.00	42.00	-	80.00	51.0	-	2.45
HSK A100EM 14X80	100.00	14.00	44.00	-	80.00	51.0	-	2.00
HSK A100EM 16X100	100.00	16.00	48.00	-	100.00	71.0	-	2.86
HSK A100 EM18X100	100.00	18.00	50.00	-	100.00	71.0	-	2.93
HSK A100 EM20X100	100.00	20.00	52.00	-	100.00	71.0	-	2.93
HSK A100 EM25X100	100.00	25.00	65.00	-	100.00	71.0	-	3.45
HSK A100 EM32X100	100.00	32.00	72.00	-	100.00	71.0	-	3.67
HSK A100 EM40X110	100.00	40.00	85.00	-	110.00	81.0	-	4.50

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For tools, see pages: GD-DH (12-13.5) (723)

Spare Parts

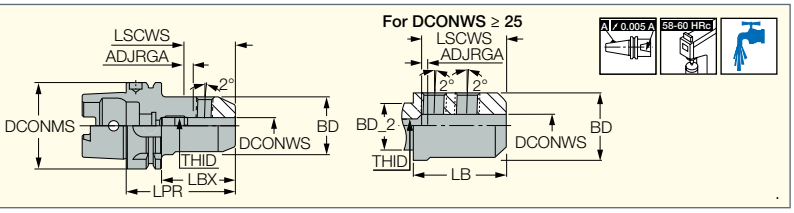
Designation			
HSK A50 EM8X65*	SR M8X10 DIN1835-B	WRENCH COOL TUBE HSK50*	COOLING TUBE HSK A50*
HSK A50 EM10X80*	SR M10X12 DIN1835-B	WRENCH COOL TUBE HSK50*	COOLING TUBE HSK A50*
HSK A50 EM16X80*	SR M14X16 DIN1835-B	WRENCH COOL TUBE HSK50*	COOLING TUBE HSK A50*
HSK A50 EM18X80*	SR M14X16 DIN1835-B	WRENCH COOL TUBE HSK50*	COOLING TUBE HSK A50*
HSK A50 EM20X80*	SR M16X16 DIN1835-B	WRENCH COOL TUBE HSK50*	COOLING TUBE HSK A50*
HSK A63 EM6X65	SR M6X10 DIN1835B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A63 EM8X65	SR M8X10 DIN1835-B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A63 EM10X65	SR M10X12 DIN1835-B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A63 EM12X80	SR M12X16 DIN1835-B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A63 EM14X80	SR M12X16 DIN1835-B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A63 EM16X80	SR M14X16 DIN1835-B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A63 EM18X80	SR M14X16 DIN1835-B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A63 EM20X80	SR M16X16 DIN1835-B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A63 EM25X110	SR M18X2X20 DIN1835-B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A63 EM32X110	SR M20X2X20 DIN1835-B	WRENCH COOL TUBE HSK63*	COOLING TUBE HSK A63*
HSK A100 EM6X80	SR M6X10 DIN1835B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100 EM8X80	SR M8X10 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100 EM10X80	SR M10X12 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100EM 12X80	SR M12X16 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100EM 14X80	SR M12X16 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100EM 16X100	SR M14X16 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100 EM18X100	SR M14X16 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100 EM20X100	SR M16X16 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100 EM25X100	SR M18X2X20 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100 EM32X100	SR M20X2X20 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*
HSK A100 EM40X110	SR M20X2X20 DIN1835-B	WRENCH COOL TUBE HSK100*	COOLING TUBE HSK A100*

* Optional, should be ordered separately

HSK

HSK A-EM (DIN 1835 Form E)

DIN6359 Side Clamp Holders for DIN 1835 Form E Whistle Notch Shanks with HSK DIN69893 Form A Tapered Shanks



Designation	DCONMS	DCONWS	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	THID(1)	Key(2)	kg
HSK A50 EM6X80 E*	50.00	6.00	25.00	-	80.00	54.0	-	8.00	38.0	M5	2.50	0.80
HSK A50 EM10X80 E*	50.00	10.00	35.00	-	80.00	54.0	-	5.00	44.0	M8	4.00	0.08
HSK A50 EM12X90 E*	50.00	12.00	42.00	-	90.00	64.0	-	5.00	49.0	M10	5.00	0.80
HSK A50 EM14X90 E*	50.00	14.00	44.00	-	90.00	64.0	-	5.00	49.0	M10	5.00	1.01
HSK A50 EM16X90 E*	50.00	16.00	48.00	-	90.00	64.0	-	5.00	52.0	M12	6.00	0.08
HSK A50 EM18X100 E*	50.00	18.00	50.00	-	100.00	74.0	-	7.00	54.0	M16	6.00	1.33
HSK A63 EM6X80 E	63.00	6.00	25.00	-	80.00	54.0	-	8.00	40.0	M5	2.50	0.82
HSK A63 EM8X80 E	63.00	8.00	28.00	-	80.00	54.0	-	5.00	40.0	M6	3.00	0.86
HSK A63 EM10X80 E	63.00	10.00	35.00	-	80.00	54.0	-	5.00	44.0	M8	4.00	1.00
HSK A63 EM12X90 E	63.00	12.00	42.00	-	90.00	64.0	-	5.00	49.0	M10	5.00	1.23
HSK A63 EM14X90 E	63.00	14.00	44.00	-	90.00	64.0	-	5.00	49.0	M10	5.00	1.29
HSK A63 EM16X100 E	63.00	16.00	48.00	-	100.00	74.0	-	5.00	52.0	M12	6.00	1.51
HSK A63 EM18X100 E	63.00	18.00	50.00	-	100.00	74.0	-	8.00	55.0	M12	6.00	1.60
HSK A63 EM20X100 E	63.00	20.00	52.00	-	100.00	74.0	-	5.00	54.0	M16	8.00	1.65
HSK A63 EM25X110 E	63.00	25.00	65.00	52.80	110.00	84.0	65.50	7.00	61.0	M16	8.00	2.23
HSK A63 EM32X110 E	63.00	32.00	72.00	52.80	110.00	84.0	65.50	5.00	63.0	M20X1.5	10.00	2.43
HSK A100 EM8X90 E	100.00	8.00	28.00	-	90.00	61.0	-	5.00	40.0	M6	3.00	2.29
HSK A100 EM12X100 E	100.00	12.00	42.00	-	100.00	71.0	-	10.00	54.0	M10	5.00	2.74
HSK A100EM 14X100 E	100.00	14.00	44.00	-	100.00	71.0	-	10.00	54.0	M10	5.00	2.71
HSK A100EM 16X100 E	100.00	16.00	48.00	-	100.00	71.0	-	5.00	52.0	M12	6.00	2.88
HSK A100EM 18X100 E	100.00	18.00	50.00	-	100.00	71.0	-	5.00	52.0	M12	6.00	2.93
HSK A100 EM20X110 E	100.00	20.00	52.00	-	110.00	81.0	-	5.00	54.0	M16	8.00	3.10
HSK A100 EM25X120 E	100.00	25.00	65.00	-	120.00	91.0	-	7.00	61.0	M20X1.5	10.00	3.88
HSK A100 EM32X120 E	100.00	32.00	72.00	-	120.00	91.0	-	5.00	63.0	M20X1.5	10.00	4.32

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

(1) Adjustment screw has an internal coolant hole.

(2) Adjustment screw hexagon key size

Spare Parts

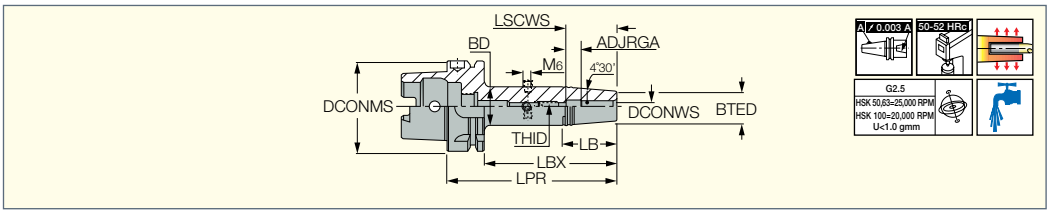
Designation				
HSK A50 EM6X80 E*	SR M6X10 DIN1835B	PRESET M5X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 EM10X80 E*	SR M10X12 DIN1835-B	PRESET CAP M8X12B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 EM12X90 E*	SR M12X16 DIN1835-B	PRESET M10X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 EM14X90 E*	SR M12X16 DIN1835-B	PRESET M10X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 EM16X90 E*	SR M14X16 DIN1835-B	PRESET M12X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 EM18X100 E*	SR M14X16 DIN1835-B		COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A63 EM6X80 E	SR M6X10 DIN1835B	PRESET M5X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 EM8X80 E	SR M8X10 DIN1835-B	PRESET M6X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 EM10X80 E	SR M10X12 DIN1835-B	PRESET CAP M8X12B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 EM12X90 E	SR M12X16 DIN1835-B	PRESET M10X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 EM14X90 E	SR M12X16 DIN1835-B	PRESET M10X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 EM16X100 E	SR M14X16 DIN1835-B	PRESET M12X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 EM18X100 E	SR M14X16 DIN1835-B	PRESET M12X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 EM20X100 E	SR M16X16 DIN1835-B	PRESET M16X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 EM25X110 E	SR M18X2X20 DIN1835-B	PRESET M16X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 EM32X110 E	SR M20X2X20 DIN1835-B	PRESET M20X20E	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 EM8X90 E	SR M8X10 DIN1835-B	PRESET M6X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 EM12X100 E	SR M12X16 DIN1835-B	PRESET M10X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100EM 14X100 E	SR M12X16 DIN1835-B	PRESET M10X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100EM 16X100 E	SR M14X16 DIN1835-B	PRESET M12X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100EM 18X100 E	SR M14X16 DIN1835-B	PRESET M12X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 EM20X110 E	SR M16X16 DIN1835-B	PRESET M16X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 EM25X120 E	SR M18X2X20 DIN1835-B	PRESET M20X20E	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 EM32X120 E	SR M20X2X20 DIN1835-B	PRESET M20X20E	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

SHRINKIN HSK

HSK A-SRKIN

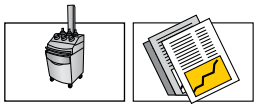
Thermal Shrink Chucks with
HSK DIN69893 Form A
Tapered Shanks



Designation	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key[1]	kg
HSK A50 SRKIN6X80	50.00	6.00	21.00	27.00	80.00	54.0	38.00	11.00	36.0	M5	2.50	0.56
HSK A50 SRKIN8X80	50.00	8.00	21.00	27.00	80.00	54.0	38.00	11.00	36.0	M6	3.00	0.57
HSK A50 SRKIN10X85	50.00	10.00	24.00	32.00	85.00	59.0	51.00	11.00	42.0	M8	4.00	0.64
HSK A50 SRKIN12X90	50.00	12.00	24.00	32.00	90.00	64.0	51.00	11.00	47.0	M10	5.00	0.65
HSK A50 SRKIN14X90	50.00	14.00	27.00	34.00	90.00	64.0	45.00	11.00	47.0	M10	5.00	0.70
HSK A50 SRKIN16X95	50.00	16.00	27.00	34.00	95.00	69.0	45.00	11.00	50.0	M10	5.00	0.71
HSK A63 SRKIN6X120	63.00	6.00	21.00	27.00	120.00	94.0	38.00	11.00	36.0	M5	2.50	1.00
HSK A63 SRKIN6X160	63.00	6.00	21.00	27.00	160.00	134.0	38.00	11.00	36.0	M5	2.50	1.19
HSK A63 SRKIN6X80	63.00	6.00	21.00	27.00	80.00	54.0	38.00	11.00	36.0	M5	2.50	0.83
HSK A63 SRKIN8X120	63.00	8.00	21.00	27.00	120.00	94.0	38.00	11.00	36.0	M6	3.00	0.98
HSK A63 SRKIN8X160	63.00	8.00	21.00	27.00	160.00	134.0	38.00	11.00	36.0	M6	3.00	1.16
HSK A63 SRKIN8X80	63.00	8.00	21.00	27.00	80.00	54.0	38.00	11.00	36.0	M6	3.00	0.88
HSK A63 SRKIN10X120	63.00	10.00	24.00	32.00	120.00	94.0	51.00	11.00	42.0	M8	4.00	1.09
HSK A63 SRKIN10X160	63.00	10.00	24.00	32.00	160.00	134.0	51.00	11.00	42.0	M8	4.00	1.36
HSK A63 SRKIN10X85	63.00	10.00	24.00	32.00	85.00	59.0	51.00	11.00	42.0	M8	4.00	0.89
HSK A63 SRKIN12X120	63.00	12.00	24.00	32.00	120.00	94.0	51.00	11.00	47.0	M10	5.00	1.00
HSK A63 SRKIN12X160	63.00	12.00	24.00	32.00	160.00	134.0	51.00	11.00	47.0	M10	5.00	1.33
HSK A63 SRKIN12X90	63.00	12.00	24.00	32.00	90.00	64.0	51.00	6.00	42.0	M8	4.00	0.91
HSK A63 SRKIN14X120	63.00	14.00	27.00	34.00	120.00	94.0	45.00	11.00	47.0	M10	5.00	1.15
HSK A63 SRKIN14X160	63.00	14.00	27.00	34.00	160.00	134.0	45.00	11.00	47.0	M10	5.00	1.44
HSK A63 SRKIN14X90	63.00	14.00	27.00	34.00	90.00	64.0	45.00	11.00	47.0	M10	5.00	0.94
HSK A63 SRKIN16X120	63.00	16.00	27.00	34.00	120.00	94.0	44.00	11.00	50.0	M12	6.00	1.11
HSK A63 SRKIN16X160	63.00	16.00	27.00	34.00	160.00	134.0	44.00	11.00	50.0	M12	6.00	1.41
HSK A63 SRKIN16X75	63.00	16.00	27.00	34.00	75.00	49.0	-	11.00	50.0	-	-	0.85
HSK A63 SRKIN16X95	63.00	16.00	27.00	34.00	95.00	69.0	44.00	11.00	50.0	M12	6.00	0.96
HSK A63 SRKIN18X120	63.00	18.00	33.00	42.00	120.00	94.0	57.00	11.00	50.0	M12	6.00	3.14
HSK A63 SRKIN18X160	63.00	18.00	33.00	42.00	160.00	134.0	57.00	11.00	50.0	M12	6.00	1.82
HSK A63 SRKIN18X95	63.00	18.00	33.00	42.00	95.00	69.0	57.00	11.00	50.0	M12	6.00	1.14
HSK A63 SRKIN20X100	63.00	20.00	33.00	42.00	100.00	74.0	57.00	11.00	52.0	M16	8.00	1.11
HSK A63 SRKIN20X120	63.00	20.00	33.00	42.00	120.00	94.0	57.00	11.00	52.0	M16	8.00	1.33
HSK A63 SRKIN20X160	63.00	20.00	33.00	42.00	160.00	134.0	57.00	11.00	52.0	M16	8.00	1.77
HSK A63 SRKIN20X75	63.00	20.00	33.00	41.00	75.00	49.0	-	9.00	50.0	-	-	0.93
HSK A63 SRKIN25X115	63.00	25.00	44.00	53.00	115.00	89.0	55.00	11.00	58.0	M16	8.00	1.70
HSK A63 SRKIN25X85	63.00	25.00	44.00	53.00	85.00	59.0	-	11.00	58.0	-	-	1.27
HSK A63 SRKIN32X120	63.00	32.00	44.00	53.00	120.00	94.0	55.00	11.00	58.0	M16	8.00	1.68
HSK A63 SRKIN32X85	63.00	32.00	44.00	53.00	85.00	59.0	-	11.00	58.0	-	-	1.11
HSK A100 SRKIN6X120	100.00	6.00	21.00	27.00	120.00	91.0	38.00	11.00	36.0	M5	2.50	2.32
HSK A100 SRKIN6X160	100.00	6.00	21.00	27.00	160.00	131.0	38.00	11.00	36.0	M6	3.00	2.54
HSK A100 SRKIN6X85	100.00	6.00	21.00	27.00	85.00	56.0	38.00	11.00	36.0	M5	2.50	2.18
HSK A100 SRKIN8X120	100.00	8.00	21.00	27.00	120.00	91.0	38.00	11.00	36.0	M6	3.00	2.36
HSK A100 SRKIN8X160	100.00	8.00	21.00	27.00	160.00	131.0	38.00	11.00	36.0	M6	3.00	2.55
HSK A100 SRKIN8X85	100.00	8.00	21.00	27.00	85.00	56.0	38.00	11.00	36.0	M6	3.00	2.16
HSK A100 SRKIN10X120	100.00	10.00	24.00	32.00	120.00	91.0	51.00	11.00	42.0	M8	4.00	2.43
HSK A100 SRKIN10X160	100.00	10.00	24.00	32.00	160.00	131.0	51.00	11.00	42.0	M8	4.00	2.71
HSK A100 SRKIN10X90	100.00	10.00	24.00	32.00	90.00	61.0	51.00	11.00	42.0	M8	4.00	2.24
HSK A100 SRKIN12X120	100.00	12.00	24.00	32.00	120.00	91.0	51.00	11.00	47.0	M10	5.00	2.47
HSK A100 SRKIN12X160	100.00	12.00	24.00	32.00	160.00	131.0	51.00	11.00	47.0	M10	5.00	2.70
HSK A100 SRKIN12X95	100.00	12.00	24.00	32.00	95.00	66.0	51.00	11.00	47.0	M10	5.00	2.28
HSK A100 SRKIN14X120	100.00	14.00	27.00	34.00	120.00	91.0	45.00	11.00	47.0	M10	5.00	2.51
HSK A100 SRKIN14X160	100.00	14.00	27.00	34.00	160.00	131.0	45.00	11.00	47.0	M10	5.00	2.79
HSK A100 SRKIN14X95	100.00	14.00	27.00	34.00	95.00	66.0	45.00	11.00	47.0	M10	5.00	2.27
HSK A100 SRKIN16X100	100.00	16.00	27.00	34.00	100.00	71.0	45.00	11.00	50.0	M12	6.00	2.35
HSK A100 SRKIN16X120	100.00	16.00	27.00	34.00	120.00	91.0	45.00	11.00	50.0	M12	6.00	2.50
HSK A100 SRKIN16X160	100.00	16.00	27.00	34.00	160.00	131.0	45.00	11.00	50.0	M12	6.00	2.74
HSK A100 SRKIN18X100	100.00	18.00	33.00	42.00	100.00	71.0	57.00	11.00	50.0	M12	6.00	2.50
HSK A100 SRKIN18X160	100.00	18.00	33.00	42.00	160.00	131.0	57.00	11.00	50.0	M12	6.00	3.14
HSK A100 SRKIN20X105	100.00	20.00	33.00	42.00	105.00	76.0	57.00	11.00	52.0	M16	8.00	2.50
HSK A100 SRKIN20X120	100.00	20.00	33.00	42.00	120.00	91.0	57.00	11.00	52.0	M16	8.00	1.20
HSK A100 SRKIN20X160	100.00	20.00	33.00	42.00	160.00	131.0	57.00	11.00	52.0	M16	8.00	3.21
HSK A100 SRKIN25X115	100.00	25.00	44.00	53.00	115.00	86.0	57.00	11.00	58.0	M16	8.00	3.04
HSK A100 SRKIN32X120	100.00	32.00	44.00	53.00	120.00	91.0	57.00	11.00	58.0	M16	8.00	2.99

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately) • Use only inductive heating device for SRKIN holders

[1] Adjustment screw hexagon key size



1076-1077 1070-1072

HSK A-SRKIN

Spare Parts

Designation			
HSK A50 SRKIN6X80	PRESET M5X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 SRKIN8X80	PRESET M6X20B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 SRKIN10X85	PRESET M8X20B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 SRKIN12X90	PRESET M10X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 SRKIN14X90	PRESET M10X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A50 SRKIN16X95	PRESET M10X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK A63 SRKIN6X120	PRESET M5X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN6X160	PRESET M5X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN6X80	PRESET M5X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN8X120	PRESET M6X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN8X160	PRESET M6X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN8X80	PRESET M6X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN10X120	PRESET M8X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN10X160	PRESET M8X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN10X85	PRESET M8X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN12X120	PRESET M10X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN12X160	PRESET M10X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN12X90	PRESET M10X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN14X120	PRESET M10X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN14X160	PRESET M10X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN14X90	PRESET M10X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN16X120	PRESET M12X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN16X160	PRESET M12X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN16X75		COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN16X95	PRESET M12X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN18X120	PRESET M12X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN18X160	PRESET M12X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN18X95	PRESET M12X18B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
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HSK A63 SRKIN20X120	PRESET M16X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN20X160	PRESET M16X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN25X115	PRESET M16X25B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN25X85		COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN32X120	PRESET M16X25B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRKIN32X85		COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 SRKIN6X120	PRESET M5X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN6X160	PRESET M5X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN6X85	PRESET M5X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN8X120	PRESET M6X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN8X160	PRESET M6X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN8X85	PRESET M6X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN10X120	PRESET M8X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN10X160	PRESET M8X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN10X90	PRESET M8X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN12X120	PRESET M10X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN12X160	PRESET M10X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN12X95	PRESET M10X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN14X120	PRESET M10X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN14X160	PRESET M10X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN14X95	PRESET M10X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN16X100	PRESET M12X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN16X120	PRESET M12X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN16X160	PRESET M12X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN18X100	PRESET M12X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN18X160	PRESET M12X18B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN20X105	PRESET M16X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN20X120	PRESET M16X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN20X160	PRESET M16X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN25X115	PRESET M16X20B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SRKIN32X120	PRESET M16X25B	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

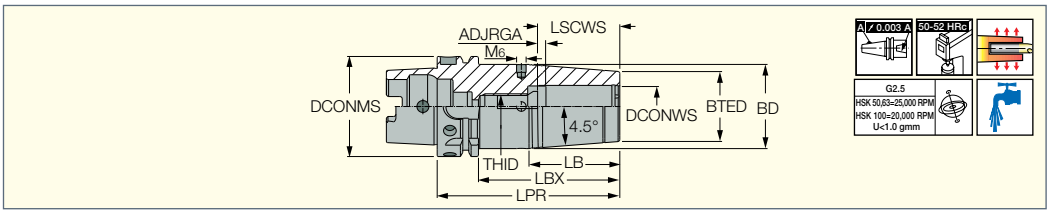
* Optional, should be ordered separately

X-STREAM JET TOOLHOLDING

SHRINKIN HSK

HSK A-SRKIN-CX

Thermal Shrink Chucks with HSK DIN69893 Form A Tapered Shank and Coolant Jet Channels along the Shank Bore



Designation	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key(1)	kg
HSK A63 SRKIN6X80 CX	63.00	6.00	21.00	27.00	80.00	54.00	38.10	9.50	34.0	M5	2.50	0.83
HSK A63 SRKIN6X120 CX	63.00	6.00	21.00	27.00	120.00	94.00	38.10	9.50	34.0	M5	2.50	1.00
HSK A63 SRKIN8X80 CX	63.00	8.00	21.00	27.00	80.00	54.00	38.10	9.50	34.0	M6	3.00	0.85
HSK A63 SRKIN8X120 CX	63.00	8.00	21.00	27.00	120.00	94.00	38.10	9.50	34.0	M6	3.00	1.05
HSK A63 SRKIN10X85 CX	63.00	10.00	24.00	32.00	85.00	59.00	50.80	9.30	39.8	M8	4.00	0.87
HSK A63 SRKIN10X120 CX	63.00	10.00	24.00	32.00	120.00	94.00	50.80	9.30	39.8	M8	4.00	1.07
HSK A63 SRKIN12X90 CX	63.00	12.00	24.00	32.00	90.00	64.00	50.80	9.30	44.8	M10	5.00	0.90
HSK A63 SRKIN12X120 CX	63.00	12.00	24.00	32.00	120.00	94.00	50.80	9.30	44.8	M10	5.00	1.15
HSK A63 SRKIN14X90 CX	63.00	14.00	27.00	34.00	90.00	64.00	44.50	9.30	44.8	M10	5.00	1.02
HSK A63 SRKIN16X75 CX	63.00	16.00	27.00	34.00	75.00	49.00	44.50	7.50	46.0	M5	2.50	0.82
HSK A63 SRKIN16X95 CX	63.00	16.00	27.00	34.00	95.00	69.00	44.50	9.30	47.8	M12	6.00	1.00
HSK A63 SRKIN16X120 CX	63.00	16.00	27.00	34.00	120.00	94.00	44.50	9.30	47.8	M12	6.00	1.20
HSK A63 SRKIN18X95 CX	63.00	18.00	33.00	42.00	95.00	69.00	57.20	9.30	47.8	M12	6.00	1.20
HSK A63 SRKIN20X75 CX	63.00	20.00	33.00	41.00	75.00	49.00	-	5.50	46.0	M5	2.50	0.92
HSK A63 SRKIN20X100 CX	63.00	20.00	33.00	42.00	100.00	74.00	57.20	8.50	49.0	M16	8.00	1.18
HSK A63 SRKIN20X120 CX	63.00	20.00	33.00	42.00	120.00	94.00	57.20	8.50	49.0	M16	8.00	1.38
HSK A63 SRKIN25X85 CX	63.00	25.00	44.00	52.20	85.00	59.00	52.10	9.50	56.0	M5	2.50	1.26
HSK A63 SRKIN32X85 CX	63.00	32.00	44.00	52.20	85.00	59.00	52.10	9.50	56.0	M5	2.50	1.11
HSK A100 SRKIN6X85 CX	100.00	6.00	21.00	27.00	85.00	56.00	38.10	9.50	34.0	M5	2.50	2.21
HSK A100 SRKIN8X85 CX	100.00	8.00	21.00	27.00	85.00	56.00	38.10	9.50	34.0	M6	3.00	2.21
HSK A100 SRKIN10X90 CX	100.00	10.00	24.00	32.00	90.00	61.00	50.80	9.30	39.8	M8	4.00	2.29
HSK A100 SRKIN12X95 CX	100.00	12.00	24.00	32.00	95.00	66.00	50.80	9.30	44.8	M10	5.00	2.30
HSK A100 SRKIN14X95 CX	100.00	14.00	27.00	34.00	95.00	66.00	44.50	9.30	44.8	M10	5.00	2.36
HSK A100 SRKIN16X100 CX	100.00	16.00	27.00	34.00	100.00	71.00	44.50	9.30	47.8	M12	6.00	2.37
HSK A100 SRKIN18X100 CX	100.00	18.00	33.00	42.00	100.00	71.00	57.20	9.30	47.8	M12	6.00	2.53
HSK A100 SRKIN20X105 CX	100.00	20.00	33.00	42.00	105.00	76.00	57.20	8.50	49.0	M16	8.00	2.57
HSK A100 SRKIN25X115 CX	100.00	25.00	44.00	53.00	115.00	86.00	57.20	9.50	56.0	M16	8.00	3.07
HSK A100 SRKIN32X120 CX	100.00	32.00	44.00	53.00	120.00	91.00	57.20	8.50	59.0	M16	8.00	2.98

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately) • Use only inductive heating device for SRKIN holders • Preset screw CX allows supply of coolant via JET channels - do not remove

(1) Adjustment screw hexagon key size

Spare Parts

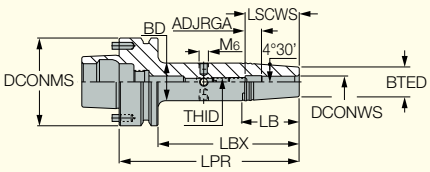
Designation			
HSK A63 SRKIN6X80 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M5X13
HSK A63 SRKIN6X120 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M5X13
HSK A63 SRKIN8X80 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M6X12
HSK A63 SRKIN8X120 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M6X12
HSK A63 SRKIN10X85 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M8X16
HSK A63 SRKIN10X120 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M8X16
HSK A63 SRKIN12X90 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M10X16
HSK A63 SRKIN12X120 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M10X16
HSK A63 SRKIN14X90 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M10X16
HSK A63 SRKIN16X75 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M5X5
HSK A63 SRKIN16X95 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M12X16
HSK A63 SRKIN16X120 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M12X16
HSK A63 SRKIN18X95 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M12X16
HSK A63 SRKIN20X75 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M5X5
HSK A63 SRKIN20X100 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M16X14
HSK A63 SRKIN20X120 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M16X14
HSK A63 SRKIN25X85 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M5X5
HSK A63 SRKIN32X85 CX	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	PRESET CX M5X5
HSK A100 SRKIN6X85 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M5X13
HSK A100 SRKIN8X85 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M6X12
HSK A100 SRKIN10X90 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M8X16
HSK A100 SRKIN12X95 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M10X16
HSK A100 SRKIN14X95 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M10X16
HSK A100 SRKIN16X100 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M12X16
HSK A100 SRKIN18X100 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M12X16
HSK A100 SRKIN20X105 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M16X14
HSK A100 SRKIN25X115 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M16X14
HSK A100 SRKIN32X120 CX	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	PRESET CX M16X14

* Optional, should be ordered separately

HSK SHRINKIN

HSK FM-SRKIN

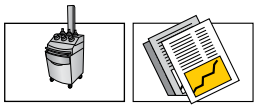
Thermal Shrink Chucks with HSK DIN69893 FM Tapered Shanks with Two Pins for MAKINO Machine Models MAG



Designation	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key(1)	kg
HSK FM63 SRKIN6X80	63.00	6.00	21.00	27.00	80.00	54.0	38.00	11.00	36.0	M5	2.50	0.83
HSK FM63 SRKIN8X80	63.00	8.00	21.00	27.00	80.00	54.0	38.00	11.00	36.0	M6	3.00	0.88
HSK FM63 SRKIN12X90	63.00	12.00	24.00	32.00	90.00	64.0	50.50	11.00	47.0	M10	5.00	0.91
HSK FM63 SRKIN14X90	63.00	14.00	27.00	34.00	90.00	64.0	44.50	11.00	47.0	M10	5.00	0.96
HSK FM63 SRKIN18X95	63.00	18.00	33.00	42.00	95.00	69.0	57.00	11.00	50.0	M12	6.00	1.13
HSK FM63 SRKIN20X100	63.00	20.00	33.00	42.00	100.00	74.0	57.00	11.00	52.0	M16	8.00	1.14
HSK FM63 SRKIN32X120	63.00	32.00	44.00	52.70	120.00	94.0	55.00	11.00	58.0	M16	8.00	1.67

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately) • For solid carbide, HSS and steel tools • Use only inductive heating device for SRKIN holders • The anti slip pins can be removed, turning the toolholder into a standard HSK F 63 type • ISCAR can guarantee an unbalance value of no more than 1 gr x mm

(1) Hex key size for the rear stopper screw



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Spare Parts

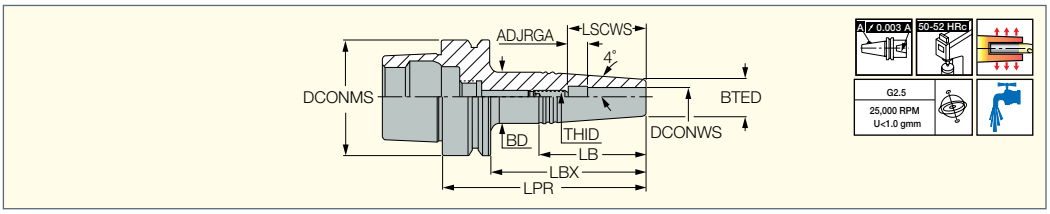
Designation			
HSK FM63 SRKIN6X80	PRESET M5X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 SRKIN8X80	PRESET M6X20B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 SRKIN12X90	PRESET M10X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 SRKIN14X90	PRESET M10X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 SRKIN18X95	PRESET M12X18B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 SRKIN20X100	PRESET M16X20B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK FM63 SRKIN32X120	PRESET M16X25B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*

* Optional, should be ordered separately

HSK SHRINKIN

HSK E-SRK

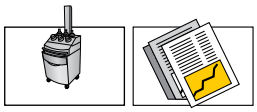
Thermal Chuck Collets with HSK DIN69893 Form E Tapered Shanks for Solid Carbide Tools Only



Designation	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key(1)	kg
HSK E32 SRK3X45	32.00	3.00	10.00	13.00	65.00	45.0	30.00	6.00	16.0	M4	2.00	0.17
HSK E32 SRK4X45	32.00	4.00	10.00	15.00	65.00	45.0	35.00	6.00	18.0	M5	2.00	0.17
HSK E32 SRK5X45	32.00	5.00	10.00	15.00	65.00	45.0	35.00	10.00	25.0	M4	2.00	0.17
HSK E32 SRK6X45	32.00	6.00	11.00	16.00	65.00	45.0	35.00	10.00	28.0	M4	2.00	0.17
HSK E32 SRK8X45 *	32.00	8.00	14.00	20.00	65.00	45.0	42.00	10.00	35.0	M4	2.00	0.19
HSK E32 SRK10X45	32.00	10.00	16.00	22.00	65.00	45.0	42.00	10.00	40.0	M4	2.00	0.20
HSK E32 SRK12X45	32.00	12.00	20.00	25.00	65.00	45.0	35.60	8.00	40.0	M4	2.00	0.23
HSK E40 SRK3X45	40.00	3.00	10.00	13.00	65.00	45.0	30.00	6.00	16.0	M5	2.50	0.24
HSK E40 SRK3X80	40.00	3.00	10.00	19.00	100.00	80.0	64.00	6.00	16.0	M5	2.50	0.30
HSK E40 SRK4X45	40.00	4.00	10.00	15.00	65.00	45.0	35.00	6.00	18.0	M5	2.50	0.24
HSK E40 SRK4X80	40.00	4.00	10.00	19.00	100.00	80.0	64.00	6.00	18.0	M5	2.50	0.31
HSK E40 SRK5X45	40.00	5.00	10.00	15.00	65.00	45.0	35.00	10.00	25.0	M4	2.00	0.24
HSK E40 SRK5X80	40.00	5.00	10.00	19.00	100.00	80.0	64.00	10.00	25.0	M4	2.00	0.32
HSK E40 SRK6X45	40.00	6.00	11.00	16.00	65.00	45.0	35.00	10.00	28.0	M5	2.50	0.23
HSK E40 SRK6X80	40.00	6.00	11.00	20.00	100.00	80.0	64.00	10.00	28.0	M5	2.50	0.32
HSK E40 SRK8X45	40.00	8.00	14.00	20.00	65.00	45.0	42.00	10.00	35.0	M5	2.50	0.27
HSK E40 SRK10X45	40.00	10.00	16.00	22.00	65.00	45.0	42.00	10.00	40.0	M5	2.50	0.27
HSK E40 SRK10X80	40.00	10.00	16.00	24.50	100.00	80.0	60.00	10.00	40.0	M8	4.00	0.39
HSK E40 SRK12X45	40.00	12.00	20.00	26.00	65.00	45.0	42.00	10.00	42.0	M5	2.50	0.32
HSK E40 SRK12X80	40.00	12.00	20.00	28.00	100.00	80.0	56.00	10.00	42.0	M10	5.00	0.46
HSK E50 SRK3X45	50.00	3.00	10.00	15.00	71.00	45.0	36.00	6.00	16.0	M5	2.50	0.45
HSK E50 SRK3X80	50.00	3.00	10.00	19.00	106.00	80.0	64.00	6.00	16.0	M5	2.50	0.51
HSK E50 SRK4X45	50.00	4.00	10.00	15.00	71.00	45.0	36.00	6.00	18.0	M5	2.50	0.49
HSK E50 SRK4X80	50.00	4.00	10.00	19.00	106.00	80.0	64.00	6.00	18.0	M5	2.50	0.50
HSK E50 SRK5X80	50.00	5.00	10.00	19.00	106.00	80.0	64.00	10.00	25.0	M6	3.00	0.51
HSK E50 SRK6X45	50.00	6.00	11.00	16.00	71.00	45.0	36.00	10.00	28.0	M5	2.50	0.45
HSK E50 SRK6X80	50.00	6.00	11.00	20.00	106.00	80.0	64.00	10.00	28.0	M5	2.50	0.51
HSK E50 SRK8X 45	50.00	8.00	14.00	20.00	71.00	45.0	43.00	10.00	35.0	M6	3.00	0.47
HSK E50 SRK8X 80	50.00	8.00	14.00	23.00	106.00	80.0	64.00	10.00	35.0	M6	3.00	0.56
HSK E50 SRK10X45	50.00	10.00	16.00	22.00	71.00	45.0	42.00	10.00	40.0	M6	3.00	0.48
HSK E50 SRK10X80	50.00	10.00	16.00	24.50	106.00	80.0	60.00	10.00	40.0	M8	4.00	0.60
HSK E50 SRK12X45	50.00	12.00	20.00	26.00	71.00	45.0	42.00	10.00	42.0	M6	3.00	0.50
HSK E50 SRK12X80	50.00	12.00	20.00	28.00	106.00	80.0	57.00	10.00	42.0	M10	5.00	0.60

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • To be used for carbide tools only.

(1) Adjustment screw hexagon key size



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HSK E-SRK

Spare Parts

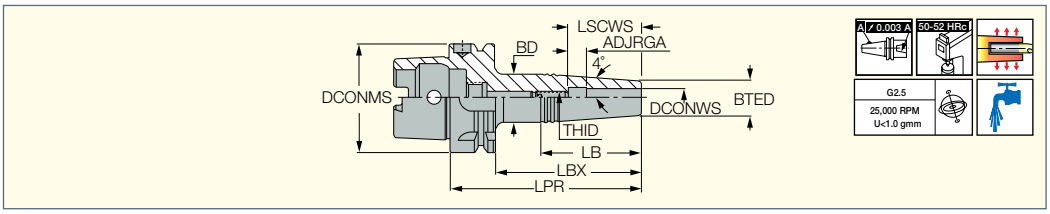
Designation			
HSK E32 SRK3X45	SR M4X10 DIN913	COOLING TUBE HSK A32*	WRENCH COOL TUBE HSK32*
HSK E32 SRK4X45	SR M5X20 DIN913	COOLING TUBE HSK A32*	WRENCH COOL TUBE HSK32*
HSK E32 SRK6X45	SR M4X20 DIN916	COOLING TUBE HSK A32*	WRENCH COOL TUBE HSK32*
HSK E32 SRK10X45	SR M4X20 DIN916	COOLING TUBE HSK A32*	WRENCH COOL TUBE HSK32*
HSK E40 SRK3X45	SR M5X10 DIN913DE	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK3X80	SR M5X10 DIN913DE	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK4X45	SR M5X10 DIN913DE	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK4X80	SR M5X10 DIN913DE	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK5X45	SR M4X20 DIN916	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK5X80	SR M4X20 DIN916	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK6X45	SR M5X20 DIN913	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK6X80	SR M5X20 DIN913	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK8X45	SR M5X20 DIN913	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK10X45	SR M5X10 DIN913DE	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK10X80	SR M8X20 DIN913	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK12X45	SR M5X10 DIN913DE	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SRK12X80	SR M10X18 DIN913	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E50 SRK3X45	SR M5X10 DIN913DE	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK3X80	SR M5X10 DIN913DE	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK4X45	SR M5X10 DIN913DE	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK4X80	SR M5X10 DIN913DE	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK5X80	SR M6X10 DIN916	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK6X45	SR M5X20 DIN913	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK6X80	SR M5X20 DIN913	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK8X 45	SR M6X10 DIN916	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK8X 80	PRESET M6X20B	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK10X45	SR M6X10 DIN916	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK10X80	SR M8X20 DIN913	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK12X45	SR M6X10 DIN916	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E50 SRK12X80	SR M10X18 DIN913	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*

* Optional, should be ordered separately

SHRINKIN HSK

HSK A-SRK

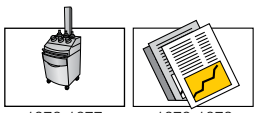
Thermal Chuck Collets with HSK DIN69893 Form A Tapered Shanks for Solid Carbide Tools Only



Designation	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key(1)	kg
HSK A63 SRK 3X50	63.00	3.00	10.00	17.00	76.00	50.0	-	6.00	16.0	M6	3.00	0.68
HSK A63 SRK 3X85	63.00	3.00	10.00	21.00	111.00	85.0	79.00	6.00	16.0	M6	3.00	0.74
HSK A63 SRK 4X50	63.00	4.00	10.00	17.00	76.00	50.0	-	6.00	18.0	M6	3.00	0.68
HSK A63 SRK 4X85	63.00	4.00	10.00	21.00	111.00	85.0	79.00	6.00	18.0	M6	3.00	0.73
HSK A63 SRK 5X50	63.00	5.00	10.00	17.00	76.00	50.0	-	6.00	21.0	M6	3.00	0.68
HSK A63 SRK 5X85	63.00	5.00	10.00	21.00	111.00	85.0	79.00	6.00	21.0	M6	3.00	0.76
HSK A63 SRK 6X50	63.00	6.00	11.00	18.00	76.00	50.0	-	6.00	24.0	M8	4.00	0.67
HSK A63 SRK 6X85	63.00	6.00	11.00	22.00	111.00	85.0	79.00	6.00	24.0	M8	4.00	0.74
HSK A63 SRK 8X50	63.00	8.00	14.00	20.00	76.00	50.0	43.00	11.00	36.0	M6	3.00	0.71
HSK A63 SRK 8X85	63.00	8.00	14.00	23.00	111.00	85.0	64.00	11.00	36.0	M6	3.00	0.80
HSK A63 SRK 10X50	63.00	10.00	16.00	23.00	76.00	50.0	-	11.00	41.0	M8	4.00	0.72
HSK A63 SRK 10X85	63.00	10.00	16.00	26.00	111.00	85.0	72.00	11.00	41.0	M8	4.00	0.82
HSK A63 SRK 12X50	63.00	12.00	20.00	27.00	76.00	50.0	-	11.00	43.0	M8	4.00	0.75
HSK A63 SRK 12X85	63.00	12.00	20.00	30.00	111.00	85.0	72.00	11.00	43.0	M8	4.00	0.92

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • To be used for carbide tools only.

(1) Key for the adjustment screw.



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Spare Parts

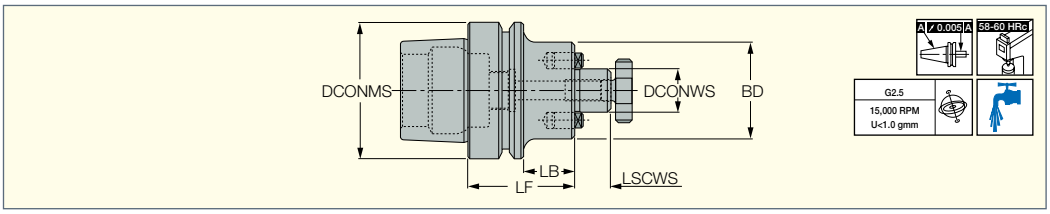
Designation			
HSK A63 SRK 3X50	SR M6X10 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 3X85	SR M6X10 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 4X50	SR M6X10 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 4X85	SR M6X10 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 5X50	SR M6X10 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 5X85	SR M6X10 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 6X50	SR M8X12 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 6X85	SR M8X12 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 8X50	PRESET M6X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 8X85	PRESET M6X20B	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 10X50	SR M8X12 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 10X85	SR M8X20 DIN913	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 12X50	SR M8X12 DIN916	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SRK 12X85	SR M8X20 DIN913	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*

* Optional, should be ordered separately

HSK

HSK E-SEM

ISO 3937 Shell Mill Holders
with HSK E DIN69893
Form E Tapered Shanks



Designation	DCONMS	DCONWS	BD	LF	LB	LSCWS	kg
HSK E40 SEM 16X50	40.00	16.00	38.00	50.00	30.0	17.00	0.45
HSK E40 SEM 22X50	40.00	22.00	47.00	50.00	30.0	19.00	0.54
HSK E50 SEM 22X60	50.00	22.00	47.00	60.00	34.0	19.00	0.85
HSK E63 SEM 16X50	63.00	16.00	38.00	50.00	24.0	17.00	0.90
HSK E63 SEM 22X50	63.00	22.00	47.00	50.00	24.0	19.00	1.03

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

Spare Parts

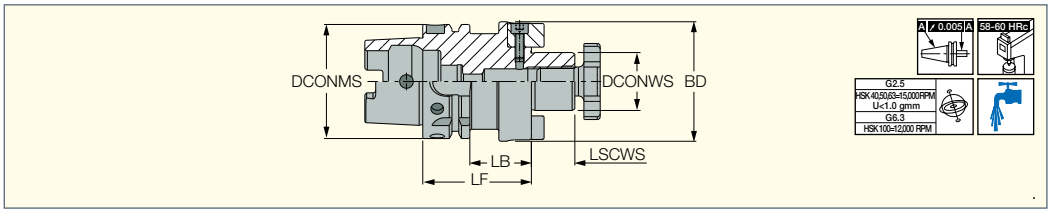
Designation				
HSK E40 SEM 16X50	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E40 SEM 22X50	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE HSK A40*	WRENCH COOL TUBE HSK40*
HSK E50 SEM 22X60	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*
HSK E63 SEM 16X50	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK E63 SEM 22X50	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*

* Optional, should be ordered separately

HSK

HSK A-SEM

ISO 3937 Shell Mill Holders
with HSK DIN69893 Form
A Tapered Shanks



Designation	DCONMS	DCONWS	BD	LF	LSCWS	LB	kg
HSK A50 SEM16X50*	50.00	16.00	38.00	50.00	17.00	24.0	0.60
HSK A50 SEM22X60*	50.00	22.00	47.00	60.00	19.00	34.0	0.80
HSK A50 SEM27X60*	50.00	27.00	58.00	60.00	21.00	34.0	0.96
HSK A63 SEM16X50	63.00	16.00	38.00	50.00	17.00	24.0	0.86
HSK A63 SEM22X50	63.00	22.00	47.00	50.00	19.00	24.0	0.60
HSK A63 SEM27X60	63.00	27.00	58.00	60.00	21.00	34.0	1.30
HSK A63 SEM32X60	63.00	32.00	66.00	60.00	24.00	34.0	1.41
HSK A63 SEM40X60	63.00	40.00	82.00	60.00	27.00	24.0	1.76
HSK A100 SEM22X50	100.00	22.00	47.00	50.00	19.00	21.0	2.30
HSK A100 SEM27X50	100.00	27.00	58.00	50.00	21.00	21.0	2.48
HSK A100 SEM32X50	100.00	32.00	66.00	50.00	24.00	21.0	2.63
HSK A100 SEM40X60	100.00	40.00	82.00	60.00	27.00	31.0	3.37
HSK A100 SEM50X70	100.00	50.00	81.00	70.00	30.00	41.0	4.29

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

Spare Parts

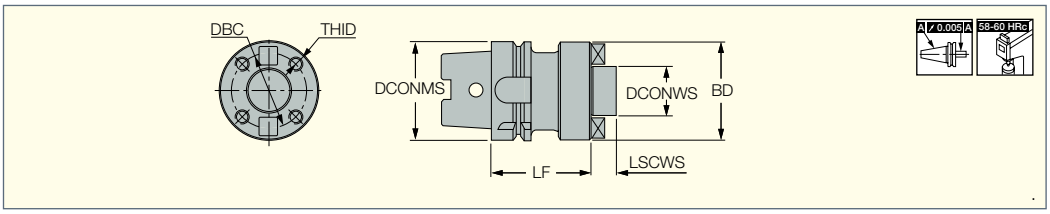
Designation						
HSK A50 SEM16X50*	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*	DR.DOG 8S	SR M3X10 DIN912
HSK A50 SEM22X60*	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*		SR M4X10 DIN912
HSK A50 SEM27X60*	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*	DR.DOG 12S	
HSK A63 SEM16X50	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	DR.DOG 8S	SR M3X10 DIN912
HSK A63 SEM22X50	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	DR.DOG 10S	SR M4X10 DIN912
HSK A63 SEM27X60	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	DR.DOG 12S	SR M5X14 DIN912
HSK A63 SEM32X60	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	DR.DOG 14X13S	SR M5X14 DIN912
HSK A63 SEM40X60	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	DR.DOG 16X18S	SR M6X20 DIN912
HSK A100 SEM22X50	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	DR.DOG 10S	SR M4X10 DIN912
HSK A100 SEM27X50	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	DR.DOG 12S	SR M5X14 DIN912
HSK A100 SEM32X50	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	DR.DOG 14X13S	SR M5X14 DIN912
HSK A100 SEM40X60	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	DR.DOG 16X18S	SR M6X20 DIN912
HSK A100 SEM50X70	M24 CLAMP SCREW SEM50					SR M6X16 DIN912

* Optional, should be ordered separately

HSK

HSK A-FM

DIN 6353 Face Mill Holders with HSK DIN69893 Form A Tapered Shanks



Designation	DCONMS	DCONWS	BD	LF	LSCWS	DBC	THID	kg
HSK A100 FM60X70	100.00	60.00	128.00	70.00	40.00	101.60	M16	5.77

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Peripheral clamping screws are not supplied.

1102

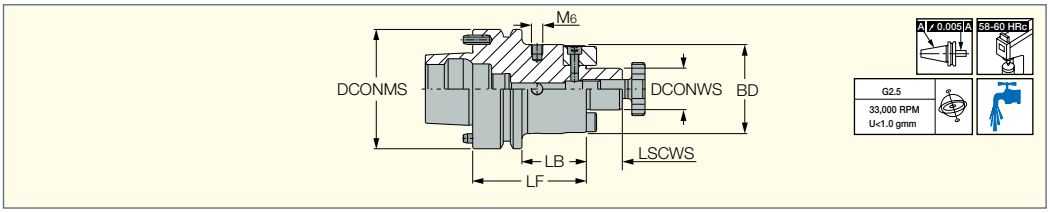
Spare Parts

Designation		
HSK A-FM	DR. DOG 1E	SR DIN 912 M12X25

HSK

HSK FM-SEM

Shell Mill Adapters with HSK DIN69893 FM Tapered Shanks with Two Pins for MAKINO Machine Models MAG



Designation	DCONMS	DCONWS	LF	BD	LSCWS	LB	kg
HSK FM63 SEM 22X60	63.00	22.00	60.00	47.00	19.00	34.0	1.13

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately) • The orientation pins can be removed, turning the toolholder into a standard HSK F63 type

Spare Parts

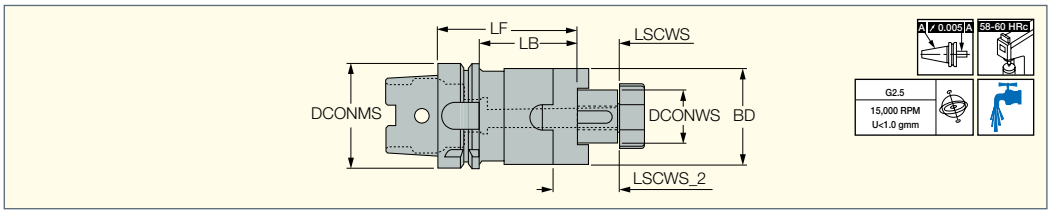
Designation				
HSK FM63 SEM 22X60	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*

* Optional, should be ordered separately

HSK

HSK A-SEMC

DIN 6358 COMBI Shell Mill Holders with HSK DIN 69893 Form A Tapered Shanks



Designation	DCONMS	DCONWS	BD	LF	LB	LSCWS	LSCWS_2	kg
HSK A50 SEMC16X50*	50.00	16.00	32.00	50.00	24.0	17.00	27.00	0.80
HSK A63 SEMC16X60	63.00	16.00	32.00	60.00	34.0	17.00	27.00	0.82
HSK A63 SEMC22X60	63.00	22.00	40.00	60.00	34.0	19.00	31.00	0.91
HSK A63 SEMC27X60	63.00	27.00	48.00	60.00	34.0	21.00	33.00	1.00
HSK A63 SEMC32X60	63.00	32.00	58.00	60.00	34.0	24.00	38.00	1.13
HSK A63 SEMC40X70	63.00	40.00	70.00	70.00	44.0	27.00	41.00	1.52
HSK A100 SEMC16X60	100.00	16.00	32.00	60.00	31.0	17.00	27.00	2.17
HSK A100 SEMC22X60	100.00	22.00	40.00	60.00	31.0	19.00	31.00	2.24
HSK A100 SEMC27X60	100.00	27.00	48.00	60.00	31.0	21.00	33.00	2.35
HSK A100 SEMC32X60	100.00	32.00	58.00	60.00	31.0	24.00	38.00	2.50
HSK A100 SEMC40X70	100.00	40.00	70.00	70.00	41.0	27.00	41.00	3.04
HSK A100 SEMC50X80	100.00	50.00	90.00	80.00	51.0	30.00	46.00	4.03

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Axial driving key is not supplied. • When mounting slitting cutters, remove the driving ring and use spacer rings. • Verify that the weight of the entire tool assembly does not exceed the machine spindle's carrying capability.

Spare Parts

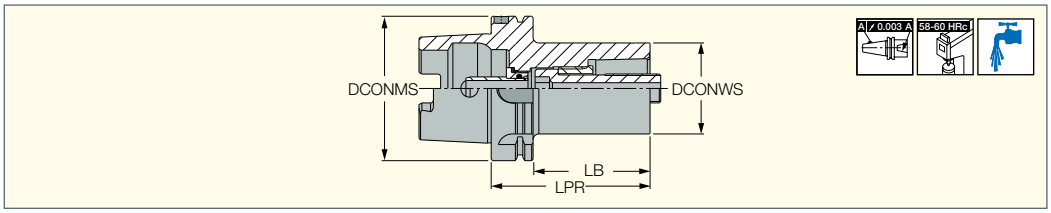
Designation						
HSK A50 SEMC16X50*	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE HSK A50*	WRENCH COOL TUBE HSK50*	
HSK A63 SEMC16X60	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	KEY SEMC 16 4X4X20
HSK A63 SEMC22X60	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	KEY SEMC 22 6X6X25
HSK A63 SEMC27X60	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	KEY SEMC 27 7X7X25
HSK A63 SEMC32X60	32 D.RING SEMC	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	KEY SEMC 32 8X7X28
HSK A63 SEMC40X70	40 D.RING SEMC	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	KEY SEMC 40 10X8X32
HSK A100 SEMC16X60	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	KEY SEMC 16 4X4X20
HSK A100 SEMC22X60	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	KEY SEMC 22 6X6X25
HSK A100 SEMC27X60	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	KEY SEMC 27 7X7X25
HSK A100 SEMC32X60	32 D.RING SEMC	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	KEY SEMC 32 8X7X28
HSK A100 SEMC40X70	40 D.RING SEMC	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	KEY SEMC 40 10X8X32
HSK A100 SEMC50X80	50 D.RING SEMC	M24 CLAMP SCREW SEM50	WRENCH M24 SEMC 50*	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*	KEY SEMC 50 12X8X36

* Optional, should be ordered separately

CAMFIX HSK

HSK-C#

CAMFIX (ISO 26623-1) Holders with HSK DIN 69893 Form A Tapered Shanks



Designation	DCONMS	DCONWS	LPR	LB	kg
C4 AD HSK A63WHX080	63.00	40.00	80.00	54.00	1.10
C5 AD HSK A63WHX90	63.00	50.00	90.00	64.00	1.44
C5 AD HSK A100WHX100	100.00	50.00	100.00	71.00	2.90
C6 AD HSK A100WHX110	100.00	63.00	110.00	81.00	3.61
C8 AD HSK A100WHX120	100.00	80.00	120.00	91.00	4.79
C8 AD HSK A125WHX130	125.00	80.00	130.00	101.00	6.50

• Note: To enable clamping the part to be attached, first remove the cooling tube

Spare Parts

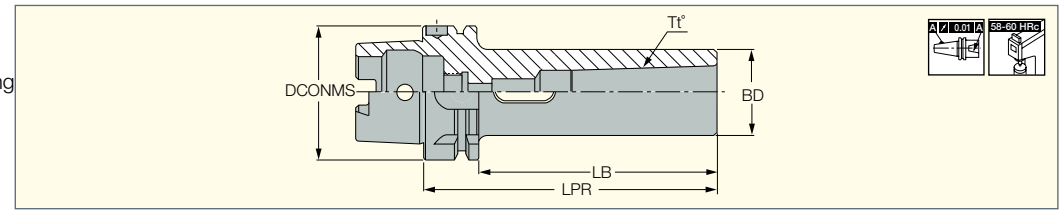
Designation						
C4 AD HSK A63WHX080	SR M14X58 C4	HW 8.0*	MT RING M22X17XC4	COOLING TUBE HSK A63 C5	WRENCH COOL TUBE HSK63*	WRENCH C4 DRW NUT*
C5 AD HSK A63WHX90	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5	COOLING TUBE HSK A63 C5	WRENCH COOL TUBE HSK63*	WRENCH C5 DRW NUT*
C5 AD HSK A100WHX100	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5	COOLING TUBE HSK A100C6/8	WRENCH COOL TUBE HSK100*	WRENCH C5 DRW NUT*
C6 AD HSK A100WHX110	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	COOLING TUBE HSK A100C6/8	WRENCH COOL TUBE HSK100*	WRENCH C6-8 DRW NUT*
C8 AD HSK A100WHX120	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	COOLING TUBE HSK A100C6/8	WRENCH COOL TUBE HSK100*	WRENCH C6-8 DRW NUT*
C8 AD HSK A125WHX130	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	COOLING TUBE HSK A125C8	WRENCH COOL TUBE HSK125*	WRENCH C6-8 DRW NUT*

* Optional, should be ordered separately

HSK

HSK A-MT

DIN 6383/DIN 228-2 Form D Tang Morse Taper Adapters with DIN 69893/A HSK Tapered Shanks



Designation	DCONMS	Tt°	BD	LPR	LB	kg		
HSK A63 MT1X110	63.00	MT1	25.00	110.00	84.0	0.92	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 MT2X120	63.00	MT2	32.00	120.00	94.0	1.09	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 MT3X140	63.00	MT3	40.00	140.00	114.0	1.45	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 MT4X160	63.00	MT4	48.00	160.00	134.0	1.89	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 MT1X110	100.00	MT1	25.00	110.00	81.0	2.27	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 MT2X120	100.00	MT2	32.00	120.00	91.0	2.39	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 MT3X150	100.00	MT3	40.00	150.00	121.0	2.83	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 MT4X170	100.00	MT4	48.00	170.00	141.0	3.31	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 MT5X200	100.00	MT5	63.00	200.00	171.0	4.60	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

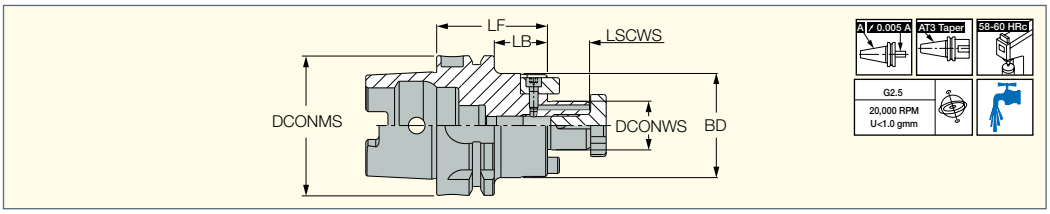
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

* Optional, should be ordered separately

HSK

HSK A-SEM-C

Shell Mill Holders with Coolant Holes and DIN69893 form A HSK Tapered Shanks



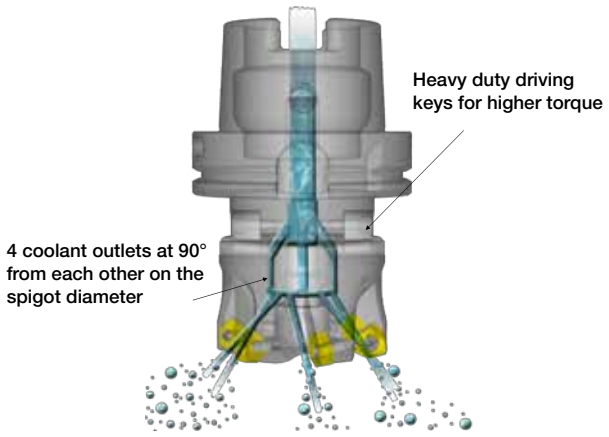
Designation	DCONMS	DCONWS	BD	LF	LB	LSCWS	kg
HSK A63 SEM16X100C	63.00	16.00	38.00	100.00	74.0	17.00	1.16
HSK A63 SEM16X50C	63.00	16.00	38.00	50.00	24.0	17.00	0.84
HSK A63 SEM22X100C	63.00	22.00	47.00	100.00	74.0	19.00	1.68
HSK A63 SEM22X50C	63.00	22.00	47.00	50.00	24.0	19.00	0.97
HSK A63 SEM27X100C	63.00	27.00	58.00	100.00	74.0	21.00	2.00
HSK A63 SEM27X60C	63.00	27.00	58.00	60.00	34.0	21.00	1.28
HSK A63 SEM32X60C	63.00	32.00	66.00	60.00	34.0	24.00	1.38
HSK A100 SEM16X100C	100.00	16.00	38.00	100.00	71.0	17.00	2.59
HSK A100 SEM16X50C	100.00	16.00	38.00	50.00	21.0	17.00	2.20
HSK A100 SEM22X100C	100.00	22.00	47.00	100.00	71.0	19.00	3.15
HSK A100 SEM22X50C	100.00	22.00	47.00	50.00	21.0	19.00	1.50
HSK A100 SEM27X100C	100.00	27.00	58.00	100.00	71.0	21.00	3.46
HSK A100 SEM27X50C	100.00	27.00	58.00	50.00	21.0	21.00	2.70
HSK A100 SEM32X100C	100.00	32.00	66.00	100.00	71.0	24.00	2.81
HSK A100 SEM32X50C	100.00	32.00	66.00	50.00	21.0	24.00	2.60

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Balanced to G2.5/ HSK A63=20,000 RPM HSK A100=15,000 RPM

HSK A-SEM-C

Advantages

- Prolonged insert life (especially when milling titanium and aluminum)
- Symmetrical design – may be used at high **RPM**
- Heavy duty driving keys for higher torque transfer
- Dramatically improved chip evacuation
- Improved surface finish



Spare Parts

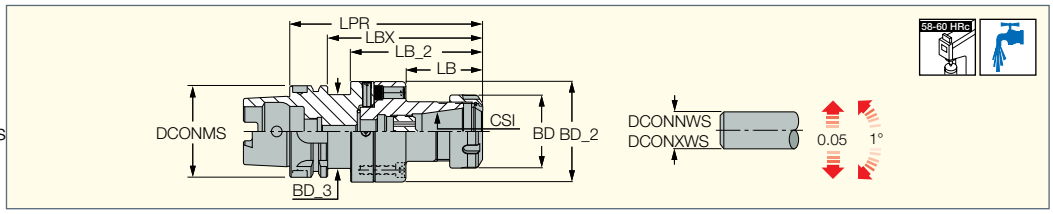
Designation					
HSK A63 SEM16X100C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SEM16X50C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SEM22X100C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SEM22X50C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SEM27X100C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X12 DIN912	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SEM27X60C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X12 DIN912	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 SEM32X60C	M16 CLAMP SCREW SEM32	DR.DOG 14X13S	SR M5X14DIN912	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 SEM16X100C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SEM16X50C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SEM22X100C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SEM22X50C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SEM27X100C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X12 DIN912	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SEM27X50C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X12 DIN912	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SEM32X100C	M16 CLAMP SCREW SEM32	DR.DOG 14X13S	SR M5X14DIN912	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 SEM32X50C	M16 CLAMP SCREW SEM32	DR.DOG 14X13S	SR M5X14DIN912	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

FINEFIT HSK

ADJ HSK A-ER

DIN6499 ER Collet Chucks with Center Alignment (FINEFIT) and HSK DIN69893/A Tapered Shanks

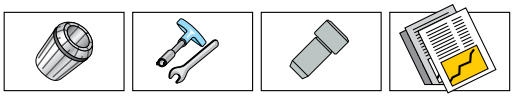


Designation	DCONMS	CSI	DCONNWS(1)	DCONXWS(2)	BD_2	BD_3	BD	LPR	LBX	LB	LB_2	kg
ADJ HSK A63 D70 ER32	63.00	ER32	2.0	20.0	70.00	46.00	50.00	134.50	108.5	52.50	92.50	2.25
ADJ HSK A100 D70 ER32	100.00	ER32	2.0	20.0	70.00	-	50.00	130.00	101.0	53.00	-	3.64

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Radial adjustment 0.05 mm Angular adjustment 1°

(1) Minimum diameter

(2) Maximum diameter



1065-1069 | 1105 | 1104 | 932, 1063-1065

Spare Parts

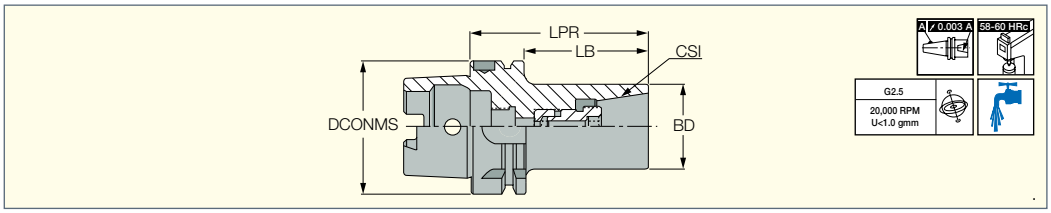
Designation						
ADJ HSK A-ER	NUT ER32 TOP*	ADJUST SPACER 9.5X5	PRESET ER-JET 22X1.5	SR M8X1X16 DIN916	SR M6X30 DIN912	ADJ ER32 NOSE

* Optional, should be ordered separately

CLICKIN HSK

HSK A-ER-CLICKIN

CLICKIN Quick Change Connection Adapters with HSK DIN 69893/A Tapered Shanks



Designation	DCONMS	CSI	LPR	LB	BD	kg
HSK A63 ER32 CLICK-IN	63.00	32 SRF	85.00	59.0	41.00	1.06

• Tightening torque: 24 Kgxm • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

1078

Spare Parts

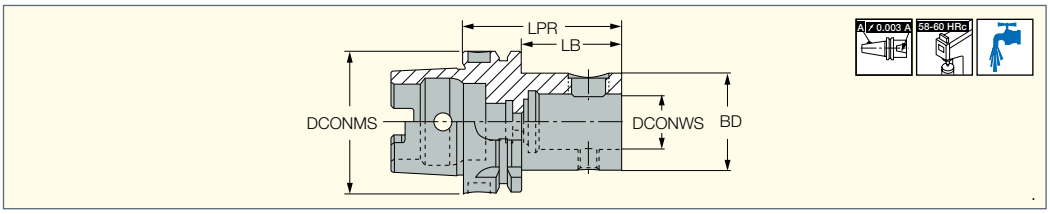
Designation						
HSK A63 ER32 CLICK-IN	SR M16-M19.5 CLICK-IN	PIN 3X4MM	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*	SR M16X10CLICK-IN	SR M4X4 DIN913

* Optional, should be ordered separately

HSK CLICKFIT

HSK A-CF (CLICKFIT)

Modular Connections (CLICKFIT) with HSK DIN69893/A Tapered Shanks



Designation	DCONMS	DCONWS	LPR	LB	BD	kg
HSK A63 CF4-S	63.00	25.00	70.00	44.0	44.50	1.00
HSK A80 CF4-S	80.00	25.00	73.00	47.0	44.50	1.50
HSK A100 CF4-S	100.00	25.00	76.00	47.0	44.50	2.42

• Tightening torque: 6 Kgxm • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

928

Spare Parts

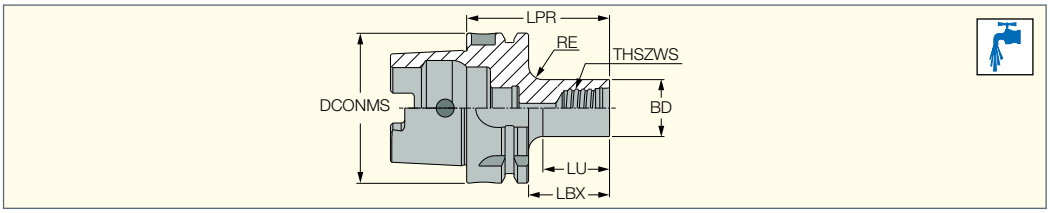
Designation						
HSK A63 CF4-S	SCREW M16X1.5 FOR CF4	WRENCH HW 8 200X36 DIN911	OR 15X3N	WRENCH REAL C.F M8	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A80 CF4-S	SCREW M16X1.5 FOR CF4	WRENCH HW 8 200X36 DIN911	OR 15X3N	WRENCH REAL C.F M8	COOLING TUBE HSK A 80*	WRENCH COOL TUBE HSK80*
HSK A100 CF4-S	SCREW M16X1.5 FOR CF4	WRENCH HW 8 200X36 DIN911	OR 15X3N	WRENCH REAL C.F M8	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

MULTI-MASTER HSK

MM S-A-HSK

MULTI-MASTER Threaded Connection Shanks with an Integral HSK DIN 69893 Form A Tapered Adaptation



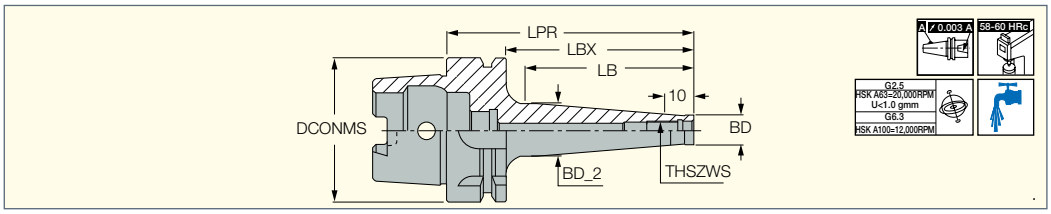
Designation	DCONMS	THSZWS	BD	LPR	LBX	LU	RE
MM S-A-H035-HSK A40-T05	40	T05	7.60	35.00	15.0	10.00	5.0
MM S-A-H040-HSK A40-T06	40	T06	9.25	40.00	20.0	15.00	5.0
MM S-A-H045-HSK A40-T08	40	T08	11.60	45.00	25.0	20.00	5.0
MM S-A-H050-HSK A40-T10	40	T10	15.30	50.00	30.0	25.00	5.0
MM S-A-H050-HSK A40-T12	40	T12	18.30	50.00	30.0	25.00	5.0
MM S-A-H050-HSK A63-T06	63	T06	9.25	50.00	24.0	18.00	6.0
MM S-A-H050-HSK A63-T08	63	T08	11.60	50.00	24.0	18.00	6.0
MM S-A-H055-HSK A63-T10	63	T10	15.30	55.00	29.0	23.00	6.0
MM S-A-H055-HSK A63-T12	63	T12	18.30	55.00	29.0	23.00	6.0
MM S-A-H060-HSK A63-T15	63	T15	23.90	60.00	34.0	28.00	6.0

• Do not apply lubricant to the threaded connection • For adaptation options, see page 1044

FLEXFIT HSK

HSK A-ODP (FLEXFIT)

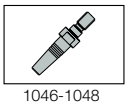
FLEXFIT Threaded Adaptation
with HSK DIN69893/A
Tapered Shanks



Designation	DCONMS	THSZWS	BD	BD_2	LPR	LBX	LB	kg
HSK A63 ODP6X109	63.00	M06	9.80	23.00	109.00	83.0	75.00	0.74
HSK A63 ODP6X59	63.00	M06	9.80	11.50	59.00	33.0	25.00	0.66
HSK A63 ODP8X109	63.00	M08	13.10	23.00	109.00	83.0	75.00	0.77
HSK A63 ODP8X59	63.00	M08	13.10	15.00	59.00	33.0	25.00	0.68
HSK A63 ODP10X109	63.00	M10	18.00	28.00	109.00	83.0	75.00	0.87
HSK A63 ODP10X59	63.00	M10	18.00	20.00	59.00	33.0	25.00	0.70
HSK A63 ODP12X109	63.00	M12	21.00	31.00	109.00	83.0	75.00	0.93
HSK A63 ODP12X59	63.00	M12	21.00	24.00	59.00	33.0	25.00	0.71
HSK A63 ODP16X109	63.00	M16	29.00	34.00	109.00	83.0	75.00	1.05
HSK A63 ODP16X59	63.00	M16	29.00	34.60	59.00	33.0	25.00	0.79
HSK A100 ODP12X137	100.00	M12	23.00	30.00	137.00	108.0	100.00	2.58
HSK A100 ODP12X187	100.00	M12	23.00	40.00	187.00	158.0	150.00	2.86
HSK A100 ODP12X237	100.00	M12	23.00	46.00	237.00	208.0	200.00	3.40
HSK A100 ODP12X87	100.00	M12	23.00	30.00	87.00	58.0	50.00	2.23
HSK A100 ODP16X137	100.00	M16	29.00	41.50	137.00	108.0	100.00	2.68
HSK A100 ODP16X187	100.00	M16	29.00	55.00	187.00	158.0	150.00	3.58
HSK A100 ODP16X237	100.00	M16	29.00	55.00	237.00	208.0	200.00	4.07
HSK A100 ODP16X87	100.00	M16	29.00	31.50	87.00	58.0	50.00	2.20

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).


1044


1046-1048

Spare Parts

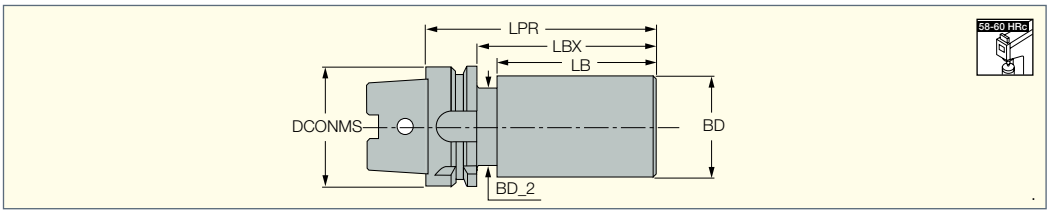
Designation		
HSK A63 ODP6X109	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ODP6X59	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ODP8X109	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ODP8X59	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ODP10X109	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ODP10X59	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ODP12X109	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ODP12X59	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ODP16X109	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A63 ODP16X59	COOLING TUBE HSK A63*	WRENCH COOL TUBE HSK63*
HSK A100 ODP12X137	COOLING TUBE HSK A100	WRENCH COOL TUBE HSK100
HSK A100 ODP12X187	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ODP12X237	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ODP12X87	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ODP16X137	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ODP16X187	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ODP16X237	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*
HSK A100 ODP16X87	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

HSK

HSK A-B-MN (blanks)

Blanks with HSK DIN69893/A
Tapered Shanks



Designation	DCONMS	BD	BD_2	LPR	LBX	LB	kg
HSK A50 B16MN 100	50.00	53.00	41.80	100.00	74.0	58.00	1.56
HSK A50 B16MN 200	50.00	53.00	41.80	200.00	174.0	158.00	3.29
HSK A63 B16MN 100	63.00	63.00	52.80	100.00	74.0	55.50	2.31
HSK A63 B16MN 200	63.00	63.00	52.80	200.00	174.0	155.50	4.75
HSK A100 B16MN 100	100.00	102.00	85.00	100.00	71.0	54.80	6.22
HSK A100 B16MN 200	100.00	102.00	85.00	200.00	171.0	154.80	12.90

• Material: Case hardened alloy steel, nose core hardness 22-30 HRC, nose surface hardness 57-60 HRC • Tensile strength: min 760 Mpa

Spare Parts

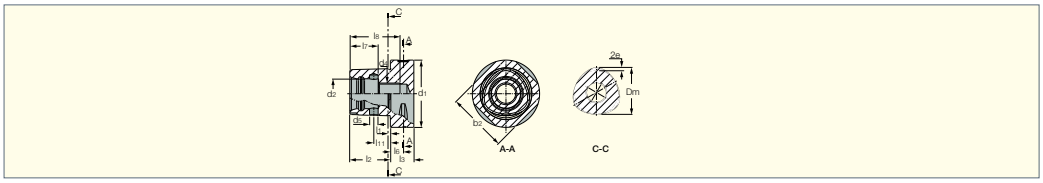
Designation		
HSK A-B-MN (blanks)	COOLING TUBE HSK A100*	WRENCH COOL TUBE HSK100*

* Optional, should be ordered separately

CAMFIX DIN 26623-1

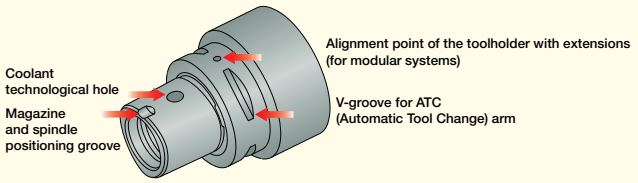
CAMFIX

CAMFIX ISO 26623-1
Toolholder Standard



CAMFIX	b_2	d_1 ±0.1	d_2	d_4	d_5 ±0.1	D_m	e	l_1	l_2 ±0.1	l_3 min	l_6 ±0.15	l_7 ±0.15	l_8 min
C3	28,3	32	15	M12x1.5	3,6	22	0,7	2,5	19	15	6	13	25
C4	35,3	40	18	M14x1.5	4,6	28	0,9	2,5	24	20	8	15	30
C5	44,4	50	21	M16x1.5	6,1	35	1,12	3	30	20	10	20	37
C6	55,8	63	28	M20x2	8,1	44	1,4	3	38	22	12	27	47
C8	71,1	80	32	M20x2	9,1	55	2	3	48	30	12	28	48
C8X	88,7	100	32	M20x2	9,1	55	2	3	48	32	16	28	48

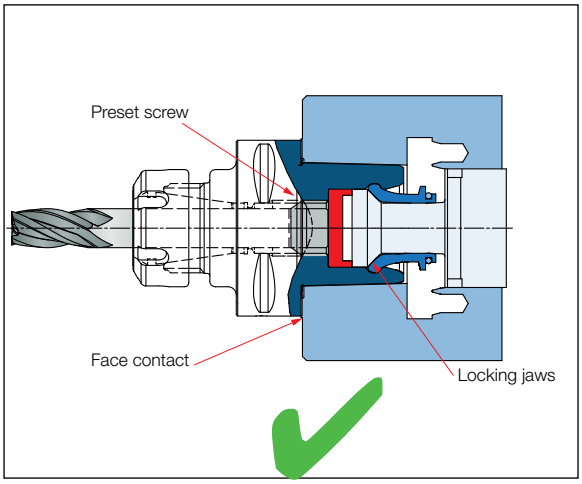
CAMFIX - ISO 26623-1
Standard Quick Change Shanks



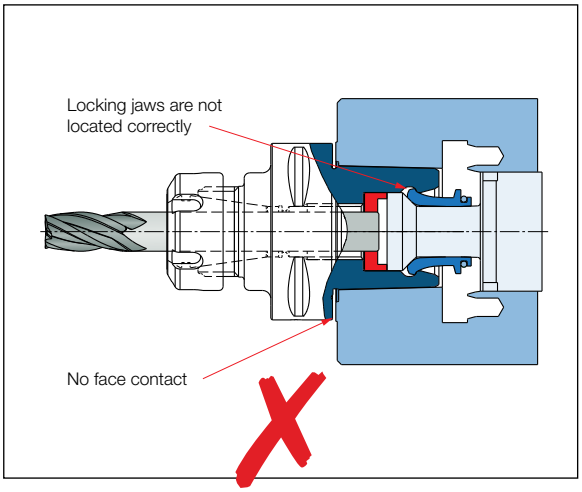
Features

- **Symmetrical design:** Due to the symmetrical design, the torque load is distributed on the polygon, providing a self-centering effect.
- **Rigidity:** The CAMFIX clamping mechanism is extremely rigid against bending forces.
- **Accuracy:** The taper and face contact ensure high repeatability within 2 microns, when operated with an automatic tool changer.

CAMFIX Chucking Instructions
Please be careful when clamping cylindrical shank cutting tools into **CAMFIX** holders such as **ER** collet chucks or **EM** holders. In cases when the diameter of the shank is smaller than the **CAMFIX** through hole, it may penetrate into the drawbar mechanism area and prevent proper clamping.

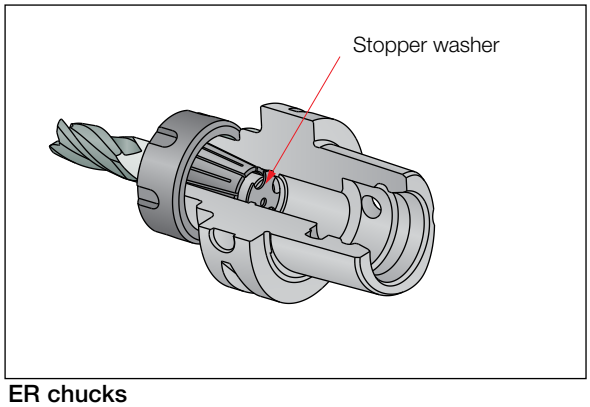


Correct clamping
Use a preset screw to prevent the cutter shank from entering into the clamping mechanism zone, so the drawbar locking jaws can function correctly.



Wrong clamping
The cutter shank enters into the locking mechanism zone, preventing the drawbar locking jaws to reach their correct clamping position.

In order to prevent too deep insertion of the cutting tools, the short length **ER16**, 20, 25, 32, 40 collet chucks and **EM** 6-50 mm endmill holders are equipped with permanent stoppers.

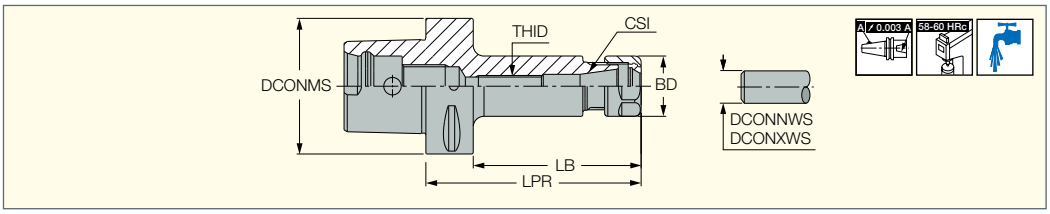


ER chucks
A special washer is installed as a permanent stopper.

CAMFIX

C#-ER

DIN 6499 ER Collet Chucks
with CAMFIX (ISO 26623-1)
Exchangeable Tapered Shanks



Designation	DCONMS	CSI	DCONNWS(2)	DCONXWS(3)	BD	LPR	LB	THID	kg
C3 ER16X45	32.00	ER16	1.0	10.0	28.00	45.00	30.0	M10	0.20
C3 ER20X45	32.00	ER20	1.0	13.0	34.00	45.00	30.0	-	0.22
C4 ER16X70	40.00	ER16	1.0	10.0	28.00	70.00	50.0	M10	0.38
C4 ER20X35 (1)	40.00	ER20	1.0	13.0	34.00	35.00	27.0	-	0.16
C4 ER20X52	40.00	ER20	1.0	13.0	34.00	52.00	32.0	-	0.29
C4 ER25X38 (1)	40.00	ER25	1.0	16.0	42.00	38.00	30.0	-	0.18
C4 ER25X52	40.00	ER25	1.0	16.0	42.00	52.00	32.0	-	0.30
C4 ER32X54	40.00	ER32	2.0	20.0	50.00	54.00	34.0	-	0.48
C5 ER16X100	50.00	ER16	1.0	10.0	28.00	100.00	80.0	M10	0.78
C5 ER16X130	50.00	ER16	1.0	10.0	28.00	130.00	110.0	M10	0.79
C5 ER20X055	50.00	ER20	1.0	13.0	34.00	55.00	35.0	-	0.50
C5 ER20X100	50.00	ER20	1.0	13.0	34.00	100.00	80.0	M12	0.79
C5 ER20X130	50.00	ER20	1.0	13.0	34.00	130.00	110.0	M12	0.97
C5 ER25X055	50.00	ER25	1.0	16.0	42.00	55.00	35.0	-	0.52
C5 ER25X100	50.00	ER25	1.0	16.0	42.00	100.00	80.0	M16	0.93
C5 ER32X057	50.00	ER32	2.0	20.0	50.00	57.00	36.0	-	0.50
C5 ER32X100	50.00	ER32	2.0	20.0	50.00	100.00	36.0	M22X1.5	1.05
C6 ER16X100	63.00	ER16	1.0	10.0	28.00	100.00	78.0	M10	0.99
C6 ER16X130	63.00	ER16	1.0	10.0	28.00	130.00	108.0	M10	1.12
C6 ER16X160	63.00	ER16	1.0	10.0	28.00	160.00	138.0	M10	1.24
C6 ER20X060	63.00	ER20	1.0	13.0	34.00	60.00	38.0	-	0.84
C6 ER20X100	63.00	ER20	1.0	13.0	34.00	100.00	78.0	M12	1.09
C6 ER20X130	63.00	ER20	1.0	13.0	34.00	130.00	108.0	M12	1.26
C6 ER20X160	63.00	ER20	1.0	13.0	34.00	160.00	138.0	M12	1.47
C6 ER25X060	63.00	ER25	1.0	16.0	42.00	60.00	38.0	-	0.86
C6 ER25X100	63.00	ER25	1.0	16.0	42.00	100.00	78.0	M16	1.39
C6 ER25X130	63.00	ER25	1.0	16.0	42.00	130.00	108.0	M16	1.68
C6 ER25X160	63.00	ER25	1.0	16.0	42.00	160.00	138.0	M16	1.83
C6 ER32X060	63.00	ER32	2.0	20.0	50.00	60.00	36.0	-	1.06
C6 ER32X100	63.00	ER32	2.0	20.0	50.00	100.00	78.0	M22X1.5	1.38
C6 ER32X130	63.00	ER32	2.0	20.0	50.00	130.00	108.0	M22X1.5	1.75
C6 ER32X160	63.00	ER32	2.0	20.0	50.00	160.00	138.0	M22X1.5	2.21
C6 ER40X065	63.00	ER40	3.0	26.0	63.00	65.00	37.0	-	0.93
C6 ER40X100	63.00	ER40	3.0	26.0	63.00	100.00	78.0	M28X1.5	1.59
C6 ER40X130	63.00	ER40	3.0	26.0	63.00	130.00	108.0	M28X1.5	2.18
C8 ER32X100	80.00	ER32	2.0	20.0	50.00	100.00	70.0	M22x1.5	2.20
C8 ER32X160	80.00	ER32	2.0	20.0	50.00	160.00	130.0	M22x1.5	3.08
C8 ER32X70	80.00	ER32	2.0	20.0	50.00	70.00	40.0	-	1.81
C8 ER40X100	80.00	ER40	3.0	26.0	63.00	100.00	70.0	M28x1.5	0.86
C8 ER40X160	80.00	ER40	3.0	26.0	63.00	160.00	130.0	M28x1.5	3.80
C8 ER40X70	80.00	ER40	3.0	26.0	63.00	70.00	40.0	-	1.82

(1) **Short adapter without gripper grooves:** NOT for ATC.Cannot be used in Camfix modular system (Extension, Reduction atc.)
(2) Minimum diameter
(3) Maximum diameter

C#-ER

Spare Parts

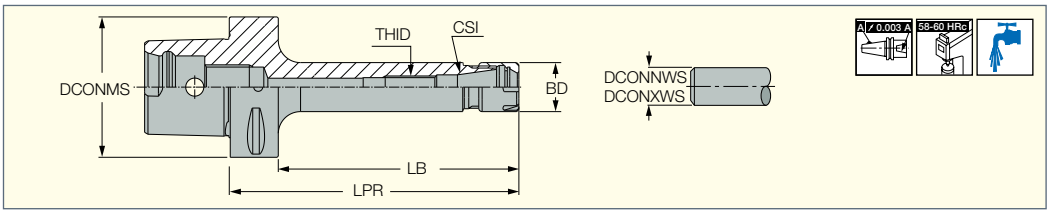
Designation				
C3 ER16X45	NUT ER16 TOP	WRENCH ER16*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 ER20X45	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C4 ER16X70	NUT ER16 TOP	WRENCH ER16*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 ER20X35	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 ER20X52	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 ER25X38	NUT ER25 TOP	WRENCH ER25*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 ER25X52	NUT ER25 TOP	WRENCH ER25*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 ER32X54	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C5 ER16X100	NUT ER16 TOP	WRENCH ER16*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ER16X130	NUT ER16 TOP	WRENCH ER16*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ER20X055	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ER20X100	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ER20X130	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ER25X055	NUT ER25 TOP	WRENCH ER25*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ER25X100	NUT ER25 TOP	WRENCH ER25*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ER32X057	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ER32X100	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 ER16X100	NUT ER16 TOP	WRENCH ER16*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER16X130	NUT ER16 TOP	WRENCH ER16*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER16X160	NUT ER16 TOP	WRENCH ER16*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER20X060	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER20X100	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER20X130	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER20X160	NUT ER20 TOP	WRENCH ER20*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER25X060	NUT ER25 TOP	WRENCH ER25*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER25X100	NUT ER25 TOP	WRENCH ER25*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER25X130	NUT ER25 TOP	WRENCH ER25*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER25X160	NUT ER25 TOP	WRENCH ER25*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER32X060	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER32X100	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER32X130	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER32X160	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER40X065	NUT ER40 TOP	WRENCH ER40*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER40X100	NUT ER40 TOP	WRENCH ER40*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER40X130	NUT ER40 TOP	WRENCH ER40*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C8 ER32X100	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 ER32X160	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 ER32X70	NUT ER32 TOP	WRENCH ER32*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 ER40X100	NUT ER40 TOP	WRENCH ER40*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 ER40X160	NUT ER40 TOP	WRENCH ER40*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 ER40X70	NUT ER40 TOP	WRENCH ER40*	COOLING TUBE C8*	WRENCH COOL TUBE C8*

* Optional, should be ordered separately

CAMFIX

C#-ER-M

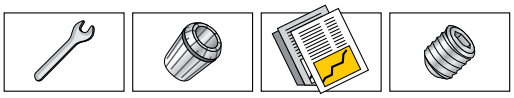
DIN 6499 ER Long Mini
Collet Chucks with CAMFIX
(ISO 26623-1 standard)
Exchangeable Tapered Shanks



Designation	DCONMS	CSI	DCONNWS(1)	DCONXWS(2)	BD	LPR	LB	THID	kg			
C4 ER16X70 M	40.00	ER16	0.5	10.0	22.00	70.00	50.0	M10	0.32	NUT ER16 MINI	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C5 ER16X100 M	50.00	ER16	0.5	10.0	22.00	100.00	80.0	M10	0.57	NUT ER16 MINI	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ER16X130 M	50.00	ER16	0.5	10.0	22.00	130.00	110.0	M10	0.56	NUT ER16 MINI	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 ER16X100 M	63.00	ER16	0.5	10.0	22.00	100.00	78.0	M10	0.90	NUT ER16 MINI	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER16X130 M	63.00	ER16	0.5	10.0	22.00	130.00	108.0	M10	1.07	NUT ER16 MINI	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ER16X160 M	63.00	ER16	0.5	10.0	22.00	160.00	138.0	M10	1.07	NUT ER16 MINI	COOLING TUBE C6*	WRENCH COOL TUBE C6*

(1) Minimum diameter
(2) Maximum diameter

* Optional, should be ordered separately

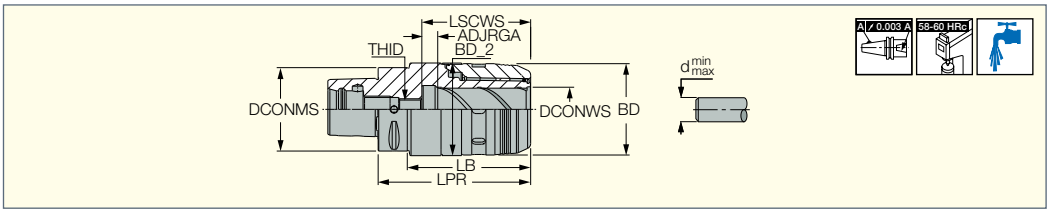


1102 | 1065-1069 | 1063-1065 | 1101

MAXIN CAMFIX

C#-MAXIN

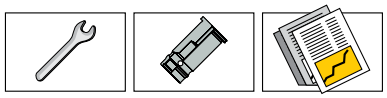
MAXIN Power Chucks with
CAMFIX (ISO 26623-1 standard)
Exchangeable Shanks



Designation	DCONMS	DCONNWS(1)	DCONWS	BD	BD_2	LPR	LB	ADJRGA	LSCWS	THID	kg
C5 MAXIN 20X100	50.00	6.0	20.00	51.00	53.00	96.00	75.0	12.00	67.0	M16	0.87
C6 MAXIN20X95	63.00	6.0	20.00	51.00	53.00	96.00	73.0	12.00	67.0	M16	1.10
C6 MAXIN32X115	63.00	6.0	32.00	69.00	70.00	115.00	93.0	12.00	82.0	M16	2.88
C8 MAXIN20X95	80.00	6.0	20.00	51.00	53.00	96.00	65.0	12.00	67.0	M16	2.05
C8 MAXIN32X115	80.00	6.0	32.00	69.00	70.00	115.00	85.0	12.00	82.0	M16	2.83

• Can be used for carbide and HSS tools • The adjustment screw has an internal coolant hole • Use of dmax diameter tools provides best performance as collets reduce gripping force by 25%

(1) Minimum diameter by using a reduction collet



1102 | 1082, 1104 | 930-931

Spare Parts

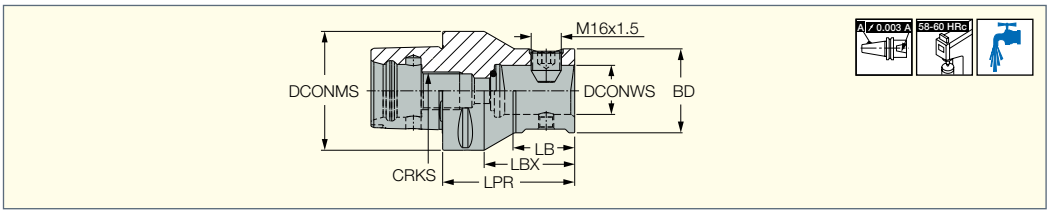
Designation		
C5 MAXIN 20X100	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 MAXIN20X95	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 MAXIN32X115	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C8 MAXIN20X95	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 MAXIN32X115	COOLING TUBE C8*	WRENCH COOL TUBE C8*

* Optional, should be ordered separately

CLICKFIT CAMFIX

C#-CF4 (CLICKFIT)

CLICKFIT Modular Connections with CAMFIX (ISO 26623-1) Exchangeable Tapered Shanks



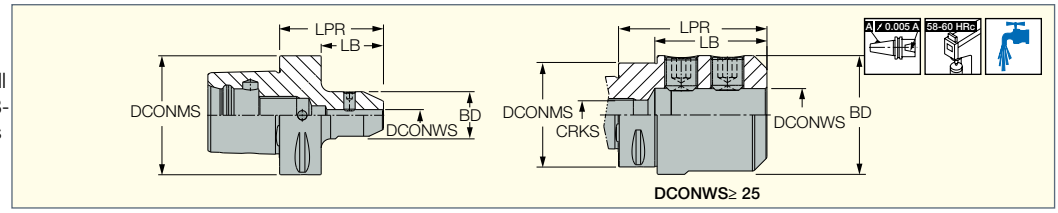
Designation	DCONMS	DCONWS	LPR	LBX	LB	BD	CRKS	kg				
C5 CF4-S	50.00	25.00	60.00	40.0	35.00	44.50	M16	0.13			COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 CF4-S	63.00	25.00	70.00	48.0	32.00	44.50	M20	1.24	SCREW M16X1.5 FOR CF4	WRENCH HW 8 200X36 DIN911	COOLING TUBE C6*	WRENCH COOL TUBE C6*

* Optional, should be ordered separately

CAMFIX

.#-EM

DIN 1835 Form B Weldon Endmill Holders with CAMFIX (ISO 26623-1) Exchangeable Tapered Shanks



Designation	DCONMS	DCONWS	BD	LPR	LB	CRKS	kg				
C3 EM 6X45	32.00	6.00	25.00	45.00	30.0	M12	0.23	SR M6X10 DIN1835B	HW 3.0*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 EM 8X45	32.00	8.00	28.00	45.00	30.0	M12	0.25	SR M8X10 DIN1835-B	HW 4.0*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 EM10X50	32.00	10.00	35.00	50.00	35.0	M12	0.35	SR M10X12 DIN1835-B	HW 5.0*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 EM12X55	32.00	12.00	42.00	55.00	40.0	M12	0.40	SR M12X16 DIN1835-B	HW 6.0*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C4 EM6X50	40.00	6.00	25.00	50.00	30.0	M14	0.35	SR M6X10 DIN1835B	HW 3.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 EM8X50	40.00	8.00	28.00	50.00	30.0	M14	0.37	SR M8X10 DIN1835-B	HW 4.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 EM10X50	40.00	10.00	35.00	50.00	30.0	M14	0.42	SR M10X12 DIN1835-B	HW 5.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 EM12X55	40.00	12.00	42.00	55.00	35.0	M14	0.54	SR M12X16 DIN1835-B	HW 6.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 EM14X55	40.00	14.00	44.00	55.00	35.0	M14	0.57	SR M12X16 DIN1835-B	HW 6.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 EM16X60	40.00	16.00	48.00	60.00	40.0	M14	0.68	SR M14X16 DIN1835-B	HW 6.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C5 EM6X50	50.00	6.00	25.00	50.00	30.0	M16	0.52	SR M6X10 DIN1835B	HW 3.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM8X50	50.00	8.00	28.00	50.00	30.0	M16	0.54	SR M8X10 DIN1835-B	HW 4.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM10X55	50.00	10.00	35.00	55.00	35.0	M16	0.69	SR M10X12 DIN1835-B	HW 5.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM12X60	50.00	12.00	42.00	60.00	40.0	M16	0.83	SR M12X16 DIN1835-B	HW 6.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM14X60	50.00	14.00	44.00	60.00	40.0	M16	0.87	SR M12X16 DIN1835-B	HW 6.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM16X60	50.00	16.00	48.00	60.00	40.0	M16	0.85	SR M14X16 DIN1835-B	HW 6.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM18X60	50.00	18.00	50.00	60.00	40.0	M16	0.46	SR M14X16 DIN1835-B	HW 6.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM20X60	50.00	20.00	52.00	60.00	40.0	M16	0.90	SR M16X16 DIN1835-B	HW 8.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM25X85	50.00	25.00	65.00	85.00	65.0	M16	1.66	SR M18X2X20 DIN1835-B	HW 10.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 EM6X55	63.00	6.00	25.00	55.00	33.0	M20	0.86	SR M6X10 DIN1835B	HW 3.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM8X55	63.00	8.00	28.00	55.00	33.0	M20	0.89	SR M8X10 DIN1835-B	HW 4.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM10X60	63.00	10.00	35.00	60.00	38.0	M20	1.00	SR M10X12 DIN1835-B	HW 5.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM12X60	63.00	12.00	42.00	60.00	38.0	M20	1.08	SR M12X16 DIN1835-B	HW 6.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM14X60	63.00	14.00	44.00	60.00	38.0	M20	1.11	SR M12X16 DIN1835-B	HW 6.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM16X65	63.00	16.00	48.00	65.00	43.0	M20	1.25	SR M14X16 DIN1835-B	HW 6.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM18X65	63.00	18.00	50.00	65.00	43.0	M20	1.20	SR M14X16 DIN1835-B	HW 6.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM20X65	63.00	20.00	52.00	65.00	43.0	M20	1.26	SR M16X16 DIN1835-B	HW 8.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM25X80	63.00	25.00	65.00	80.00	58.0	M20	1.83	SR M18X2X20 DIN1835-B	HW 10.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM32X90	63.00	32.00	72.00	90.00	68.0	M20	2.28	SR M20X2X20 DIN1835-B	HW 10.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM40X100	63.00	40.00	90.00	100.00	78.0	M20	3.43	SR M20X2X20 DIN1835-B	HW 10.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C8 EM6X70	80.00	6.00	25.00	70.00	40.0	M20	1.86	SR M6X10 DIN1835B	HW 3.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM8X70	80.00	8.00	28.00	70.00	40.0	M20	1.90	SR M8X10 DIN1835-B	HW 4.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM10X70	80.00	10.00	35.00	70.00	40.0	M20	2.00	SR M10X12 DIN1835-B	HW 5.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM12X70	80.00	12.00	42.00	70.00	40.0	M20	2.20	SR M12X16 DIN1835-B	HW 6.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM14X70	80.00	14.00	44.00	70.00	40.0	M20	2.10	SR M12X16 DIN1835-B	HW 6.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM16X70	80.00	16.00	48.00	70.00	40.0	M20	2.16	SR M14X16 DIN1835-B	HW 6.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM18X70	80.00	18.00	50.00	70.00	40.0	M20	2.16	SR M14X16 DIN1835-B	HW 6.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM20X70	80.00	20.00	52.00	70.00	40.0	M20	2.18	SR M16X16 DIN1835-B	HW 8.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM25X90	80.00	25.00	65.00	90.00	60.0	M20	2.89	SR M18X2X20 DIN1835-B	HW 10.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM32X95	80.00	32.00	72.00	95.00	65.0	M20	3.20	SR M20X2X20 DIN1835-B	HW 10.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM40X110	80.00	40.00	90.00	110.00	80.0	M20	4.73	SR M20X2X20 DIN1835-B	HW 10.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM50X120	80.00	50.00	98.00	120.00	90.0	M20	5.30	SR M24X2X25 DIN1835-B	HW 12.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*

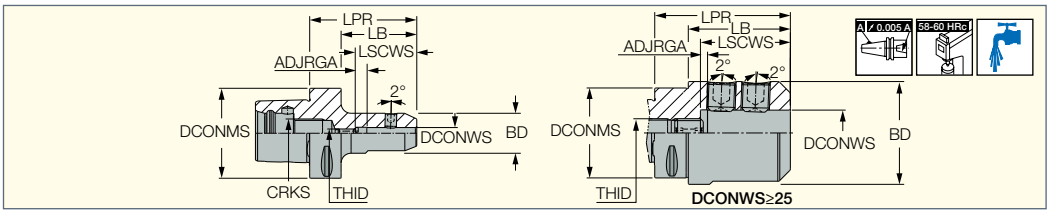
* Optional, should be ordered separately

For tools, see pages: GD-DH (12-13.5) (723)

CAMFIX

C#-EM-E

DIN 1835 Form E Drill Holders
with CAMFIX (ISO 26623-1)
Exchangeable Tapered Shanks



Designation	DCONMS	DCONWS	BD	LPR	ADJRGA	LSCWS	LB	CRKS	THID	kg
C3 EM 6X70 E	32.00	6.00	25.00	70.00	5.00	35.0	50.0	M12	M5	0.30
C3 EM 8X70 E	32.00	8.00	28.00	70.00	0.00	43.0	50.0	M12	M6	0.35
C3 EM 10X70 E	32.00	10.00	35.00	70.00	0.00	45.0	50.0	M12	M8	0.66
C3 EM 12X75 E	32.00	12.00	42.00	75.00	5.00	49.0	55.0	M12	M10	0.66
C4 EM6X70 E	40.00	6.00	25.00	70.00	5.00	35.0	50.0	M14	M5	0.42
C4 EM8X70 E	40.00	8.00	28.00	70.00	8.00	43.0	50.0	M14	M6	0.46
C4 EM10X70 E	40.00	10.00	35.00	70.00	6.00	45.0	50.0	M14	M8	0.57
C4 EM12X75 E	40.00	12.00	42.00	75.00	5.00	49.0	55.0	M14	M10	0.75
C4 EM14X75 E	40.00	14.00	44.00	75.00	5.00	49.0	55.0	M14	M10	0.79
C5 EM10X70 E	50.00	10.00	35.00	70.00	6.00	45.0	50.0	M16	M8	0.75
C5 EM12X75 E	50.00	12.00	42.00	75.00	5.00	49.0	55.0	M16	M10	1.01
C5 EM14X75 E	50.00	14.00	44.00	75.00	5.00	49.0	55.0	M16	M10	0.97
C5 EM16X80 E	50.00	16.00	48.00	80.00	5.00	52.0	60.0	M16	M12	1.21
C5 EM18X80 E	50.00	18.00	50.00	80.00	5.00	52.0	60.0	M16	M12	1.18
C5 EM20X85 E	50.00	20.00	52.00	85.00	6.00	55.0	65.0	M16	M16	1.29
C6 EM6X75 E	63.00	6.00	25.00	75.00	6.00	36.0	53.0	M20	M5	0.93
C6 EM8X75 E	63.00	8.00	28.00	75.00	8.00	43.0	53.0	M20	M6	1.00
C6 EM10X75 E	63.00	10.00	35.00	75.00	7.00	46.0	53.0	M20	M8	1.17
C6 EM12X80 E	63.00	12.00	42.00	80.00	5.00	49.0	58.0	M20	M10	1.37
C6 EM14X80 E	63.00	14.00	44.00	80.00	5.00	49.0	58.0	M20	M10	1.34
C6 EM16X85 E	63.00	16.00	48.00	85.00	5.00	52.0	63.0	M20	M12	1.49
C6 EM18X85 E	63.00	18.00	50.00	85.00	5.00	52.0	63.0	M20	M12	1.63
C6 EM20X85 E	63.00	20.00	52.00	85.00	6.00	55.0	63.0	M20	M16	1.57
C6 EM25X90 E	63.00	25.00	65.00	90.00	6.00	60.0	68.0	M20	M20	2.10
C6 EM32X95 E	63.00	32.00	72.00	95.00	5.00	63.0	73.0	M20	M20	2.50
C8 EM8X65E	80.00	8.00	28.00	65.00	8.00	43.0	35.0	M20	M6	1.90
C8 EM10X65E	80.00	10.00	35.00	65.00	7.00	46.0	35.0	M20	M8	1.96
C8 EM12X70E	80.00	12.00	42.00	70.00	5.00	49.0	40.0	M20	M10	2.10
C8 EM14X70E	80.00	14.00	44.00	70.00	5.00	49.0	40.0	M20	M10	2.12
C8 EM16X75E	80.00	16.00	48.00	75.00	5.00	52.0	45.0	M20	M12	2.10
C8 EM18X75E	80.00	18.00	50.00	75.00	5.00	52.0	45.0	M20	M12	2.26
C8 EM20X80E	80.00	20.00	52.00	80.00	8.00	57.0	50.0	M20	M16	2.36
C8 EM25X90E	80.00	25.00	65.00	90.00	6.00	60.0	60.0	M20	M20	2.89
C8 EM32X95E	80.00	32.00	72.00	95.00	6.00	64.0	65.0	M20	M20	3.24

• The adjustment screw has an internal coolant hole.

C#-EM-E

Spare Parts

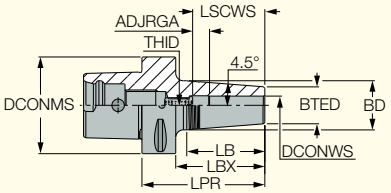
Designation						
C3 EM 6X70 E	SR M6X10 DIN1835B	PRESET M5X18B	HW 3.0*	HW 2.5*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 EM 8X70 E	SR M8X10 DIN1835-B	PRESET M6X20B	HW 3.0*	HW 4.0*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 EM 10X70 E	SR M10X12 DIN1835-B	PRESET CAP M8X12B	HW 4.0*	HW 5.0*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 EM 12X75 E	SR M12X16 DIN1835-B		HW 5.0*	HW 6.0*	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C4 EM6X70 E	SR M6X10 DIN1835B	PRESET M5X18B	HW 3.0*	HW 2.5*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 EM8X70 E	SR M8X10 DIN1835-B	PRESET CAP M6X12B	HW 3.0*	HW 4.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 EM10X70 E	SR M10X12 DIN1835-B	PRESET CAP M8X12B	HW 4.0*	HW 5.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 EM12X75 E	SR M12X16 DIN1835-B		HW 5.0*	HW 6.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 EM14X75 E	SR M12X16 DIN1835-B		HW 5.0*	HW 6.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C5 EM10X70 E	SR M10X12 DIN1835-B	PRESET CAP M8X12B	HW 4.0*	HW 5.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM12X75 E	SR M12X16 DIN1835-B		HW 5.0*	HW 6.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM14X75 E	SR M12X16 DIN1835-B		HW 5.0*	HW 6.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM16X80 E	SR M14X16 DIN1835-B		HW 6.0*		COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM18X80 E	SR M14X16 DIN1835-B	PRESET CX M12X16	HW 6.0*		COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 EM20X85 E	SR M16X16 DIN1835-B		HW 8.0*		COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 EM6X75 E	SR M6X10 DIN1835B	PRESET M5X18B	HW 3.0*	HW 2.5*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM8X75 E	SR M8X10 DIN1835-B	PRESET CAP M6X12B	HW 3.0*	HW 4.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM10X75 E	SR M10X12 DIN1835-B	PRESET CAP M8X12B	HW 4.0*	HW 5.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM12X80 E	SR M12X16 DIN1835-B		HW 5.0*	HW 6.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM14X80 E	SR M12X16 DIN1835-B		HW 5.0*	HW 6.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM16X85 E	SR M14X16 DIN1835-B		HW 6.0*		COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM18X85 E	SR M14X16 DIN1835-B		HW 6.0*		COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM20X85 E	SR M16X16 DIN1835-B		HW 8.0*		COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM25X90 E	SR M18X2X20 DIN1835-B	PRESET M20X20E	HW 10.0*	HW 6.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 EM32X95 E	SR M20X2X20 DIN1835-B	PRESET M20X20E	HW 10.0*	HW 6.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C8 EM8X65E	SR M8X10 DIN1835-B	PRESET CAP M6X12B	HW 3.0*	HW 4.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM10X65E	SR M10X12 DIN1835-B	PRESET CAP M8X12B	HW 4.0*	HW 5.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM12X70E	SR M12X16 DIN1835-B		HW 5.0*	HW 6.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM14X70E	SR M12X16 DIN1835-B		HW 5.0*	HW 6.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM16X75E	SR M14X16 DIN1835-B		HW 6.0*		COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM18X75E	SR M14X16 DIN1835-B		HW 6.0*		COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM20X80E	SR M16X16 DIN1835-B		HW 8.0*		COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM25X90E	SR M18X2X20 DIN1835-B	PRESET M20X20E	HW 10.0*	HW 6.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 EM32X95E	SR M20X2X20 DIN1835-B	PRESET M20X20E	HW 10.0*	HW 6.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*

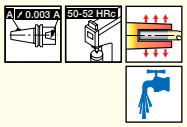
* Optional, should be ordered separately

SHRINKIN CAMFIX

C#-SRKIN

Thermal Shrink Chucks with Integral CAMFIX (ISO 26623-1) Tapered Shanks for Solid Carbide, HSS and Steel Tools



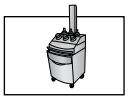


Designation	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key(1)	kg
C4 SRKIN 6X75	40.00	6.00	21.00	27.00	75.00	55.0	38.10	11.00	36.0	M5	2.50	0.45
C4 SRKIN 8X75	40.00	8.00	21.00	27.00	75.00	55.0	38.10	11.00	36.0	M6	3.00	0.46
C4 SRKIN 10X75	40.00	10.00	24.00	32.00	75.00	55.0	50.80	11.00	42.0	M8	4.00	0.49
C4 SRKIN 12X75	40.00	12.00	24.00	32.00	75.00	55.0	50.80	11.00	47.0	M10	5.00	0.48
C4 SRKIN 14X80	40.00	14.00	27.00	34.00	80.00	60.0	44.50	11.00	47.0	M10	5.00	0.55
C4 SRKIN 16X80	40.00	16.00	27.00	34.00	80.00	60.0	44.50	11.00	50.0	M12	6.00	0.53
C4 SRKIN 18X80	40.00	18.00	33.00	42.00	80.00	60.0	57.20	11.00	50.0	M12	6.00	0.66
C4 SRKIN 20X85	40.00	20.00	33.00	42.00	85.00	65.0	57.20	11.00	52.0	M16	8.00	0.70
C5 SRKIN 6X75	50.00	6.00	21.00	27.00	75.00	55.0	38.10	11.00	36.0	M5	2.50	0.62
C5 SRKIN 8X75	50.00	8.00	21.00	27.00	75.00	55.0	38.10	11.00	36.0	M6	3.00	0.63
C5 SRKIN 10X75	50.00	10.00	24.00	32.00	75.00	55.0	51.30	11.00	42.0	M8	4.00	0.67
C5 SRKIN 12X75	50.00	12.00	24.00	32.00	75.00	55.0	51.30	11.00	47.0	M10	5.00	0.64
C5 SRKIN 14X80	50.00	14.00	27.00	34.00	80.00	60.0	44.50	11.00	47.0	M10	5.00	0.73
C5 SRKIN 16X80	50.00	16.00	27.00	34.00	80.00	60.0	44.50	11.00	50.0	M12	6.00	0.68
C5 SRKIN 18X80	50.00	18.00	33.00	42.00	80.00	60.0	57.20	11.00	50.0	M12	6.00	0.84
C5 SRKIN 20X85	50.00	20.00	33.00	42.00	85.00	65.0	57.20	11.00	52.0	M16	8.00	0.85
C5 SRKIN 25X90	50.00	25.00	44.00	53.00	90.00	70.0	57.20	11.00	58.0	M16	8.00	1.13
C6 SRKIN 6X80	63.00	6.00	21.00	27.00	80.00	58.0	38.10	11.00	36.0	M5	2.50	0.95
C6 SRKIN 8X80	63.00	8.00	21.00	27.00	80.00	58.0	38.10	11.00	36.0	M6	3.00	0.94
C6 SRKIN 10X80	63.00	10.00	24.00	32.00	80.00	58.0	50.80	11.00	42.0	M8	4.00	1.07
C6 SRKIN 12X80	63.00	12.00	24.00	32.00	80.00	58.0	50.80	11.00	47.0	M10	5.00	1.01
C6 SRKIN 14X85	63.00	14.00	27.00	34.00	85.00	63.0	44.50	11.00	47.0	M10	5.00	1.08
C6 SRKIN 16X85	63.00	16.00	27.00	34.00	85.00	63.0	44.50	11.00	50.0	M12	6.00	1.06
C6 SRKIN 18X85	63.00	18.00	33.00	42.00	85.00	63.0	57.20	11.00	50.0	M12	6.00	1.21
C6 SRKIN 20X85	63.00	20.00	33.00	42.00	85.00	63.0	57.20	11.00	52.0	M16	8.00	1.16
C6 SRKIN 25X90	63.00	25.00	44.00	53.00	90.00	68.0	57.20	11.00	58.0	M16	8.00	1.50
C6 SRKIN 32X95	63.00	32.00	44.00	53.00	95.00	73.0	57.20	11.00	58.0	M16	8.00	1.46

• The adjustment screw has an internal coolant hole • Use only inductive heating device for SRKIN holders

(1) Hex key size for the rear stopper screw

1070-1072



1076-1077

Spare Parts

Designation			
C4 SRKIN 6X75	PRESET M5X18B	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SRKIN 8X75	PRESET M6X20B	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SRKIN 10X75	PRESET CX M8X16	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SRKIN 12X75		COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SRKIN 14X80		COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SRKIN 16X80		COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SRKIN 18X80		COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SRKIN 20X85		COOLING TUBE C4*	WRENCH COOL TUBE C4*
C5 SRKIN 6X75	PRESET M5X18B	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SRKIN 8X75	PRESET M6X20B	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SRKIN 10X75	PRESET CX M8X16	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SRKIN 12X75		COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SRKIN 14X80		COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SRKIN 16X80		COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SRKIN 18X80		COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SRKIN 20X85		COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SRKIN 25X90		COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 SRKIN 6X80	PRESET M5X18B	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 8X80	PRESET M6X20B	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 10X80	PRESET CX M8X16	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 12X80		COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 14X85		COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 16X85		COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 18X85		COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 20X85		COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 25X90		COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 32X95		COOLING TUBE C6*	WRENCH COOL TUBE C6*

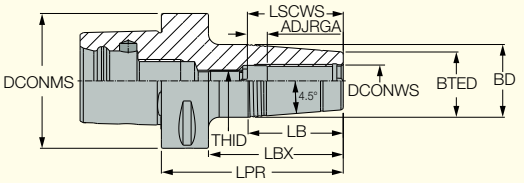
* Optional, should be ordered separately

X-STREAM JET TOOLHOLDING

SHRINKINCAMFIX

C#-SRKIN-CX

Thermal Shrink Chucks with CAMFIX (ISO 26623-1) Tapered Shank and Coolant Jet Channels along the Shank Bore



Designation	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	LSCWS	ADJRGA	THID	Key(1)	kg
C6 SRKIN 6X80 CX	63.00	6.00	21.00	27.00	80.00	58.00	38.10	34.0	9.50	M5	2.50	0.95
C6 SRKIN 8X80 CX	63.00	8.00	21.00	27.00	80.00	58.00	38.10	34.0	9.50	M6	3.00	0.94
C6 SRKIN 10X80 CX	63.00	10.00	24.00	32.00	80.00	58.00	50.80	39.8	9.30	M8	4.00	1.07
C6 SRKIN 12X80 CX	63.00	12.00	24.00	32.00	80.00	58.00	50.80	44.8	9.30	M10	5.00	1.01
C6 SRKIN 14X85 CX	63.00	14.00	27.00	34.00	85.00	63.00	44.50	44.8	9.30	M10	5.00	1.08
C6 SRKIN 16X85 CX	63.00	16.00	27.00	34.00	85.00	63.00	44.50	47.8	9.30	M12	6.00	1.06
C6 SRKIN 18X85 CX	63.00	18.00	33.00	42.00	85.00	63.00	57.20	47.8	9.30	M12	6.00	1.21
C6 SRKIN 20X85 CX	63.00	20.00	33.00	42.00	85.00	63.00	57.20	49.0	8.50	M16	8.00	1.16
C6 SRKIN 25X90 CX	63.00	25.00	44.00	53.00	90.00	68.00	57.20	55.0	8.50	M16	8.00	1.50
C6 SRKIN 32X95 CX	63.00	32.00	44.00	53.00	95.00	73.00	57.20	59.0	8.50	M16	8.00	1.46

• Use only inductive heating device for SRKIN holders • Preset screw CX allows supply of coolant via JET channels - do not remove

(1) Hex key size for the rear stopper screw

Spare Parts

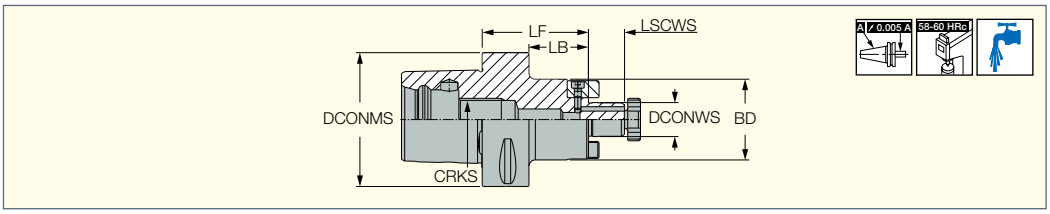
Designation			
C6 SRKIN 6X80 CX	PRESET CX M5X13	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 8X80 CX	PRESET CX M6X12	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 10X80 CX	PRESET CX M8X16	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 12X80 CX	PRESET CX M10X16	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 14X85 CX	PRESET CX M10X16	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 16X85 CX	PRESET CX M12X16	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 18X85 CX	PRESET CX M12X16	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 20X85 CX	PRESET CX M16X14	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 25X90 CX	PRESET CX M16X14	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SRKIN 32X95 CX	PRESET CX M16X14	COOLING TUBE C6*	WRENCH COOL TUBE C6*

* Optional, should be ordered separately

CAMFIX

C#-SEM-C

ISO 3937 Shell Mill Holders
with Coolant Holes and
CAMFIX (ISO 26623-1)
Exchangeable Tapered Shanks



Designation	DCONMS	DCONWS	BD	LSCWS	LB	LF	CRKS	kg
C3 SEM 16X30 C	32.00	16.00	38.00	17.00	13.0	30.00	M12	0.30
C4 SEM16X32 C	40.00	16.00	38.00	17.00	12.0	32.00	M14	0.36
C4 SEM16X55 C	40.00	16.00	38.00	17.00	35.0	55.00	M14	0.54
C4 SEM22X40 C	40.00	22.00	47.00	19.00	20.0	40.00	M14	0.52
C4 SEM22X55 C	40.00	22.00	47.00	19.00	33.0	55.00	M14	0.80
C5 SEM16X35 C	50.00	16.00	38.00	17.00	15.0	35.00	M16	0.57
C5 SEM16X70 C	50.00	16.00	38.00	17.00	50.0	70.00	M16	0.85
C5 SEM22X35 C	50.00	22.00	47.00	19.00	15.0	35.00	M16	0.65
C5 SEM22X70 C	50.00	22.00	47.00	19.00	50.0	70.00	M16	1.09
C5 SEM27X40 C	50.00	27.00	58.00	21.00	20.0	40.00	M16	0.85
C5 SEM32X40 C	50.00	32.00	63.00	24.00	20.0	40.00	M16	0.93
C6 SEM16X100 C	63.00	16.00	38.00	17.00	78.0	100.00	M20	1.41
C6 SEM16X50 C	63.00	16.00	38.00	17.00	28.0	50.00	M20	1.00
C6 SEM22X100 C	63.00	22.00	47.00	19.00	78.0	100.00	M20	1.81
C6 SEM22X50 C	63.00	22.00	47.00	19.00	28.0	50.00	M20	1.15
C6 SEM27X100 C	63.00	27.00	58.00	21.00	78.0	100.00	M20	2.33
C6 SEM27X60 C	63.00	27.00	58.00	21.00	37.0	60.00	M20	1.52
C6 SEM32X60 C	63.00	32.00	66.00	24.00	37.0	60.00	M16	1.79
C6 SEM40X60 C	63.00	40.00	82.00	27.00	37.0	60.00	M20	2.34
C8 SEM16X50 C	80.00	16.00	38.00	17.00	20.0	50.00	M20	1.90
C8 SEM16X100C	80.00	16.00	38.00	17.00	70.0	100.00	M20	2.32
C8 SEM22X50 C	80.00	22.00	47.00	19.00	20.0	50.00	M20	2.01
C8 SEM22X100C	80.00	22.00	47.00	19.00	70.0	100.00	M20	2.88
C8 SEM27X50 C	80.00	27.00	58.00	21.00	20.0	50.00	M20	2.18
C8 SEM27X100C	80.00	27.00	58.00	21.00	70.0	100.00	M20	3.14
C8 SEM32X50 C	80.00	32.00	66.00	24.00	20.0	50.00	M16	2.28
C8 SEM32X100C	80.00	32.00	66.00	24.00	70.0	100.00	M16	3.56
C8 SEM40X60 C	80.00	40.00	82.00	27.00	30.0	60.00	M20	2.99

For tools, see pages: FF NM (306) • FFQ4 D-17 (309) • FFV-D-R-VN07 (305) • FFX4 FD (303) • HSM90S FAL-22 (380) • SDK-12-C/HP (244) • T890HT FLN-R13 (195) • TR6 FR (306)

Spare Parts

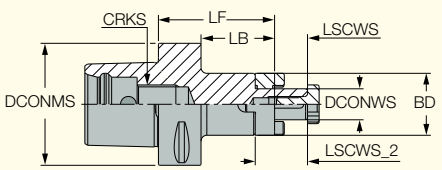
Designation							
C3 SEM 16X30 C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*	HW 2.5*		WRENCH COOL TUBE C3*
C4 SEM16X32 C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*	HW 2.5*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SEM16X55 C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*	HW 2.5*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SEM22X40 C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*	HW 3.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 SEM22X55 C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*	HW 3.0*	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C5 SEM16X35 C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*	HW 2.5*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SEM16X70 C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*	HW 2.5*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SEM22X35 C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*	HW 3.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SEM22X70 C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*	HW 3.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SEM27X40 C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X12 DIN912	WRENCH M12 SEMC 27*	HW 4.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 SEM32X40 C	M16 CLAMP SCREW SEM32	DR.DOG 14X13S	SR M5X14DIN912	WRENCH M16 SEMC 32*	HW 4.0*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 SEM16X100 C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*	HW 2.5*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SEM16X50 C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*	HW 2.5*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SEM22X100 C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*	HW 2.5*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SEM22X50 C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*	HW 3.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SEM27X100 C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X12 DIN912	WRENCH M12 SEMC 27*	HW 4.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SEM27X60 C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X14DIN912	WRENCH M12 SEMC 27*	HW 4.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SEM32X60 C	M16 CLAMP SCREW SEM32	DR.DOG 14X13S	SR M5X14DIN912	WRENCH M16 SEMC 32*	HW 4.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 SEM40X60 C	M20 CLAMP SCREW SEM40	DR.DOG 16X18S	SR M6X20 DIN912	WRENCH M20 SEMC 40*	HW 5.0*	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C8 SEM16X50 C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*	HW 2.5*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 SEM16X100C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*	HW 2.5*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 SEM22X50 C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*	HW 3.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 SEM22X100C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*	HW 3.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 SEM27X50 C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X12 DIN912	WRENCH M12 SEMC 27*	HW 4.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 SEM27X100C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X12 DIN912	WRENCH M12 SEMC 27*	HW 4.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 SEM32X50 C	M16 CLAMP SCREW SEM32	DR.DOG 14X13S	SR M5X14DIN912	WRENCH M16 SEMC 32*	HW 4.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 SEM32X100C	M16 CLAMP SCREW SEM32	DR.DOG 14X13S	SR M5X14DIN912	WRENCH M16 SEMC 32*	HW 4.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 SEM40X60 C	M20 CLAMP SCREW SEM40	DR.DOG 16X18S	SR M6X20 DIN912	WRENCH M20 SEMC 40*	HW 5.0*	COOLING TUBE C8*	WRENCH COOL TUBE C8*

* Optional, should be ordered separately

CAMFIX

C#-SEMC

DIN 6358 COMBI Shell Mill Holders with CAMFIX (ISO 26623-1) Exchangeable Tapered Shanks



Designation	DCONMS	DCONWS	LF	BD	LB	LSCWS	LSCWS_2	CRKS	kg
C3 SEMC 16X30	32.00	16.00	30.00	32.00	10.0	17.00	27.00	M12	0.40
C4 SEMC16X45	40.00	16.00	45.00	32.00	25.0	17.00	27.00	M14	0.36
C4 SEMC22X45	40.00	22.00	45.00	40.00	25.0	19.00	31.00	M14	0.40
C4 SEMC27X50	40.00	27.00	50.00	48.00	30.0	21.00	33.00	M14	0.33
C5 SEMC16X55	50.00	16.00	55.00	32.00	35.0	17.00	27.00	M16	0.60
C5 SEMC16X85	50.00	16.00	85.00	32.00	65.0	17.00	27.00	M16	0.77
C5 SEMC22X65	50.00	22.00	65.00	40.00	45.0	19.00	31.00	M16	0.79
C5 SEMC27X85	50.00	27.00	85.00	48.00	65.0	21.00	33.00	M16	1.22
C6 SEMC16X60	63.00	16.00	60.00	32.00	38.0	17.00	27.00	M20	1.08
C6 SEMC16X100	63.00	16.00	100.00	32.00	78.0	17.00	27.00	M20	1.28
C6 SEMC22X60	63.00	22.00	60.00	40.00	38.0	19.00	31.00	M20	1.25
C6 SEMC22X100	63.00	22.00	100.00	40.00	78.0	19.00	31.00	M20	1.40
C6 SEMC27X60	63.00	27.00	60.00	48.00	38.0	21.00	33.00	M20	1.21
C6 SEMC27X100	63.00	27.00	100.00	48.00	78.0	21.00	33.00	M20	1.69
C6 SEMC32X60	63.00	32.00	60.00	58.00	38.0	24.00	38.00	M20	1.35
C6 SEMC40X70	63.00	40.00	70.00	70.00	48.0	27.00	41.00	M20	1.95

• Axial driving key is not supplied.

Spare Parts

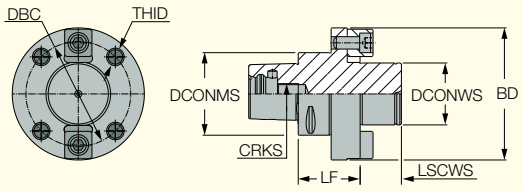
Designation						
C3 SEMC 16X30	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE C3*	WRENCH COOL TUBE C3*	KEY SEMC 16 4X4X20
C4 SEMC16X45	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16	COOLING TUBE C4*	WRENCH COOL TUBE C4*	KEY SEMC 16 4X4X20
C4 SEMC22X45	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22	COOLING TUBE C4*	WRENCH COOL TUBE C4*	KEY SEMC 22 6X6X25
C4 SEMC27X50	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27	COOLING TUBE C4*	WRENCH COOL TUBE C4*	KEY SEMC 27 7X7X25
C5 SEMC16X55	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16	COOLING TUBE C5*	WRENCH COOL TUBE C5*	KEY SEMC 16 4X4X20
C5 SEMC16X85	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16	COOLING TUBE C5*	WRENCH COOL TUBE C5*	KEY SEMC 16 4X4X20
C5 SEMC22X65	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22	COOLING TUBE C5*	WRENCH COOL TUBE C5*	KEY SEMC 22 6X6X25
C5 SEMC27X85	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27	COOLING TUBE C5*	WRENCH COOL TUBE C5*	KEY SEMC 27 7X7X25
C6 SEMC16X60	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE C6*	WRENCH COOL TUBE C6*	KEY SEMC 16 4X4X20
C6 SEMC16X100	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	COOLING TUBE C6*	WRENCH COOL TUBE C6*	KEY SEMC 16 4X4X20
C6 SEMC22X60	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE C6*	WRENCH COOL TUBE C6*	KEY SEMC 22 6X6X25
C6 SEMC22X100	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	COOLING TUBE C6*	WRENCH COOL TUBE C6*	KEY SEMC 22 6X6X25
C6 SEMC27X60	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	COOLING TUBE C6*	WRENCH COOL TUBE C6*	KEY SEMC 27 7X7X25
C6 SEMC27X100	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	COOLING TUBE C6*	WRENCH COOL TUBE C6*	KEY SEMC 27 7X7X25
C6 SEMC32X60	32 D.RING SEMC	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	COOLING TUBE C6*	WRENCH COOL TUBE C6*	KEY SEMC 32 8X7X28
C6 SEMC40X70	40 D.RING SEMC	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	COOLING TUBE C6*	WRENCH COOL TUBE C6*	KEY SEMC 40 10X8X32

* Optional, should be ordered separately

CAMFIX

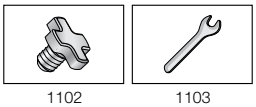
C#-FM

DIN 6357 Face Mill Holders with CAMFIX (ISO 26623-1) Tapered Shanks



Designation	DCONMS	DCONWS	LSCWS	LF	BD	DBC	THID	CRKS	kg
C8 FM 60X60	80.00	60.00	40.00	60.00	128.00	101.60	M16	M20	5.22

• Peripheral clamping screws are not supplied.



1102 1103

Spare Parts

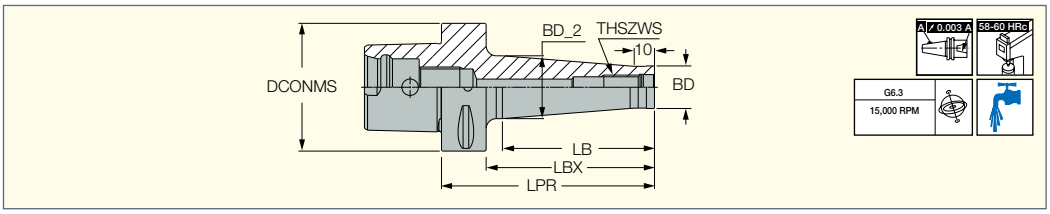
Designation		
C#-FM	COOLING TUBE C8*	WRENCH COOL TUBE C8*

* Optional, should be ordered separately

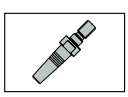
FLEXFIT CAMFIX

C#-ODP (FLEXFIT)

FLEXFIT Threaded Connection
Shanks with CAMFIX (ISO 26623-1)
Exchangeable Tapered Shanks



Designation	DCONMS	THSZWS	BD	BD_2	LPR	LBX	LB	kg
C4 ODP 10X 53	40.00	M10	18.00	23.00	53.00	33.0	23.00	0.33
C4 ODP 12X 53	40.00	M12	21.00	26.00	53.00	33.0	23.00	0.33
C4 ODP 16X 53	40.00	M16	29.00	34.00	53.00	33.0	23.00	0.40
C5 ODP 10X 53	50.00	M10	18.00	19.50	53.00	33.0	25.00	0.49
C5 ODP 10X103	50.00	M10	18.00	28.00	103.00	83.0	75.00	0.10
C5 ODP 12X 53	50.00	M12	21.00	23.50	53.00	33.0	25.00	0.50
C5 ODP 12X103	50.00	M12	21.00	31.00	103.00	83.0	75.00	0.72
C5 ODP 16X 53	50.00	M16	29.00	34.00	53.00	33.0	25.00	0.57
C5 ODP 16X103	50.00	M16	29.00	36.00	103.00	83.0	75.00	0.85
C6 ODP 10X 55	63.00	M10	18.00	19.50	55.00	33.0	25.00	0.82
C6 ODP 10X105	63.00	M10	18.00	28.00	105.00	83.0	75.00	1.00
C6 ODP 10X130	63.00	M10	18.00	32.00	130.00	108.0	100.00	1.20
C6 ODP 12X 55	63.00	M12	21.00	23.50	55.00	33.0	25.00	0.84
C6 ODP 12X105	63.00	M12	21.00	31.00	105.00	83.0	75.00	1.07
C6 ODP 12X130	63.00	M12	21.00	36.00	130.00	108.0	100.00	1.26
C6 ODP 16X 55	63.00	M16	29.00	34.00	55.00	33.0	25.00	0.89
C6 ODP 16X105	63.00	M16	29.00	34.00	105.00	83.0	75.00	1.20
C6 ODP 16X130	63.00	M16	29.00	41.00	130.00	108.0	100.00	1.49


1046-1048


1044

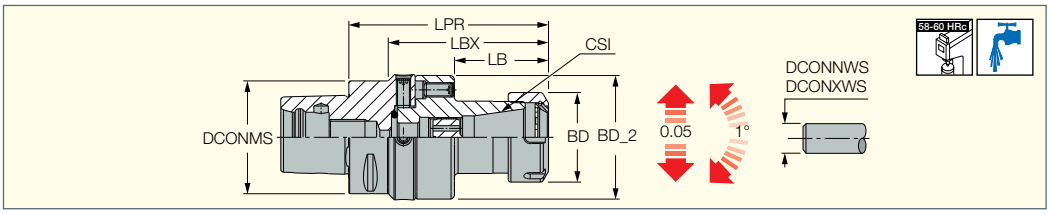
Spare Parts

Designation		
C4 ODP 10X 53	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 ODP 12X 53	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 ODP 16X 53	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C5 ODP 10X 53	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ODP 10X103	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ODP 12X 53	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ODP 12X103	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ODP 16X 53	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 ODP 16X103	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 ODP 10X 55	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ODP 10X105	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ODP 10X130	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ODP 12X 55	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ODP 12X105	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ODP 12X130	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ODP 16X 55	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ODP 16X105	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 ODP 16X130	COOLING TUBE C6*	WRENCH COOL TUBE C6*

* Optional, should be ordered separately

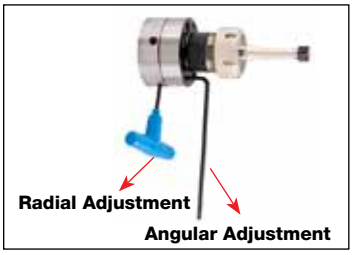
FINEFIT CAMFIX

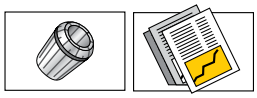
ADJ C-ER
FINEFIT Center Alignment Shank and Base with CAMFIX Adaptations for Specially Tailored Toolholders



Designation	DCONMS	CSI	DCONNWS(1)	DCONXWS(2)	BD_2	BD	LPR	LBX	LB	kg
ADJ C4 ER32	40.00	ER32	2.0	20.0	70.00	50.00	110.00	89.5	52.50	1.58
ADJ C5 ER32	50.00	ER32	2.0	20.0	70.00	50.00	115.00	95.0	52.50	2.12
ADJ C6 ER32	63.00	ER32	2.0	20.0	70.00	50.00	111.50	89.5	52.50	2.07

• Radial adjustment 0.05 mm, Angular adjustment 1°
(1) Minimum diameter
(2) Maximum diameter





1065-1069 1063-1065

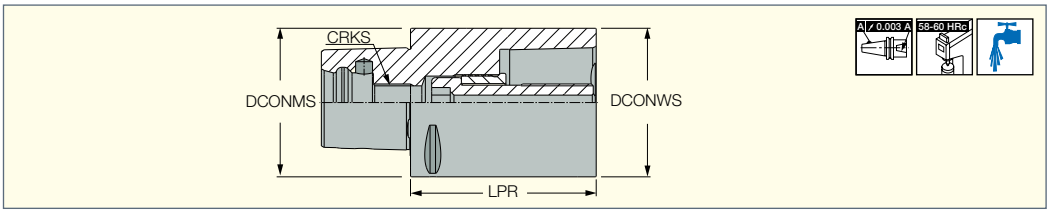
Spare Parts

Designation							
ADJ C4 ER32	NUT ER32 TOP	SR M8X1X16 DIN916	SR M6X25 DIN912	ADJUST SPACER 9.5X5	PRESET ER-JET 22X1.5	ADJ ER32 NOSE	OR 21X4N
ADJ C5 ER32	NUT ER32 TOP*	SR M8X1X16 DIN916	SR M6X25 DIN912	ADJUST SPACER 9.5X5	PRESET ER-JET 22X1.5	ADJ ER32 NOSE	OR 21X4N
ADJ C6 ER32	NUT ER32 TOP*	SR M8X1X16 DIN916	SR M6X25DIN912	ADJUST SPACER 9.5X5	PRESET ER-JET 22X1.5	ADJ ER32 NOSE	OR 21X4N

* Optional, should be ordered separately

CAMFIX

EX C#
(CAMFIX extension)
CAMFIX Extension Adapters



Designation	DCONMS	DCONWS	LPR	CRKS	kg
C3 EX C3X060	32.00	32.00	60.00	M12	0.40
C3 EX C3X080	32.00	32.00	80.00	M12	0.50
C4 EX C4X060	40.00	40.00	60.00	M14	0.50
C4 EX C4X080	40.00	40.00	80.00	M14	0.70
C5 EX C5X080	50.00	50.00	80.00	M16	1.13
C5 EX C5X100	50.00	50.00	100.00	M16	1.42
C6 EX C6X100	63.00	63.00	100.00	M20	2.23
C6 EX C6X140	63.00	63.00	140.00	M20	3.13
C8 EX C8X100	80.00	80.00	100.00	M20	3.65
C8 EX C8X125	80.00	80.00	125.00	M20	4.60

Spare Parts

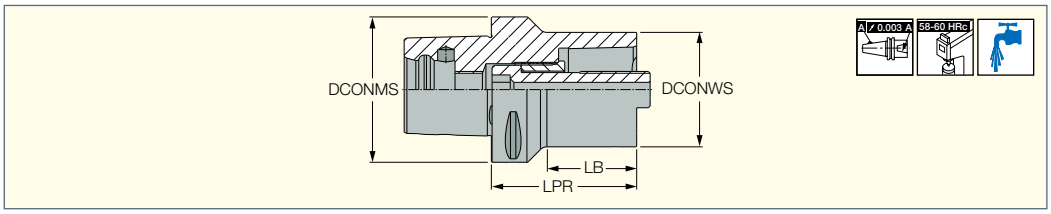
Designation						
C3 EX C3X060	SR M12X50 C3	HW 7.0*	MT RING M18X15XC3	COOLING TUBE C3*	WRENCH COOL TUBE C3*	WRENCH C3 DRW NUT*
C3 EX C3X080	SR M12X50 C3	HW 7.0*	MT RING M18X15XC3	COOLING TUBE C3*	WRENCH COOL TUBE C3*	WRENCH C3 DRW NUT*
C4 EX C4X060	SR M14X58 C4	HW 8.0*	MT RING M22X17XC4	COOLING TUBE C4*	WRENCH COOL TUBE C4*	WRENCH C4 DRW NUT*
C4 EX C4X080	SR M14X58 C4	HW 8.0*	MT RING M22X17XC4	COOLING TUBE C4*	WRENCH COOL TUBE C4*	WRENCH C4 DRW NUT*
C5 EX C5X080	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5	COOLING TUBE C5*	WRENCH COOL TUBE C5*	WRENCH C5 DRW NUT*
C5 EX C5X100	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5	COOLING TUBE C5*	WRENCH COOL TUBE C5*	WRENCH C5 DRW NUT*
C6 EX C6X100	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	COOLING TUBE C6*	WRENCH COOL TUBE C6*	WRENCH C6-8 DRW NUT*
C6 EX C6X140	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	COOLING TUBE C6*	WRENCH COOL TUBE C6*	WRENCH C6-8 DRW NUT*
C8 EX C8X100	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	COOLING TUBE C8*	WRENCH COOL TUBE C8*	WRENCH C6-8 DRW NUT*
C8 EX C8X125	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	COOLING TUBE C8*	WRENCH COOL TUBE C8*	WRENCH C6-8 DRW NUT*

* Optional, should be ordered separately

CAMFIX

RE-C#

CAMFIX Reduction Adapters



Designation	DCONMS	DCONWS	LPR	LB	kg
C4 RE C3X070	40.00	32.00	70.00	12.00	0.50
C6 RE C3X070	63.00	32.00	70.00	39.00	1.10
C6 RE C4X080	63.00	40.00	80.00	51.40	1.20
C6 RE C5X080	63.00	50.00	80.00	51.50	1.50
C8 RE C3X060	80.00	32.00	60.00	29.30	1.70
C8 RE C4X070	80.00	40.00	70.00	36.50	1.90
C8 RE C5X080	80.00	50.00	80.00	49.30	2.20
C8 RE C6X080	80.00	63.00	80.00	53.10	2.50
C8 RE C6X120	80.00	63.00	120.00	12.00	4.00

Spare Parts

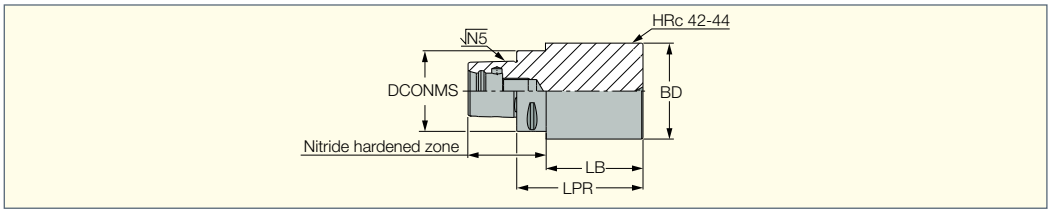
Designation						
C4 RE C3X070	SR M12X50 C3	HW 7.0*	MT RING M18X15XC3	COOLING TUBE C4*	WRENCH COOL TUBE C4*	WRENCH C3 DRW NUT*
C6 RE C3X070	SR M12X50 C3	HW 7.0*	MT RING M18X15XC3	COOLING TUBE C6*	WRENCH COOL TUBE C6*	WRENCH C3 DRW NUT*
C6 RE C4X080	SR M14X58 C4	HW 8.0*	MT RING M22X17XC4	COOLING TUBE C6*	WRENCH COOL TUBE C6*	WRENCH C4 DRW NUT*
C6 RE C5X080	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5	COOLING TUBE C6*	WRENCH COOL TUBE C6*	WRENCH C5 DRW NUT*
C8 RE C3X060	SR M12X50 C3	HW 7.0*	MT RING M18X15XC3	COOLING TUBE C8*	WRENCH COOL TUBE C8*	WRENCH C3 DRW NUT*
C8 RE C4X070	SR M14X58 C4	HW 8.0*	MT RING M22X17XC4	COOLING TUBE C8*	WRENCH COOL TUBE C8*	WRENCH C4 DRW NUT*
C8 RE C5X080	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5	COOLING TUBE C8*	WRENCH COOL TUBE C8*	WRENCH C5 DRW NUT*
C8 RE C6X080	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	COOLING TUBE C8*	WRENCH COOL TUBE C8*	WRENCH C6-8 DRW NUT*
C8 RE C6X120	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	COOLING TUBE C8*	WRENCH COOL TUBE C8*	WRENCH C6-8 DRW NUT*

* Optional, should be ordered separately

CAMFIX

C#-B4340 (blank)

Blanks with CAMFIX (ISO 26623-1 Standard) Exchangeable Tapered Shanks



Designation	DCONMS	BD	LPR	LB	kg		
C3 B4340 032090	32.00	32.00	90.00	-	0.60	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 B4340 040110	32.00	40.00	110.00	93.2	1.00	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 B4340 050125	32.00	50.00	125.00	108.2	1.81	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 B4340 060090	32.00	60.00	90.00	73.2	2.00	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 B4340 070060	32.00	70.00	60.00	43.2	1.30	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C3 B4340 090070	32.00	90.00	70.00	53.0	2.81	COOLING TUBE C3*	WRENCH COOL TUBE C3*
C4 B4340 040055	40.00	40.00	55.00	35.0	0.60	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 B4340 040095	40.00	40.00	95.00	75.0	1.00	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 B4340 052065	40.00	52.00	65.00	44.0	0.99	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 B4340 060165	40.00	60.00	165.00	144.0	3.47	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 B4340 066055	40.00	66.00	55.00	35.0	1.16	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 B4340 080050	40.00	80.00	50.00	28.2	1.38	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 B4340 080075	40.00	80.00	75.00	54.0	2.38	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C4 B4340 100085	40.00	100.00	85.00	64.0	4.10	COOLING TUBE C4*	WRENCH COOL TUBE C4*
C5 B4340 050125	50.00	50.00	125.00	105.0	2.06	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 B4340 075065	50.00	75.00	65.00	43.2	3.80	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 B4340 075175	50.00	75.00	175.00	154.0	5.79	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 B4340 090050	50.00	90.00	50.00	28.2	2.03	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 B4340 090065	50.00	90.00	65.00	43.2	1.95	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 B4340 090080	50.00	90.00	80.00	59.0	3.37	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 B4340 110090	50.00	110.00	90.00	69.0	5.61	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C6 B4340 063100	63.00	63.00	100.00	78.0	2.72	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 B4340 075195	63.00	75.00	195.00	172.0	6.78	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 B4340 095050	63.00	95.00	50.00	26.2	2.25	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 B4340 110085	63.00	110.00	85.00	62.0	5.38	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 B4340 120180	63.00	120.00	180.00	157.0	14.73	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C6 B4340 130095	63.00	130.00	95.00	72.0	8.24	COOLING TUBE C6*	WRENCH COOL TUBE C6*
C8 B4340 080200	80.00	80.00	200.00	170.0	8.45	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 B4340 120160	80.00	120.00	160.00	129.0	13.21	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 B4340 130090	80.00	130.00	90.00	59.0	7.89	COOLING TUBE C8*	WRENCH COOL TUBE C8*
C8 B4340 145200	80.00	145.00	200.00	169.0	23.95	COOLING TUBE C8*	WRENCH COOL TUBE C8*

• Material SAE 4340

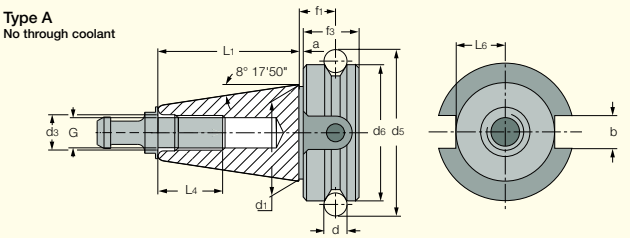
* Optional, should be ordered separately

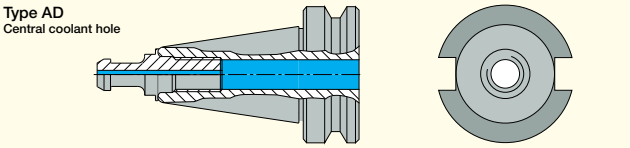
BT MAS-403

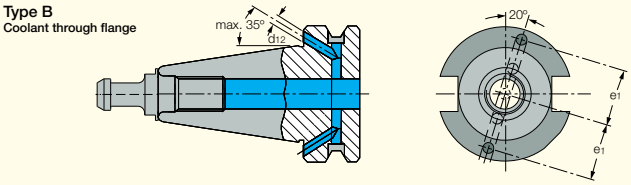
BT MAS

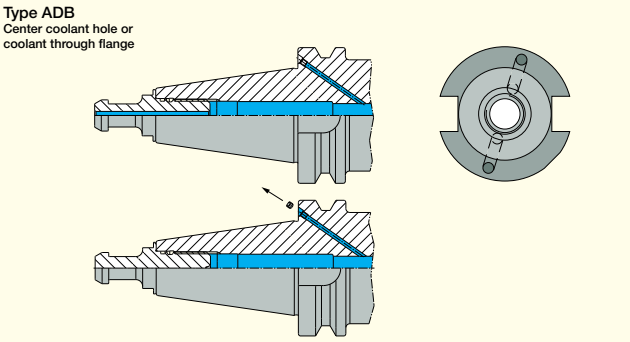
Toolholder Standard

"ADB" holders provide both "AD" and "B" type coolant flow options









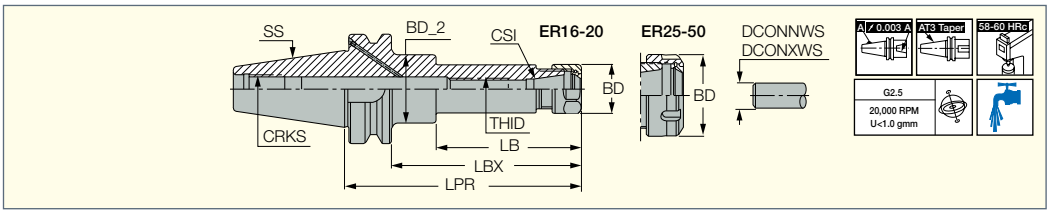
Shank	a	b (H12)	d	d_1	G	d_3 (H8)	d_5	d_6 (H8)	f_1 ±0.1
BT 30	2	16.1	8	31.75	M12	12.5	56.144	46	13.6
BT 40	2	16.1	10	44.45	M16	17.0	75.679	63	16.6
BT 50	3	25.7	15	69.85	M24	25.0	119.020	100	23.2

Shank	f_3	L_1 ±0.2	L_4 MIN	$L_{6-0.2}$	e_1 ±0.1	d_{12}	Taper AT_3
BT 30	20	48.4	24	16.3	21	4	0.002
BT 40	25	65.4	30	22.6	27	4	0.003
BT 50	35	101.8	45	35.4	42	6	0.004

BT MAS

BT-ER

DIN6499 ER Collet Chucks
with BT MAS-403 ADB
Tapered Shanks



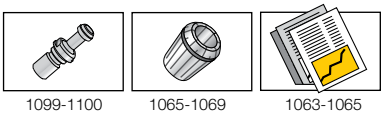
Designation	SS	CSI	DCONNWS[3]	DCONXWS	LPR	LBX	LB	BD	BD_2	THID	CRKS	kg
BT30 ER16X 70 [1]	30	ER16	0.5	10.0	70.00	48.0	-	28.00	-	M10	M12	0.47
BT30 ER16X100 [1]	30	ER16	0.5	10.0	100.00	73.0	-	28.00	-	M10	M12	0.61
BT30 ER20X 70 [1]	30	ER20	1.0	13.0	70.00	48.0	-	34.00	-	M12	M12	0.51
BT30 ER25X 60 [1]	30	ER25	1.0	16.0	60.00	38.0	-	42.00	-	M16	M12	0.46
BT30 ER32X 60 [1]	30	ER32	2.0	20.0	60.00	38.0	-	50.00	-	M18X1.5	M12	0.42
BT40 ER11X100 M	40	ER11	0.5	7.0	100.00	73.0	-	16.00	-	M6	M16	1.06
BT40 ER16X 70	40	ER16	0.5	10.0	70.00	43.0	-	28.00	-	M12	M16	1.06
BT40 ER16X100	40	ER16	0.5	10.0	100.00	73.0	-	28.00	-	M12	M16	1.20
BT40 ER16X150	40	ER16	0.5	10.0	150.00	123.0	86.00	28.00	40.00	M12	M16	1.56
BT40 ER16X200 [2]	40	ER16	0.5	10.0	200.00	173.0	110.00	28.00	40.00	M10	M16	1.84
BT40 ER20X 70	40	ER20	1.0	13.0	70.00	43.0	-	34.00	-	M12	M16	1.07
BT40 ER20X100	40	ER20	1.0	13.0	100.00	73.0	-	34.00	-	M12	M16	1.27
BT40 ER20X120	40	ER20	1.0	13.0	120.00	93.0	-	34.00	-	M12	M16	1.39
BT40 ER20X150	40	ER20	1.0	13.0	150.00	123.0	-	34.00	-	M12	M16	1.61
BT40 ER25X 60	40	ER25	1.0	13.0	60.00	33.0	-	42.00	-	M16	M16	1.00
BT40 ER25X100	40	ER25	1.0	16.0	100.00	73.0	-	42.00	-	M16	M16	1.40
BT40 ER25X150	40	ER25	1.0	16.0	150.00	123.0	-	42.00	-	M16	M16	2.07
BT40 ER32X 60	40	ER32	2.0	20.0	60.00	33.0	-	50.00	-	M22X1.5	M16	0.90
BT40 ER32X100	40	ER32	2.0	20.0	100.00	73.0	-	50.00	-	M22X1.5	M16	1.45
BT40 ER32X120	40	ER32	2.0	20.0	120.00	93.0	-	50.00	-	M22X1.5	M16	1.74
BT40 ER32X150	40	ER32	2.0	20.0	150.00	123.0	-	50.00	-	M22X1.5	M16	2.19
BT40 ER32X200 [2]	40	ER32	2.0	20.0	200.00	173.0	113.00	50.00	57.00	M22X1.5	M16	3.02
BT40 ER40X 80	40	ER40	3.0	26.0	80.00	53.0	-	63.00	-	M28X1.5	M16	1.33
BT40 ER40X100	40	ER40	3.0	26.0	100.00	73.0	-	63.00	-	M28X1.5	M16	1.32
BT40 ER40X150	40	ER40	3.0	26.0	150.00	123.0	-	63.00	-	M28X1.5	M16	2.03
BT40 ER50X 90	40	ER50	10.0	34.0	90.00	63.0	-	78.00	-	M28X1.5	M16	1.27
BT50 ER16X100	50	ER16	0.5	10.0	100.00	62.0	-	28.00	-	M12	M24	3.70
BT50 ER16X125	50	ER16	0.5	10.0	125.00	87.0	-	28.00	-	M12	M24	3.94
BT50 ER16X150	50	ER16	0.5	10.0	150.00	112.0	-	28.00	-	M12	M24	3.99
BT50 ER16X200 [2]	50	ER16	0.5	10.0	200.00	162.0	85.00	28.00	40.00	M10	M24	4.51
BT50 ER20X100	50	ER20	1.0	10.0	100.00	62.0	-	34.00	-	M12	M24	3.81
BT50 ER20X125	50	ER20	1.0	13.0	125.00	87.0	-	34.00	-	M12	M24	3.89
BT50 ER20X150	50	ER20	1.0	13.0	150.00	112.0	-	34.00	-	M12	M24	4.06
BT50 ER20X200 [2]	50	ER20	1.0	13.0	200.00	162.0	85.00	34.00	50.00	M12	M24	5.04
BT50 ER25X100	50	ER25	1.0	16.0	100.00	62.0	-	42.00	-	M16	M24	3.90
BT50 ER25X150	50	ER25	1.0	16.0	150.00	112.0	-	42.00	-	M16	M24	4.31
BT50 ER25X200 [2]	50	ER25	1.0	16.0	200.00	162.0	87.00	42.00	55.00	M16	M24	5.29
BT50 ER32X100	50	ER32	2.0	20.0	100.00	62.0	-	50.00	-	M22X1.5	M24	4.01
BT50 ER32X125	50	ER32	2.0	20.0	125.00	87.0	-	50.00	-	M12	M24	4.24
BT50 ER32X150	50	ER32	2.0	20.0	150.00	112.0	-	50.00	-	M22X1.5	M24	4.64
BT50 ER32X200 [2]	50	ER32	2.0	20.0	200.00	162.0	88.00	50.00	63.00	M22X1.5	M24	5.80
BT50 ER40X100	50	ER40	3.0	26.0	100.00	62.0	-	63.00	-	M28X1.5	M24	4.03
BT50 ER40X150	50	ER40	3.0	26.0	150.00	112.0	-	63.00	-	M28X1.5	M24	5.05
BT50 ER40X200 [2]	50	ER40	3.0	26.0	200.00	162.0	-	63.00	-	M28X1.5	M24	6.23
BT50 ER50X100	50	ER50	3.0	26.0	100.00	62.0	-	78.00	-	M36X1.5	M24	3.65
BT50 ER50X150	50	ER50	10.0	34.0	150.00	112.0	-	78.00	-	M36X1.5	M24	5.50

• B is the designation for coolant through flange.

[1] AD TYPE

[2] Balanced to G6.3/12,000 RPM

[3] Minimum diameter



1099-1100 1065-1069 1063-1065

BT-ER

Spare Parts

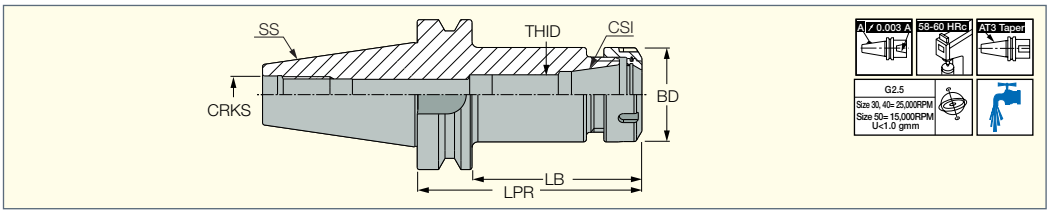
Designation						
BT30 ER16X 70	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 10X1.5*		
BT30 ER16X100	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 10X1.5*		
BT30 ER20X 70	NUT ER20 TOP		WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT30 ER25X 60	NUT ER25 TOP		WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*	
BT30 ER32X 60	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 18X1.5*	PRESET ER-JET 18X1.5L*	
BT40 ER11X100 M		NUT ER11 MINI				WRENCH ER11 MINI*
BT40 ER16X 70	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT40 ER16X100	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT40 ER16X150	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT40 ER16X200	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 10X1.5*		
BT40 ER20X 70	NUT ER20 TOP		WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT40 ER20X100	NUT ER20 TOP		WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT40 ER20X120	NUT ER20 TOP		WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT40 ER20X150	NUT ER20 TOP		WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT40 ER25X 60	NUT ER25 TOP		WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*	
BT40 ER25X100	NUT ER25 TOP		WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*	
BT40 ER25X150	NUT ER25 TOP		WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*	
BT40 ER32X 60	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*	
BT40 ER32X100	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*	
BT40 ER32X120	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*	
BT40 ER32X150	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*	
BT40 ER32X200	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*	
BT40 ER40X 80	NUT ER40 TOP		WRENCH ER40*	PRESET ER-JET 28X1.5*		
BT40 ER40X100	NUT ER40 TOP		WRENCH ER40*	PRESET ER-JET 28X1.5*		
BT40 ER40X150	NUT ER40 TOP		WRENCH ER40*	PRESET ER-JET 28X1.5*		
BT40 ER50X 90	NUT ER50 UM		WRENCH ER50*	PRESET ER-JET 28X1.5*		
BT50 ER16X100	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT50 ER16X125	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT50 ER16X150	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT50 ER16X200	NUT ER16 TOP		WRENCH ER16*	PRESET ER-JET 10X1.5*		
BT50 ER20X100	NUT ER20 TOP		WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT50 ER20X125	NUT ER20 TOP		WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT50 ER20X150	NUT ER20 TOP		WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT50 ER20X200	NUT ER20 TOP		WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*	
BT50 ER25X100	NUT ER25 TOP		WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*	
BT50 ER25X150	NUT ER25 TOP		WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*	
BT50 ER25X200	NUT ER25 TOP		WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*	
BT50 ER32X100	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*	
BT50 ER32X125	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*	
BT50 ER32X150	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*	
BT50 ER32X200	NUT ER32 TOP		WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*	
BT50 ER40X100	NUT ER40 TOP		WRENCH ER40*	PRESET ER-JET 28X1.5*		
BT50 ER40X150	NUT ER40 TOP		WRENCH ER40*	PRESET ER-JET 28X1.5*		
BT50 ER40X200	NUT ER40 TOP		WRENCH ER40*	PRESET ER-JET 28X1.5*		
BT50 ER50X100	NUT ER50 UM		WRENCH ER50*	PRESET ER-JET 28X1.5*		
BT50 ER50X150	NUT ER50 UM		WRENCH ER50*	PRESET ER-JET 28X1.5*		

* Optional, should be ordered separately

BT MAS

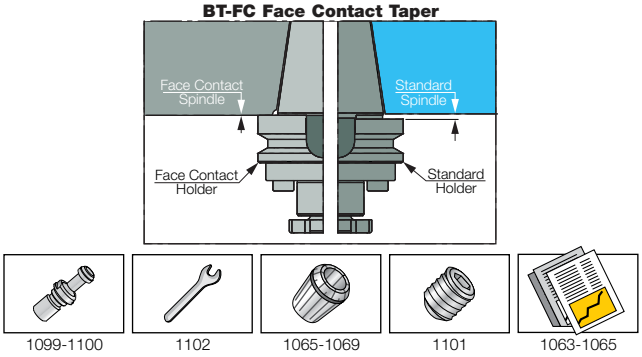
BT-FC-ER

ER Collet Chucks with BT
MAS-403 Face Contact
AD Tapered Shanks



Designation	SS	CSI	BD	LPR	LB	THID	CRKS	kg	
BT30 FC ER16X70	30	ER16	28.00	70.00	48.0	M10	M12	0.60	NUT ER16 TOP
BT30 FC ER16X100	30	ER16	28.00	100.00	78.0	M10	M12	0.61	NUT ER16 TOP
BT30 FC ER20X70	30	ER20	34.00	70.00	48.0	M12	M12	0.51	NUT ER20 TOP
BT30 FC ER25X60	30	ER25	42.00	60.00	38.0	M16	M12	0.47	NUT ER25 TOP
BT30 FC ER32X60	30	ER32	50.00	60.00	38.0	M18	M12	0.46	NUT ER32 TOP
BT40 FC ER16X70	40	ER16	28.00	70.00	44.0	M12	M16	1.05	NUT ER16 TOP
BT40 FC ER16X100	40	ER16	28.00	100.00	74.0	M12	M16	1.17	NUT ER16 TOP
BT40 FC ER32X60	40	ER32	50.00	60.00	34.0	M22X1.5	M16	0.92	NUT ER32 TOP
BT40 FC ER32X100	40	ER32	50.00	100.00	74.0	M22X1.5	M16	1.54	NUT ER32 TOP
BT40 FC ER40X80	40	ER40	63.00	80.00	54.0	M28X1.5	M16	1.09	NUT ER40 TOP
BT50 FC ER16X100	50	ER16	28.00	100.00	63.5	M12	M24	3.91	NUT ER16 TOP
BT50 FC ER16X150	50	ER16	28.00	150.00	113.5	M12	M24	3.96	NUT ER16 TOP
BT50 FC ER32X100	50	ER32	50.00	100.00	63.5	M22X1.5	M24	3.98	NUT ER32 TOP
BT50 FC ER32X150	50	ER32	50.00	150.00	113.5	M22X1.5	M24	4.65	NUT ER32 TOP
BT50 FC ER40X100	50	ER40	63.00	100.00	63.5	M28X1.5	M24	4.03	NUT ER40 TOP
BT50 FC ER40X150	50	ER40	63.00	150.00	113.5	M28X1.5	M24	5.60	NUT ER40 TOP

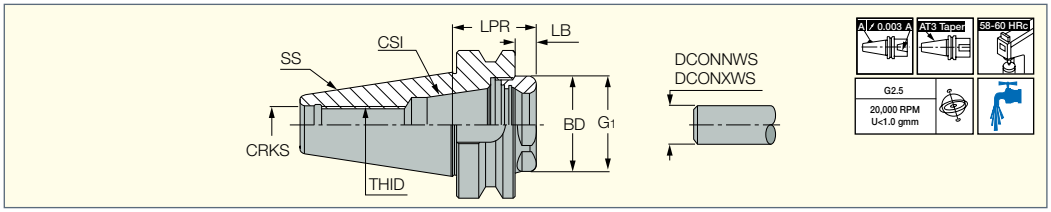
BT-FC Face Contact Taper



BT MAS SHORTIN

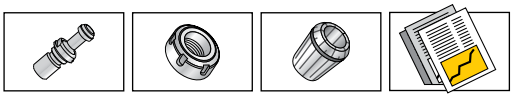
BT-ER-SHORT

Short ER Collet Chucks with BT
MAS-403 AD Tapered Shanks



Designation	SS	CSI	DCONNWS(1)	DCONXWS(2)	LPR	LB	BD	THID	CRKS	G1	kg
BT30 ER20 SHORT	30	ER20	1.0	13.0	23.70	5.2	25.00	M12	M12	M25X1.5	0.30
BT40 ER32 SHORT	40	ER32	2.0	20.0	36.50	6.0	40.00	M16	M16	M40X1.5	0.74
BT40 ER40 SHORT	40	ER40	3.0	26.0	43.00	6.0	50.00	M16	M16	M50X1.5	0.78
BT50 ER32 SHORT	50	ER32	2.0	20.0	44.00	6.0	40.00	M22X1.5	M24	M40X1.5	3.36
BT50 ER40 SHORT	50	ER40	3.0	26.0	44.00	6.0	50.00	M28X1.5	M24	M50X1.5	3.09

• B is the designation for coolant through flange.
(1) Minimum diameter
(2) Maximum diameter



Spare Parts

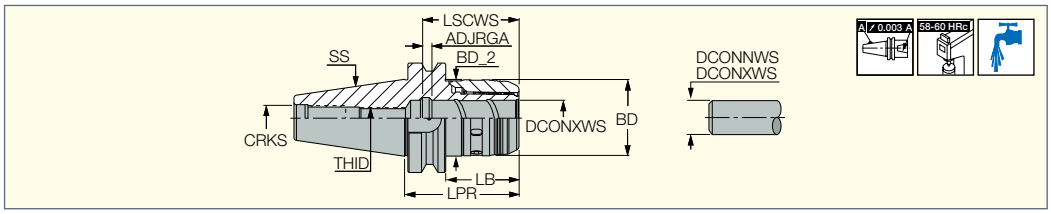
Designation				
BT30 ER20 SHORT	NUT ER20 SHORT		PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
BT40 ER32 SHORT	NUT ER32 SHORT	WRENCH ER32 SHORT*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
BT40 ER40 SHORT	NUT ER40 SHORT	WRENCH ER40 SHORT*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
BT50 ER32 SHORT	NUT ER32 SHORT	WRENCH ER32 SHORT*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
BT50 ER40 SHORT	NUT ER40 SHORT	WRENCH ER40 SHORT*	PRESET ER-JET 28X1.5*	

* Optional, should be ordered separately

BT MAS MAXIN

BT-MAXIN

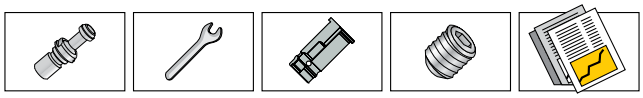
Power Chucks with BT MAS-403 ADB Tapered Shanks



Designation	SS	DCONXWS(1)	DCONNWS(2)	BD	BD_2	LPR	LB	ADJRGA	LSCWS	THID	CRKS	kg
BT40 MAXIN 20X 85	40	20.00	6.0	51.00	52.00	85.00	58.0	12.00	68.0	M16	M16	1.12
BT40 MAXIN 32X108	40	32.00	6.0	69.00	70.00	108.00	81.0	13.00	83.0	M16	M16	1.60
BT50 MAXIN 20X105	50	20.00	6.0	51.00	52.00	105.00	67.0	13.00	69.0	M16	M24	3.90
BT50 MAXIN 20X105 ADB	50	20.00	6.0	51.00	52.00	105.00	67.0	13.00	69.0	M16	M24	0.00
BT50 MAXIN 32X106	50	32.00	6.0	69.00	70.00	106.00	68.0	14.00	83.0	M20X2	M24	3.80
BT50 MAXIN 32X106 ADB	50	32.00	6.0	69.00	70.00	106.00	68.0	14.00	83.0	M20X2	M24	0.00
BT50 MAXIN 32X135	50	32.00	6.0	69.00	70.00	135.00	97.0	15.00	84.0	M20X2	M24	4.60
BT50 MAXIN 32X135 ADB	50	32.00	6.0	69.00	70.00	135.00	97.0	15.00	84.0	M20X2	M24	0.00

(1) Max. diameter without a collet

(2) Minimum diameter by using a reduction collet



1099-1100 | 1102 | 1082 | 1102 | 930-931

Spare Parts

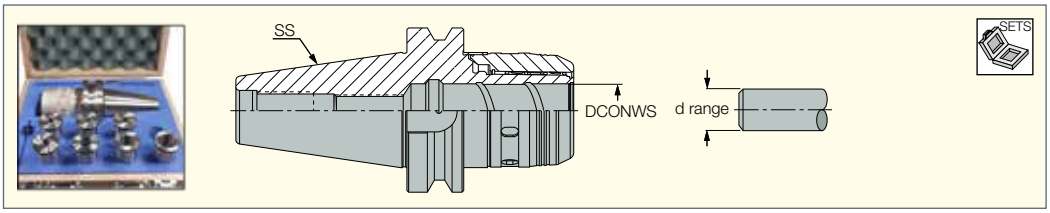
Designation		
BT40 MAXIN 32X108	WRENCH MAXIN 32 HOOK*	EXTRACTOR SC COLLETS*
BT50 MAXIN 20X105	WRENCH MAXIN 20 HOOK*	EXTRACTOR SC COLLETS*
BT50 MAXIN 32X106	WRENCH MAXIN 32 HOOK*	EXTRACTOR SC COLLETS*
BT50 MAXIN 32X135	WRENCH MAXIN 32 HOOK*	EXTRACTOR SC COLLETS*

* Optional, should be ordered separately

BT MAS MAXIN KIT

KIT BT-MAXIN

Contains a Power Chuck with a BT Tapered Shank and a Set of Collets in Various Bore Sizes



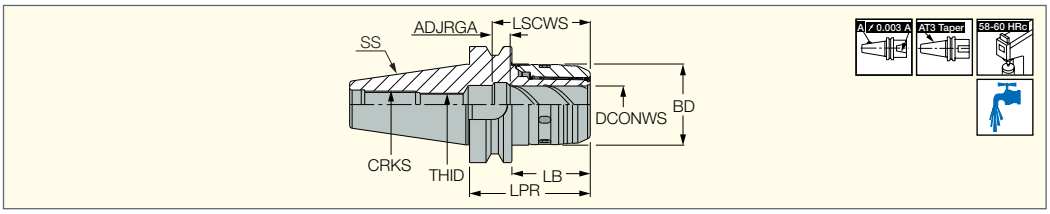
Designation	SS	DCONWS	Qty	d Range
KIT BT40 MAXIN 20X85 6	40	20.00	6	6,8,10,12,14,16
KIT BT40 MAXIN 32X108 7	40	32.00	7	6,8,10,12,16,20,25
KIT BT50 MAXIN 20X105 6	50	20.00	6	6,8,10,12,14,16
KIT BT50 MAXIN 32X106 7	50	32.00	7	6,8,10,12,16,20,25

• Each kit contains one power chuck, a set of SC-SPR collets, extraction hook and wrench.

MAXIN BT MAS

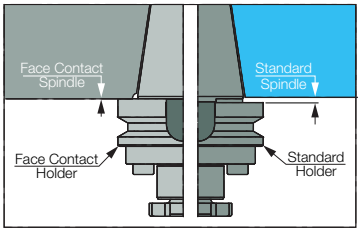
BT-FC-MAXIN

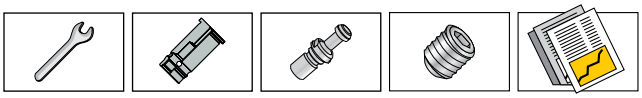
Power Chucks with BT MAS-403
Face Contact AD Tapered Shanks



Designation	SS	DCONWS	BD	LPR	LB	ADJRGA	LSCWS	THID	CRKS
BT40 FC MAXIN20X85	40	20.00	53.00	85.00	58.0	12.80	68.3	M16	M16
BT40 FC MAXIN32X108	40	32.00	70.00	108.00	80.5	13.00	83.0	M16	M16
BT50 FC MAXIN20X105	50	20.00	53.00	105.00	67.0	13.10	68.6	M16	M24
BT50 FC MAXIN32X106	50	32.00	69.90	106.00	68.0	14.30	83.3	M20X2	M24

BT-FC Face Contact Taper





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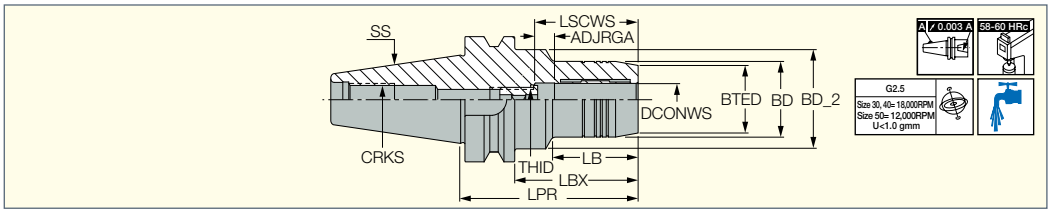
BT MAS HYDROFIT HOLDING LINE

BT-HYDRO

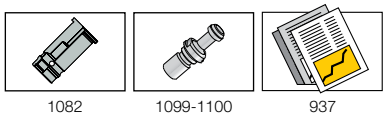
Hydraulic Chucks with MAS-AD
Form ADB Shanks



Designation	SS	DCONWS	BTED	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	THID	CRKS	kg
BT30 HYDRO 6X60 (1)	30	6.00	23.00	26.00	-	60.00	38.0	-	10.00	37.0	M5	M12	0.58
BT30 HYDRO 8X64 (1)	30	8.00	25.00	28.00	45.00	64.00	42.0	29.00	10.00	37.0	M6	M12	0.68
BT30 HYDRO 10X64 (1)	30	10.00	27.00	30.00	-	64.00	42.0	-	10.00	42.0	M8X1	M12	0.59
BT30 HYDRO 12X72 (1)	30	12.00	29.00	32.00	-	72.00	50.0	-	10.00	47.0	M10X1	M12	0.70
BT30 HYDRO 14X70 (1)	30	14.00	30.00	34.00	-	70.00	48.0	-	10.00	47.0	M10X1	M12	0.69
BT30 HYDRO 16X90 (1)	30	16.00	34.00	38.00	50.00	90.00	63.0	47.50	10.00	52.0	M12X1	M12	1.00
BT30 HYDRO 18X90 (1)	30	18.00	36.00	40.00	42.00	90.00	68.0	52.00	10.00	52.0	M12X1	M12	0.97
BT30 HYDRO 20X90 (1)	30	20.00	38.00	42.00	-	90.00	68.0	-	10.00	52.0	M12X1	M12	0.56
BT40 HYDRO 6X90	40	6.00	23.00	26.00	50.00	90.00	63.0	43.00	10.00	37.0	M5	M16	1.39
BT40 HYDRO 8X90	40	8.00	25.00	28.00	50.00	90.00	63.0	43.50	10.00	37.0	M6	M16	1.40
BT40 HYDRO 10X90	40	10.00	27.00	30.00	50.00	90.00	63.0	44.00	10.00	42.0	M8X1	M16	1.44
BT40 HYDRO 12X90	40	12.00	29.00	32.00	50.00	90.00	63.0	44.50	10.00	47.0	M10X1	M16	1.45
BT40 HYDRO 14X90	40	14.00	30.00	34.00	50.00	90.00	63.0	47.50	10.00	47.0	M10X1	M16	1.35
BT40 HYDRO 16X90	40	16.00	34.00	38.00	50.00	90.00	63.0	47.50	10.00	52.0	M12X1	M16	1.51
BT40 HYDRO 18X90	40	18.00	36.00	40.00	50.00	90.00	63.0	47.50	10.00	52.0	M12X1	M16	1.54
BT40 HYDRO 20X90	40	20.00	38.00	42.00	50.00	90.00	63.0	47.50	10.00	52.0	M12X1	M16	1.56
BT40 HYDRO 25X90	40	25.00	46.00	50.00	63.00	90.00	55.0	55.00	10.00	58.0	M12X1	M16	1.67
BT40 HYDRO 32X110	40	32.00	56.00	60.00	60.00	110.00	81.5	81.50	10.00	62.0	M16X1	M16	1.15
BT50 HYDRO 6X110	50	6.00	23.00	26.00	80.00	110.00	72.0	43.00	10.00	37.0	M5	M24	4.73
BT50 HYDRO 8X110	50	8.00	25.00	28.00	80.00	110.00	72.0	43.50	10.00	37.0	M6	M24	4.76
BT50 HYDRO 10X110	50	10.00	27.00	30.00	80.00	110.00	72.0	44.00	10.00	42.0	M8X1	M24	4.77
BT50 HYDRO 12X110	50	12.00	29.00	32.00	80.00	110.00	72.0	42.00	10.00	47.0	M10X1	M24	4.80
BT50 HYDRO 14X110	50	14.00	30.00	34.00	80.00	110.00	72.0	42.00	10.00	47.0	M10X1	M24	4.69
BT50 HYDRO 16X110	50	16.00	34.00	38.00	80.00	110.00	72.0	45.00	10.00	52.0	M12X1	M24	4.80
BT50 HYDRO 18X110	50	18.00	36.00	40.00	80.00	110.00	72.0	45.00	10.00	52.0	M12X1	M24	3.20
BT50 HYDRO 20X110	50	20.00	38.00	42.00	80.00	110.00	72.0	47.50	10.00	52.0	M12X1	M24	4.83
BT50 HYDRO 25X110	50	25.00	46.00	50.00	80.00	110.00	72.0	47.50	10.00	58.0	M12X1	M24	4.95
BT50 HYDRO 32X110	50	32.00	56.00	60.00	80.00	110.00	72.0	47.50	10.00	64.0	M12X1	M24	5.12

• Chucking forces will be reduced by 25% if reduction sleeves are used. • Reduction sleeves are available for 12, 20, 25 and 32 mm bore diameters (ordered separately). • The coolant passages in the B type flange are blocked with screws which can be removed when required. • Clamping wrench (wrench HYDRO HEX 4) and test bar should be ordered separately.

(1) Without through flange coolant holes.



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BT-HYDRO

Spare Parts

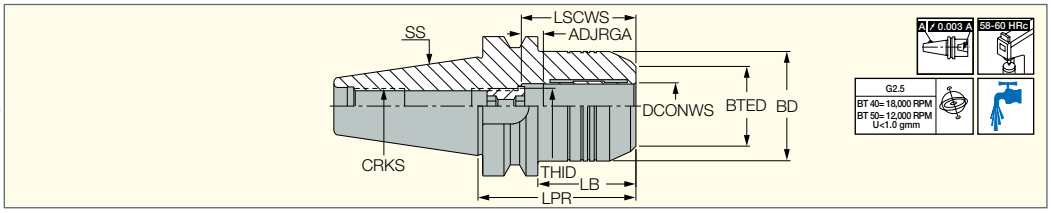
Designation			
BT30 HYDRO 6X60	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 6*
BT30 HYDRO 8X64	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 8*
BT30 HYDRO 10X64	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 10*
BT30 HYDRO 12X72	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 12*
BT30 HYDRO 14X70	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 14*
BT30 HYDRO 16X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 16*
BT30 HYDRO 18X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 18*
BT30 HYDRO 20X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 20*
BT40 HYDRO 6X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 6*
BT40 HYDRO 8X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 8*
BT40 HYDRO 10X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 10*
BT40 HYDRO 12X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 12*
BT40 HYDRO 14X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 14*
BT40 HYDRO 16X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 16*
BT40 HYDRO 18X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 18*
BT40 HYDRO 20X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 20*
BT40 HYDRO 25X90	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 25*
BT40 HYDRO 32X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 32*
BT50 HYDRO 6X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 6*
BT50 HYDRO 8X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 8*
BT50 HYDRO 10X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 10*
BT50 HYDRO 12X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 12*
BT50 HYDRO 14X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 14*
BT50 HYDRO 16X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 16*
BT50 HYDRO 18X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 18*
BT50 HYDRO 20X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 20*
BT50 HYDRO 25X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 25*
BT50 HYDRO 32X110	HYDRO CLAMP SCREW M8X14	WRENCH HYDRO HEX 4*	TEST BAR HYDRO 32*

* Optional, should be ordered separately

BT MAS HYDROFIT HOLDING LINE

BT-HYDRO HD

Heavy Duty, Short Hydraulic Chucks With BT Form AD Shanks

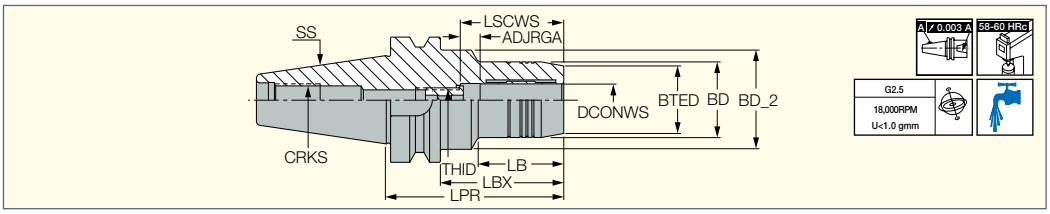


Designation	SS	DCONWS	BTED	BD	LPR	BD_2	LB	ADJRGA	LSCWS	THID	kg	CRKS
BT40 HYDRO 12X58 HD	40.0	12.00	32.00	42.00	58.00	999.00	31.0	10.00	46.0	M8X1	1.23	M16
BT40 HYDRO 16X72.5 HD	40.0	16.00	38.00	49.25	72.50	999.00	45.5	8.00	51.0	M8X1	0.00	M16
BT40 HYDRO 20X72.5 HD	40.0	20.00	38.00	49.25	72.50	999.00	45.5	8.00	51.0	M8X1	1.49	M16
BT50 HYDRO 20X83.5 HD	50.0	20.00	38.00	49.25	83.50	999.00	45.5	8.00	51.0	M8X1	4.22	M24
BT50 HYDRO 32X90 HD	50.0	32.00	58.50	72.00	90.00	999.00	52.0	9.00	61.0	M8X1	0.00	M24

BT MAS HYDROFIT HOLDING LINE

BT-FC-HYDRO

Hydraulic Chucks with MAS-BT Face Contact Form AD Shanks



Designation	SS	DCONWS	LPR	BTED	BD	BD_2	LBX	LB	ADJRGA	LSCWS	THID	CRKS	kg
BT30 FC HYDRO 6X60	30	6.00	60.00	23.00	26.00	-	38.0	33.00	10.00	37.0	M5	M12	0.50
BT30 FC HYDRO 8X64	30	8.00	64.00	25.00	28.00	45.00	42.0	29.00	6.00	37.0	M6	M12	0.60
BT30 FC HYDRO 10X64	30	10.00	64.00	27.00	30.00	-	42.0	37.00	10.00	42.0	M8x1	M12	0.50
BT30 FC HYDRO 12X72	30	12.00	72.00	29.00	32.00	-	50.0	43.00	10.00	50.0	M10x1	M12	0.60
BT30 FC HYDRO 14X70	30	14.00	70.00	30.00	34.00	-	48.0	33.00	10.00	48.0	M8x1	M12	0.70
BT30 FC HYDRO 16X90	30	16.00	90.00	34.00	38.00	-	68.0	52.00	10.00	52.0	M10x1	M12	0.90
BT30 FC HYDRO 18X90	30	18.00	90.00	36.00	40.00	-	68.0	52.00	10.00	52.0	M10x1	M12	0.90
BT30 FC HYDRO 20X90	30	20.00	90.00	38.00	42.00	42.00	68.0	-	10.00	52.0	M10x1	M12	0.90

• Chucking forces will be reduced by 25% if reduction sleeves are used • Reduction sleeves are available for 12, and 20 mm bore diameters (ordered separately) • Clamping wrench (wrench HYDRO HEX 4) and test bar should be ordered separately

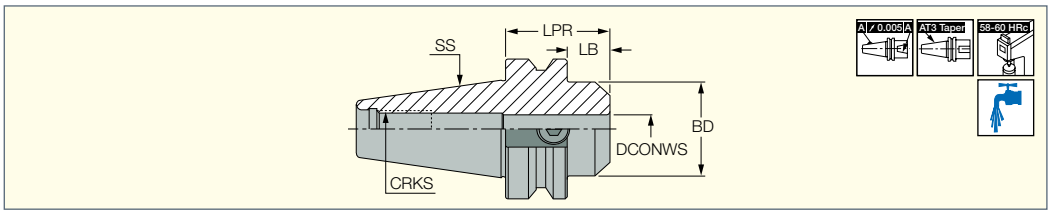
Spare Parts

Designation	
BT-FC-HYDRO	HYDRO CLAMP SCREW M8X14

BT MAS

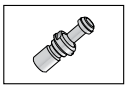
BT-EM (Short)

Short DIN6359 / DIN 1835 Form B Weldon Endmill Holders with BT MAS-403 AD Tapered Shanks



Designation	SS	DCONWS	LPR	LB	BD	CRKS	kg	
BT40 EM 10X 45	40	10.00	45.00	18.0	35.00	M16	1.05	SR M10X12 DIN1835-B
BT40 EM 12X 45	40	12.00	45.00	18.0	42.00	M16	1.08	SR M12X16 DIN1835-B
BT40 EM 14X 45	40	14.00	45.00	18.0	44.00	M16	1.06	SR M12X16 DIN1835-B
BT40 EM 16X 45	40	16.00	45.00	18.0	48.00	M16	1.16	SR M14X16 DIN1835-B
BT40 EM 18X 45	40	18.00	45.00	18.0	50.00	M16	1.10	SR M14X16 DIN1835-B
BT40 EM 20X 45	40	20.00	45.00	18.0	52.00	M16	1.13	SR M16X10.3 EM SHORT
BT40 EM 25X 45	40	25.00	45.00	-	63.00	M16	1.12	SR M18X2X10 EM SHORT

• B is the designation for coolant through flange.

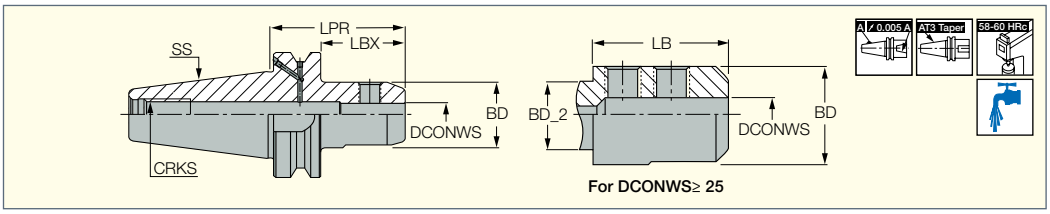


1099-1100

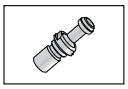
BT MAS

BT-EM (DIN 1835 Form B)

DIN6359 / DIN 1835 Form B
Weldon Endmill Holders with BT
MAS-403 ADB Tapered Shanks



Designation	SS	DCONWS	LPR	BD	BD_2	LBX	LB	CRKS	kg	
BT30 EM 6X 50	30	6.00	50.00	25.00	-	28.0	-	M12	0.46	SR M6X10 DIN1835B
BT30 EM 8X 60	30	8.00	60.00	28.00	-	38.0	-	M12	0.52	SR M8X10 DIN1835-B
BT30 EM 10X 60	30	10.00	60.00	35.00	-	38.0	-	M12	0.61	SR M10X12 DIN1835-B
BT30 EM 12X 60	30	12.00	60.00	42.00	-	38.0	-	M12	0.73	SR M12X16 DIN1835-B
BT30 EM 14X50	30	14.00	60.00	44.00	-	38.0	-	M12	0.73	SR M12X16 DIN1835-B
BT30 EM 16X 60	30	16.00	60.00	46.00	-	38.0	-	M12	0.79	SR M14X16 DIN1835-B
BT30 EM 18X 60	30	18.00	60.00	50.00	-	38.0	-	M12	0.76	SR M14X16 DIN1835-B
BT30 EM 20X 80	30	20.00	80.00	52.00	-	58.0	-	M12	1.04	SR M16X16 DIN1835-B
BT40 EM 6X 50	40	6.00	50.00	25.00	-	23.0	-	M16	1.02	SR M6X10 DIN1835B
BT40 EM 8X 50	40	8.00	50.00	28.00	-	23.0	-	M16	1.01	SR M8X10 DIN1835-B
BT40 EM 10X 65	40	10.00	65.00	35.00	-	38.0	-	M16	1.17	SR M10X12 DIN1835-B
BT40 EM 12X 65	40	12.00	65.00	42.00	-	38.0	-	M16	1.29	SR M12X16 DIN1835-B
BT40 EM 14X 65	40	14.00	65.00	44.00	-	38.0	-	M16	1.30	SR M12X16 DIN1835-B
BT40 EM 16X 65	40	16.00	65.00	48.00	-	38.0	-	M16	1.35	SR M14X16 DIN1835-B
BT40 EM 18X 65	40	18.00	65.00	50.00	-	38.0	-	M16	1.39	SR M14X16 DIN1835-B
BT40 EM 20X 75	40	20.00	75.00	52.00	-	48.0	-	M16	1.54	SR M16X16 DIN1835-B
BT40 EM 20X120	40	20.00	120.00	52.00	-	93.0	-	M16	2.25	SR M16X16 DIN1835-B
BT40 EM 25X105	40	25.00	105.00	65.00	61.00	78.0	68.00	M16	2.61	SR M18X2X20 DIN1835-B
BT40 EM 32X110	40	32.00	110.00	71.00	61.00	83.0	73.00	M16	2.84	SR M20X2X20 DIN1835-B
BT50 EM 6X 70	50	6.00	70.00	25.00	-	32.0	-	M24	3.68	SR M6X10 DIN1835B
BT50 EM 8X 70	50	8.00	70.00	28.00	-	32.0	-	M24	3.58	SR M8X10 DIN1835-B
BT50 EM 10X 70	50	10.00	70.00	35.00	-	32.0	-	M24	3.68	SR M10X12 DIN1835-B
BT50 EM 10X100	50	10.00	100.00	35.00	-	62.0	-	M24	3.97	SR M10X12 DIN1835-B
BT50 EM 12X100	50	12.00	100.00	42.00	-	62.0	-	M24	4.01	SR M12X16 DIN1835-B
BT50 EM 14X100	50	14.00	100.00	44.00	-	62.0	-	M24	4.13	SR M12X16 DIN1835-B
BT50 EM 16X100	50	16.00	100.00	48.00	-	62.0	-	M24	4.17	SR M14X16 DIN1835-B
BT50 EM 18X100	50	18.00	100.00	50.00	-	62.0	-	M24	4.29	SR M14X16 DIN1835-B
BT50 EM 20X100	50	20.00	100.00	52.00	-	62.0	-	M24	4.28	SR M16X16 DIN1835-B
BT50 EM 25X115	50	25.00	115.00	65.00	-	77.0	-	M24	5.06	SR M18X2X20 DIN1835-B
BT50 EM 32X115	50	32.00	115.00	71.00	-	77.0	-	M24	5.28	SR M20X2X20 DIN1835-B
BT50 EM 40X115	50	40.00	115.00	90.00	-	77.0	-	M24	6.17	SR M20X2X20 DIN1835-B
BT50 EM 50X125	50	50.00	125.00	98.00	-	87.0	-	M24	6.94	SR M24X2X25 DIN1835-B

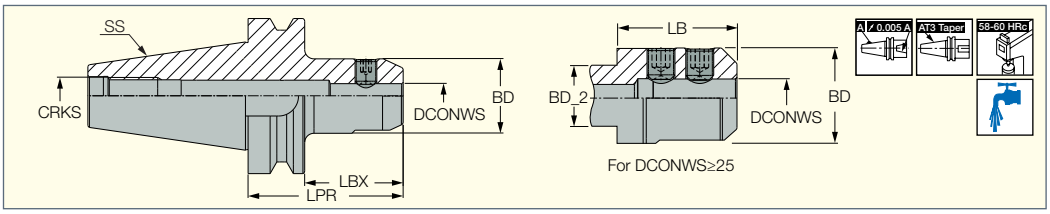


1099-1100

BT MAS

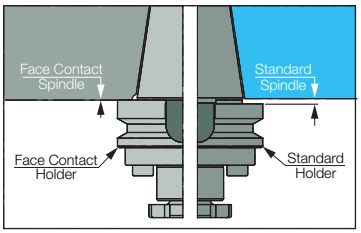
BT-FC-EM

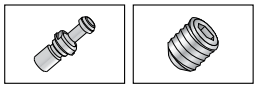
DIN1835 Form B Endmills with BT MAS-403 Face Contact AD Tapered Shanks



Designation	SS	DCONWS	BD	BD_2	LPR	LBX	LB	CRKS	kg
BT30 FC EM12X60	30	12.00	42.00	-	60.00	38.0	-	M12	0.73
BT30 FC EM16X60	30	16.00	45.90	-	60.00	38.0	-	M12	0.80
BT30 FC EM20X80	30	20.00	52.00	44.40	80.00	58.0	48.00	M12	1.04
BT40 FC EM10X65	40	10.00	35.00	-	65.00	39.0	-	M16	1.25
BT40 FC EM12X65	40	12.00	42.00	-	65.00	39.0	-	M16	1.29
BT40 FC EM16X65	40	16.00	48.00	-	65.00	39.0	-	M16	1.37
BT40 FC EM20X75	40	20.00	52.00	-	75.00	49.0	-	M16	1.56
BT40 FC EM25X105	40	25.00	65.00	61.00	105.00	79.0	68.00	M16	2.54
BT40 FC EM32X110	40	32.00	71.00	61.00	110.00	83.0	73.00	M16	1.87
BT50 FC EM12X100	50	12.00	42.00	-	100.00	62.0	-	M24	1.20
BT50 FC EM16X100	50	16.00	48.00	-	100.00	63.5	-	M24	4.22
BT50 FC EM20X100	50	20.00	52.00	-	100.00	63.5	-	M24	4.33
BT50 FC EM25X115	50	25.00	65.00	-	115.00	78.5	-	M24	4.50
BT50 FC EM32X115	50	32.00	71.00	-	115.00	78.5	-	M24	5.38
BT50 FC EM40X115	50	40.00	90.00	-	115.00	78.5	-	M24	6.29
BT50 FC EM50X125	50	50.00	100.00	-	125.00	87.0	-	M24	3.24

BT-FC Face Contact Taper



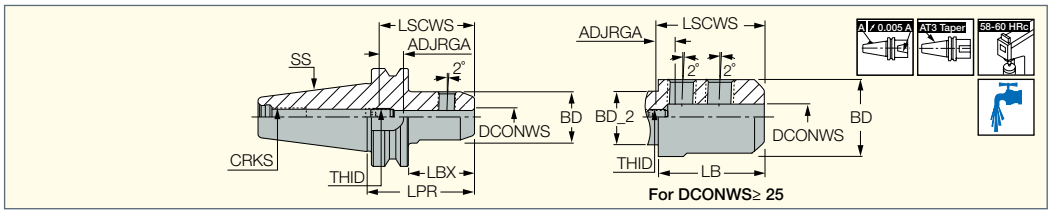


1099-1100 1105

BT MAS

BT-EM (DIN 1835 Form E)

DIN6359 / DIN 1835 Form E Drill Holders with BT MAS-403 AD Tapered Shanks

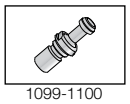


Designation	SS	DCONWS	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	THID(1)	Key(2)	CRKS	kg
BT40 EM 12X63 E*	40	12.00	42.00	-	65.00	38.0	-	10.00	54.0	M10	5.00	M16	1.27
BT40 EM 16X 65 E	40	16.00	48.00	-	65.00	38.0	-	10.00	57.0	M12	6.00	M16	1.38
BT40 EM 18X63 E	40	18.00	50.00	-	65.00	38.0	-	10.00	57.0	M12	6.00	M16	1.39
BT40 EM 20X 75 E	40	20.00	52.00	-	75.00	48.0	-	10.00	59.0	M16	8.00	M16	1.55
BT40 EM 25X105 E	40	25.00	65.00	61.00	105.00	78.0	68.00	10.00	64.0	M20X1.5	10.00	M16	2.45
BT40 EM 32X110 E	40	32.00	71.00	61.00	110.00	83.0	73.00	10.00	68.0	M20X1.5	10.00	M16	2.80
BT40 EM 6X 50 E	40	6.00	25.00	-	50.00	23.0	-	10.00	45.0	M5	2.50	M16	1.06
BT50 EM 10X 70 E	50	10.00	35.00	-	70.00	32.0	-	10.00	49.0	M8	4.00	M24	3.70
BT50 EM 12X100 E	50	12.00	42.00	-	100.00	62.0	-	10.00	54.0	M10	5.00	M24	4.06
BT50 EM 14X100 E	50	14.00	44.00	-	100.00	62.0	-	10.00	54.0	M10	5.00	M24	4.20
BT50 EM 16X100 E	50	16.00	48.00	-	100.00	62.0	-	10.00	57.0	M12	6.00	M24	4.27
BT50 EM 18X100 E	50	18.00	50.00	-	100.00	62.0	-	10.00	57.0	M12	6.00	M24	4.33
BT50 EM 20X100 E	50	20.00	52.00	-	100.00	62.0	-	10.00	59.0	M16	8.00	M24	4.36
BT50 EM 25X115 E	50	25.00	65.00	-	115.00	77.0	-	10.00	64.0	M20X1.5	10.00	M24	5.08
BT50 EM 32X115 E	50	32.00	71.00	-	115.00	77.0	-	10.00	68.0	M20X1.5	10.00	M24	5.25
BT50 EM 40X115 E	50	40.00	90.00	-	115.00	77.0	-	10.00	78.0	M20X1.5	10.00	M24	6.14
BT50 EM 50X125 E	50	50.00	98.00	-	125.00	67.0	-	10.00	88.0	M20X1.5	10.00	M24	6.94
BT50 EM 50X125 E B	50	50.00	98.00	-	125.00	67.0	-	10.00	88.0	M20X1.5	10.00	M24	7.00
BT50 EM 6X 70 E	50	6.00	25.00	-	70.00	32.0	-	10.00	45.0	M5	2.50	M24	3.70

• B is the designation for coolant through flange.

(1) Adjustment screw has an internal coolant hole.

(2) Adjustment screw hexagon key size



1099-1100

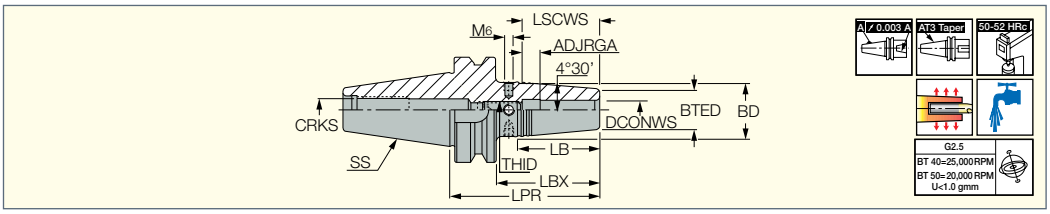
Spare Parts

Designation		
BT40 EM 12X63 E*	SR M12X16 DIN1835-B	PRESET M10X18B
BT40 EM 16X 65 E	SR M14X16 DIN1835-B	PRESET M12X18B
BT40 EM 18X63 E	SR M14X16 DIN1835-B	PRESET M12X18B
BT40 EM 20X 75 E	SR M16X16 DIN1835-B	PRESET M16X20B
BT40 EM 25X105 E	SR M18X2X20 DIN1835-B	PRESET M20X20E
BT40 EM 32X110 E	SR M20X2X20 DIN1835-B	PRESET M20X20E
BT40 EM 6X 50 E	SR M6X10 DIN1835B	PRESET M5X18B
BT50 EM 10X 70 E	SR M10X12 DIN1835-B	PRESET M8X20B
BT50 EM 12X100 E	SR M12X16 DIN1835-B	PRESET M10X18B
BT50 EM 14X100 E	SR M12X16 DIN1835-B	PRESET M10X18B
BT50 EM 16X100 E	SR M14X16 DIN1835-B	PRESET M12X18B
BT50 EM 18X100 E	SR M14X16 DIN1835-B	PRESET M12X18B
BT50 EM 20X100 E	SR M16X16 DIN1835-B	PRESET M16X20B
BT50 EM 25X115 E	SR M18X2X20 DIN1835-B	PRESET M20X20E
BT50 EM 32X115 E	SR M20X2X20 DIN1835-B	PRESET M20X20E
BT50 EM 40X115 E	SR M20X2X20 DIN1835-B	PRESET M20X20E
BT50 EM 50X125 E	SR M24X2X25 DIN1835-B	PRESET M20X20E
BT50 EM 50X125 E B	SR M24X2X25 DIN1835-B	
BT50 EM 6X 70 E	SR M6X10 DIN1835B	PRESET M5X18B

BT MAS SHRINKIN

BT-SRKIN

Thermal Shrink Chucks with BT MAS-403 AD Tapered Shanks for Carbide HSS and Steel Tools



Designation	SS	DCONWS	BD	BTED	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key(1)	CRKS	kg
BT40 SRKIN 6X 90	40	6.00	27.00	21.00	90.00	63.0	38.00	11.00	36.0	M5	2.50	M16	1.13
BT40 SRKIN 8X 90	40	8.00	27.00	21.00	90.00	63.0	38.00	11.00	36.0	M6	3.00	M16	1.07
BT40 SRKIN 10X 90	40	10.00	32.00	24.00	90.00	63.0	50.50	11.00	42.0	M8	4.00	M16	1.23
BT40 SRKIN 12X 90	40	12.00	32.00	24.00	90.00	63.0	50.50	11.00	47.0	M10	5.00	M16	1.13
BT40 SRKIN 14X 90	40	14.00	34.00	27.00	90.00	63.0	44.50	11.00	47.0	M10	5.00	M16	1.26
BT40 SRKIN 16X 90	40	16.00	34.00	27.00	90.00	63.0	44.50	11.00	50.0	M12	6.00	M16	1.23
BT40 SRKIN 16X120	40	16.00	34.00	27.00	120.00	93.0	44.50	11.00	50.0	M12	6.00	M16	1.43
BT40 SRKIN 18X 90	40	18.00	42.00	33.00	90.00	63.0	57.00	11.00	50.0	M12	6.00	M16	1.40
BT40 SRKIN 20X 90	40	20.00	42.00	33.00	90.00	63.0	57.00	11.00	52.0	M16	8.00	M16	1.30
BT40 SRKIN 25X110	40	25.00	53.00	44.00	110.00	83.0	57.00	11.00	58.0	M16	8.00	M16	1.84
BT50 SRKIN 6X100	50	6.00	26.00	21.00	100.00	62.0	32.00	11.00	36.0	M5	2.50	M24	3.67
BT50 SRKIN 8X100	50	8.00	27.00	21.00	100.00	62.0	38.00	11.00	36.0	M6	3.00	M24	3.78
BT50 SRKIN 10X100	50	10.00	32.00	24.00	100.00	62.0	51.00	11.00	42.0	M8	4.00	M24	3.78
BT50 SRKIN 12X100	50	12.00	32.00	24.00	100.00	62.0	51.00	11.00	47.0	M10	5.00	M24	3.74
BT50 SRKIN 14X100	50	14.00	34.00	27.00	100.00	62.0	44.50	11.00	47.0	M10	5.00	M24	3.80
BT50 SRKIN 16X100	50	16.00	34.00	27.00	100.00	62.0	44.50	11.00	50.0	M12	6.00	M24	3.70
BT50 SRKIN 18X100	50	18.00	42.00	33.00	100.00	62.0	57.00	11.00	50.0	M12	6.00	M24	3.92
BT50 SRKIN 20X100	50	20.00	42.00	33.00	100.00	62.0	57.00	11.00	52.0	M16	8.00	M24	3.77
BT50 SRKIN 25X120	50	25.00	53.00	44.00	120.00	82.0	57.00	11.00	58.0	M16	8.00	M24	4.50
BT50 SRKIN 32X120	50	32.00	53.00	44.00	120.00	82.0	57.00	11.00	58.0	M16	8.00	M24	4.34

• Use only inductive heating device for SRKIN holders

(1) Hex key size for the rear stopper screw

1099-1100 1070-1072 1076-1077

Spare Parts

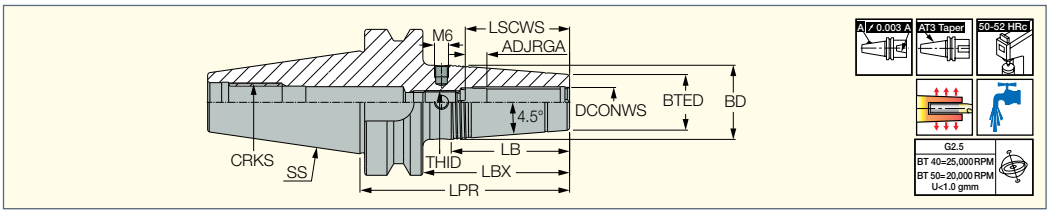
Designation	
BT40 SRKIN 6X 90	PRESET M5X18B
BT40 SRKIN 8X 90	PRESET M6X20B
BT40 SRKIN 10X 90	PRESET M8X20B
BT40 SRKIN 12X 90	PRESET M10X18B
BT40 SRKIN 14X 90	PRESET M10X18B
BT40 SRKIN 16X 90	PRESET M12X18B
BT40 SRKIN 16X120	PRESET M12X18B
BT40 SRKIN 18X 90	PRESET M12X18B
BT40 SRKIN 20X 90	PRESET M16X20B
BT40 SRKIN 25X110	PRESET M16X25B
BT50 SRKIN 6X100	PRESET M5X18B
BT50 SRKIN 8X100	PRESET M6X20B
BT50 SRKIN 10X100	PRESET M8X20B
BT50 SRKIN 12X100	PRESET M10X18B
BT50 SRKIN 14X100	PRESET M10X18B
BT50 SRKIN 16X100	PRESET M12X18B
BT50 SRKIN 18X100	PRESET M12X18B
BT50 SRKIN 20X100	PRESET M16X20B
BT50 SRKIN 25X120	PRESET M16X25B
BT50 SRKIN 32X120	PRESET M16X25B

X-STREAM JET TOOLHOLDING

SHRINKIN BT MAS

BT-SRKIN-CX

Thermal Shrink Chucks with BT MAS-403 Form AD Tapered Shank and Coolant Jet Channels along the Shank Bore



Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	LSCWS	ADJRGA	THID	Key(1)	CRKS	kg
BT40 SRKIN 6X90 CX	40	6.00	21.00	27.00	90.00	63.00	38.00	34.0	9.50	M5	2.50	M16	1.13
BT40 SRKIN 8X90 CX	40	8.00	21.00	27.00	90.00	63.00	38.00	34.0	9.50	M6	3.00	M16	1.07
BT40 SRKIN 10X90 CX	40	10.00	24.00	32.00	90.00	63.00	50.80	39.8	9.30	M8	4.00	M16	1.23
BT40 SRKIN 12X90 CX	40	12.00	24.00	32.00	90.00	63.00	50.80	44.8	9.30	M10	5.00	M16	1.13
BT40 SRKIN 14X90 CX	40	14.00	27.00	34.00	90.00	63.00	44.50	44.8	9.30	M10	5.00	M16	1.26
BT40 SRKIN 16X90 CX	40	16.00	27.00	34.00	90.00	63.00	44.50	47.8	9.30	M12	6.00	M16	1.23
BT40 SRKIN 18X90 CX	40	18.00	33.00	42.00	90.00	63.00	57.00	47.8	9.30	M12	6.00	M16	1.40
BT40 SRKIN 20X90 CX	40	20.00	33.00	42.00	90.00	63.00	57.00	49.0	8.50	M16	8.00	M16	1.30
BT40 SRKIN 25X110 CX	40	25.00	44.00	53.00	110.00	83.00	57.00	55.0	8.50	M16	8.00	M16	1.84
BT50 SRKIN 6X100 CX	50	6.00	21.00	26.00	100.00	62.00	32.00	34.0	9.50	M5	2.50	M24	3.67
BT50 SRKIN 8X100 CX	50	8.00	21.00	27.00	100.00	62.00	38.00	34.0	9.50	M6	3.00	M24	3.78
BT50 SRKIN 10X100 CX	50	10.00	24.00	32.00	100.00	62.00	50.80	39.8	9.30	M8	4.00	M24	3.78
BT50 SRKIN 12X100 CX	50	12.00	24.00	32.00	100.00	62.00	50.80	44.8	9.30	M10	5.00	M24	3.74
BT50 SRKIN 14X100 CX	50	14.00	27.00	34.00	100.00	62.00	44.50	44.8	9.30	M10	5.00	M24	3.80
BT50 SRKIN 16X100 CX	50	16.00	27.00	34.00	100.00	62.00	44.50	47.8	9.30	M12	6.00	M24	3.70
BT50 SRKIN 18X100 CX	50	18.00	33.00	42.00	100.00	62.00	57.00	47.8	9.30	M12	6.00	M24	3.92
BT50 SRKIN 20X100 CX	50	20.00	33.00	42.00	100.00	62.00	57.00	49.0	8.50	M16	8.00	M24	3.77
BT50 SRKIN 25X120 CX	50	25.00	44.00	53.00	120.00	82.00	57.00	55.0	8.50	M16	8.00	M24	4.50
BT50 SRKIN 32X120 CX	50	32.00	44.00	53.00	120.00	82.00	57.00	59.0	8.50	M16	8.00	M24	4.35

• Use only inductive heating device for SRKIN holders • Preset screw CX allows supply of coolant via JET channels - do not remove

(1) Hex key size for the rear stopper screw

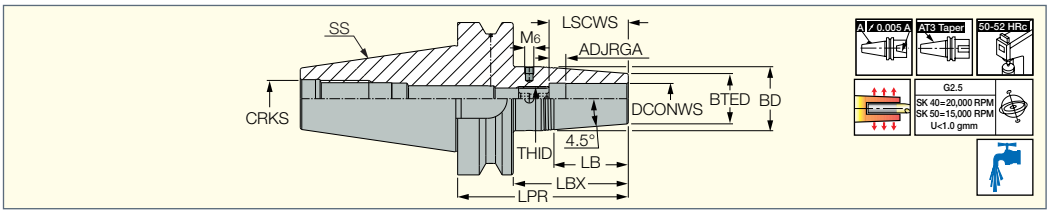
Spare Parts

Designation	
BT40 SRKIN 6X90 CX	PRESET CX M5X13
BT40 SRKIN 8X90 CX	PRESET CX M6X12
BT40 SRKIN 10X90 CX	PRESET CX M8X16
BT40 SRKIN 12X90 CX	PRESET CX M10X16
BT40 SRKIN 16X90 CX	PRESET CX M12X16
BT40 SRKIN 20X90 CX	PRESET CX M16X14
BT40 SRKIN 25X110 CX	PRESET CX M16X14
BT50 SRKIN 6X100 CX	PRESET CX M5X13
BT50 SRKIN 8X100 CX	PRESET CX M6X12
BT50 SRKIN 10X100 CX	PRESET CX M8X16
BT50 SRKIN 12X100 CX	PRESET CX M10X16
BT50 SRKIN 16X100 CX	PRESET CX M12X16
BT50 SRKIN 20X100 CX	PRESET CX M16X14
BT50 SRKIN 25X120 CX	PRESET CX M16X14
BT50 SRKIN 32X120 CX	PRESET CX M16X14

SHRINKIN BT MAS

BT-FC-SRKIN

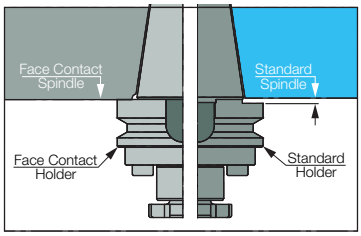
Thermal Shrink Chucks with
BT MAS-403 Face Contact
AD Tapered Shanks



Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	CRKS
BT40 FC SRKIN 6X90	40	6.00	21.00	27.00	90.00	64.0	38.00	11.00	36.0	M5	M16
BT40 FC SRKIN 8X90	40	8.00	21.00	27.00	90.00	64.0	38.00	11.00	36.0	M6	M16
BT40 FC SRKIN10X90	40	10.00	24.00	32.00	90.00	64.0	50.80	11.00	42.0	M8	M16
BT40 FC SRKIN12X90	40	12.00	24.00	32.00	90.00	64.0	50.80	11.00	47.0	M10	M16
BT40 FC SRKIN14X90	40	14.00	27.00	34.00	90.00	64.0	44.50	11.00	47.0	M10	M16
BT40 FC SRKIN16X90	40	16.00	27.00	34.00	90.00	64.0	44.50	11.00	50.0	M12	M16
BT40 FC SRKIN18X90	40	18.00	33.00	42.00	90.00	64.0	57.20	11.00	50.0	M12	M16
BT40 FC SRKIN20X90	40	20.00	33.00	42.00	90.00	64.0	57.20	11.00	52.0	M16	M16
BT40 FC SRKIN25X110	40	25.00	44.00	53.00	110.00	84.0	57.20	11.00	58.0	M16	M16
BT50 FC SRKIN 6X100	50	6.00	21.00	27.00	100.00	63.5	38.00	11.00	36.0	M6	M24
BT50 FC SRKIN 8X100	50	8.00	21.00	27.00	100.00	63.5	38.00	11.00	36.0	M5	M24
BT50 FC SRKIN10X100	50	10.00	24.00	32.00	100.00	63.5	50.80	11.00	42.0	M8	M24
BT50 FC SRKIN12X100	50	12.00	24.00	32.00	100.00	63.5	50.80	11.00	47.0	M10	M24
BT50 FC SRKIN14X100	50	14.00	27.00	34.00	100.00	63.5	44.50	11.00	47.0	M10	M24
BT50 FC SRKIN16X100	50	16.00	27.00	34.00	100.00	63.5	44.50	11.00	50.0	M12	M24
BT50 FC SRKIN18X100	50	18.00	33.00	42.00	100.00	63.5	57.20	11.00	50.0	M12	M24
BT50 FC SRKIN20X100	50	20.00	33.00	42.00	100.00	63.5	57.20	11.00	52.0	M16	M24
BT50 FC SRKIN25X120	50	25.00	44.00	53.00	120.00	83.5	57.20	11.00	58.0	M16	M24
BT50 FC SRKIN32X120	50	32.00	44.00	53.00	120.00	83.5	57.20	11.50	62.0	M16	M24

• Use only inductive heating device for SRKIN holders

BT-FC Face Contact Taper



1099-1100 1070-1072 1076-1077

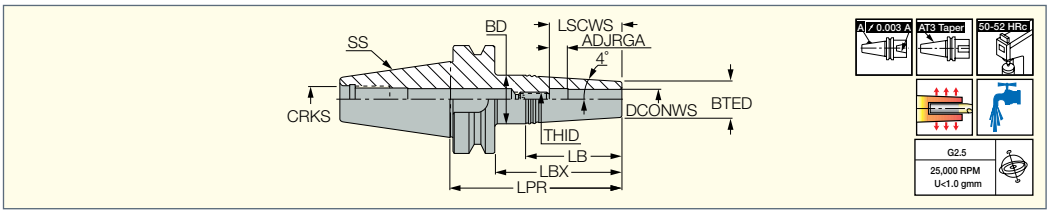
Spare Parts

Designation	
BT40 FC SRKIN 6X90	PRESET M5X18B
BT40 FC SRKIN 8X90	PRESET M6X20B
BT40 FC SRKIN10X90	PRESET M8X20B
BT40 FC SRKIN12X90	PRESET M10X18B
BT40 FC SRKIN14X90	PRESET M10X18B
BT40 FC SRKIN16X90	PRESET M12X18B
BT40 FC SRKIN18X90	PRESET M12X18B
BT40 FC SRKIN20X90	PRESET M16X20B
BT40 FC SRKIN25X110	PRESET M16X25B
BT50 FC SRKIN 6X100	PRESET M5X18B
BT50 FC SRKIN 8X100	PRESET M6X20B
BT50 FC SRKIN10X100	PRESET M8X20B
BT50 FC SRKIN12X100	PRESET M10X18B
BT50 FC SRKIN14X100	PRESET M10X18B
BT50 FC SRKIN16X100	PRESET M12X18B
BT50 FC SRKIN18X100	PRESET M12X18B
BT50 FC SRKIN20X100	PRESET M16X20B
BT50 FC SRKIN25X120	PRESET M16X25B
BT50 FC SRKIN32X120	PRESET M16X25B

BT MAS SHRINKIN

BT-SRK

Thermal Shrink Chucks
with BT MAS-403 Tapered
Shanks for Carbide Tools



Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Key(1)	CRKS	kg
BT30 SRK 3X50	30	3.00	10.00	15.00	72.00	50.0	36.30	10.00	20.0	M6	3.00	M12	0.43
BT30 SRK 4X50	30	4.00	10.00	15.00	72.00	50.0	36.30	10.00	22.0	M6	3.00	M12	0.43
BT30 SRK 5X50	30	5.00	10.00	15.00	72.00	50.0	36.30	10.00	25.0	M6	3.00	M12	0.42
BT30 SRK 6X50	30	6.00	11.00	16.00	72.00	50.0	36.60	10.00	28.0	M8	4.00	M12	0.43
BT30 SRK 8X50	30	8.00	14.00	20.00	72.00	50.0	43.30	10.00	35.0	M10	5.00	M12	0.45
BT30 SRK10X50	30	10.00	16.00	22.00	72.00	50.0	42.80	10.00	40.0	M8	4.00	M12	0.47
BT30 SRK12X50	30	12.00	20.00	26.00	72.00	50.0	42.70	10.00	42.0	M10	5.00	M12	0.51
BT40 SRK 3X50	40	3.00	10.00	15.00	77.00	50.0	35.55	6.00	16.0	M6	3.00	M16	1.00
BT40 SRK 3X85	40	3.00	10.00	19.00	112.00	85.0	64.15	6.00	16.0	M6	3.00	M16	1.00
BT40 SRK 4X50	40	4.00	10.00	15.00	77.00	50.0	35.55	6.00	18.0	M6	3.00	M16	0.98
BT40 SRK 4X85	40	4.00	10.00	19.00	112.00	85.0	64.15	6.00	18.0	M6	3.00	M16	1.06
BT40 SRK 5X50	40	5.00	10.00	15.00	77.00	50.0	35.55	6.00	21.0	M6	3.00	M16	1.00
BT40 SRK 5X85	40	5.00	10.00	19.00	112.00	85.0	64.15	6.00	21.0	M6	3.00	M16	1.00
BT40 SRK 6X50	40	6.00	11.00	16.00	77.00	50.0	35.50	6.00	24.0	M8	4.00	M16	0.98
BT40 SRK 6X85	40	6.00	11.00	20.00	112.00	85.0	64.15	6.00	24.0	M8	4.00	M16	1.00
BT40 SRK 8X50	40	8.00	14.00	20.00	77.00	50.0	42.50	6.00	31.0	M10	5.00	M16	1.00
BT40 SRK 8X85	40	8.00	14.00	23.00	112.00	85.0	63.95	6.00	31.0	M10	5.00	M16	1.15
BT40 SRK 10X50	40	10.00	16.00	22.00	77.00	50.0	42.40	6.00	36.0	M12	6.00	M16	1.04
BT40 SRK 10X85	40	10.00	16.00	24.50	112.00	85.0	60.28	6.00	36.0	M12	6.00	M16	1.12
BT40 SRK 12X50	40	12.00	20.00	26.00	77.00	50.0	42.30	10.00	42.0	M10	5.00	M16	1.06
BT40 SRK 12X85	40	12.00	20.00	28.00	112.00	85.0	56.60	10.00	42.0	M10	5.00	M16	1.22

• Preset screw without coolant hole.
(1) Hex key size for the rear stopper screw

1099-1100 1070-1072 1076-1077

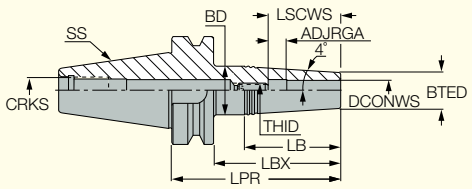
Spare Parts

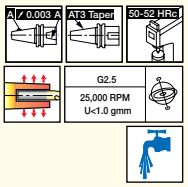
Designation		
BT30 SRK 3X50	SR M6X10 DIN916	
BT30 SRK 4X50	SR M6X10 DIN916	
BT30 SRK 5X50	SR M6X10 DIN916	
BT30 SRK 6X50	SR M8X12 DIN916	
BT30 SRK 8X50	SR M10X10 DIN913	
BT30 SRK10X50		PRESET M8X20B
BT30 SRK12X50		PRESET M10X18B
BT40 SRK 3X50	SR M6X10 DIN916	
BT40 SRK 3X85	SR M6X10 DIN916	
BT40 SRK 4X50	SR M6X10 DIN916	
BT40 SRK 4X85	SR M6X10 DIN916	
BT40 SRK 5X50	SR M6X10 DIN916	
BT40 SRK 5X85	SR M6X10 DIN916	
BT40 SRK 6X50	SR M8X12 DIN916	
BT40 SRK 6X85	SR M8X12 DIN916	
BT40 SRK 8X50	SR M10X10 DIN913	
BT40 SRK 8X85	SR M10X10 DIN913	
BT40 SRK 10X50	SR M12X10 DIN913	
BT40 SRK 10X85	SR M12X10 DIN913	
BT40 SRK 12X50	SR M10X18 DIN913	
BT40 SRK 12X85	SR M10X18 DIN913	

SHRINKIN BT MAS

BT-FC-SRK

Thermal Shrink Chucks with
BT MAS-403 Face Contact
AD Tapered Shanks



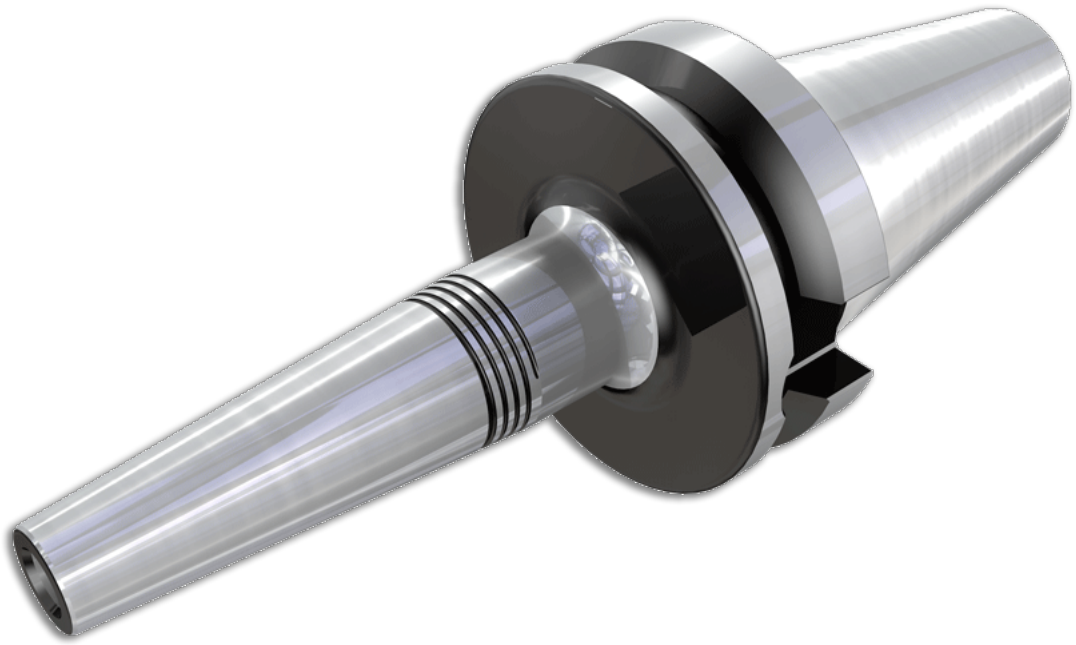


Designation	SS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	CRKS
BT30 FC SRK 3X50	30	3.00	9.93	15.00	72.00	50.0	36.30	0.00	10.0	M6	M12
BT30 FC SRK 4X50	30	4.00	9.93	15.00	72.00	50.0	36.30	0.00	12.0	M6	M12
BT30 FC SRK 5X50	30	5.00	9.93	15.00	72.00	50.0	36.30	0.00	15.0	M6	M12
BT30 FC SRK 6X50	30	6.00	10.88	16.00	72.00	50.0	36.60	0.00	18.0	M8	M12
BT30 FC SRK 8X50	30	8.00	13.95	20.00	72.00	50.0	43.30	0.00	25.0	M10	M12
BT30 FC SRK10X50	30	10.00	16.01	22.00	72.00	50.0	42.80	10.00	40.0	M8	M12
BT30 FC SRK12X50	30	12.00	20.03	26.00	72.00	50.0	42.70	10.00	42.0	M10	M12

• Use only inductive heating device for SRKIN holders

Spare Parts

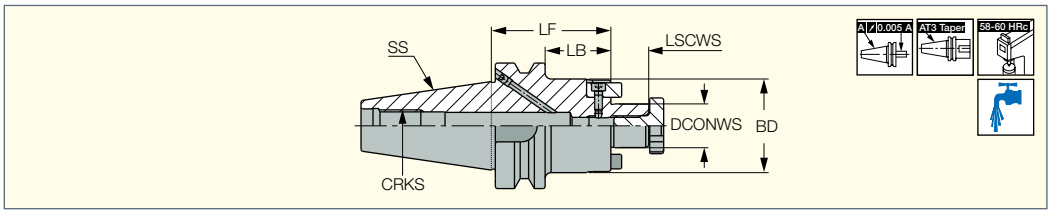
Designation		
BT30 FC SRK 3X50	SR M6X10 DIN916	
BT30 FC SRK 4X50	SR M6X10 DIN916	
BT30 FC SRK 5X50	SR M6X10 DIN916	
BT30 FC SRK 6X50	SR M8X12 DIN916	
BT30 FC SRK 8X50	SR M10X10 DIN913	
BT30 FC SRK10X50		PRESET M8X20B
BT30 FC SRK12X50		PRESET M10X18B



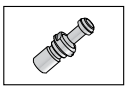
BT MAS

BT-SEM

ISO 3937 Shell Mill Holders
with BT MAS-403 ADB
Tapered Shanks



Designation	SS	DCONWS	LF	BD	LSCWS	LB	CRKS	kg
BT30 SEM 16X50	30	16.00	50.00	38.00	17.00	28.0	M12	0.62
BT30 SEM 22X50	30	22.00	50.00	47.00	19.00	28.0	M12	0.77
BT30 SEM 27X50	30	27.00	50.00	58.00	21.00	18.0	M12	0.88
BT40 SEM 16X120	40	16.00	120.00	38.00	17.00	93.0	M16	1.82
BT40 SEM 16X60	40	16.00	60.00	38.00	17.00	33.0	M16	1.29
BT40 SEM 22X120	40	22.00	120.00	47.00	19.00	93.0	M16	2.38
BT40 SEM 22X60	40	22.00	60.00	47.00	19.00	33.0	M16	1.45
BT40 SEM 27X105	40	27.00	105.00	58.00	21.00	78.0	M16	2.62
BT40 SEM 27X45	40	27.00	45.00	58.00	21.00	18.0	M16	1.39
BT40 SEM 32X60	40	32.00	60.00	65.50	24.00	23.0	M16	1.88
BT40 SEM 32X75	40	32.00	75.00	65.00	24.00	36.0	M16	2.26
BT40 SEM 40X60	40	40.00	60.00	82.00	27.00	23.0	M16	2.25
BT40 SEM 40X75	40	40.00	75.00	82.00	27.00	38.0	M16	3.10
BT50 SEM 16X120	50	16.00	120.00	38.00	17.00	82.0	M24	4.40
BT50 SEM 16X75	50	16.00	75.00	38.00	17.00	37.0	M24	3.86
BT50 SEM 22X120	50	22.00	120.00	47.00	19.00	82.0	M24	4.63
BT50 SEM 22X50X220	50	22.00	220.00	50.00	19.00	182.0	M24	6.52
BT50 SEM 22X64X320	50	22.00	320.00	64.00	19.00	282.0	M24	10.51
BT50 SEM 22X75	50	22.00	75.00	47.00	19.00	37.0	M24	4.10
BT50 SEM 27X105	50	27.00	105.00	58.00	21.00	67.0	M24	5.08
BT50 SEM 27X60	50	27.00	60.00	58.00	21.00	22.0	M24	4.15
BT50 SEM 32X48	50	32.00	48.00	66.00	24.00	10.0	M24	3.96
BT50 SEM 32X75	50	32.00	75.00	66.00	24.00	37.0	M24	4.65
BT50 SEM 40X48	50	40.00	48.00	82.00	27.00	10.0	M24	4.27
BT50 SEM 40X75	50	40.00	75.00	82.00	27.00	37.0	M24	5.33



1099-1100

Spare Parts

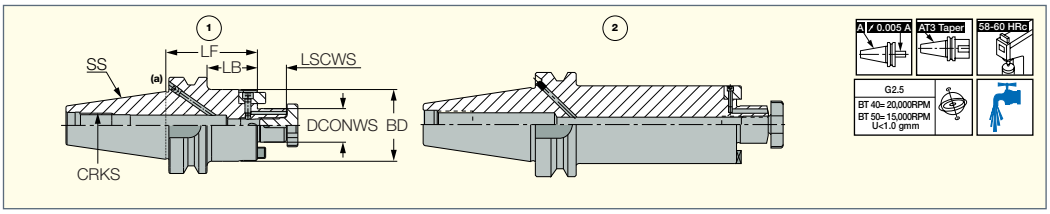
Designation					
BT30 SEM 16X50	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10 DIN912	
BT30 SEM 22X50	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10 DIN912	
BT30 SEM 27X50	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X14 DIN912	
BT40 SEM 16X120	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10 DIN912	SR M4X4 DIN913
BT40 SEM 16X60	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10 DIN912	SR M4X4 DIN913
BT40 SEM 22X120	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10 DIN912	SR M4X4 DIN913
BT40 SEM 22X60	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10 DIN912	SR M4X4 DIN913
BT40 SEM 27X105	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X14 DIN912	SR M4X4 DIN913
BT40 SEM 27X45	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X14 DIN912	SR M4X4 DIN913
BT40 SEM 32X60	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X13S	SR M5X14 DIN912	SR M4X4 DIN913
BT40 SEM 32X75	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X13S	SR M5X14 DIN912	SR M4X4 DIN913
BT40 SEM 40X60	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	DR.DOG 16X18S	SR M6X20 DIN912	SR M4X4 DIN913
BT40 SEM 40X75	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	DR.DOG 16X18S	SR M6X20 DIN912	SR M4X4 DIN913
BT50 SEM 16X120	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10 DIN912	SR M4X4 DIN913
BT50 SEM 16X75	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10 DIN912	SR M4X4 DIN913
BT50 SEM 22X120	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10 DIN912	SR M4X4 DIN913
BT50 SEM 22X50X220	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10 DIN912	SR M4X4 DIN913
BT50 SEM 22X64X320	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10 DIN912	SR M4X4 DIN913
BT50 SEM 22X75	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10 DIN912	SR M4X4 DIN913
BT50 SEM 27X105	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X14 DIN912	SR M4X4 DIN913
BT50 SEM 27X60	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X14 DIN912	SR M4X4 DIN913
BT50 SEM 32X48	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*		SR M5X14 DIN912	SR M4X4 DIN913
BT50 SEM 32X75	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X13S	SR M5X14 DIN912	SR M4X4 DIN913
BT50 SEM 40X48	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	DR. DOG 16 E	SR M5X16 DIN912	SR M4X4 DIN913
BT50 SEM 40X75	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	DR.DOG 16X18S	SR M6X20 DIN912	SR M4X4 DIN913

* Optional, should be ordered separately

BT MAS

BT-SEM-C

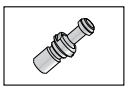
ISO 3937 Shell Mill Holders with Coolant Holes and BT MAS-403 ADB Tapered Shanks



Designation	SS	DCONWS	BD	LF	LSCWS	LB	CRKS	kg	Fig.
BT40 SEM 16X100C	40	16.00	38.00	100.00	17.00	73.0	M16	1.57	1.
BT40 SEM 16X60C	40	16.00	38.00	60.00	17.00	33.0	M16	1.21	1.
BT40 SEM 22X100C	40	22.00	47.00	100.00	19.00	73.0	M16	2.03	1.
BT40 SEM 22X60C	40	22.00	47.00	60.00	19.00	33.0	M16	1.10	1.
BT40 SEM 27X100C	40	27.00	58.00	100.00	21.00	73.0	M16	2.44	1.
BT40 SEM 27X45C	40	27.00	58.00	45.00	21.00	18.0	M16	1.32	1.
BT40 SEM 32X60C	40	32.00	66.00	60.00	24.00	33.0	M16	1.84	1.
BT50 SEM 16X100C	50	16.00	38.00	100.00	17.00	62.0	M24	4.00	1.
BT50 SEM 16X75C	50	16.00	38.00	75.00	17.00	37.0	M24	3.82	1.
BT50 SEM 22X100C	50	22.00	47.00	100.00	19.00	62.0	M24	4.30	1.
BT50 SEM 22X48X220C (1)	50	22.00	48.00	220.00	19.00	182.0	M24	5.98	2.
BT50 SEM 22X61X320C (1)	50	22.00	61.00	320.00	19.00	282.0	M24	9.91	2.
BT50 SEM 22X75C	50	22.00	47.00	75.00	19.00	37.0	M24	4.00	1.
BT50 SEM 27X100C	50	27.00	58.00	100.00	21.00	62.0	M24	4.72	1.
BT50 SEM 27X60C	50	27.00	58.00	60.00	21.00	22.0	M24	3.96	1.
BT50 SEM 27X61X320C (1)	50	27.00	61.00	320.00	21.00	282.0	M24	9.78	2.
BT50 SEM 32X100C	50	32.00	66.00	100.00	24.00	62.0	M24	5.04	1.
BT50 SEM 32X75C	50	32.00	66.00	75.00	24.00	37.0	M24	4.50	1.
BT50 SEM 32X78X390C (1)	50	32.00	78.00	390.00	24.00	352.0	M24	16.66	2.

• (a) For coolant through flange the plug screw must be removed from the flange cooling hole (use a 2 mm hex key)

(1) Symmetrical design. However, the family's balance values are not guaranteed for this tool



1099-1100

Spare Parts

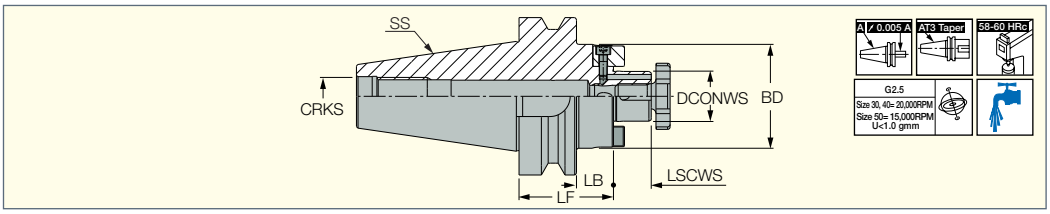
Designation					
BT40 SEM 16X100C	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10DIN912	SR M4X4 DIN913
BT40 SEM 16X60C	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10DIN912	SR M4X4 DIN913
BT40 SEM 22X100C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912	SR M4X4 DIN913
BT40 SEM 22X60C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912	SR M4X4 DIN913
BT40 SEM 27X100C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X14DIN912	SR M4X4 DIN913
BT40 SEM 27X45C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X14DIN912	SR M4X4 DIN913
BT40 SEM 32X60C	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X13S	SR M5X14DIN912	SR M4X4 DIN913
BT50 SEM 16X100C	M8 CLAMP SCREW SEM16		DR.DOG 8S	SR M3X10DIN912	SR M4X4 DIN913
BT50 SEM 16X75C	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	DR.DOG 8S	SR M3X10DIN912	SR M4X4 DIN913
BT50 SEM 22X100C	M10 CLAMP SCREW SEM22	WRENCH M8 SEMC16*	DR.DOG 10S	SR M4X10DIN912	SR M4X4 DIN913
BT50 SEM 22X48X220C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912	SR M4X4 DIN913
BT50 SEM 22X61X320C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912	SR M4X4 DIN913
BT50 SEM 22X75C	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	DR.DOG 10S	SR M4X10DIN912	SR M4X4 DIN913
BT50 SEM 27X100C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X14DIN912	SR M4X4 DIN913
BT50 SEM 27X60C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X14DIN912	SR M4X4 DIN913
BT50 SEM 27X61X320C	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	DR.DOG 12S	SR M5X12 DIN912	SR M4X4 DIN913
BT50 SEM 32X100C	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X13S	SR M5X14DIN912	SR M4X4 DIN913
BT50 SEM 32X75C	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X13S	SR M5X14DIN912	SR M4X4 DIN913
BT50 SEM 32X78X390C	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	DR.DOG 14X16S	SR M5X20DIN912	SR M4X4 DIN913

* Optional, should be ordered separately

BT MAS

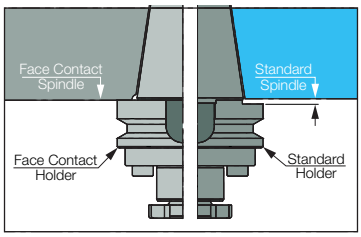
BT-FC-SEM-C

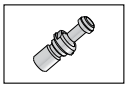
Shell-End Mill Holders with
Coolant Holes and BT MAS-403
Face Contact AD Tapered Shanks



Designation	SS	DCONWS	BD	LF	LB	LSCWS	CRKS
BT30 FC SEM16X50C	30	16.00	38.00	50.00	28.0	17.00	M12
BT30 FC SEM22X50C	30	22.00	47.00	50.00	28.0	19.00	M12
BT30 FC SEM27X50C	30	27.00	58.00	50.00	28.0	21.00	M12
BT40 FC SEM16X60C	40	16.00	38.00	60.00	34.0	17.00	M16
BT40 FC SEM22X60C	40	22.00	47.00	60.00	34.0	19.00	M16
BT40 FC SEM22X120C	40	22.00	47.00	120.00	94.0	19.00	M16
BT40 FC SEM27X45C	40	27.00	58.00	45.00	19.0	21.00	M16
BT40 FC SEM32X60C	40	32.00	66.00	60.00	34.0	24.00	M16
BT50 FC SEM16X75C	50	16.00	38.00	75.00	38.5	17.00	M24
BT50 FC SEM16X120C	50	16.00	38.00	120.00	83.5	17.00	M24
BT50 FC SEM22X75C	50	22.00	47.00	75.00	38.5	19.00	M24
BT50 FC SEM22X120C	50	22.00	47.00	120.00	83.5	19.00	M24
BT50 FC SEM27X60C	50	27.00	58.00	60.00	23.5	21.00	M24
BT50 FC SEM27X105C	50	27.00	58.00	105.00	68.5	21.00	M24
BT50 FC SEM32X60 C	50	32.00	66.00	60.00	11.5	24.00	M24
BT50 FC SEM40X60 C	50	40.00	82.00	60.00	11.5	27.00	M24

BT-FC Face Contact Taper





1099-1100

Spare Parts

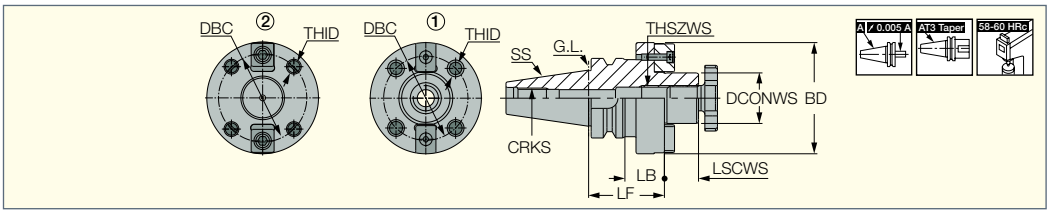
Designation				
BT30 FC SEM16X50C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*
BT30 FC SEM22X50C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*
BT30 FC SEM27X50C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X14DIN912	WRENCH M12 SEMC 27*
BT40 FC SEM16X60C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	
BT40 FC SEM22X60C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	
BT40 FC SEM22X120C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	
BT40 FC SEM27X45C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X14DIN912	
BT40 FC SEM32X60C	M16 CLAMP SCREW SEM32	DR.DOG 14X13S	SR M5X14DIN912	
BT50 FC SEM16X75C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*
BT50 FC SEM16X120C	M8 CLAMP SCREW SEM16	DR.DOG 8S	SR M3X10DIN912	WRENCH M8 SEMC16*
BT50 FC SEM22X75C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*
BT50 FC SEM22X120C	M10 CLAMP SCREW SEM22	DR.DOG 10S	SR M4X10DIN912	WRENCH M10 SEMC 22*
BT50 FC SEM27X60C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X14DIN912	WRENCH M12 SEMC 27*
BT50 FC SEM27X105C	M12 CLAMP SCREW SEM27	DR.DOG 12S	SR M5X14DIN912	WRENCH M12 SEMC 27*
BT50 FC SEM32X60 C	M16 CLAMP SCREW SEM32	DR.DOG 14X13S	SR M5X14DIN912	WRENCH M16 SEMC 32*
BT50 FC SEM40X60 C	M20 CLAMP SCREW SEM40	DR.DOG 16X18S	SR M6X20 DIN912	WRENCH M20 SEMC 40*

* Optional, should be ordered separately

BT MAS

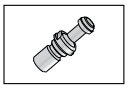
BT-FM

DIN 6357 Face Mill Holders with BT MAS-403 A/AD Tapered Shanks



Designation	SS	DCONWS	LSCWS	LF	LB	BD	DBC	THID	THSZWS	CRKS	Fig.	kg
BT40 FM 40X60 (1)	40	40.00	27.00	60.00	33.0	88.00	66.70	M12	M20	M16	1.	2.33
BT50 FM 40X50 (1)	50	40.00	27.00	50.00	12.0	88.00	66.70	M12	M20	M24	1.	4.19
BT50 FM 60X88 (2)	50	60.00	38.00	88.00	40.0	128.00	101.60	M16	-	M24	2.	8.60

• Peripheral clamping screws are not supplied.
(1) Form AD
(2) Form A


1099-1100

Spare Parts

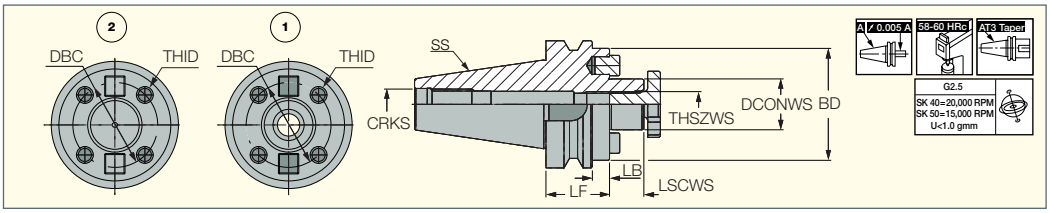
Designation		
BT40 FM 40X60	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*
BT50 FM 40X50	M20 CLAMP SCREW SEM40	

* Optional, should be ordered separately

BT MAS

BT-FC-FM

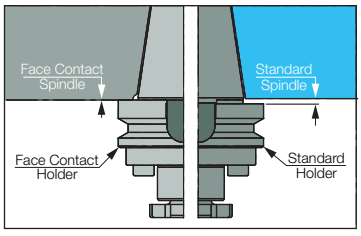
Face Mill Holders with BT MAS-403 Face Contact A/AD Tapered Shanks



Designation	SS	BD	DCONWS	DBC	LF	LSCWS	LB	CRKS	THSZWS	THID	💧	Fig.
BT40 FC FM40 (1)	40	88.00	40.00	66.70	60.00	27.00	23.0	M16	M20	M12	Y	1.
BT50 FC FM40 (1)	50	88.00	40.00	66.70	50.00	27.00	13.5	M24	M20	M12	Y	1.
BT50 FC FM60 (2)	50	128.00	60.00	101.60	88.00	40.00	41.5	M24	-	M16	N	2.

(1) Form AD
(2) Form A

BT-FC Face Contact Taper

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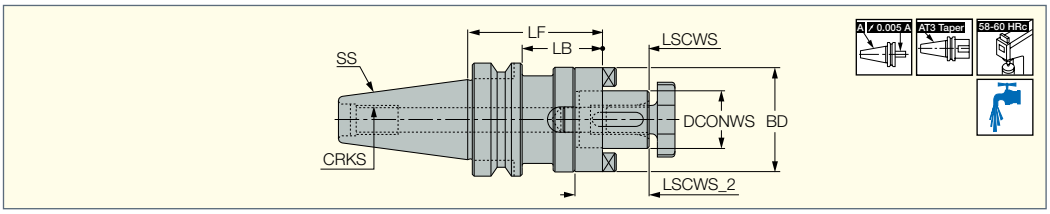
BT MAS

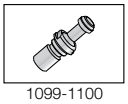
BT-SEMC

COMBI Shell Mill Holders with BT MAS-403 AD Tapered Shanks



Designation	SS	DCONWS	LSCWS	BD	LF	LB	LSCWS_2	CRKS	kg
BT40 SEMC 16X100	40	16.00	17.00	32.00	100.00	73.0	27.00	M16	1.42
BT40 SEMC 16X50	40	16.00	17.00	32.00	50.00	23.0	27.00	M16	1.09
BT40 SEMC 22X100	40	22.00	19.00	40.00	100.00	73.0	31.00	M16	1.68
BT40 SEMC 22X53	40	22.00	19.00	40.00	53.00	26.0	31.00	M16	1.18
BT40 SEMC 27X100	40	27.00	21.00	48.00	100.00	73.0	33.00	M16	2.02
BT40 SEMC 27X55	40	27.00	21.00	48.00	55.00	28.0	33.00	M16	1.29
BT40 SEMC 32X100	40	32.00	24.00	58.00	100.00	73.0	38.00	M16	2.26
BT40 SEMC 32X60	40	32.00	24.00	58.00	60.00	33.0	38.00	M16	1.51
BT40 SEMC 40X80	40	40.00	27.00	70.00	80.00	53.0	41.00	M16	2.29
BT50 SEMC 16X100	50	16.00	17.00	32.00	100.00	62.0	27.00	M24	3.86
BT50 SEMC 16X150	50	16.00	17.00	32.00	150.00	112.0	27.00	M24	4.30
BT50 SEMC 22X100	50	22.00	19.00	40.00	100.00	62.0	31.00	M24	4.14
BT50 SEMC 22X150	50	22.00	19.00	40.00	150.00	112.0	31.00	M24	5.23
BT50 SEMC 22X68	50	22.00	19.00	40.00	68.00	30.0	31.00	M24	2.80
BT50 SEMC 27X100	50	27.00	21.00	48.00	100.00	62.0	33.00	M24	4.32
BT50 SEMC 27X150	50	27.00	21.00	48.00	150.00	112.0	33.00	M24	5.48
BT50 SEMC 27X78	50	27.00	21.00	48.00	78.00	40.0	33.00	M24	3.97
BT50 SEMC 32X100	50	32.00	24.00	58.00	100.00	62.0	38.00	M24	4.60
BT50 SEMC 32X150	50	32.00	24.00	58.00	150.00	112.0	38.00	M24	5.82
BT50 SEMC 32X78	50	32.00	24.00	58.00	78.00	40.0	38.00	M24	4.50
BT50 SEMC 40X78	50	40.00	27.00	70.00	78.00	40.0	41.00	M24	4.62
BT50 SEMC 40X100	50	40.00	27.00	70.00	100.00	62.0	41.00	M24	5.06
BT50 SEMC 40X150	50	40.00	27.00	70.00	150.00	112.0	41.00	M24	6.46
BT50 SEMC 50X79	50	50.00	30.00	90.00	79.00	41.0	46.00	M24	6.40
BT50 SEMC 50X150	50	50.00	30.00	90.00	150.00	112.0	46.00	M24	8.41

• Axial driving key is not supplied.



1099-1100

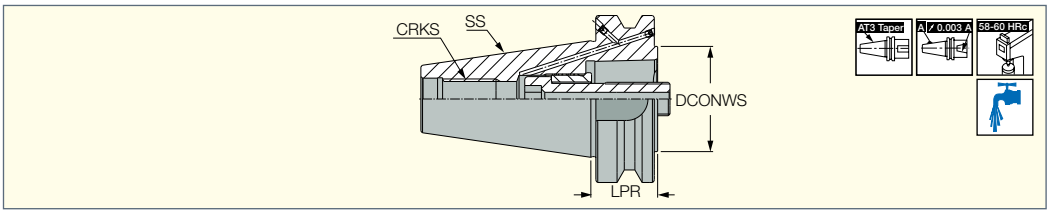
Spare Parts

Designation				
BT40 SEMC 16X100	KEY SEMC 16 4X4X20	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	16 D.RING SEMC
BT40 SEMC 16X50	KEY SEMC 16 4X4X20	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	16 D.RING SEMC
BT40 SEMC 22X100	KEY SEMC 22 6X6X25	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	22 D.RING SEMC
BT40 SEMC 22X53	KEY SEMC 22 6X6X25	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	22 D.RING SEMC
BT40 SEMC 27X100	KEY SEMC 27 7X7X25	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	27 D.RING SEMC
BT40 SEMC 27X55	KEY SEMC 27 7X7X25	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	27 D.RING SEMC
BT40 SEMC 32X100	KEY SEMC 32 8X7X28	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	32 D.RING SEMC
BT40 SEMC 32X60	KEY SEMC 32 8X7X28	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	32 D.RING SEMC
BT40 SEMC 40X80	KEY SEMC 40 10X8X32	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	40 D.RING SEMC
BT50 SEMC 16X100	KEY SEMC 16 4X4X20	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	16 D.RING SEMC
BT50 SEMC 16X150	KEY SEMC 16 4X4X20	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	16 D.RING SEMC
BT50 SEMC 22X100	KEY SEMC 22 6X6X25	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	22 D.RING SEMC
BT50 SEMC 22X150	KEY SEMC 22 6X6X25	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	22 D.RING SEMC
BT50 SEMC 22X68	KEY SEMC 22 6X6X25	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	22 D.RING SEMC
BT50 SEMC 27X100	KEY SEMC 27 7X7X25	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	27 D.RING SEMC
BT50 SEMC 27X150	KEY SEMC 27 7X7X25	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	27 D.RING SEMC
BT50 SEMC 27X78	KEY SEMC 27 7X7X25	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	27 D.RING SEMC
BT50 SEMC 32X100	KEY SEMC 32 8X7X28	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	32 D.RING SEMC
BT50 SEMC 32X150	KEY SEMC 32 8X7X28	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	32 D.RING SEMC
BT50 SEMC 32X78	KEY SEMC 32 8X7X28	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	32 D.RING SEMC
BT50 SEMC 40X78	KEY SEMC 40 10X8X32	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	40 D.RING SEMC
BT50 SEMC 40X100	KEY SEMC 40 10X8X32	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	40 D.RING SEMC
BT50 SEMC 40X150	KEY SEMC 40 10X8X32	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	40 D.RING SEMC
BT50 SEMC 50X79	KEY SEMC 50 12X8X36	M24 CLAMP SCREW SEM50	WRENCH M24 SEMC 50*	50 D.RING SEMC
BT50 SEMC 50X150	KEY SEMC 50 12X8X36	M24 CLAMP SCREW SEM50	WRENCH M24 SEMC 50*	50 D.RING SEMC

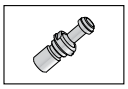
* Optional, should be ordered separately

BT MAS CAMFIX

BT-C#
CAMFIX (ISO 26623-1)
Holders with BT MAS-403
AD/ADB Tapered Shanks



Designation	SS	DCONWS	LPR	CRKS	kg
C4 AD BT40X030 ADB	40	40.00	30.00	M16	1.00
C5 AD BT40X30	40	50.00	30.00	M16	1.00
C5 AD BT50X40 ADB	50	50.00	40.00	M24	3.46
C6 AD BT50X40	50	63.00	40.00	M24	3.44
C8 AD BT50X70 ADB	50	80.00	70.00	M24	4.05


1099-1100

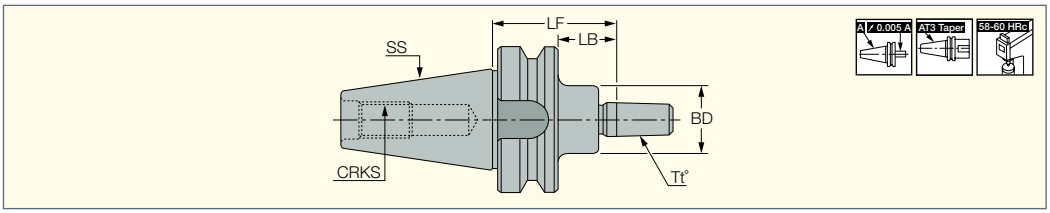
Spare Parts

Designation								
C4 AD BT40X030 ADB	SR M14X58 C4	HW 8.0*	MT RING M22X17XC4			WRENCH C4 DRW NUT*		
C5 AD BT40X30	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5			WRENCH C5 DRW NUT*	COOLING TUBE C5*	WRENCH COOL TUBE C5*
C5 AD BT50X40 ADB	SR M16X70 C5	HW 10.0*	MT RING M25X20XC5	SR M4X4 DIN913	HW 2.0*	WRENCH C5 DRW NUT*		
C6 AD BT50X40	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8			WRENCH C6-8 DRW NUT*		
C8 AD BT50X70 ADB	SR M20X87 C6/8	HW 14.0*	MT RING M30X24XC6/8	SR M4X4 DIN913	HW 2.0*	WRENCH C6-8 DRW NUT*		

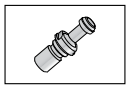
* Optional, should be ordered separately

BT MAS

BT-DC-B
DIN 238 Drill Chuck Arbors with
BT MAS-403 A Tapered Shanks



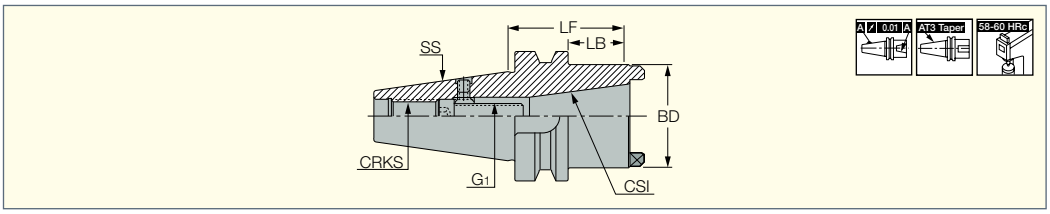
Designation	SS	Tt°	LF	BD	LB	CRKS	kg
BT30 DC B12X 30	30	B12	30.00	-	8.0	M12	0.42
BT30 DC B16X 30	30	B16	30.00	-	8.0	M12	0.44
BT40 DC B12X 45	40	B12	45.00	24.00	18.0	M16	1.04
BT40 DC B12X 90	40	B12	90.00	24.00	63.0	M16	1.22
BT40 DC B16X 45	40	B16	45.00	30.00	18.0	M16	1.09
BT40 DC B16X 90	40	B16	90.00	30.00	63.0	M16	1.34
BT40 DC B18X 90	40	B18	90.00	30.00	63.0	M16	1.38
BT50 DC B12X 45	50	B12	45.00	-	6.7	M24	3.67
BT50 DC B16X 45	50	B16	45.00	-	7.0	M24	3.72
BT50 DC B16X105	50	B16	105.00	50.00	67.0	M24	4.64
BT50 DC B18X 45	50	B18	45.00	-	7.0	M24	3.73
BT50 DC B18X105	50	B18	105.00	30.00	67.0	M24	4.08


1099-1100

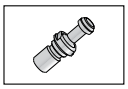
BT MAS

BT-AD

DIN 2080 DIN 69871/A and
BT MAS-403 Adapters with BT
MAS-403 A Tapered Shanks



Designation	SS	CSI	LF	LB	BD	G_1	CRKS	kg
BT50 AD 40	50	DIN2080	75.00	32.0	63.00	M16	M24	3.85
BT50 AD BT/SK40	50	DIN69871/A, BT MAS	75.00	37.0	66.00	M16	M24	4.05



1099-1100

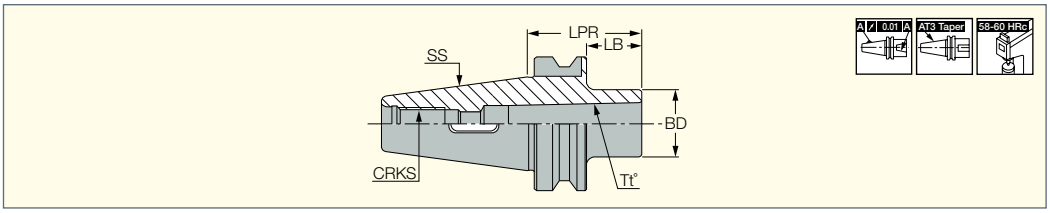
Spare Parts

Designation			
BT50 AD 40	SR M6X10 DIN914	HW M16X35 20.9 DIN7984	MT RING M24X12X14
BT50 AD BT/SK40	SR M6X10 DIN914	HW M16X60 20.9 DIN7984	MT RING M24X12X14

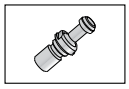
BT MAS

BT-MT

DIN 6383 / DIN 228-2 Form D
Tang Morse Tapered Adapters with
BT MAS-403 A Tapered Shanks



Designation	SS	Tt°	LPR	LB	BD	CRKS	kg
BT30 MT1X 45	30	MT1	45.00	23.0	25.00	M12	0.43
BT30 MT2X 60	30	MT2	60.00	38.0	32.00	M12	0.51
BT40 MT1X 45	40	MT1	45.00	18.0	25.00	M16	1.00
BT40 MT1X120	40	MT1	120.00	93.0	25.00	M16	1.28
BT40 MT2X 60	40	MT2	60.00	33.0	32.00	M16	0.50
BT40 MT2X120	40	MT2	120.00	93.0	32.00	M16	1.43
BT40 MT3X 75	40	MT3	75.00	48.0	40.00	M16	1.15
BT40 MT3X139	40	MT3	139.00	112.0	40.00	M16	1.78
BT40 MT4X 95	40	MT4	95.00	68.0	50.00	M16	1.44
BT50 MT1X 45	50	MT1	45.00	7.0	25.00	M24	3.59
BT50 MT1X120	50	MT1	120.00	82.0	25.00	M24	3.94
BT50 MT1X180	50	MT1	180.00	142.0	25.00	M24	4.18
BT50 MT2X 45	50	MT2	45.00	7.0	32.00	M24	3.50
BT50 MT2X135	50	MT2	135.00	97.0	32.00	M24	4.14
BT50 MT2X180	50	MT2	180.00	142.0	32.00	M24	4.40
BT50 MT3X 45	50	MT3	45.00	7.0	40.00	M24	3.49
BT50 MT3X150	50	MT3	150.00	112.0	40.00	M24	4.46
BT50 MT3X180	50	MT3	180.00	142.0	40.00	M24	4.79
BT50 MT4X 75	50	MT4	75.00	37.0	50.00	M24	3.64
BT50 MT4X180	50	MT4	180.00	142.0	50.00	M24	5.20
BT50 MT5X105	50	MT5	105.00	67.0	70.00	M24	4.17

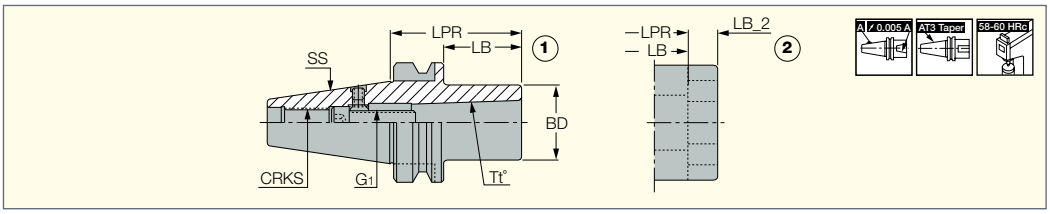


1099-1100

BT MAS

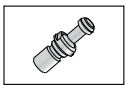
BT-MT-DRW

DIN 6364 / DIN 228-2 Form B Draw Bar Morse Tapered Adapters with BT MAS-403 A Tapered Shanks



Designation	SS	Tt°	LPR	LB	LB_2	BD	G1	CRKS	Fig.	kg
BT40 MT1 DRW	40	MT1	50.00	23.0	-	25.00	M6	M16	1.	1.04
BT40 MT2 DRW	40	MT2	50.00	23.0	-	32.00	M10	M16	1.	1.04
BT40 MT3 DRW	40	MT3	70.00	43.0	-	40.00	M12	M16	1.	1.16
BT40 MT4 DRW (1)	40	MT4	95.00	68.0	15.00	63.00	M16	M16	2.	2.27
BT50 MT1 DRW	50	MT1	45.00	7.0	-	25.00	M6	M24	1.	3.64
BT50 MT2 DRW	50	MT2	60.00	22.0	-	32.00	M10	M24	1.	3.82
BT50 MT3 DRW	50	MT3	65.00	27.0	-	40.00	M12	M24	1.	3.67
BT50 MT4 DRW (1)	50	MT4	70.00	32.0	15.00	63.00	M16	M24	2.	4.33
BT50 MT5 DRW (1)	50	MT5	100.00	62.0	18.00	78.00	M20	M24	2.	4.81

(1) DIN 2201



1099-1100

Spare Parts

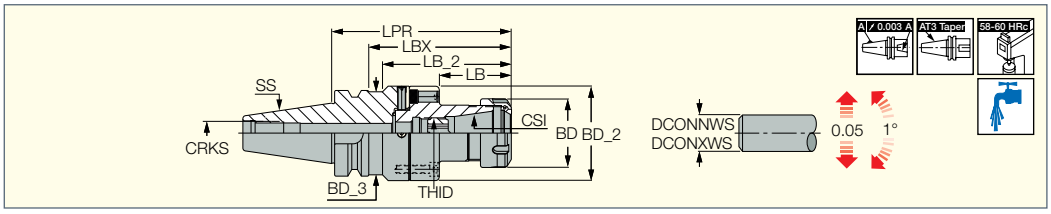
Designation					
BT40 MT1 DRW	SR M6X20 DIN912	HW 5.0*	MT RING M16X10X6.5		
BT40 MT2 DRW	HW M10X25 13.8 DIN7984	HW 3.0*	MT RING M16X8X8.5	SR M6X6DIN914	HW 8.0*
BT40 MT3 DRW	SR M12X35DIN7984	HW 3.0*	MT RING M20X10X12.5	SR M6X6DIN914	HW 8.0*
BT40 MT4 DRW	HW M16X40 20.9 DIN7984	HW 3.0*	MT RING M24X1.5X7X16.5	SR M6X6DIN914	HW 14.0*
BT50 MT1 DRW	SR M6X20 DIN912	HW 5.0*	MT RING M24X14X6.5		
BT50 MT2 DRW	SR M10X25 DIN912	HW 3.0*	MT RING M24X18X10	SR M6X10 DIN914	HW 8.0*
BT50 MT3 DRW	SR M12X35DIN912	HW 3.0*	MT RING M24X16X12	SR M6X10 DIN914	HW 10.0*
BT50 MT4 DRW	HW M16X35 20.9 DIN7984	HW 3.0*	MT RING M24X7X16.5	SR M6X10 DIN914	HW 14.0*
BT50 MT5 DRW	SR M20X55DIN7984	HW 3.0*	MT RING M33X13X20.5	SR M6X10 DIN914	HW 14.0*

* Optional, should be ordered separately

BT MAS FINEFIT

ADJ BT-ER

DIN 6499 ER Collet Chucks with Center Alignment and BT MAS-403 ADB Tapered Shanks

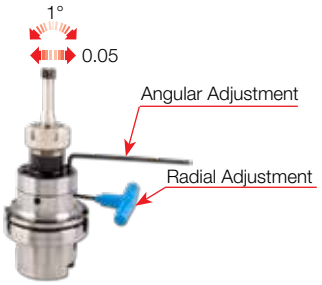


Designation	SS	CSI	DCONNWS(1)	DCONXWS(2)	LPR	LBX	LB_2	LB	BD	BD_2	BD_3	THID	CRKS	kg
ADJ BT40 D70 ER32	40	ER32	2.0	20.0	129.50	102.5	92.50	52.50	50.00	70.00	62.50	M22X1.5	M16	2.56
ADJ BT50 D70 ER32	50	ER32	2.0	20.0	144.50	106.5	106.50	52.50	50.00	70.00	70.00	M22X1.5	M24	5.90

• Radial adjustment 0.05 mm, Angular adjustment 1° • Add B to the designation for coolant through flange option.

(1) Minimum diameter

(2) Maximum diameter



1099-1100 | 1102 | 1065-1069 | 932, 1063-1065

Spare Parts

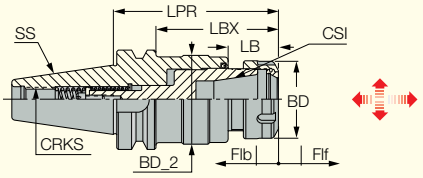
Designation						
ADJ BT-ER	NUT ER32 TOP*	ADJUST SPACER 9.5X5	PRESET ER-JET 22X1.5	SR M8X1X16 DIN916	SR M6X30 DIN912	ADJ ER32 NOSE

* Optional, should be ordered separately

BT MAS GTI

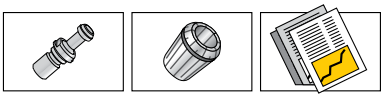
GTI BT-ER (tapping)

DIN 6499 ER Tapping
Attachments with BT MAS-403 A
Tapered Shanks



Designation	SS	CSI	Tap min	Tap max	DCONNWS(1)	DCONXWS(2)	LPR	LBX	LB	BD	BD_2	Flf	Flb	CRKS	kg
GTI BT40 ER16	40	ER16	M3	M10	0.5	10.0	84.20	52.7	24.60	28.00	29.50	8.0	3.0	M16	1.17
GTI BT40 ER32	40	ER32	M6	M20	2.0	20.0	106.80	79.8	33.00	50.00	56.50	9.0	4.0	M16	2.52
GTI BT40 ER40	40	ER40	M6	M28	3.0	26.0	124.80	97.8	51.00	63.00	56.50	9.0	4.0	M16	2.24
GTI BT50 ER16	50	ER16	M3	M10	0.5	10.0	106.80	68.8	24.60	28.00	29.50	8.0	3.0	M24	3.85
GTI BT50 ER32	50	ER32	M6	M20	2.0	20.0	114.20	77.2	33.00	50.00	56.50	9.0	4.0	M24	2.28
GTI BT50 ER40	50	ER40	M6	M28	3.0	26.0	133.20	95.2	51.00	63.00	56.50	9.0	4.0	M24	2.28

(1) Minimum diameter
(2) Maximum diameter



1099-1100 | 1065-1069 | 1059, 1063-1065

Spare Parts

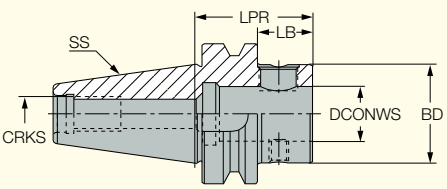
Designation		
GTI BT40 ER16	NUT ER16 TOP	WRENCH ER16*
GTI BT40 ER32	NUT ER32 TOP	WRENCH ER32*
GTI BT40 ER40	NUT ER40 TOP	WRENCH ER40*
GTI BT50 ER16	NUT ER16 TOP	WRENCH ER16*
GTI BT50 ER32	NUT ER32 TOP	WRENCH ER32*
GTI BT50 ER40	NUT ER40 TOP	WRENCH ER40*

* Optional, should be ordered separately

BT MAS CLICKFIT

BT-CF (CLICKFIT)

Modular System Connections with
BT MAS-403 AD Tapered Shanks



Designation	SS	DCONWS	LPR	LB	BD	CRKS	kg
BT40 CF4-L	40	25.00	110.00	83.0	44.50	M16	1.74
BT40 CF4-S	40	25.00	52.00	25.0	44.50	M16	1.08
BT50 CF4-L	50	25.00	115.00	77.0	44.50	M24	1.20
BT50 CF4-S	50	25.00	63.00	25.0	44.50	M24	3.71

• Tightening torque: 6 Kgxm

1099-1100 | 928 | 1046

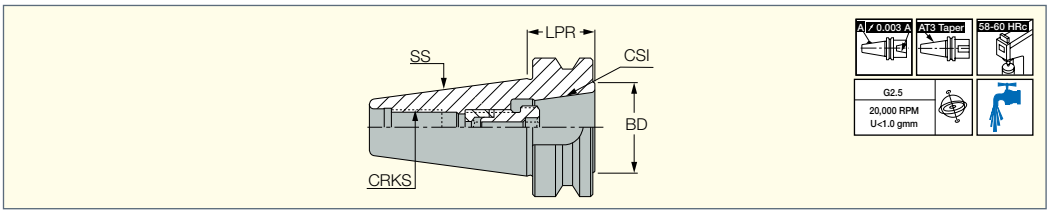
Spare Parts

Designation		
BT-CF (CLICKFIT)	SCREW M16X1.5 FOR CF4	WRENCH HW 8 200X36 DIN911

BT MAS CLICKIN

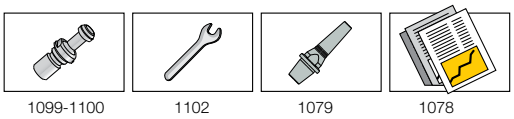
BT-ER-CLICKIN

BT MAS 403 AD Tapered Shanks to CLICKIN Quick Change Connection Adapters



Designation	SS	CSI	LPR	BD	CRKS	kg
BT40 ER32 CLICK-IN	40	32 SRF	28.00	41.00	M16	0.83
BT50 ER32 CLICK-IN	50	32 SRF	39.00	41.00	M24	3.46

• Tightening torque: 24 Kgxm



1099-1100 | 1102 | 1079 | 1078

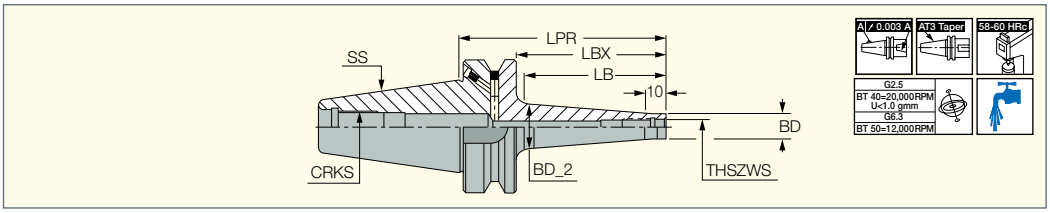
Spare Parts

Designation				
BT40 ER32 CLICK-IN	SR M16-M19.5 CLICK-IN	SR M16X10CLICK-IN	PIN 3X4MM	SR M4X4 DIN913
BT50 ER32 CLICK-IN	SR M16-M19.5 CLICK-IN	SR M16X10CLICK-IN	PIN 3X4MM	SR M4X10 DIN913

BT MAS FLEXFIT

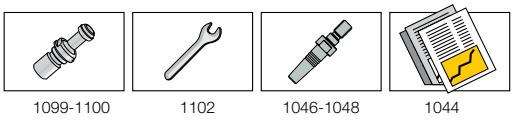
BT-ODP (FLEXFIT)

FLEXFIT Threaded Adaptation with Integral BT MAS-403 Tapered Shanks (ADB type)



Designation	SS	THSZWS	BD	BD_2	LPR	LBX	LB	CRKS	kg
BT40 ODP 6X 66	40	M06	9.80	13.00	66.00	39.0	30.00	M16	0.98
BT40 ODP 6X106	40	M06	9.80	23.00	106.00	79.0	70.00	M16	0.14
BT40 ODP 8X 66	40	M08	13.00	15.00	66.00	30.0	30.00	M16	0.99
BT40 ODP 8X106	40	M08	13.00	23.00	106.00	79.0	70.00	M16	1.09
BT40 ODP10X 66	40	M10	18.00	20.00	66.00	30.0	30.00	M16	1.03
BT40 ODP10X106	40	M10	18.00	28.00	106.00	79.0	70.00	M16	1.24
BT40 ODP12X 66	40	M12	21.00	24.00	66.00	39.0	30.00	M16	1.05
BT40 ODP12X106	40	M12	21.00	31.00	106.00	79.0	70.00	M16	1.23
BT40 ODP16X 66	40	M16	29.00	28.60	66.00	39.0	35.00	M16	1.06
BT40 ODP16X106	40	M16	29.00	34.00	106.00	79.0	70.00	M16	1.32
BT50 ODP 12X 94	50	M12	23.00	30.00	94.00	56.0	50.00	M24	3.85
BT50 ODP 12X144	50	M12	23.00	40.00	144.00	106.0	100.00	M24	4.25
BT50 ODP 12X194	50	M12	23.00	40.00	194.00	156.0	150.00	M24	4.57
BT50 ODP 12X244	50	M12	23.00	46.00	244.00	206.0	200.00	M24	5.12
BT50 ODP 16X 94	50	M16	29.00	34.00	94.00	56.0	50.00	M24	3.75
BT50 ODP 16X144	50	M16	29.00	40.00	144.00	106.0	100.00	M24	4.19
BT50 ODP 16X194	50	M16	29.00	55.00	194.00	156.0	150.00	M24	5.24
BT50 ODP 16X244	50	M16	29.00	60.00	244.00	206.0	200.00	M24	5.60

• The coolant passages in the B-type flange are blocked with screws which can be removed when required.

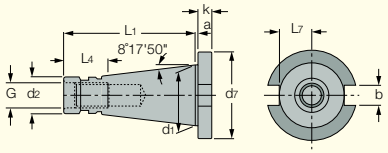


1099-1100 | 1102 | 1046-1048 | 1044

DIN2080 • MORSE TAPER

DIN2080

DIN2080-ER



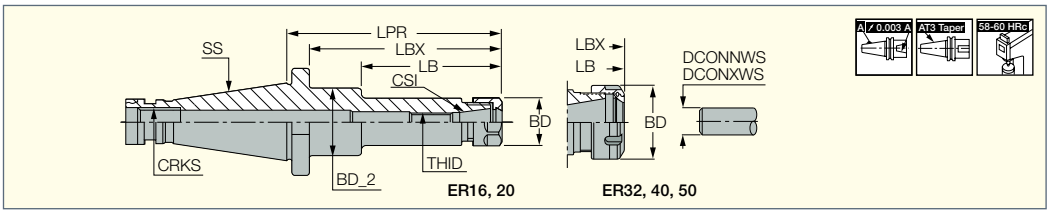
Shank	$a^{\pm 0.2}$	b (H12)	d_1	d_2	G	d_7	$K^{\pm 0.15}$
SK 30	1.6	16.1	31.75	17.4	M12	50	8
SK 40	1.6	16.1	44.45	25.3	M16	63	10
SK 50	3.2	25.7	69.85	39.6	M24	97.5	12

Shank	L_1	L_4	L_7 MAX	Taper AT_3
SK 30	68.4	24	16.2	0.002
SK 40	93.4	32	22.5	0.003
SK 50	126.8	47	35.3	0.004

DIN2080

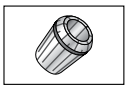
DIN2080-ER

DIN 6499 ER Collet Chucks with
DIN 2080 AD Tapered Shanks



Designation	SS	CSI	DCONNWS(1)	DCONXWS(2)	LPR	LBX	LB	BD	BD_2	THID	CRKS	kg
DIN2080 30 ER16X 75	30	ER16	0.5	10.0	75.00	65.4	-	28.00	-	M10	M12	0.48
DIN2080 30 ER32X 55	30	ER32	2.0	20.0	55.00	45.4	-	50.00	-	M18X1.5	M12	0.36
DIN2080 30 ER40X 83	30	ER40	3.0	26.0	83.00	69.4	-	63.00	-	M22X1.5	M12	0.79
DIN2080 40 ER16X 63	40	ER16	0.5	10.0	63.00	51.4	-	28.00	-	M12	M16	0.85
DIN2080 40 ER16X100	40	ER16	0.5	10.0	100.00	88.4	-	28.00	-	M12	M16	0.99
DIN2080 40 ER20X 63	40	ER20	1.0	13.0	63.00	51.4	-	34.00	-	M12	M16	0.90
DIN2080 40 ER20X100	40	ER20	1.0	13.0	100.00	88.4	-	34.00	-	M12	M16	1.12
DIN2080 40 ER25X 50	40	ER25	1.0	16.0	50.00	38.4	-	42.00	-	M16X1.5	M16	0.82
DIN2080 40 ER25X 90	40	ER25	1.0	16.0	90.00	78.4	-	42.00	-	M16X1.5	M16	1.21
DIN2080 40 ER32X 50	40	ER32	2.0	20.0	50.00	38.4	-	50.00	-	M22X1.5	M16	0.73
DIN2080 40 ER40X 55	40	ER40	3.0	26.0	55.00	43.4	-	63.00	-	M22X1.5	M16	0.80
DIN2080 40 ER50X 80	40	ER50	10.0	34.0	80.00	68.4	-	78.00	-	M22X1.5	M24	1.20
DIN2080 50 ER16X100	50	ER16	0.5	10.0	100.00	84.8	-	28.00	-	M12	M24	2.80
DIN2080 50 ER16X160	50	ER16	0.5	10.0	160.00	144.8	95.00	28.00	40.00	M12	M24	3.28
DIN2080 50 ER20X100	50	ER20	1.0	13.0	100.00	84.8	-	34.00	-	M16	M24	2.89
DIN2080 50 ER20X160	50	ER20	1.0	13.0	160.00	144.8	-	34.00	-	M12	M24	3.30
DIN2080 50 ER40X 58	50	ER40	3.0	26.0	58.00	42.8	-	63.00	-	M28X1.5	M24	2.51
DIN2080 50 ER50X 63	50	ER50	10.0	34.0	63.00	47.8	-	78.00	-	M36X1.5	M24	2.40

(1) Minimum diameter
(2) Maximum diameter



1065-1069

Spare Parts

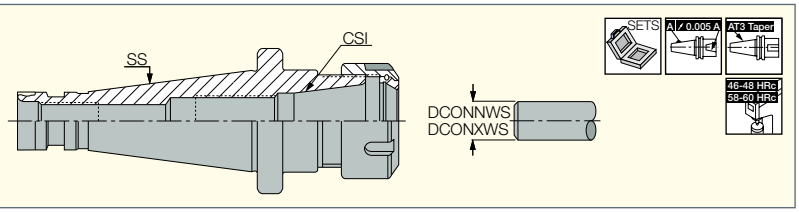
Designation				
DIN2080 30 ER16X 75	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 10X1.5*	
DIN2080 30 ER32X 55	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 18X1.5*	PRESET ER-JET 18X1.5L*
DIN2080 30 ER40X 83	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN2080 40 ER16X 63	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN2080 40 ER16X100	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN2080 40 ER20X 63	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN2080 40 ER20X100	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN2080 40 ER25X 50		WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
DIN2080 40 ER32X 50	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN2080 40 ER40X 55	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN2080 40 ER50X 80	NUT ER50 UM	WRENCH ER50*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
DIN2080 50 ER16X100	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN2080 50 ER16X160	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN2080 50 ER20X100	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
DIN2080 50 ER20X160	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
DIN2080 50 ER40X 58	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	
DIN2080 50 ER50X 63	NUT ER50 UM	WRENCH ER50*		

* Optional, should be ordered separately

DIN2080

KIT DIN2080-ER

Contains 1 DIN 2080 Taper Shank with ER Collet Chuck and a Set of ER Spring Collets



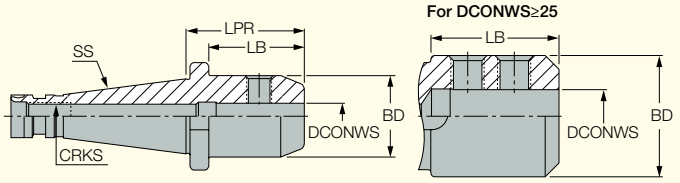
Designation	SS	CSI	DCONNWS	DCONXWS	kg
KIT DIN2080 30 18 ER32	30	ER32	2.00	20	4.17
KIT DIN2080 40 18 ER32	40	ER32	2.00	20	0.00
KIT DIN2080 40 23 ER40	40	ER40	3.00	26	0.01
KIT DIN2080 50 23 ER40	50	ER40	3.00	26	10.00

• Each kit contains one collet chuck, a full set of ER collets and a wrench.

DIN2080

DIN2080-EM

DIN 6359/DIN 1835 Form B Endmill Weldon Holders with DIN 2080 AD Tapered Shanks

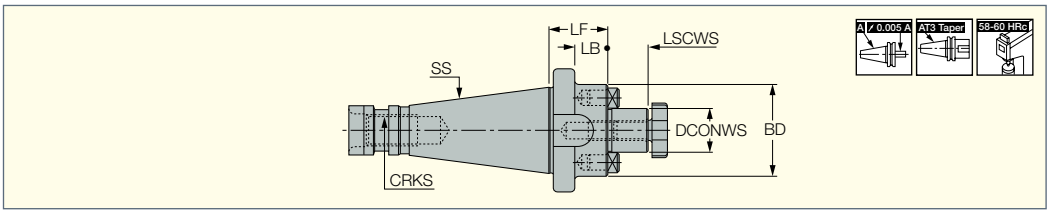


Designation	SS	DCONWS	BD	LPR	LB	CRKS	kg	
DIN2080 30 EM 6X 40	30	6.00	25.00	40.00	30.4	M12	0.39	SR M6X10 DIN1835B
DIN2080 30 EM 8X 40	30	8.00	28.00	40.00	30.4	M12	0.41	SR M8X10 DIN1835-B
DIN2080 30 EM10X 40	30	10.00	35.00	40.00	30.4	M12	0.47	SR M10X12 DIN1835-B
DIN2080 30 EM20X 63	30	20.00	52.00	63.00	53.4	M12	0.96	SR M16X16 DIN1835-B
DIN2080 40 EM 6X 50	40	6.00	25.00	50.00	38.4	M16	0.84	SR M6X10 DIN1835B
DIN2080 40 EM 8X 50	40	8.00	28.00	50.00	38.4	M16	0.87	SR M8X10 DIN1835-B
DIN2080 40 EM10X 50	40	10.00	35.00	50.00	38.4	M16	0.95	SR M10X12 DIN1835-B
DIN2080 40 EM12X 50	40	12.00	42.00	50.00	38.4	M16	1.05	SR M12X16 DIN1835-B
DIN2080 40 EM16X 63	40	16.00	48.00	63.00	51.4	M16	1.30	SR M14X16 DIN1835-B
DIN2080 40 EM20X 63	40	20.00	52.00	63.00	51.4	M16	1.42	SR M16X16 DIN1835-B
DIN2080 40 EM25X 80	40	25.00	65.00	80.00	68.4	M16	2.06	SR M18X2X20 DIN1835-B
DIN2080 40 EM32X 80	40	32.00	72.00	80.00	68.4	M16	2.24	SR M20X2X20 DIN1835-B
DIN2080 50 EM 6X 63	50	6.00	25.00	63.00	47.8	M24	2.69	SR M6X10 DIN1835B
DIN2080 50 EM 8X 63	50	8.00	28.00	63.00	47.8	M24	2.75	SR M8X10 DIN1835-B
DIN2080 50 EM10X 63	50	10.00	35.00	63.00	47.8	M24	2.79	SR M10X12 DIN1835-B
DIN2080 50 EM12X 63	50	12.00	42.00	63.00	47.8	M24	2.95	SR M12X16 DIN1835-B
DIN2080 50 EM16X 63	50	16.00	48.00	63.00	47.8	M24	3.03	SR M14X16 DIN1835-B
DIN2080 50 EM20X 63	50	20.00	52.00	63.00	47.8	M24	3.12	SR M16X16 DIN1835-B
DIN2080 50 EM25X 80	50	25.00	65.00	80.00	64.8	M24	3.78	SR M18X2X20 DIN1835-B
DIN2080 50 EM32X 80	50	32.00	72.00	80.00	64.8	M24	4.00	SR M20X2X20 DIN1835-B
DIN2080 50 EM40X 90	50	40.00	90.00	90.00	74.8	M24	5.08	SR M20X2X20 DIN1835-B
DIN2080 50 EM50X100	50	50.00	100.00	100.00	84.8	M24	5.94	SR M24X2X25 DIN1835-B

DIN2080

DIN2080-SEM

DIN 3937 Shell Mill Holders with
DIN 2080 A Tapered Shanks



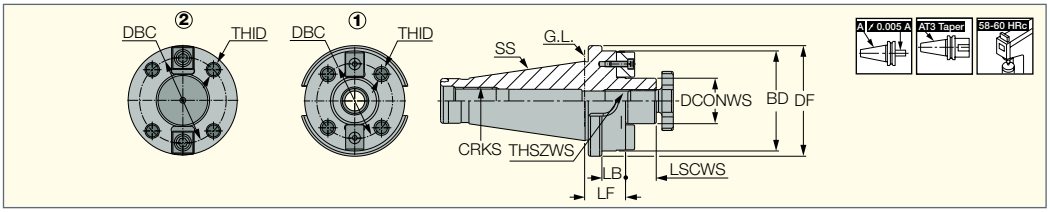
Designation	SS	DCONWS	LSCWS	LF	LB	BD	CRKS	kg		
DIN2080 30 SEM 16X 28	30	16.00	17.00	28.00	18.4	38.00	M12	0.47	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*
DIN2080 30 SEM 22X 28	30	22.00	19.00	28.00	18.4	47.00	M12	0.57	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*
DIN2080 30 SEM 27X 32	30	27.00	21.00	32.00	22.4	58.00	M12	0.76	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*
DIN2080 30 SEM 32X 32	30	32.00	24.00	32.00	22.4	66.00	M12	0.91	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*
DIN2080 40 SEM 16X 28	40	16.00	17.00	28.00	16.4	38.00	M16	0.87	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*
DIN2080 40 SEM 22X 27	40	22.00	19.00	27.00	15.4	47.00	M16	0.94	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*
DIN2080 40 SEM 27X 26	40	27.00	21.00	26.00	14.4	58.00	M16	1.08	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*
DIN2080 40 SEM 32X 23	40	32.00	24.00	23.00	11.4	66.00	M16	1.05	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*
DIN2080 40 SEM 40X 34	40	40.00	27.00	34.00	22.4	82.00	M16	1.65	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*
DIN2080 50 SEM 16X 38	50	16.00	17.00	38.00	22.8	38.00	M24	3.07	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*
DIN2080 50 SEM 22X 38	50	22.00	19.00	38.00	22.8	47.00	M24	2.90	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*
DIN2080 50 SEM 27X 38	50	27.00	21.00	38.00	22.8	58.00	M24	3.00	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*
DIN2080 50 SEM 32X 36	50	32.00	24.00	36.00	20.8	66.00	M24	3.28	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*
DIN2080 50 SEM 40X 40	50	40.00	27.00	40.00	24.8	82.00	M24	3.76	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*

* Optional, should be ordered separately

DIN2080

DIN2080-FM

DIN6357 Face Mill Holders with
DIN2080 A Tapered Shanks



Designation	SS	DCONWS	LSCWS	LF	LB	DF	DBC	BD	THSZWS	THID	CRKS	Fig.	kg
DIN2080 50 FM 40	50	40.00	27.00	36.00	20.8	97.30	66.70	88.00	M20	M12	M24	1.	3.61
DIN2080 50 FM 60	50	60.00	40.00	36.00	-	128.00	101.60	-	-	M16	M24	2.	5.60

• Peripheral clamping screws are not supplied.

Spare Parts

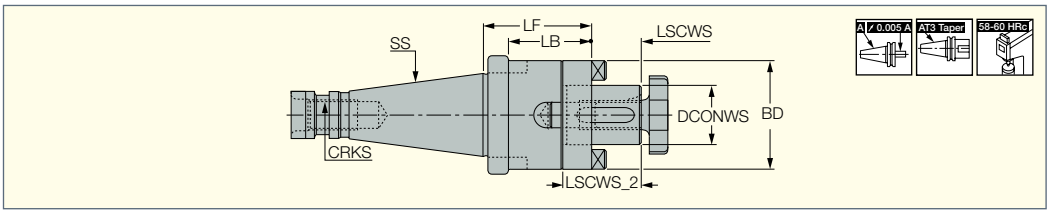
Designation		
DIN2080-FM	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*

* Optional, should be ordered separately

DIN2080

DIN2080-SEMC

DIN6358 COMBI Shell
Mill Holders with DIN2080
A Tapered Shanks



Designation	SS	DCONWS	LSCWS	LF	LB	LSCWS_2	BD	CRKS	kg
DIN2080 40 SEMC 22X 52	40	22.00	19.00	52.00	40.4	31.00	40.00	M16	1.01
DIN2080 40 SEMC 27X 52	40	27.00	21.00	52.00	40.4	33.00	48.00	M16	1.26
DIN2080 40 SEMC 32X 52	40	32.00	24.00	52.00	40.4	38.00	58.00	M16	1.42
DIN2080 40 SEMC 40X 52	40	40.00	27.00	52.00	40.4	41.00	70.00	M16	1.76
DIN2080 50 SEMC 16X 55	50	16.00	17.00	55.00	39.8	27.00	32.00	M24	2.89
DIN2080 50 SEMC 22X 55	50	22.00	19.00	55.00	39.8	31.00	40.00	M24	3.29
DIN2080 50 SEMC 27X 55	50	27.00	21.00	55.00	39.8	33.00	48.00	M24	3.13
DIN2080 50 SEMC 32X 55	50	32.00	24.00	55.00	39.8	38.00	58.00	M24	3.35
DIN2080 50 SEMC 40X 55	50	40.00	27.00	55.00	39.8	41.00	70.00	M24	3.66
DIN2080 50 SEMC 50X 55	50	50.00	30.00	55.00	39.8	46.00	90.00	M24	4.18

• Driving key is not supplied.

Spare Parts

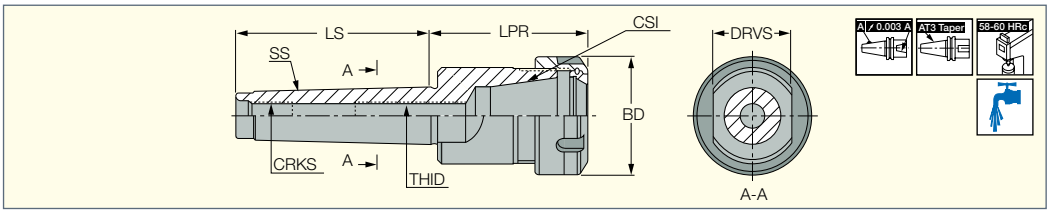
Designation				
DIN2080 40 SEMC 22X 52	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	KEY SEMC 22 6X6X25
DIN2080 40 SEMC 27X 52	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	KEY SEMC 27 7X7X25
DIN2080 40 SEMC 32X 52	32 D.RING SEMC	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	KEY SEMC 32 8X7X28
DIN2080 40 SEMC 40X 52	40 D.RING SEMC	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	KEY SEMC 40 10X8X32
DIN2080 50 SEMC 16X 55	16 D.RING SEMC	M8 CLAMP SCREW SEM16	WRENCH M8 SEMC16*	KEY SEMC 16 4X4X20
DIN2080 50 SEMC 22X 55	22 D.RING SEMC	M10 CLAMP SCREW SEM22	WRENCH M10 SEMC 22*	KEY SEMC 22 6X6X25
DIN2080 50 SEMC 27X 55	27 D.RING SEMC	M12 CLAMP SCREW SEM27	WRENCH M12 SEMC 27*	KEY SEMC 27 7X7X25
DIN2080 50 SEMC 32X 55	32 D.RING SEMC	M16 CLAMP SCREW SEM32	WRENCH M16 SEMC 32*	KEY SEMC 32 8X7X28
DIN2080 50 SEMC 40X 55	40 D.RING SEMC	M20 CLAMP SCREW SEM40	WRENCH M20 SEMC 40*	KEY SEMC 40 10X8X32
DIN2080 50 SEMC 50X 55	50 D.RING SEMC	M24 CLAMP SCREW SEM50	WRENCH M24 SEMC 50*	KEY SEMC 50 12X8X36

* Optional, should be ordered separately

Morse Taper

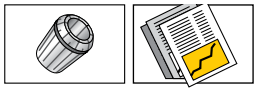
MT-ER

DIN 6499 ER Collet Chucks with
DIN 228-2 Morse Taper Shanks



Designation	SS	CSI	DCONNWS(1)	DCONXWS(2)	LPR	LS	BD	THID	CRKS	DRVS(3)	kg
MT 2 ER20X48.5	2	ER20	1.0	13.0	48.50	64.00	34.00	M10	M10	22.0	0.16
MT 2 ER25X52	2	ER25	1.0	16.0	52.00	64.00	42.00	M10	M10	28.0	0.21
MT 3 ER32X 69	3	ER32	2.0	20.0	69.00	81.00	50.00	M12	M12	24.0	0.47
MT 3 ER40X 79	3	ER40	3.0	26.0	79.00	81.00	63.00	M12	M12	24.0	0.64
MT 4 ER32X 61	4	ER32	2.0	20.0	60.50	102.50	50.00	M16	M16	32.0	0.62
MT 4 ER40X 82	4	ER40	3.0	26.0	81.50	102.50	63.00	M16	M16	32.0	0.82
MT 4 ER50X108	4	ER50	10.0	34.0	107.50	102.50	78.00	M16	M16	32.0	1.44
MT 5 ER40X 82	5	ER40	3.0	26.0	82.00	129.50	63.00	M28X1.5	M20	45.0	1.54
MT 5 ER50X 85	5	ER50	10.0	34.0	85.00	129.50	78.00	M28X1.5	M20	45.0	0.70

(1) Minimum diameter
(2) Key flat size
(3) Key flat size



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Spare Parts

Designation				
MT 2 ER20X48.5	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 10X1.5*	
MT 2 ER25X52	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 10X1.5*	
MT 3 ER32X 69	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
MT 3 ER40X 79	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
MT 4 ER32X 61	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
MT 4 ER40X 82	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
MT 4 ER50X108	NUT ER50 UM			
MT 5 ER40X 82	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	
MT 5 ER50X 85	NUT ER50 UM	WRENCH ER50*	PRESET ER-JET 28X1.5*	

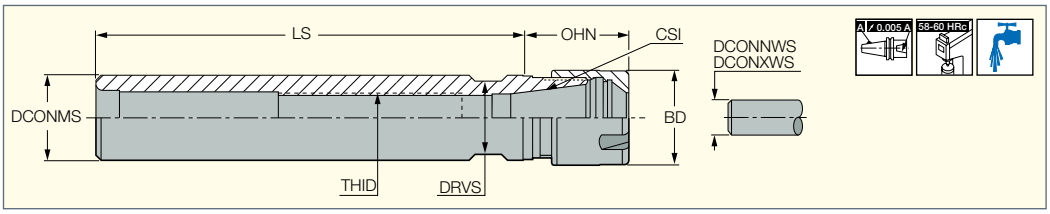
* Optional, should be ordered separately

STRAIGHT & VDI SHANKS

Straight Shank

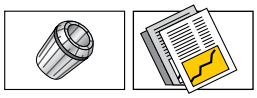
ST-ER-M (mini)

DIN 6499 ER Mini Collet Chucks with Cylindrical Shanks



Designation	DCONMS	CSI	DCONNWS(1)	DCONXWS(2)	LS	OHN(3)	THID	BD	DRVS(4)	kg
ST 12X 80 ER11 M	12.00	ER11	0.5	7.0	80.00	26.50	-	16.00	11.0	0.06
ST 16X100 ER11 M	16.00	ER11	0.5	7.0	100.00	18.50	M8	16.00	13.0	0.10
ST 16X150 ER11 M	16.00	ER11	0.5	7.0	150.00	18.50	M8	16.00	13.0	0.19
ST 12X 80 ER16 M	12.00	ER16	0.5	10.0	80.00	36.50	-	22.00	17.0	0.13
ST 20X100 ER16 M	20.00	ER16	0.5	10.0	100.00	25.00	M12	22.00	17.0	0.21
ST 20X150 ER16 M	20.00	ER16	0.5	10.0	150.00	25.00	M12	22.00	17.0	0.29
ST 20X100 ER20 M	20.00	ER20	1.0	13.0	100.00	40.00	M12	28.00	21.0	0.27
ST 20X150 ER20 M	20.00	ER20	1.0	13.0	150.00	40.00	M12	28.00	21.0	0.31

(1) Minimum diameter
(2) Maximum diameter
(3) Minimum overhang
(4) Key flat size



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Spare Parts

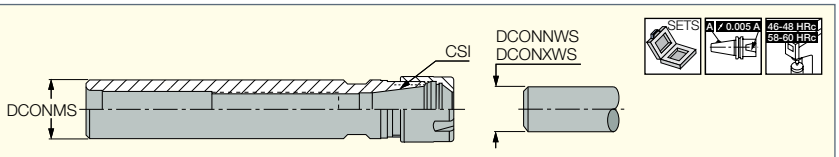
Designation				
ST 12X 80 ER11 M	NUT ER11 MINI	WRENCH ER11 MINI*		
ST 16X100 ER11 M	NUT ER11 MINI	WRENCH ER11 MINI*	PRESET ER-JET 8X1.25*	
ST 16X150 ER11 M	NUT ER11 MINI	WRENCH ER11 MINI*	PRESET ER-JET 8X1.25*	
ST 12X 80 ER16 M	NUT ER16 MINI	WRENCH ER16 MINI*		
ST 20X100 ER16 M	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 20X150 ER16 M	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 20X100 ER20 M	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 20X150 ER20 M	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*

* Optional, should be ordered separately

Straight Shank

KIT ST-ER-M/MF

Contains ER Mini Collet Chuck with a Cylindrical Shank and a Set of Collets in Various Bore Sizes



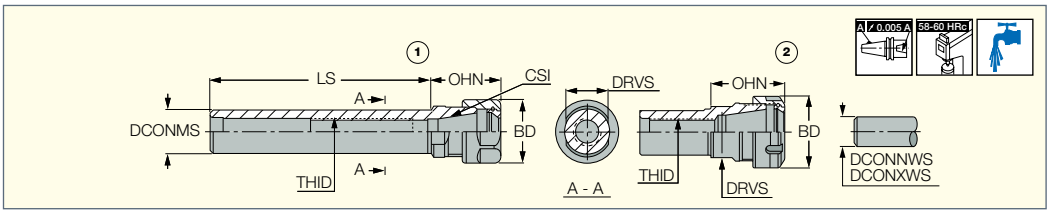
Designation	DCONMS	CSI	Qty	DCONNWS(1)	DCONXWS
KIT ST12X80 7 ER11 M	12	ER11	7	0.50	7.00
KIT ST12X80 10 ER16 M	12	ER16	10	0.50	10.00
KIT ST16X50 7 ER11MF	16	ER11	7	0.50	7.00
KIT ST16X100 7 ER11 M	16	ER11	7	0.50	7.00
KIT ST16X150 7 ER11 M	16	ER11	7	0.50	7.00
KIT ST20X100 10 ER16 M	20	ER16	10	0.50	10.00
KIT ST20X150 10 ER16 M	20	ER16	10	0.50	10.00
KIT ST20X100 12 ER20 M	20	ER20	12	1.00	12.00
KIT ST20X150 12 ER20 M	20	ER20	12	1.00	12.00

• F suffix indicates a flat on the shank • Each kit contains one collet chuck, a full set of ER collets and a wrench
(1) Minimum diameter

Straight Shank

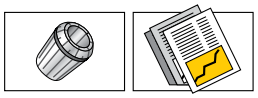
ST-ER

DIN 6499 ER Collet Chucks
with Straight Shanks



Designation	DCONMS	CSI	DCONNWS(1)	DCONXWS(2)	LS	OHN(3)	THID	BD	DRVS(4)	Fig.	kg
ST 16X 50 ER11 F	16.00	ER11	0.5	7.0	50.00	18.50	M8	19.00	13.0	1.	0.06
ST 20X 50 ER11 F	20.00	ER11	0.5	7.0	50.00	18.50	M10	19.00	17.0	1.	0.10
ST 20X100 ER11	20.00	ER11	0.5	7.0	100.00	18.50	M10	19.00	17.0	1.	0.20
ST 20X150 ER11	20.00	ER11	0.5	7.0	150.00	18.50	M10	19.00	17.0	1.	0.25
ST 20X 50 ER16 F	20.00	ER16	0.5	10.0	50.00	32.30	M12	28.00	19.0	1.	0.07
ST 20X100 ER16	20.00	ER16	0.5	10.0	100.00	30.00	M12	28.00	19.0	1.	0.20
ST 20X100 ER16 F	20.00	ER16	0.5	10.0	100.00	30.00	M12	28.00	19.0	1.	0.25
ST 20X150 ER16	20.00	ER16	0.5	10.0	150.00	30.00	M12	28.00	19.0	1.	0.28
ST 20X 50 ER20 F	20.00	ER20	1.0	13.0	50.00	42.50	M12	34.00	22.0	1.	0.15
ST 25X100 ER20	25.00	ER20	1.0	13.0	100.00	36.00	M16	34.00	22.0	1.	0.30
ST 25X150 ER20	25.00	ER20	1.0	13.0	150.00	36.00	M16	34.00	22.0	1.	0.39
ST 20X 50 ER25 F	20.00	ER25	1.0	16.0	50.00	46.00	M12	42.00	28.0	2.	0.34
ST 20X100 ER25	20.00	ER25	1.0	16.0	100.00	46.00	M12	42.00	28.0	2.	0.29
ST 20X100 ER25 F	20.00	ER25	1.0	16.0	100.00	46.00	M12	42.00	28.0	2.	0.09
ST 25X 50 ER25 F	25.00	ER25	1.0	16.0	50.00	46.00	M16	42.00	28.0	2.	0.22
ST 25X100 ER25	25.00	ER25	1.0	16.0	100.00	46.00	M16	42.00	28.0	2.	0.36
ST 20X 50 ER32 F	20.00	ER32	2.0	20.0	50.00	54.00	M12	50.00	36.0	2.	0.30
ST 20X100 ER32	20.00	ER32	2.0	20.0	100.00	54.00	M12	50.00	36.0	2.	0.40
ST 25X 50 ER32 F	25.00	ER32	2.0	20.0	50.00	52.00	M16X2	50.00	36.0	2.	0.32
ST 30X 50 ER32 F	30.00	ER32	2.0	20.0	50.00	52.00	M18X1.5	50.00	36.0	2.	0.39
ST 32X 50 ER32 F	32.00	ER32	2.0	20.0	50.00	52.00	M18X1.5	50.00	36.0	2.	0.42
ST 32X150 ER32	32.00	ER32	2.0	20.0	150.00	52.00	M18X1.5	50.00	36.0	2.	0.88
ST 40X 75 ER32 F	40.00	ER32	2.0	20.0	75.00	46.00	M22X1.5	50.00	44.0	2.	0.72
ST 25X 50 ER40 F	25.00	ER40	3.0	26.0	50.00	60.00	M16X2	63.00	45.0	2.	0.52
ST 30X 50 ER40 F	30.00	ER40	3.0	26.0	50.00	60.00	M18X1.5	63.00	45.0	2.	0.57
ST 32X 50 ER40 F	32.00	ER40	3.0	26.0	50.00	60.00	M18X1.5	63.00	45.0	2.	0.80
ST 40X 75 ER40 F	40.00	ER40	3.0	26.0	75.00	55.00	M22X1.5	63.00	45.0	2.	0.94
ST 50X 80 ER40 F	50.00	ER40	3.0	26.0	80.00	60.00	M28X1.5	63.00	54.0	2.	1.30
ST 50X 80 ER50 F	50.00	ER50	10.0	34.0	80.00	77.00	M36X1.5	78.00	58.0	2.	1.32

(1) Minimum diameter
(2) Maximum diameter
(3) Minimum overhang
(4) Key flat size



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Spare Parts

Designation				
ST 16X 50 ER11 F	NUT ER11 UM	WRENCH ER11*	PRESET ER-JET 8X1.25*	
ST 20X 50 ER11 F	NUT ER11 UM	WRENCH ER11*	PRESET ER-JET 10X1.5*	
ST 20X100 ER11	NUT ER11 UM	WRENCH ER11*	PRESET ER-JET 10X1.5*	
ST 20X150 ER11	NUT ER11 UM	WRENCH ER11*	PRESET ER-JET 10X1.5*	
ST 20X 50 ER16 F	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 20X100 ER16	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 20X100 ER16 F	NUT ER16 TOP	WRENCH ER16*		
ST 20X150 ER16	NUT ER16 TOP	WRENCH ER16*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 20X 50 ER20 F	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 25X100 ER20	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
ST 25X150 ER20	NUT ER20 TOP	WRENCH ER20*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
ST 20X 50 ER25 F	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 20X100 ER25	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 20X100 ER25 F	NUT ER25 TOP	WRENCH ER25*		
ST 25X 50 ER25 F	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
ST 25X100 ER25	NUT ER25 TOP	WRENCH ER25*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
ST 20X 50 ER32 F	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 20X100 ER32	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 12X1.75*	PRESET ER-JET 12X1.75L*
ST 25X 50 ER32 F	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
ST 30X 50 ER32 F	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 18X1.5*	PRESET ER-JET 18X1.5L*
ST 32X 50 ER32 F	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 18X1.5*	PRESET ER-JET 18X1.5L*

* Optional, should be ordered separately

ST-ER (continued)

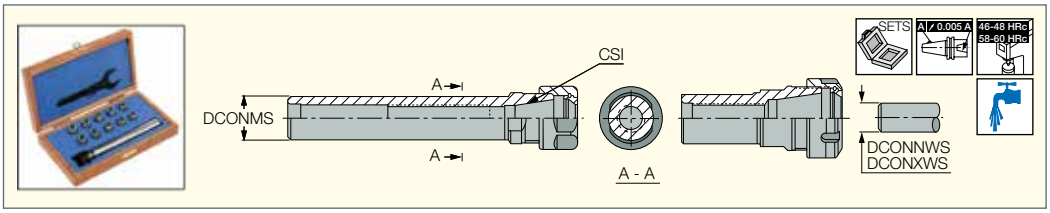
Spare Parts

Designation				
ST 32X150 ER32	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 18X1.5*	PRESET ER-JET 18X1.5L*
ST 40X 75 ER32 F	NUT ER32 TOP	WRENCH ER32*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
ST 25X 50 ER40 F	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 16X2*	PRESET ER-JET 16X2L*
ST 30X 50 ER40 F	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 18X1.5*	PRESET ER-JET 18X1.5L*
ST 32X 50 ER40 F	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 18X1.5*	PRESET ER-JET 18X1.5L*
ST 40X 75 ER40 F	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 22X1.5*	PRESET ER-JET 22X1.5L*
ST 50X 80 ER40 F	NUT ER40 TOP	WRENCH ER40*	PRESET ER-JET 28X1.5*	
ST 50X 80 ER50 F	NUT ER50 UM	WRENCH ER50*		

* Optional, should be ordered separately

Straight Shank

KIT ST-ER
Contains 1 ER Collet Chuck with a Cylindrical Shank and a Set of Collets in Various Bore Sizes



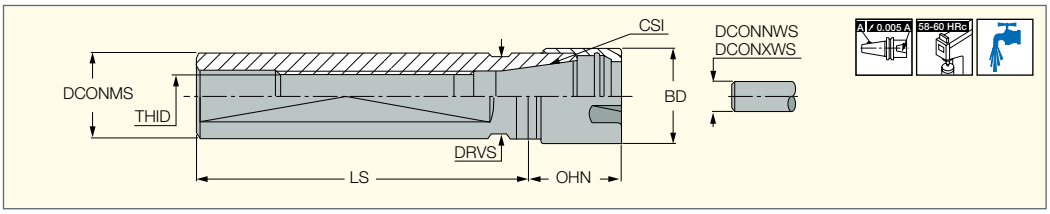
Designation		DCONMS	CSI	Qty	DCONNWS(1)	DCONXWS
KIT ST16X50	7 ER11 F	16	ER11	7	0.50	7.00
KIT ST20X100	7 ER11	20	ER11	7	0.50	7.00
KIT ST20X150	7 ER11	20	ER11	7	0.50	7.00
KIT ST20X50	10 ER16 F	20	ER16	10	0.50	10.00
KIT ST20X100	10 ER16	20	ER16	10	0.50	10.00
KIT ST20X150	10 ER16	20	ER16	10	0.50	10.00
KIT ST20X50	12 ER20 F	20	ER20	12	1.00	12.00
KIT ST25X100	12 ER20	25	ER20	12	1.00	12.00
KIT ST25X150	ER20	25	ER20	12	1.00	12.00

• Each kit contains one collet chuck, a full set of ER collets and a wrench • F suffix indicates a flat on the shank
(1) Minimum diameter

Straight Shank

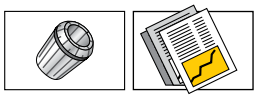
ST-ER-MF (mini flat)

DIN 6499 ER Mini Collet Chucks with Cylindrical Shanks and a Clamping Flat for Swiss-Type CNC Lathes



Designation	DCONMS	CSI	LS	DCONNWS(6)	DCONXWS(7)	OHN(8)	THID	BD	DRVS(9)	kg
ST 16X 38 ER11 MF (1)	16.00	ER11	38.00	0.5	7.0	18.50	M8X1	16.00	14.0	0.05
ST 16X 50 ER11 MF	16.00	ER11	50.00	0.5	7.0	18.50	M8X1	16.00	13.0	0.07
ST 16X140 ER11 MF	16.00	ER11	140.00	0.5	7.0	18.50	M8X1	16.00	14.0	0.18
ST 16X 35 ER16 MF (1)	16.00	ER16	35.00	0.5	10.0	36.00	M8X1	22.00	17.0	0.12
ST 20X 50 ER16 MF (2)	20.00	ER16	50.00	0.5	10.0	26.00	M12X1	22.00	17.0	0.10
ST 20X 70 ER16 MF (2)	20.00	ER16	70.00	0.5	10.0	26.00	M12X1	22.00	17.0	0.17
ST 20X120 ER16 MF (2)	20.00	ER16	120.00	0.5	10.0	26.00	M12X1	22.00	17.0	0.19
ST 20X140 ER16 MF (2)	20.00	ER16	140.00	0.5	10.0	26.00	M12X1	22.00	17.0	0.40
ST 22X 38 ER16 MF (1)	22.00	ER16	38.00	0.5	10.0	26.00	M12X1	22.00	19.0	0.10
ST 22X 70 ER16 MF (1)	22.00	ER16	70.00	0.5	10.0	26.00	M12X1	22.00	19.0	0.16
ST 22X100 ER16 MF (1)	22.00	ER16	100.00	0.5	10.0	28.00	M12X1	22.00	19.0	0.27
ST 22X 80 ER20 MF (1)	22.00	ER20	80.00	1.0	13.0	39.00	M12X1	28.00	21.0	0.21
ST 22X 70 ER25 MF (1)	22.00	ER25	70.00	1.0	16.0	47.00	M12X1	35.00	27.0	0.25
ST 25X 65 ER16 MF	25.00	ER16	65.00	0.5	10.0	28.00	M14X1	22.00	22.0	0.22
ST 25X100 ER20 MF (3)	25.00	ER20	100.00	1.0	13.0	28.00	M14X1	28.00	22.0	0.15
ST 25X154 ER20 MF (3)	25.00	ER20	154.00	1.0	13.0	28.00	M14X1	28.00	22.0	0.40
ST 25X 75 ER25 MF (4)	25.00	ER25	75.00	1.0	16.0	48.00	M14X1	35.00	27.0	0.36
ST 25X145 ER25 MF (3)	25.00	ER25	145.00	1.0	16.0	36.00	M14X1	35.00	27.0	0.08
ST 32X 70 ER25 MF (5)	32.00	ER25	70.00	1.0	16.0	30.00	M18X1	35.00	27.0	0.35

(1) For Star machines
(2) For Citizen machines
(3) For Tornos-Bechler machines
(4) For Manurhin machines
(5) For Schutte machines
(6) Minimum diameter
(7) Maximum diameter
(8) Minimum overhang
(9) Key flat size



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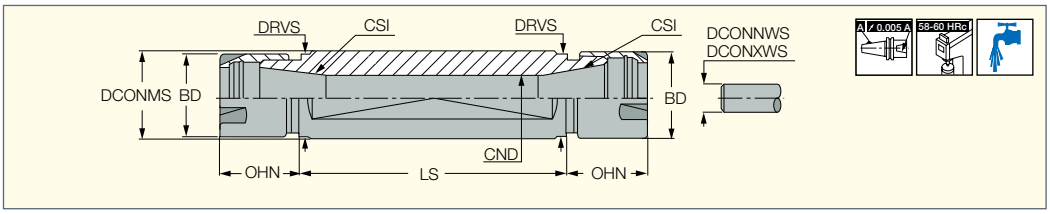
Spare Parts

Designation			
ST 16X 38 ER11 MF	NUT ER11 MINI	WRENCH ER11 MINI*	PRESET ER-JET 8X1*
ST 16X 50 ER11 MF	NUT ER11 MINI	WRENCH ER11 MINI*	PRESET ER-JET 8X1*
ST 16X140 ER11 MF	NUT ER11 MINI	WRENCH ER11 MINI*	PRESET ER-JET 8X1*
ST 16X 35 ER16 MF	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 8X1*
ST 20X 50 ER16 MF	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1*
ST 20X 70 ER16 MF	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1*
ST 20X120 ER16 MF	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1*
ST 20X140 ER16 MF	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1*
ST 22X 38 ER16 MF	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1*
ST 22X 70 ER16 MF	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1*
ST 22X100 ER16 MF	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1*
ST 22X 80 ER20 MF	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 12X1*
ST 22X 70 ER25 MF	NUT ER25 MINI	WRENCH ER25 MINI*	PRESET ER-JET 12X1*
ST 25X 65 ER16 MF	NUT ER16 MINI	WRENCH ER16 MINI*	PRESET ER-JET 12X1*
ST 25X100 ER20 MF	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 14X1*
ST 25X154 ER20 MF	NUT ER20 MINI	WRENCH ER20 MINI*	PRESET ER-JET 14X1*
ST 25X 75 ER25 MF	NUT ER25 MINI	WRENCH ER25 MINI*	PRESET ER-JET 14X1*
ST 25X145 ER25 MF	NUT ER25 MINI	WRENCH ER25 MINI*	PRESET ER-JET 14X1*
ST 32X 70 ER25 MF	NUT ER25 MINI	WRENCH ER25 MINI*	PRESET ER-JET 18X1*

* Optional, should be ordered separately

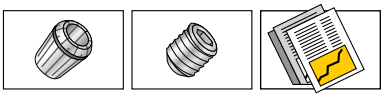
Straight Shank

ST-ER-MF-D (double-ended)
Double-Ended Mini Collets
with Cylindrical Shanks
and a Clamping Flat



Designation	DCONMS	LS	CSI	DCONNWS[3]	DCONXWS[4]	BD	CND	OHN[5]	DRVS[6]	kg
ST 16X 50 ER11 MF D	16.00	50.00	ER11	0.5	7.0	16.00	7.5	18.50	14.0	0.07
ST 20X 30 ER11 MF D [1]	20.00	30.00	ER11	0.5	7.0	16.00	7.5	18.50	17.0	0.09
ST 20X 50 ER11 MF D [1]	20.00	50.00	ER11	0.5	7.0	16.00	7.5	18.50	17.0	0.13
ST 20X 55 ER16 MF D [1]	20.00	55.00	ER16	0.5	10.0	22.00	10.5	25.00	17.0	0.12
ST 22X 55 ER16 MF D [2]	22.00	55.00	ER16	0.5	10.0	22.00	10.5	28.00	19.0	0.17
ST 22X 75 ER16 MF D [2]	22.00	75.00	ER16	0.5	10.0	22.00	10.5	28.00	19.0	0.21
ST 25X 62 ER16 MF D	25.00	62.00	ER16	0.5	10.0	22.00	10.5	28.00	22.0	0.23
ST 32X 55 ER20 MF D [2]	32.00	55.00	ER20	1.0	13.0	28.00	13.5	28.00	27.0	0.34
ST 32X 75 ER20 MF D [2]	32.00	75.00	ER20	1.0	13.0	28.00	13.5	28.00	27.0	0.44

[1] For Citizen machines
[2] For Star machines
[3] Minimum diameter
[4] Maximum diameter
[5] Minimum overhang
[6] Key flat size



1065-1069 1101 1063-1065

Spare Parts

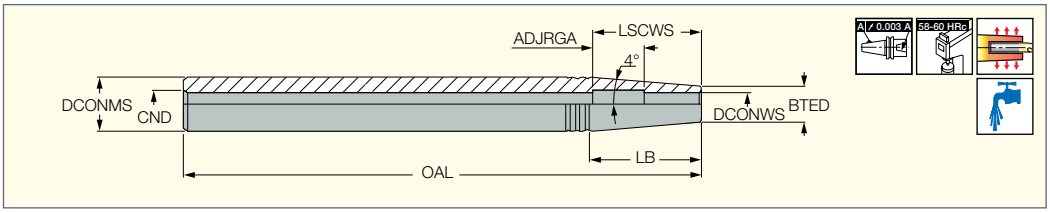
Designation		
ST 16X 50 ER11 MF D	NUT ER11 MINI	WRENCH ER11 MINI*
ST 20X 30 ER11 MF D	NUT ER11 MINI	WRENCH ER11 MINI*
ST 20X 50 ER11 MF D	NUT ER11 MINI	WRENCH ER11 MINI*
ST 20X 55 ER16 MF D	NUT ER16 MINI	WRENCH ER16 MINI*
ST 22X 55 ER16 MF D	NUT ER16 MINI	WRENCH ER16 MINI*
ST 22X 75 ER16 MF D	NUT ER16 MINI	WRENCH ER16 MINI*
ST 25X 62 ER16 MF D	NUT ER16 MINI	WRENCH ER16 MINI*
ST 32X 55 ER20 MF D	NUT ER20 MINI	WRENCH ER20 MINI*
ST 32X 75 ER20 MF D	NUT ER20 MINI	WRENCH ER20 MINI*

* Optional, should be ordered separately

Straight Shank

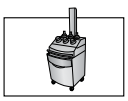
SHRINKIN

ST-SRK
Thermal Chuck Collets
with Cylindrical Shanks



Designation	DCONWS	DCONMS	BTED	CND	OAL	LB	ADJRGA	LSCWS	kg
ST 12X160 SRK 3	3.00	12.00	10.00	4.0	160.00	14.8	-	10.0	0.10
ST 16X160 SRK 3	3.00	16.00	10.00	6.0	160.00	43.4	-	10.0	0.20
ST 12X160 SRK 4	4.00	12.00	10.00	4.5	160.00	14.8	-	12.0	0.12
ST 16X160 SRK 4	4.00	16.00	10.00	6.0	160.00	43.4	-	12.0	0.20
ST 16X160 SRK 5	5.00	16.00	10.00	6.0	160.00	43.4	-	15.0	0.20
ST 20X200 SRK 5	5.00	20.00	10.00	6.0	200.00	72.0	-	15.0	0.38
ST 16X160 SRK 6	6.00	16.00	11.00	6.0	160.00	36.6	17.00	35.0	0.19
ST 20X200 SRK 6	6.00	20.00	11.00	6.0	200.00	65.2	22.00	40.0	0.30
ST 25X200 SRK 6	6.00	25.00	11.00	8.0	200.00	100.9	17.00	35.0	0.51
ST 20X200 SRK 8	8.00	20.00	14.00	6.0	200.00	43.3	15.00	40.0	0.43
ST 25X200 SRK 8	8.00	25.00	14.00	8.0	200.00	79.0	15.00	40.0	0.58
ST 25X200 SRK10	10.00	25.00	16.00	8.0	200.00	64.3	20.00	50.0	0.61
ST 25X200 SRK12	12.00	25.00	20.00	8.0	200.00	35.5	20.00	52.0	0.63

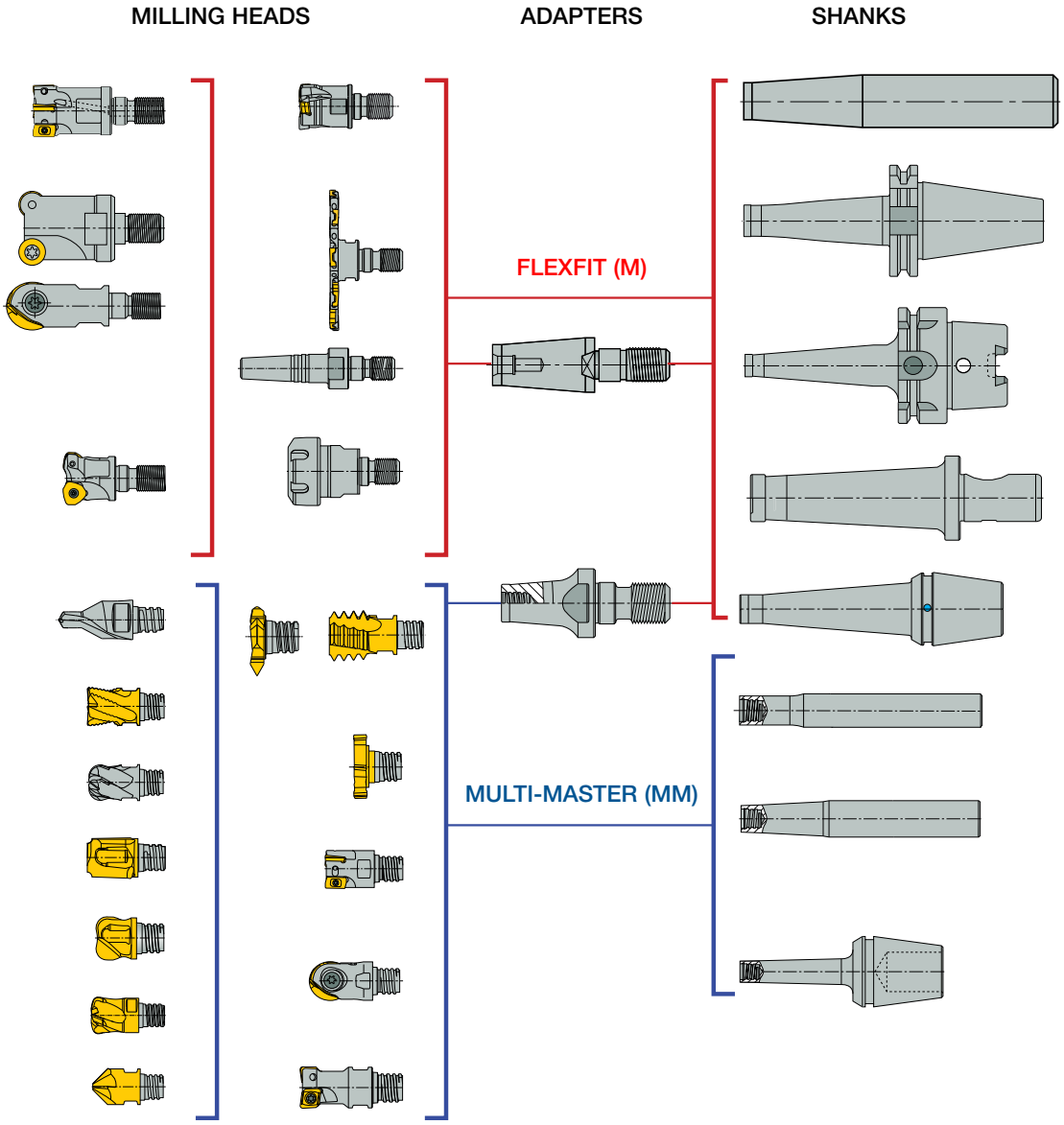
• To be used for carbide tools only.



1076-1077

FLEXFIT • CLICKFIT

MULTI-MASTER and FLEXFIT Connection Options



Features

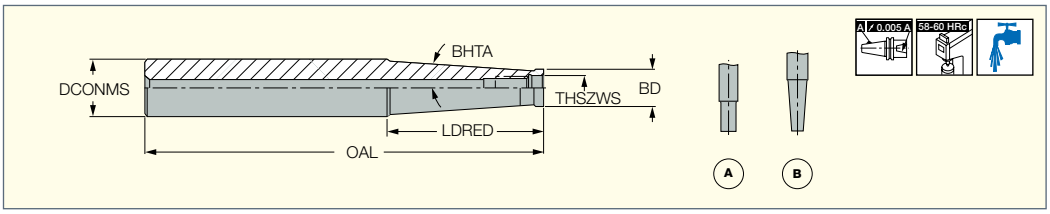
- Modular system reduces stock cost by using the same head with different shank options
- Enables machining with larger overthang
- Same head can be mounted on metric and inch combinations

Straight Shank

FLEXFIT

S M

Shanks for Tools with FLEXFIT Threaded Connection



Designation	OAL	LDRED	DCONMS	Shank	BD	BHTA	THSZWS	Type	kg
S M06-L60 C10	60.00	20.0	10.00	C	9.70	-	M06	A	0.03
S M06-L105-C12	105.00	60.0	12.00	C	9.70	1.2	M06	B	0.06
S M06-L125-C16	125.00	60.0	16.00	C	9.70	3.3	M06	B	0.13
S M08-L73 C16	73.00	25.0	16.00	C	13.00	-	M08	A	0.09
S M08-L128-C16	128.00	80.0	16.00	C	13.00	0.9	M08	B	0.15
S M08-L170-C20	170.00	66.8	20.00	C	13.00	3.3	M08	B	0.33
S M10-L80 C20	80.00	30.0	20.00	C	18.00	-	M10	A	0.16
S M10-L130-C20	130.00	80.0	20.00	C	18.00	0.6	M10	B	0.25
S M10-L200-C25	200.00	57.2	25.00	C	19.00	3.3	M10	B	0.65
S M12-L86-C25	86.00	30.0	25.00	C	21.00	5.1	M12	A	0.27
S M12-L200-C32	200.00	78.0	32.00	C	21.00	4.4	M12	B	1.02
S M16-L95-C32	95.00	35.0	32.00	C	29.00	1.7	M16	A	0.50
S M16-L230-C32	230.00	50.0	32.00	C	29.00	1.8	M16	B	1.27

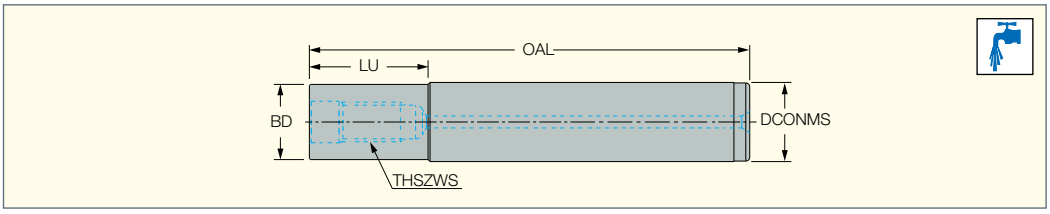
1044

FLEXFIT

Straight Shank

S M-C-H

Carbide Shanks with Coolant Channels for Tools with FLEXFIT Threaded Connection

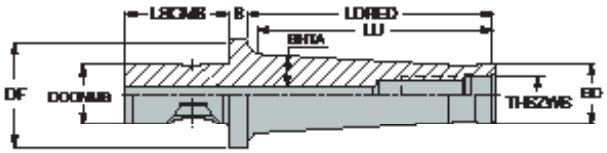


Designation	DCONMS	THSZWS	OAL	LU	BD	kg
S M08-L150-C16-C-H	16.00	M08	150.00	80.0	15.30	0.39
S M08-L200-C16-C-H	16.00	M08	200.00	140.0	15.30	0.59
S M08-L250-C16-C-H	16.00	M08	250.00	180.0	15.30	0.84
S M10-L150-C20-C-H	20.00	M10	150.00	80.0	18.50	0.73
S M10-L200-C20-C-H	20.00	M10	200.00	140.0	18.50	0.91
S M10-L250-C20-C-H	20.00	M10	250.00	180.0	18.50	1.04
S M12-L200-C25-C-H	25.00	M12	200.00	100.0	24.00	1.41
S M12-L250-C25-C-H	25.00	M12	250.00	180.0	24.00	1.78
S M12-L300-C25-C-H	25.00	M12	300.00	180.0	24.00	2.04
S M16-L200-C32-C-H	32.00	M16	200.00	100.0	29.00	2.11
S M16-L250-C32-C-H	32.00	M16	250.00	180.0	29.00	2.36
S M16-L300-C32-C-H	32.00	M16	300.00	180.0	29.00	2.81

• For adaptation options, see page 1044

CLICKFIT FLEXFIT

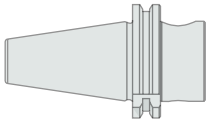
S M-CF
CLICKFIT to FLEXFIT Adapters



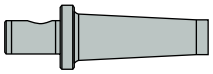
Designation	THSZWS	Shank	BD	LDRED	LU	DF	LSCMS	BHTA	kg
S M12-L85/3.30-CF4	M12	CF4	21.00	85.0	81.30	44.00	42.00	4.4	0.23
S M12-L140/5.50-CF4	M12	CF4	21.00	140.0	139.10	44.00	42.00	4.4	0.98
S M16-L130/5.11-CF4	M16	CF4	29.00	130.0	126.80	44.00	42.00	2.6	0.23
S M16-L170/6.70-CF4	M16	CF4	29.00	170.0	168.60	44.00	42.00	2.0	1.30

• For adaptation options, see page 1044

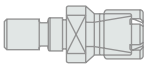
SHANK



SM...CF4

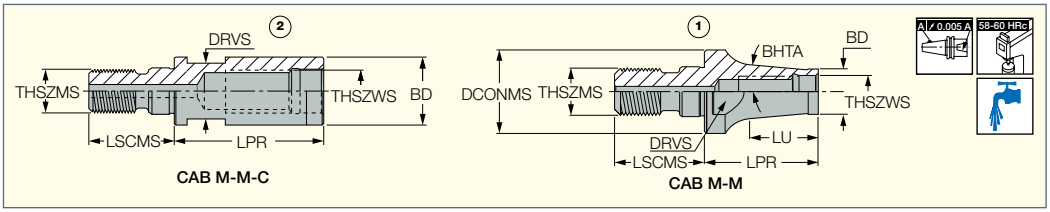


CDP...



FLEXFIT

CAB M-M (FLEXFIT)
Reducers and Extensions with Coolant Holes for the Modular FLEXFIT System

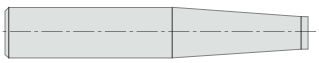


Designation	THSZWS	THSZMS	BD	LPR	LU	DCONMS	LSCMS	DRVS(1)	Fig.	BHTA	kg
CAB M06M08	M06	M08	9.70	30.00	24.80	13.00	17.50	9.5	1.	5.7	0.02
CAB M08M08-C	M08	M08	13.00	30.00	-	-	17.50	9.6	2.	-	0.02
CAB M08M10	M08	M10	13.00	40.00	33.40	18.00	20.20	15.0	1.	5.2	0.07
CAB M10M10-C	M10	M10	18.00	35.00	-	-	20.00	15.0	2.	-	0.06
CAB M10M12	M10	M12	18.00	45.00	36.40	21.00	22.00	17.0	1.	2.5	0.09
CAB M12M12-C	M12	M12	21.00	40.00	-	-	22.00	17.0	2.	-	0.08
CAB M12M16	M12	M16	21.00	50.00	42.50	29.00	25.00	25.0	1.	6.3	0.18
CAB M16M16-C	M16	M16	29.00	40.00	-	-	25.00	25.0	2.	-	0.16

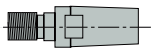
• For adaptation options, see page 1044

(1) Clamping wrench size

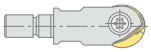
SHANK



CAB...

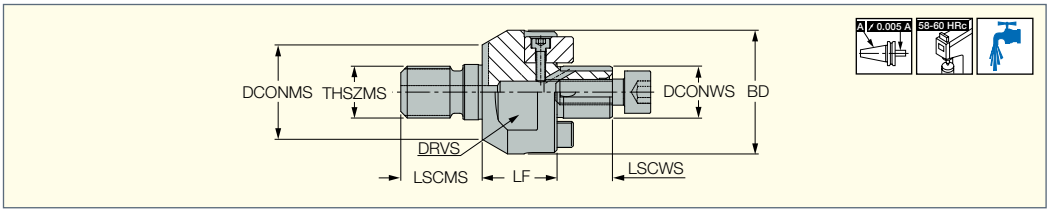


HCM-M



FLEXFIT

CAB M-SEM
FLEXFIT Shell Mill Holder Adaptation with Coolant Holes



Designation	THSZMS	DCONWS	LF	BD	LSCWS	DCONMS	LSCMS	DRVS(1)
CAB M16 SEM 16 C	M16 (2)	16.00	23.00	38.00	17.0	29.00	25.00	32.0

(1) Clamping wrench size

(2) **Tightening torque:** 30 Nm Max

Spare Parts

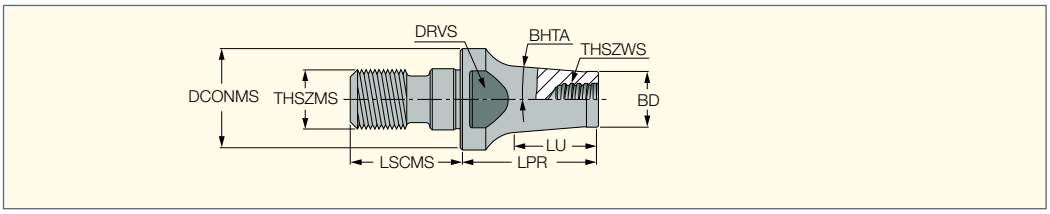
Designation		
CAB M16 SEM 16 C	SR M3X10DIN912	SR M8X25DIN912

FLEXFIT

MULTI-MASTER

MM CAB

Adapters for Connecting FLEXFIT Shanks and MULTI-MASTER Milling Heads



Designation	THSZWS	THSZMS	LPR	LU	BD	DCONMS	LSCMS	DRVS(1)	BHTA	kg
MM CAB T06M06-16/.63	T06	M06	16.00	11.60	9.30	9.70	14.50	8.0	1.5	0.01
MM CAB T06M08-16/.63	T06	M08	16.00	13.70	9.60	13.00	17.50	11.0	6.0	0.02
MM CAB T06M08-25/1.0	T06	M08	25.00	11.30	9.30	13.00	17.50	11.0	1.5	0.02
MM CAB T06M10-25/1.0	T06	M10	25.00	16.60	9.60	18.00	20.00	11.0	5.0	0.04
MM CAB T08M08-16/.63	T08	M08	16.00	5.40	11.70	13.00	17.50	11.0	11.4	0.03
MM CAB T08M08-25/1.0	T08	M08	25.00	19.50	11.70	13.00	17.50	11.0	1.5	0.03
MM CAB T08M10-20/.75	T08	M10	20.00	11.30	11.70	18.00	20.00	13.0	7.0	0.04
MM CAB T08M10-25/1.0	T08	M10	25.00	14.20	11.70	18.00	20.00	11.0	1.5	0.03
MM CAB T08M12-20/.75	T08	M12	20.00	9.30	11.70	21.00	22.00	13.0	7.0	0.05
MM CAB T08M12-25/1.0	T08	M12	25.00	12.50	11.70	21.00	22.00	13.0	1.5	0.04

• Do not apply lubricant to the threaded connection.

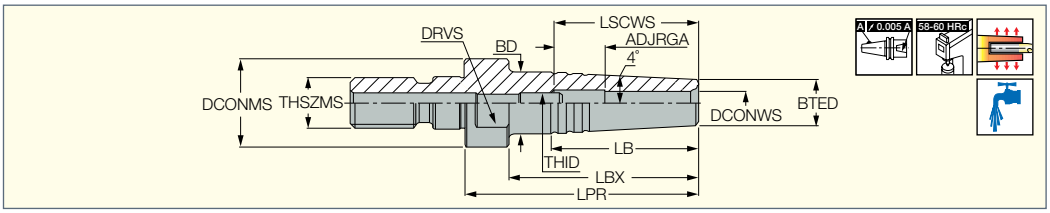
(1) Clamping wrench size

1044

FLEXFIT SHRINKIN

CDP M-SRK

Thermal Shrink Chucks with FLEXFIT Adaptation for Clamping Solid Carbide Endmills

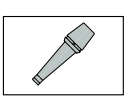


Designation	DCONWS	THSZMS	LPR	LBX	LB	ADJRGA	LSCWS	BTED	BD	DCONMS	THID	Key(1)	DRVS(2)	kg
CDP M10 SRK 3X40	3.00	M10	40.00	31.5	28.40	6.00	16.0	10.00	14.00	18.00	M4	2.00	15.0	0.05
CDP M12 SRK 3X45	3.00	M12	45.00	36.5	28.80	6.00	16.0	10.00	14.00	21.00	M5	2.50	17.0	0.06
CDP M10 SRK 4X40	4.00	M10	40.00	31.5	28.40	7.00	19.0	10.00	14.00	18.00	M4	2.00	15.0	0.05
CDP M12 SRK 4X45	4.00	M12	45.00	36.5	28.80	6.00	18.0	10.00	14.00	21.00	M5	2.50	17.0	0.06
CDP M10 SRK 5X40	5.00	M10	40.00	31.5	28.40	10.00	25.0	10.00	14.00	18.00	M4	2.00	15.0	0.05
CDP M12 SRK 5X45	5.00	M12	45.00	36.5	28.80	10.00	25.0	10.00	14.00	21.00	M5	2.50	17.0	0.06
CDP M10 SRK 6X40	6.00	M10	40.00	31.5	28.40	10.00	28.0	11.00	15.00	18.00	M4	2.00	15.0	0.05
CDP M12 SRK 6X45	6.00	M12	45.00	36.5	28.40	10.00	28.0	11.00	15.00	21.00	M5	2.50	17.0	0.06
CDP M12 SRK 8X45	8.00	M12	45.00	36.5	28.80	10.00	35.0	14.00	18.00	21.00	M5	2.50	17.0	0.08
CDP M12 SRK 10X45	10.00	M12	45.00	-	35.60	10.00	40.0	16.00	21.00	21.00	M5	2.50	17.0	0.09
CDP M12 SRK 12X45	12.00	M12	45.00	-	36.00	10.00	42.0	20.00	25.00	21.00	M5	2.50	18.0	0.11

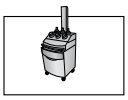
• To be used for carbide tools only.

(1) Adjustment screw hexagon key size

(2) Key flat size



957, 986, 987, 1001, 1030, 1045-1046, 1048



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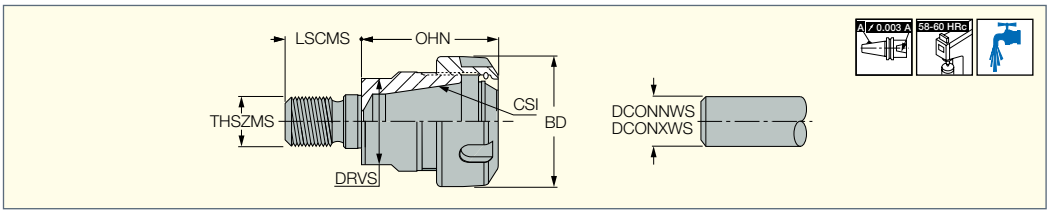
1070-1072

FLEXFIT

CDP ER-M

DIN 6499 ER Collet Chucks with Threaded FLEXFIT Adaptations



Designation	CSI	THSZMS	DCONNWS(1)	DCONXWS(2)	OHN(3)	LSCMS	BD	DRVS(4)	kg
CDP ER11 M10 M	ER11	M10	0.5	7.0	27.0	20.00	16.00	15.0	0.03
CDP ER11 M12 M	ER11	M12	0.5	7.0	27.0	22.00	16.00	17.0	0.04
CDP ER16 M10 M	ER16	M10	0.5	10.0	38.1	20.00	22.00	17.0	0.05
CDP ER16 M12 M	ER16	M12	0.5	10.0	37.1	22.00	22.00	17.0	0.06
CDP ER16 M16	ER16	M16	0.5	10.0	36.6	25.00	28.00	25.0	0.10
CDP ER20 M16	ER20	M16	1.0	13.0	45.5	25.00	34.00	25.0	0.19
CDP ER25 M16	ER25	M16	1.0	16.0	44.5	25.00	42.00	28.0	0.15

• For adaptation options, see page 1044

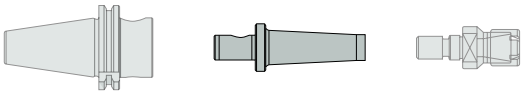
(1) Minimum diameter

(2) Maximum diameter

(3) Minimum overhang

(4) Key flat size

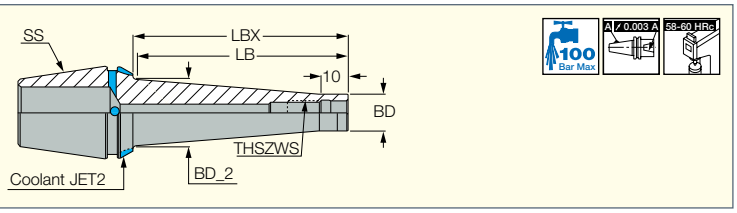
SHANK SM...CF4 CDP...



ER Collet FLEXFIT

ER-ODP

FLEXFIT Threaded Adaptation with Integral ER Collet for ER Collet Chucks



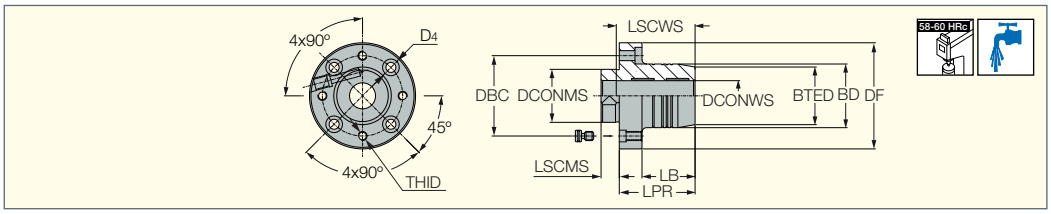
Designation	THSZWS	SS	BD	BD_2	LBX	LB	kg
ER32 ODP M 6X25	M06	ER32	9.80	14.00	25.00	22.00	0.15
ER32 ODP M 6X50	M06	ER32	9.80	20.00	50.00	48.00	0.19
ER32 ODP M 6X75	M06	ER32	9.80	23.00	75.00	74.00	0.24
ER32 ODP M 8X25	M08	ER32	13.10	15.00	25.00	22.00	0.15
ER32 ODP M 8X50	M08	ER32	13.10	23.00	50.00	49.00	0.21
ER32 ODP M 8X75	M08	ER32	13.10	23.00	75.00	74.00	0.26
ER25 ODP M10X25	M10	ER25	18.00	17.60	25.00	23.00	0.11
ER32 ODP M10X25	M10	ER32	18.00	20.00	25.00	23.00	0.17
ER32 ODP M10X50	M10	ER32	18.00	24.00	50.00	49.00	0.24
ER32 ODP M12X25	M12	ER32	21.00	24.00	25.00	24.00	0.18
ER32 ODP M12X50	M12	ER32	21.00	24.00	50.00	49.00	0.26

CENTER ALIGNMENT DEVICES

HYDROFIT HOLDING LINE

ADJ HYDRO

Radial and Angular Adjustable Hydraulic Flanges



Designation	DCONWS	DCONMS	BTED	BD	DF	LPR	LB	LSCWS	LSCMS	DBC	D_4	THID
ADJ HYDRO 20 D70	20.00	35.00	38.00	42.00	70.00	50.00	35.0	52.0	10.00	53.00	11.00	M6

• Chucking forces will be reduced by 25% if reduction sleeves are used. • Reduction sleeves are available for 3 to 16 mm bore diameters (ordered separately).

Designation

ADJ ST25 D70
ADJ ST32 D70

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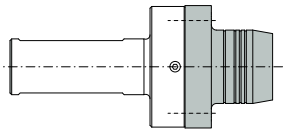

ADJ HSK A 63 D70
ADJ HSK A 100 D70

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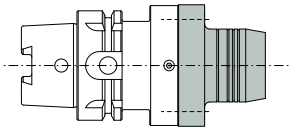

ADJ DIN69871 40 D70
ADJ DIN69871 50 D70
ADJ BT40 D70
ADJ BT50 D70

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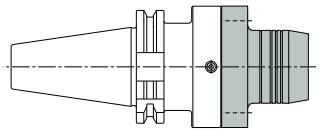
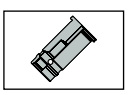



1085


937

Spare Parts

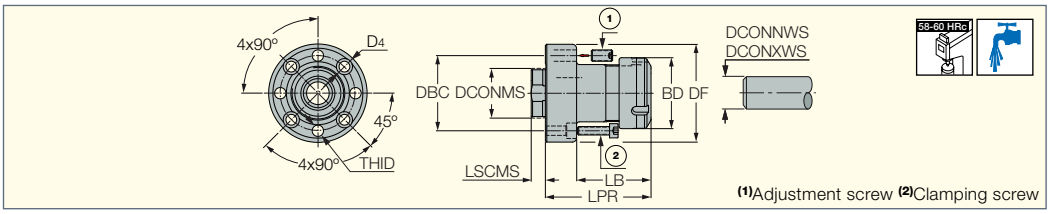
Designation		
ADJ HYDRO	WRENCH HYDRO HEX 4*	HYDRO CLAMP SCREW M8X14

* Optional, should be ordered separately

FINEFIT

ADJ ER NOSE

Radial and Angular Adjustable Collet Chuck Flanges



Designation	DCONNWS(1)	DCONXWS(2)	LPR	LB	LSCMS	BD	DF	DBC	DCONMS	D4	THID
ADJ ER32 NOSE	2.0	20.0	75.00	53.0	10.00	50.00	70.00	53.00	35.00	6.60	M8x1

(1) Minimum diameter
(2) Maximum diameter

Spare Parts

1 - Adjustment screw
2 - Clamping screw

Designation

ADJ ST25 D70
ADJ ST32 D70

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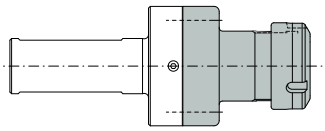

ADJ HSK A 63 D70
ADJ HSK A 100 D70

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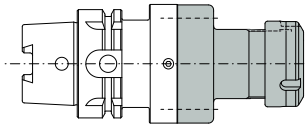

ADJ DIN69871 40 D70
ADJ DIN69871 50 D70
ADJ BT40 D70
ADJ BT50 D70

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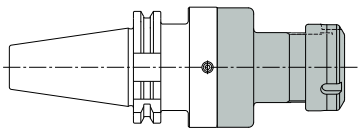
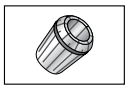



1065-1069


932, 1063-1065

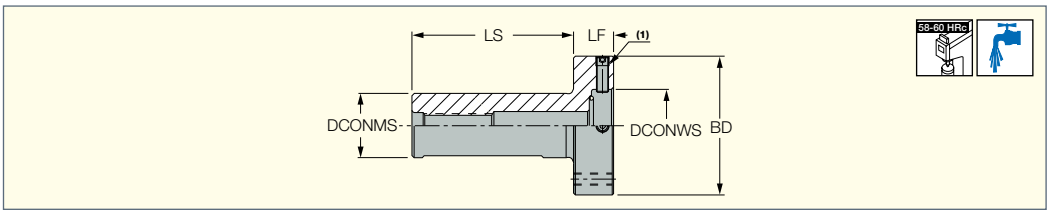
Spare Parts

Designation				
ADJ ER NOSE	NUT ER32 TOP	ADJUST SPACER 9.5X5	PRESET ER-JET 22X1.5	SR M8X1X16 DIN916

Straight Shank

ADJ ST

FINEFIT Center Alignment Shank and Base with Cylindrical Shanks with a Clamping Flat



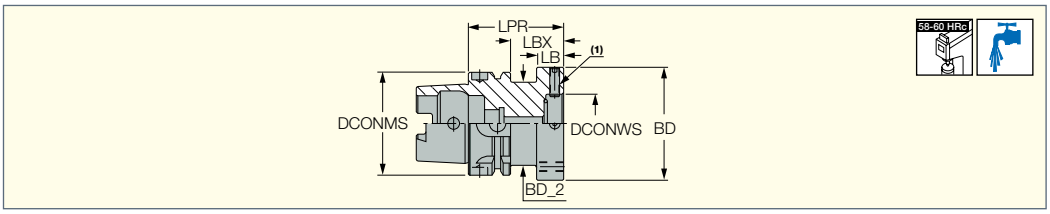
Designation	DCONMS	LF	LS	BD	DCONWS			
ADJ ST25 D70	25.00	20.00	80.00	70.00	35.00	SR M8X1X16 DIN916	SR M6X30 DIN912	OR 21X4N
ADJ ST32 D70	32.00	20.00	80.00	70.00	35.00	SR M8X1X16 DIN916	SR M6X30 DIN912	OR 21X4N

• (1) Use 4 mm hex key for screw adjustment.

HSK FINEFIT

ADJ HSK A

FINEFIT Center Alignment Shank and Base with a DIN69893 HSK Tapered Shank for Specially Tailored Toolholders



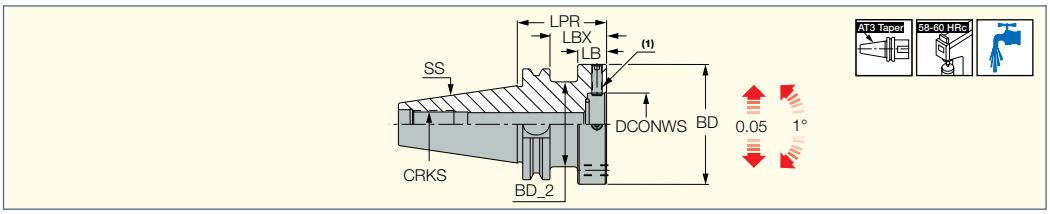
Designation	DCONMS	LPR	LBX	LB	DCONWS	BD	BD_2	kg			
ADJ HSK A63 D70	63.00	60.00	34.0	18.00	35.00	70.00	46.00	1.24	SR M8X1X16 DIN916	SR M6X30 DIN912	OR 21X4N
ADJ HSK A100 D70	100.00	55.00	26.0	-	35.00	70.00	-	2.63	SR M8X1X16 DIN916	SR M6X30 DIN912	OR 21X4N

• (1) Use 4 mm hex key for screw adjustment. • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

DIN69871

ADJ DIN69871

FINEFIT Center Alignment Shank and Base with a DIN 69871 Form AD Taper Shank for Specially Tailored Toolholders



Designation	SS	DCONWS	LPR	LBX	LB	BD	BD_2	CRKS	kg
ADJ DIN69871 40 D70	40	35.00	50.00	30.9	15.00	70.00	46.00	M16	1.28
ADJ DIN69871 50 D70	50	35.00	50.00	30.9	-	70.00	-	M24	3.32

• (1) Use 4 mm hex key for screw adjustment.

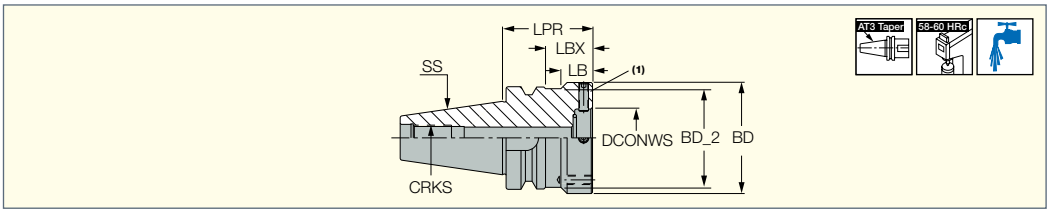
Spare Parts

Designation			
ADJ DIN69871	SR M8X1X16 DIN916	SR M6X30 DIN912	OR 21X4N

BT MAS

ADJ BT

Center Alignment Shanks and Bases with BT MAS-403 ADB Tapered Shanks for Specially Tailored Toolholders



Designation	SS	LPR	LBX	LB	BD	BD_2	DCONWS	CRKS	kg
ADJ BT40 D70	40	55.00	28.0	18.00	70.00	62.50	35.00	M16	1.56
ADJ BT50 D70	50	70.00	32.0	-	70.00	-	35.00	M24	4.34

• (1) Use 4 mm hex key for screw adjustment. • Add B to the designation for coolant through flange option.

Spare Parts

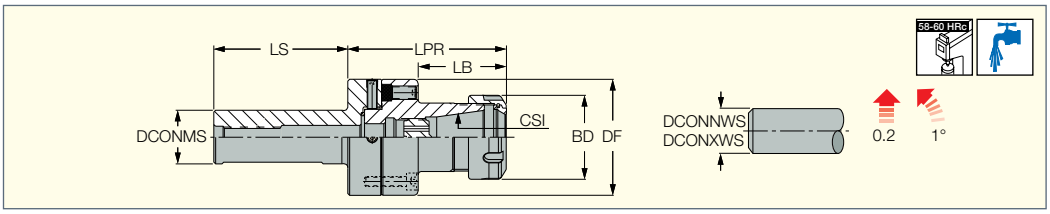
Designation			
ADJ BT	SR M8X1X16 DIN916	SR M6X30 DIN912	OR 21X4N

Straight Shank

FINEFIT

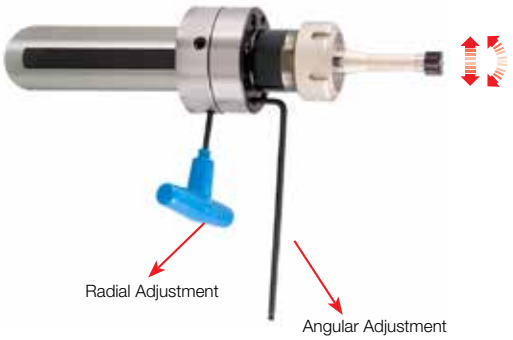
ADJ ST-ER

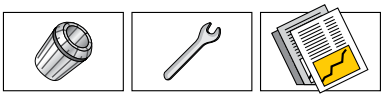
FINEFIT DIN 6499 ER Collet Chucks with Center Alignment and Cylindrical Shanks with a Clamping Flat



Designation	DCONMS	CSI	DCONNWS(1)	DCONXWS(2)	LPR	LB	LS	BD	DF	kg
ADJ ST25 D70 ER32	25.00	ER32	2.0	20.0	94.50	52.5	80.00	50.00	70.00	1.74
ADJ ST32 D70 ER32	32.00	ER32	2.0	20.0	94.50	52.5	80.00	50.00	70.00	1.91

• Radial adjustment 0.2 mm Angular adjustment 1°
(1) Minimum diameter
(2) Maximum diameter





1065-1069 1102 933, 1063-1065

Spare Parts

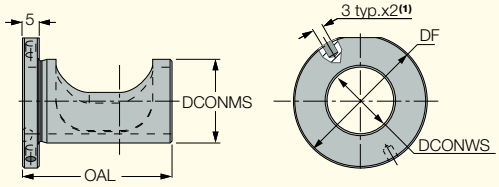
Designation						
ADJ ST-ER	NUT ER32 TOP*	ADJUST SPACER 9.5X5	PRESET ER-JET 22X1.5	SR M8X1X16 DIN916	SR M6X30 DIN912	ADJ ER32 NOSE

* Optional, should be ordered separately

Accessories

Drilling Eccenter Sleeves

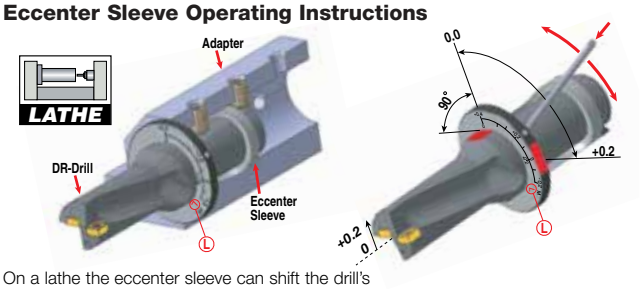
Bushings for Enlarging or Reducing DR Nominal Drilling Diameters by Shifting the Drill Off-Center



Designation	DCONWS	DCONMS	DF	OAL
ECCENTER SLEEVE 20X25	20.00	25.00	40.00	44.00
ECCENTER SLEEVE 25X32	25.00	32.00	50.00	46.00
ECCENTER SLEEVE 32X40	32.00	40.00	65.00	55.00
ECCENTER SLEEVE 40X50	40.00	50.00	75.00	77.00

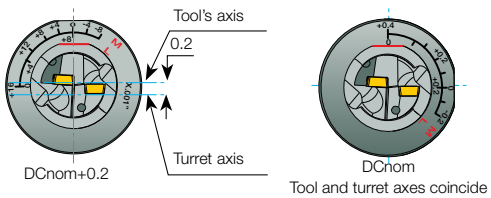
• (1) Holes for inserting a pin, used to facilitate radial adjustment of the sleeve (pin not supplied)

Eccenter Sleeve Operating Instructions

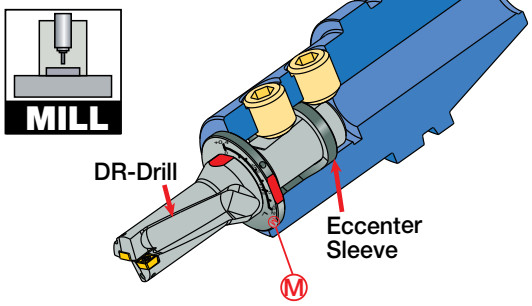


On a lathe the eccenter sleeve can shift the drill's axis to coincide with the spindle axis.
The eccentric sleeve enables alignment of the drill's axis with the spindle axis within a 0.2 mm range (turn the sleeve counterclockwise to raise it).

Operation on a Lathe

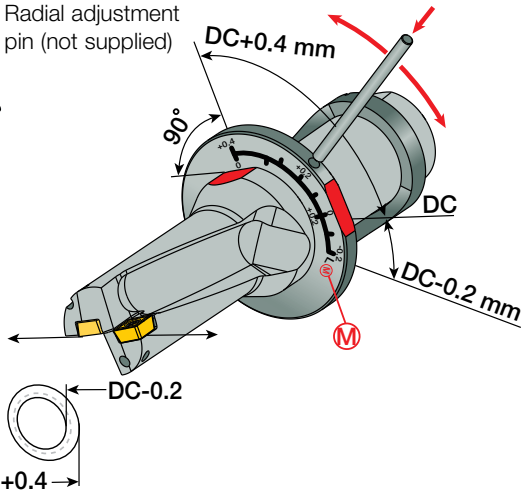


On a milling machine the drill's nominal diameter can be changed by shifting the drill's axis out of the tool spindle.

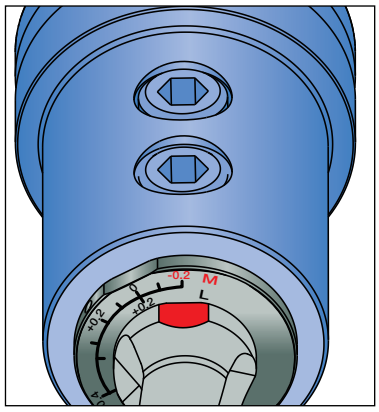


To enlarge the diameter, turn the sleeve clockwise.

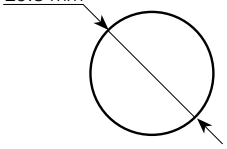
Radial adjustment pin (not supplied)



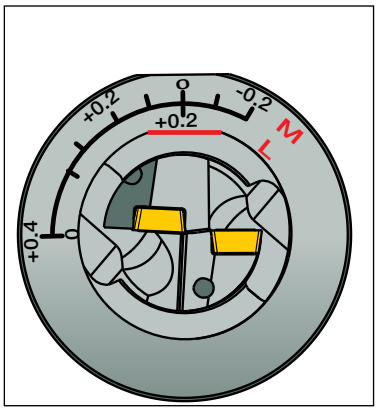
Operation on a Milling Machine



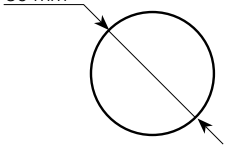
Hole Diameter
29.8 mm



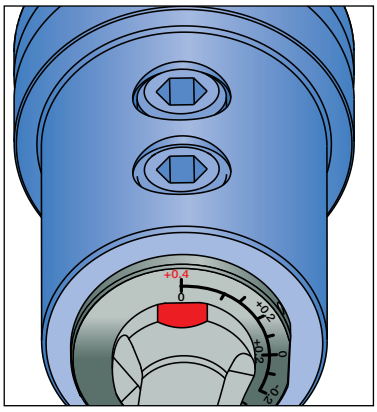
Drill Diameter = 30 mm



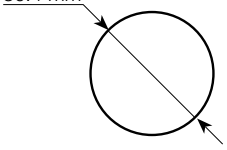
Hole Diameter
30 mm



Drill Diameter = 30 mm

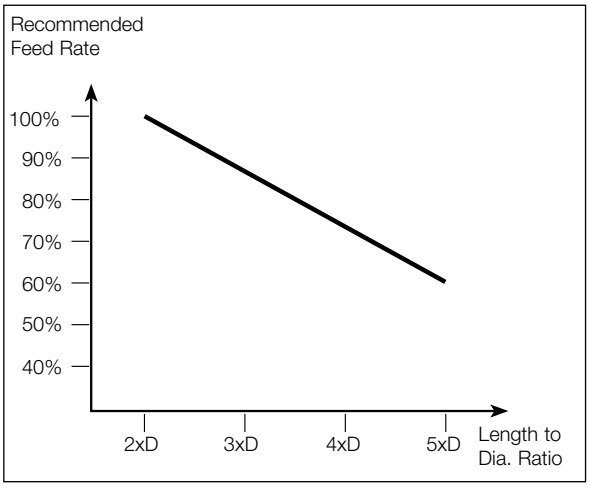


Hole Diameter
30.4 mm



Drill Diameter = 30 mm

Recommended Feed When Using Eccenter Sleeves



The adjustment markings should be located perpendicular to the flat on the circumference of the **DR** flange.

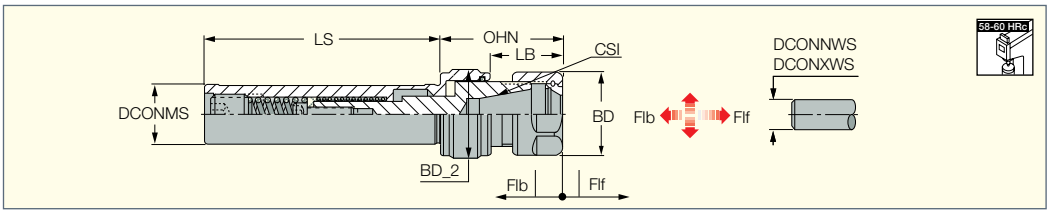
To facilitate the rotation of the sleeve, a metal rod or a screw key may be inserted into a hole on the eccentric sleeve flange. Unlock adapter screw before adjusting sleeve.

TAPPING & REAMING DEVICES

Straight Shank GTI

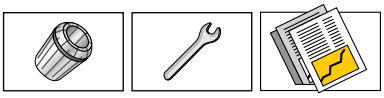
GTI ER-ST (tapping)

DIN 6499 ER Tapping Attachments with Straight Shanks



Designation	DCONMS	CSI	Tap min	Tap max	DCONNWS(2)	DCONXWS(3)	BD	BD_2	LB	OHN(4)	LS	Flf	Flb	kg
GTI ER11 ST16X150 M (1)	16.00	ER11	M2	M7	0.5	7.0	16.00	-	19.0	-	150.00	6.0	3.0	0.00
GTI ER16 ST20X80	20.00	ER16	M3	M10	0.5	10.0	28.00	29.50	24.6	41.60	80.00	8.0	3.0	0.00
GTI ER20 ST20X80	20.00	ER20	M4	M14	1.0	13.0	34.00	33.50	28.0	49.00	80.00	8.0	3.0	0.35
GTI ER25 ST25X80	25.00	ER25	M5	M16	1.0	16.0	42.00	40.50	32.0	53.00	80.00	9.0	4.0	0.55
GTI ER32 ST25X80	25.00	ER32	M6	M20	1.0	16.0	50.00	56.50	32.0	77.20	80.00	9.0	4.0	1.16
GTI ER40 ST32X80	32.00	ER40	M6	M27	2.0	20.0	63.00	56.50	51.0	95.20	80.00	9.0	4.0	1.66

(1) Without a clamping flat
(2) Minimum diameter
(3) Maximum diameter
(4) Minimum overhang



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Spare Parts

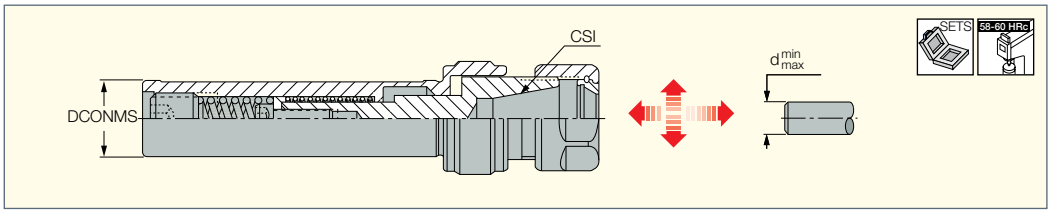
Designation		
GTI ER11 ST16X150 M	NUT ER11 MINI	
GTI ER16 ST20X80	NUT ER16 TOP	WRENCH ER16*
GTI ER20 ST20X80	NUT ER20 TOP	WRENCH ER20*
GTI ER25 ST25X80	NUT ER25 TOP	WRENCH ER25*
GTI ER32 ST25X80	NUT ER32 TOP	WRENCH ER32*
GTI ER40 ST32X80	NUT ER40 TOP	WRENCH ER40*

* Optional, should be ordered separately

Straight Shank GTI

KIT GTI ER-ST

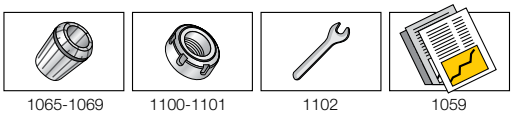
Contains a DIN 6499 ER Tapping Attachment with a Straight Shank and a Set of Spring Collets in Various Bore Sizes



Designation	DCONMS	CSI	d Range
KIT GTI ER11 ST16X150 4M	16	ER11	3,4,5,6
KIT GTI ER16 ST20X80 4	20	ER16	4,5,6,7
KIT GTI ER20 ST20X80 4	20	ER20	5,6,8,9
KIT GTI ER25 ST25X80 5	25	ER25	6,7,9,11,12
KIT GTI ER32 ST25X80 6	32	ER32	6,7,9,11,12,16

• Kit includes GTI,collets and wrench.

Kit GTI ER11
Tapping Attachment Kit

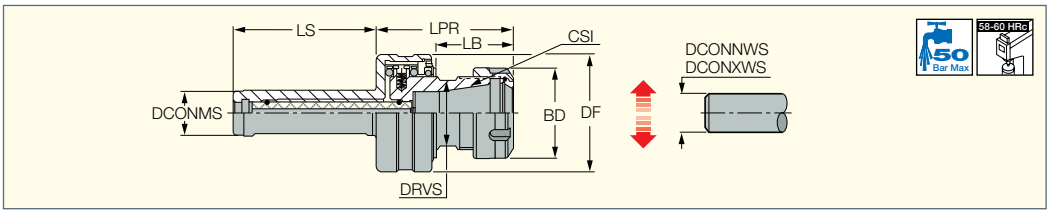


1065-1069 1100-1101 1102 1059

Straight Shank GFI

GFI ST-ER

Floating Reamer DIN 6499
Collet Chucks with Cylindrical Shanks with a Clamping Flat

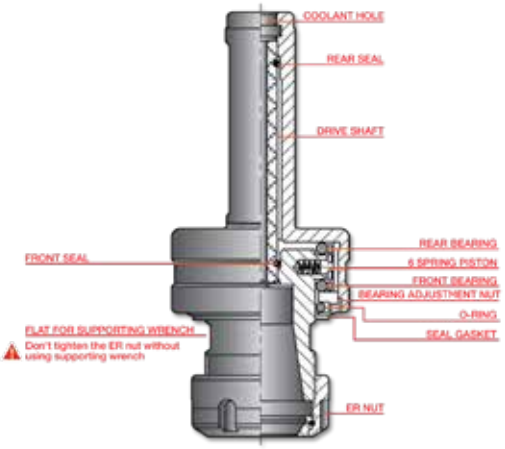


Designation	DCONMS	CSI	DCONNWS(3)	DCONXWS(4)	LS	LPR	LB	BD	DF	RFI	DRVS(5)	kg
GFI ST20 ER20 (1)	20.00	ER20	1.0	13.0	65.00	55.50	31.0	34.00	50.00	1.00	22.0	0.56
GFI ST25 ER32 (2)	25.00	ER32	2.0	20.0	80.00	76.90	45.9	50.00	65.00	1.60	36.0	1.20

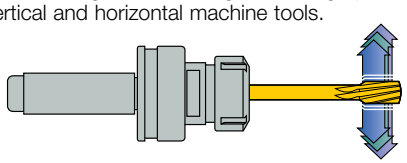
• Maximum 2000 RPM!
(1) Radial float 1 mm
(2) Radial float 1.6 mm
(3) Minimum diameter
(4) Maximum diameter
(5) Key flat size

GFI ER - Floating Reamer Collet Chuck

Floating chuck - adjusts the misalignment between the reamer and workpiece hole to ensure the same accuracy as the reamer itself.



Application:
The GFI floating chuck is a unique holder that compensates for the radial misalignment existing in reaming operations carried out on vertical and horizontal machine tools.

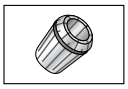


Features:

Radial self floating mechanism compensates for misalignment between the reamer and workpiece to ensure the same tolerance as the reamer itself.
The special self-centering mechanism eliminates tapered and oversized bores.

Advantages:

Unique ball bearing and axle drive shaft structure enables vertical and horizontal machining.
Precise and efficient clamping with ER spring collets or ER COOLIT collets.



1065-1069

Spare Parts

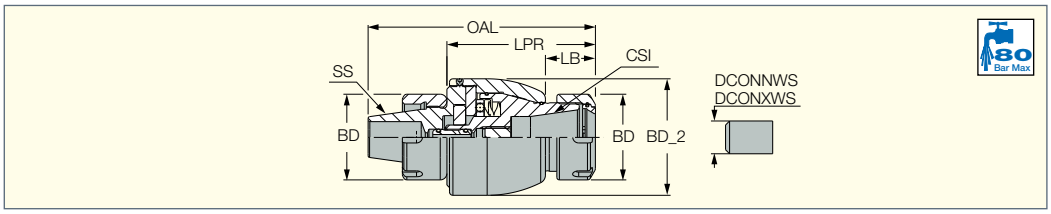
Designation		
GFI ST20 ER20	NUT ER20 TOP	WRENCH ER20*
GFI ST25 ER32	NUT ER32 TOP	WRENCH ER32*

* Optional, should be ordered separately

ER Collet GFI

GFIS ER-ER

Floating Reamer ER Collet Chuck with ER Shank for High Speed Cutting Reamers



Designation	CSI	DCONNWS(1)	DCONXWS	OAL	LPR	LB	BD	BD_2	SS	RFI(2)	kg
GFIS ER32X70-ER32	32	12.00	20.00	133.00	87.00	29.50	50.00	68.00	ER32	0.22	1.69

• ! Maximum 5000 RPM • Angular floating range 1.0° • For Reaming 12-20 mm shank diameter range only

(1) Minimum diameter

(2) Radial floating range

1065-1069 1100-1101 1102

Spare Parts

Designation			
GFIS ER-ER	NUT ER32 TOP	PRESET ER-JET 12X1.75	SR M4X4 DIN913

GTI / GTIN - Tapping Attachment

GTIN ER32 – Tapping Collet

Compact tapping collet with tension and compression floating mechanism for **ER32** collet chucks

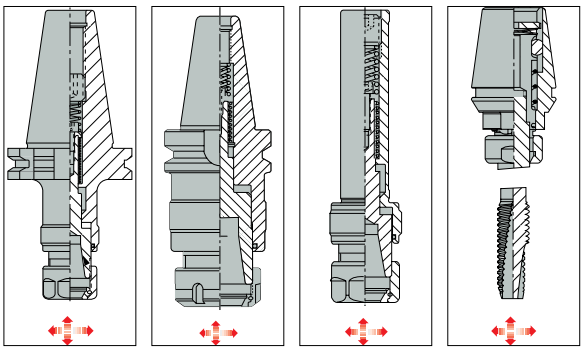
A tapping collet for standard and rigid tapping operations. The **GTIN ER32** collet makes tap removal and replacement easy, quick and reliable. Designed for stationary and rotating applications, the **GTIN ER32** collets are economical and efficient due to the ability to use existing **ER32** collet chucks (with various shank sizes and types).

Applications

The **GTIN ER32** tapping collet is designed especially for **CNC** mill/turn centers, for regular and rigid tapping.

Advantages

- Quick tap change by a front clamping nut
- Compact design for minimal clearance between the turret and chuck
- Fits every type of stationary and rotating **ER32** collet chuck
- Positive tap drive with internal square driver
- Compensates for machine feed and tap pitch variance, resulting in greater thread accuracy
- Floating mechanism compensates for misalignment between tap and workpiece
- High accuracy due to tension and compression mechanism
- Available for all tap shank standards (**DIN**, **ISO**, **ANSI**, **JIS**)
- Tapping range **M1**-**M16** (#0 to 5/8")
- Saves setup time by quick tap changing without removing **GTIN** from the machine
- Optimal for machines which have limited space between turret and workpiece



GTI DIN69871 Page 956

BT MAS-403 Page 1029

Straight Shank Page 1056

GTIN Page 1060

Description

Short tap chucks for **ER** collets.

Applications

Axial float/tension/compression type for **CNC** milling machines and lathes with reversing motors and rigid tapping.

Features

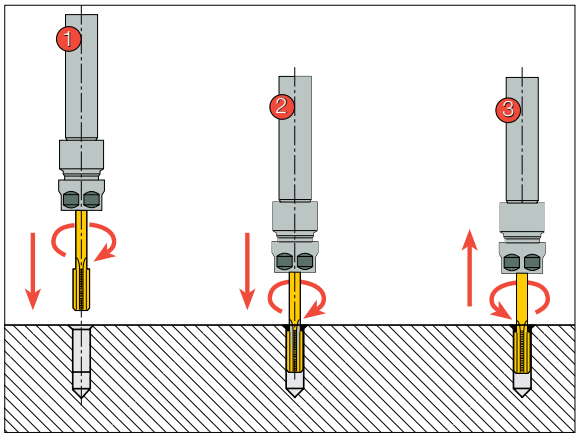
- Compensates for machine feed and tap pitch variance
- Floating mechanism compensates for misalignment between tap and workpiece
- Right- and left-hand tapping

Advantages

- Practical and efficient tap holding by the **ER** spring collet without using jaw drive
- Compact design for minimal clearance applications
- Heavy duty design for high torque drive ensures the same accuracy as the tap itself

Operation

For through- and blind-hole tapping:

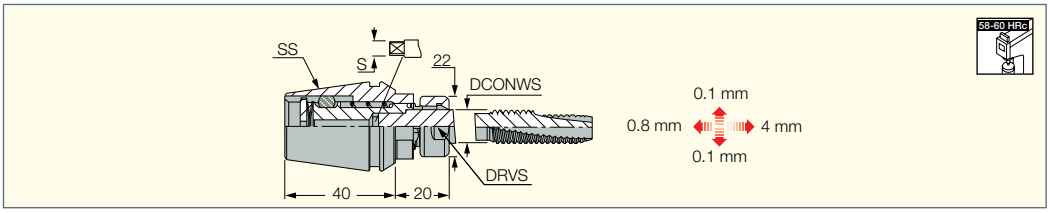


1. Enter feed rate according to thread pitch (or 1-2 % lower). Set spindle to starting point with 0.08 clearance.
2. Start spindle forward with right hand rotation until reaching desired depth.
3. Stop feed and rotation and reverse to starting point.

GTIN

GTIN ER-ISO (tapping)

ER Collet Tapping Attachments, Tension and Compression ISO Type for CNC Milling and Turret Lathe Machines



Designation	SS	DCONWS	S	Tap min	Tap max	DRVS(1)	kg
GTIN ER32 ISO 2.24X1.80	ER32	2.24	1.80	M3	M3	20.0	0.22
GTIN ER32 ISO 2.50X2.00	ER32	2.50	2.00	M3.5	M3.5	20.0	0.26
GTIN ER32 ISO 2.80X2.24	ER32	2.80	2.24	M2.2	M2.5	20.0	0.22
GTIN ER32 ISO 3.15X2.50	ER32	3.15	2.50	M3	M4	20.0	0.23
GTIN ER32 ISO 3.55X2.80	ER32	3.55	2.80	M3.5	M4.5	20.0	0.22
GTIN ER32 ISO 4.00X3.15	ER32	4.00	3.15	M4	M5	20.0	0.22
GTIN ER32 ISO 4.50X3.55	ER32	4.50	3.55	M6	M6	20.0	0.22
GTIN ER32 ISO 5.00X4.00	ER32	5.00	4.00	M5	M5	20.0	0.22
GTIN ER32 ISO 5.60X4.50	ER32	5.60	4.50	UNC#12-24	UNC (ONLY)	20.0	0.23
GTIN ER32 ISO 6.30X5.00	ER32	6.30	5.00	M6	M8	20.0	0.22
GTIN ER32 ISO 7.10X5.60	ER32	7.10	5.60	UNC#3/8-16	UNC (ONLY)	20.0	0.20
GTIN ER32 ISO 8.00X6.30	ER32	8.00	6.30	M8	M10	20.0	0.21
GTIN ER32 ISO 9.00X7.10	ER32	9.00	7.10	M12	M12	20.0	0.21
GTIN ER32 ISO 10.00X8.00	ER32	10.00	8.00	M10	M10	20.0	0.20
GTIN ER32 ISO 11.20X9.00	ER32	11.20	9.00	M14	M14	20.0	0.21
GTIN ER32 ISO 12.50X10.00	ER32	12.50	10.00	M16	M16	20.0	0.20

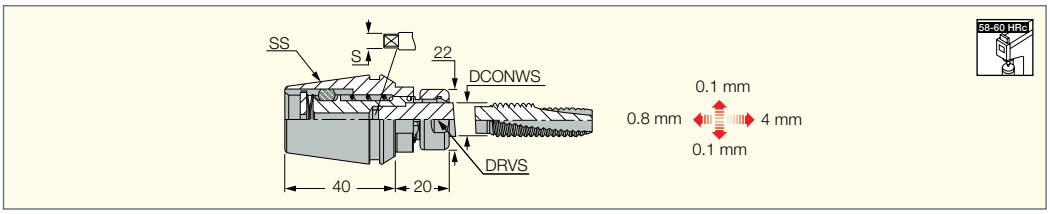
• No coolant should be induced through the tapping collet as it will cause malfunction of the mechanism • Compensates for machine feed and tap pitch variance • Floating mechanism compensates for misalignment between tap and workpiece • Hard start for rigid tapping • When a rigid ER collet is assembled in an ER holder, the actual protruding length of the holder becomes shorter by 2.0 mm for ER20 and by 3.0 mm for ER25/ER32

(1) Key flat size

GTIN

GTIN ER-DIN (tapping)

ER Collet Tapping Attachments, Tension and Compression DIN Type for CNC Milling and Turret Lathe Machines



Designation	SS	DCONWS	S	Tap min	Tap max	DRVS(1)	kg
GTIN ER32 DIN 2.50X2.10	ER32	2.50	2.10	M1	M1.8	20.0	0.20
GTIN ER32 DIN 2.80X2.10	ER32	2.80	2.10	M2	M4	20.0	0.22
GTIN ER32 DIN 3.50X2.70	ER32	3.50	2.70	M3	M5	20.0	0.22
GTIN ER32 DIN 4.00X3.00	ER32	4.00	3.00	M3.5	M3.5	20.0	0.21
GTIN ER32 DIN 4.50X3.40	ER32	4.50	3.40	M4	M6	20.0	0.20
GTIN ER32 DIN 6.00X4.90	ER32	6.00	4.90	M5	M8	20.0	0.20
GTIN ER32 DIN 7.00X5.50	ER32	7.00	5.50	M7	M10	20.0	0.20
GTIN ER32 DIN 8.00X6.20	ER32	8.00	6.20	M8	M8	20.0	0.20
GTIN ER32 DIN 9.00X7.00	ER32	9.00	7.00	M12	M12	20.0	0.22
GTIN ER32 DIN 10.00X8.00	ER32	10.00	8.00	M10	M10	20.0	0.22
GTIN ER32 DIN 11.00X9.00	ER32	11.00	9.00	M14	M14	20.0	0.21
GTIN ER32 DIN 12.00X9.00	ER32	12.00	9.00	M16	M16	20.0	0.20

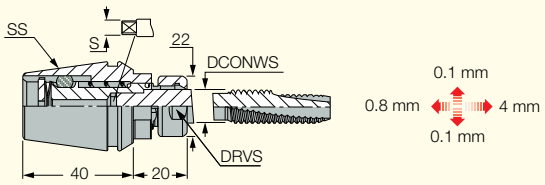
• No coolant should be induced through the tapping collet as it will cause malfunction of the mechanism • Compensates for machine feed and tap pitch variance • Floating mechanism compensates for misalignment between tap and workpiece • Hard start for rigid tapping • When a rigid ER collet is assembled in an ER holder, the actual protruding length of the holder becomes shorter by 2.0 mm for ER20 and by 3.0 mm for ER25/ER32

(1) Key flat size

GTIN

GTIN ER-JIS (tapping)

ER Collet Tapping Attachments, Tension and Compression JIS Type for CNC Milling and Turret Lathe Machines



Designation	SS	DCONWS	S	Tap min	Tap max	DRVS(1)	kg
GTIN ER32 JIS 3.00X2.50	ER32	3.00	2.50	M1	M2.6	20.0	0.21
GTIN ER32 JIS 4.00X3.20	ER32	4.00	3.20	M3	M3.5	20.0	0.21
GTIN ER32 JIS 5.00X4.00	ER32	5.00	4.00	M4	M4	20.0	0.21
GTIN ER32 JIS 5.50X4.50	ER32	5.50	4.50	M5	M5	20.0	0.22
GTIN ER32 JIS 6.00X4.50	ER32	6.00	4.50	M6	M6	20.0	0.22
GTIN ER32 JIS 6.20X5.00	ER32	6.20	5.00	M8	M8	20.0	0.22
GTIN ER32 JIS 7.00X5.50	ER32	7.00	5.50	M10	M10	20.0	0.21
GTIN ER32 JIS 8.50X6.50	ER32	8.50	6.50	M12	M12	20.0	0.20
GTIN ER32 JIS 10.50X8.00	ER32	10.50	8.00	M14	M14	20.0	0.20
GTIN ER32 JIS 12.50X10.00	ER32	12.50	10.00	M16	M16	20.0	0.20

• No coolant should be induced through the tapping collet as it will cause malfunction of the mechanism • Compensates for machine feed and tap pitch variance • Floating mechanism compensates for misalignment between tap and workpiece • Hard start for rigid tapping • When a rigid ER collet is assembled in an ER holder, the actual protruding length of the holder becomes shorter by 2.0 mm for ER20 and by 3.0 mm for ER25/ER32

(1) Key flat size

ER, SC & SHRINK COLLETS

Shanks

HSK DIN 69893 Form A/E

CAMFIX DIN 26623-1

BT MAS-403

DIN 69871

ISO A.N.S.I B5.18-DIN 2080

ST Straight Shank

MT Morse Taper

Collet Options

ER-SPR

ER-SEAL

ER-SEAL JET2

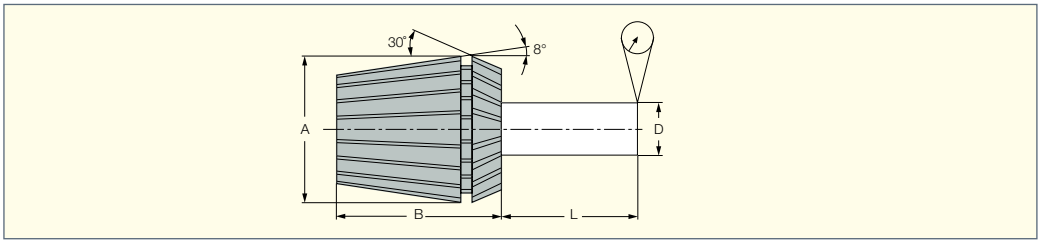
ER-SRK

GTIN ER32

ER-ODP

ER Collet

Standard
ER Collet Type DIN 6499



Basic Dimensions

Type	A	B
ER-11	11.5	18
ER-16	17	27
ER-20	21	31
ER-25	26	35
ER-32	33	40
ER-40	41	46
ER-50	52	60

Concentricity Tolerances

L mm	D mm	Standard Precision	AA Ultra Precision	DIN 6499
6	1.0-1.6	0.01	0.005	
10	1.6-3.0	0.01	0.005	0.015
16	3.0-6.0	0.01	0.005	0.015
25	6.0-10.0	0.01	0.005	0.015
40	10.0-18.0	0.01	0.005	0.020
50	18.0-26.0	0.01	0.005	0.020
60	26.0-34.0			0.025

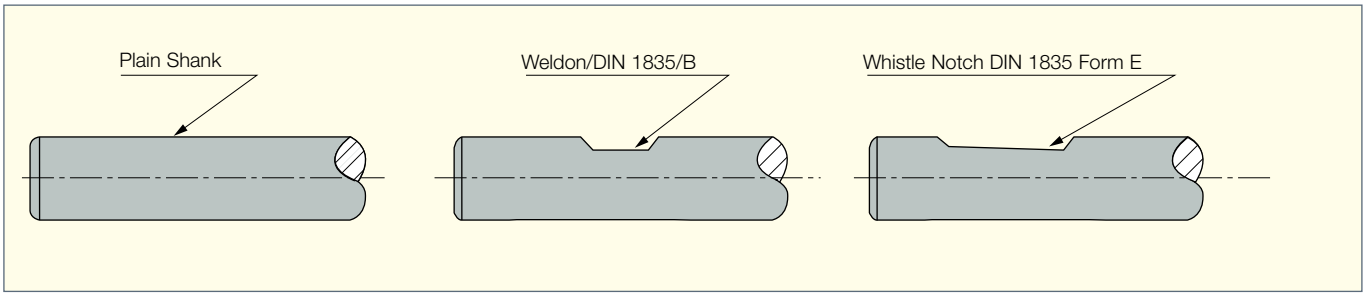
ER - Coolit Sealed Collet

Two Types

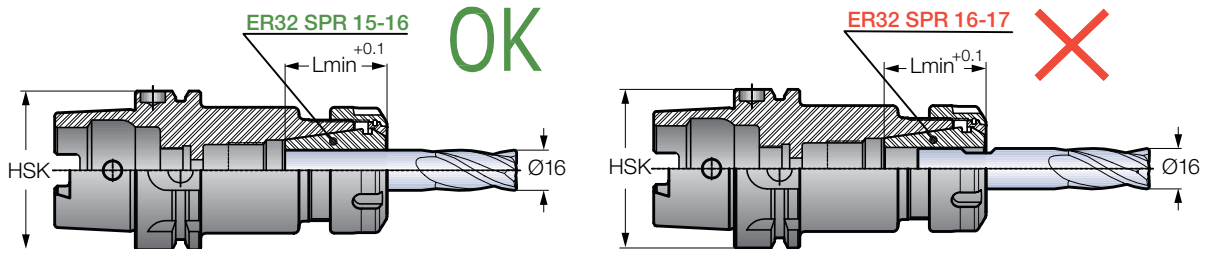
Sealed Collet Jet
For straight shank cutting tools with internal coolant supply.

Sealed Collet jet2
With angular double nozzles. Coolant flow is direct to the cutting edge - for use with standard straight shank cutting tools (without coolant hole).

Standard Shank for Use in Sealed Collets



Note: The front end of the sealed collet should be located beyond the Weldon or the whistle notch.



ER - Top Clamping Nut for DIN 6499 Collets

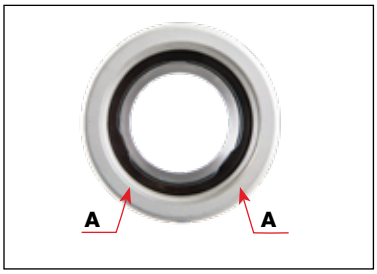
Description

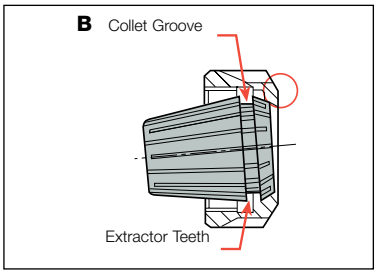
Friction bearing **ER** nut is a nut with a unique two-piece exclusive friction mechanism, combining radial and angular self-centering movements.

Features

- Unique two-piece friction bearing
- Radial and angular float for better concentricity
- Powerful gripping force, 50-100% higher than the standard **ER** nut due to the friction bearing mechanism
- Balanced for higher spindle spin due to unique extractor teeth design
- Compact design - general dimensions and size range are the same as the standard nut
- Designed for use with sealed collets

Always assemble the collet into the nut before mounting onto the collet chuck.





C

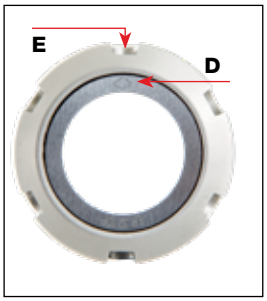
Important: Never insert the collet parallel to the extractor ring. Doing this will chip or break the extractor's teeth. When unclamping the nut, the collet will self-release from the chuck by means of extractor teeth.

Extraction Procedure

1. Align the engraved diamond shape which is on the silver ring **(D)**, with any of the key slots **(E)** of the nut.
2. Place the nut with the collet facing down on a clean and horizontal work surface.
3. Insert a screwdriver vertically between the nut slots and the collet on the reverse side of the engraved diamond shape **(D)**.
4. Tilt the screwdriver outwards, while helping the extraction by pushing the collet's back end in the opposite direction **(F)**.

Insertion Procedure

1. Insert the collet at an angle, fitting the two extractor teeth which protrude **(A)** into the collet's groove **(B)**.
2. Place the two parts on a clean and horizontal work surface.
3. Press down with your thumb on the back end of the collet until it clicks into place **(C)**.



Nut type	Kgxm
ER-11	5
ER-11M	3
ER-16	7
ER-16M	4
ER-20	12
ER-20M	8
ER-25	20
ER-32	22
ER-40	25
ER-50	35

Note:

For maximum performance the clamping nut thread and collet taper must be cleaned and oiled before use.

⚠ Recommended Clamping Torque for Standard ER & ER-Top Clamping Nut

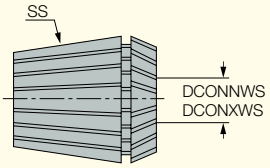
Important:

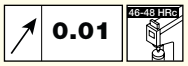
This torque is calculated with the maximum diameter capacity per collet which should be gradually reduced when used with a smaller shank size.

F

ER Collet

ER-SPR
DIN 6499 ER Spring Collets
with HARD TOUCH Coating

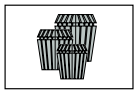




Designation	SS	DCONNWS(2)	DCONXWS(3)
ER11 SPR 0.5- 1	ER11	0.50	1.00
ER11 SPR 1-2	ER11	1.00	2.00
ER11 SPR 2-3	ER11	2.00	3.00
ER11 SPR 3-4	ER11	3.00	4.00
ER11 SPR 4-5	ER11	4.00	5.00
ER11 SPR 5-6	ER11	5.00	6.00
ER11 SPR 6-7	ER11	6.00	7.00
ER16 SPR 0.5-1	ER16	0.50	1.00
ER16 SPR 1-2	ER16	1.00	2.00
ER16 SPR 2-3	ER16	2.00	3.00
ER16 SPR 3-4 (1)	ER16	3.20	4.00
ER16 SPR 4-5	ER16	4.00	5.00
ER16 SPR 5-6	ER16	5.00	6.00
ER16 SPR 6-7	ER16	6.00	7.00
ER16 SPR 7-8	ER16	7.00	8.00
ER16 SPR 8-9	ER16	8.00	9.00
ER16 SPR 9-10	ER16	9.00	10.00
ER20 SPR 1-2	ER20	1.00	2.00
ER20 SPR 2-3	ER20	2.00	3.00
ER20 SPR 3-4	ER20	3.00	4.00
ER20 SPR 4-5	ER20	4.00	5.00
ER20 SPR 5-6	ER20	5.00	6.00
ER20 SPR 6-7	ER20	6.00	7.00
ER20 SPR 7-8	ER20	7.00	8.00
ER20 SPR 8-9	ER20	8.00	9.00
ER20 SPR 9-10	ER20	9.00	10.00
ER20 SPR 10-11	ER20	10.00	11.00
ER20 SPR 11-12	ER20	11.00	12.00
ER20 SPR 12-13	ER20	12.00	13.00
ER25 SPR 1-2	ER25	1.00	2.00
ER25 SPR 2-3	ER25	2.00	3.00
ER25 SPR 3-4	ER25	3.00	4.00
ER25 SPR 4-5	ER25	4.00	5.00
ER25 SPR 5-6	ER25	5.00	6.00
ER25 SPR 6-7	ER25	6.00	7.00
ER25 SPR 7-8	ER25	7.00	8.00
ER25 SPR 8-9	ER25	8.00	9.00
ER25 SPR 9-10	ER25	9.00	10.00
ER25 SPR 10-11	ER25	10.00	11.00
ER25 SPR 11-12	ER25	11.00	12.00
ER25 SPR 12-13	ER25	12.00	13.00
ER25 SPR 13-14	ER25	13.00	14.00
ER25 SPR 14-15	ER25	14.00	15.00
ER25 SPR 15-16	ER25	15.00	16.00
ER32 SPR 2-3	ER32	2.00	3.00
ER32 SPR 3-4	ER32	3.00	4.00
ER32 SPR 4-5	ER32	4.00	5.00
ER32 SPR 5-6	ER32	5.00	6.00
ER32 SPR 6-7	ER32	6.00	7.00

Designation	SS	DCONNWS(2)	DCONXWS(3)
ER32 SPR 7-8	ER32	7.00	8.00
ER32 SPR 8-9	ER32	8.00	9.00
ER32 SPR 9-10	ER32	9.00	10.00
ER32 SPR 10-11	ER32	10.00	11.00
ER32 SPR 11-12	ER32	11.00	12.00
ER32 SPR 12-13	ER32	12.00	13.00
ER32 SPR 13-14	ER32	13.00	14.00
ER32 SPR 14-15	ER32	14.00	15.00
ER32 SPR 15-16	ER32	15.00	16.00
ER32 SPR 16-17	ER32	16.00	17.00
ER32 SPR 17-18	ER32	17.00	18.00
ER32 SPR 18-19	ER32	18.00	19.00
ER32 SPR 19-20	ER32	19.00	20.00
ER40 SPR 3-4	ER40	3.00	4.00
ER40 SPR 4-5	ER40	4.00	5.00
ER40 SPR 5-6	ER40	5.00	6.00
ER40 SPR 6-7	ER40	6.00	7.00
ER40 SPR 7-8	ER40	7.00	8.00
ER40 SPR 8-9	ER40	8.00	9.00
ER40 SPR 9-10	ER40	9.00	10.00
ER40 SPR 10-11	ER40	10.00	11.00
ER40 SPR 11-12	ER40	11.00	12.00
ER40 SPR 12-13	ER40	12.00	13.00
ER40 SPR 13-14	ER40	13.00	14.00
ER40 SPR 14-15	ER40	14.00	15.00
ER40 SPR 15-16	ER40	15.00	16.00
ER40 SPR 16-17	ER40	16.00	17.00
ER40 SPR 17-18	ER40	17.00	18.00
ER40 SPR 18-19	ER40	18.00	19.00
ER40 SPR 19-20	ER40	19.00	20.00
ER40 SPR 20-21	ER40	20.00	21.00
ER40 SPR 21-22	ER40	21.00	22.00
ER40 SPR 22-23	ER40	22.00	23.00
ER40 SPR 23-24	ER40	23.00	24.00
ER40 SPR 24-25	ER40	24.00	25.00
ER40 SPR 25-26	ER40	25.00	26.00
ER50 SPR 10-12	ER50	10.00	12.00
ER50 SPR 12-14	ER50	12.00	14.00
ER50 SPR 14-16	ER50	14.00	16.00
ER50 SPR 16-18	ER50	16.00	18.00
ER50 SPR 18-20	ER50	18.00	20.00
ER50 SPR 20-22	ER50	20.00	22.00
ER50 SPR 22-24	ER50	22.00	24.00
ER50 SPR 24-26	ER50	24.00	26.00
ER50 SPR 26-28	ER50	26.00	28.00
ER50 SPR 28-30	ER50	28.00	30.00
ER50 SPR 30-32	ER50	30.00	32.00
ER50 SPR 32-34	ER50	32.00	34.00

(1) For shank diameter 3-3.1 use ER16 SPR 2-3
(2) Minimum diameter
(3) Maximum diameter

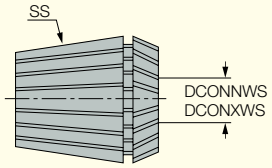


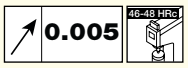
1080

ER Collet

ER-SPR-AA

DIN 6499 'AA' Ultra Precise
ER Spring Collets with
HARD TOUCH Coating

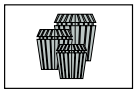




Designation	SS	DCONNWS(1)	DCONXWS(2)
ER11 SPR 0.5- 1 AA	ER11	0.50	1.00
ER11 SPR 1-2 AA	ER11	1.00	2.00
ER11 SPR 2-3 AA	ER11	2.00	3.00
ER11 SPR 3-4 AA	ER11	3.00	4.00
ER11 SPR 4-5 AA	ER11	4.00	5.00
ER11 SPR 5-6 AA	ER11	5.00	6.00
ER11 SPR 6-7 AA	ER11	6.00	7.00
ER16 SPR 0.5-1 AA	ER16	0.50	1.00
ER16 SPR 1-2 AA	ER16	1.00	2.00
ER16 SPR 2-3 AA	ER16	2.00	3.00
ER16 SPR 3-4 AA	ER16	3.00	4.00
ER16 SPR 4-5 AA	ER16	4.00	5.00
ER16 SPR 5-6 AA	ER16	5.00	6.00
ER16 SPR 6-7 AA	ER16	6.00	7.00
ER16 SPR 7-8 AA	ER16	7.00	8.00
ER16 SPR 8-9 AA	ER16	8.00	9.00
ER16 SPR 9-10 AA	ER16	9.00	10.00
ER20 SPR 1-2 AA	ER20	1.00	2.00
ER20 SPR 2-3 AA	ER20	2.00	3.00
ER20 SPR 3-4 AA	ER20	3.00	4.00
ER20 SPR 4-5 AA	ER20	4.00	5.00
ER20 SPR 5-6 AA	ER20	5.00	6.00
ER20 SPR 6-7 AA	ER20	6.00	7.00
ER20 SPR 7-8 AA	ER20	7.00	8.00
ER20 SPR 8-9 AA	ER20	8.00	9.00
ER20 SPR 9-10 AA	ER20	9.00	10.00
ER20 SPR 10-11 AA	ER20	10.00	11.00
ER20 SPR 11-12 AA	ER20	11.00	12.00
ER20 SPR 12-13 AA	ER20	12.00	13.00
ER25 SPR 1-2 AA	ER25	1.00	2.00
ER25 SPR 2-3 AA	ER25	2.00	3.00
ER25 SPR 3-4 AA	ER25	3.00	4.00
ER25 SPR 4-5 AA	ER25	4.00	5.00
ER25 SPR 5-6 AA	ER25	5.00	6.00
ER25 SPR 6-7 AA	ER25	6.00	7.00
ER25 SPR 7-8 AA	ER25	7.00	8.00
ER25 SPR 8-9 AA	ER25	8.00	9.00
ER25 SPR 9-10 AA	ER25	9.00	10.00
ER25 SPR 10-11 AA	ER25	10.00	11.00
ER25 SPR 11-12 AA	ER25	11.00	12.00
ER25 SPR 12-13 AA	ER25	12.00	13.00
ER25 SPR 13-14 AA	ER25	13.00	14.00
ER25 SPR 14-15 AA	ER25	14.00	15.00

Designation	SS	DCONNWS(1)	DCONXWS(2)
ER25 SPR 15-16 AA	ER25	15.00	16.00
ER32 SPR 2-3 AA	ER32	2.00	3.00
ER32 SPR 3-4 AA	ER32	3.00	4.00
ER32 SPR 4-5 AA	ER32	4.00	5.00
ER32 SPR 5-6 AA	ER32	5.00	6.00
ER32 SPR 6-7 AA	ER32	6.00	7.00
ER32 SPR 7-8 AA	ER32	7.00	8.00
ER32 SPR 8-9 AA	ER32	8.00	9.00
ER32 SPR 9-10 AA	ER32	9.00	10.00
ER32 SPR 10-11 AA	ER32	10.00	11.00
ER32 SPR 11-12 AA	ER32	11.00	12.00
ER32 SPR 12-13 AA	ER32	12.00	13.00
ER32 SPR 13-14 AA	ER32	13.00	14.00
ER32 SPR 14-15 AA	ER32	14.00	15.00
ER32 SPR 15-16 AA	ER32	15.00	16.00
ER32 SPR 16-17 AA	ER32	16.00	17.00
ER32 SPR 17-18 AA	ER32	17.00	18.00
ER32 SPR 18-19 AA	ER32	18.00	19.00
ER32 SPR 19-20 AA	ER32	19.00	20.00
ER40 SPR 3-4 AA	ER40	3.00	4.00
ER40 SPR 4-5 AA	ER40	4.00	5.00
ER40 SPR 5-6 AA	ER40	5.00	6.00
ER40 SPR 6-7 AA	ER40	6.00	7.00
ER40 SPR 7-8 AA	ER40	7.00	8.00
ER40 SPR 8-9 AA	ER40	8.00	9.00
ER40 SPR 9-10 AA	ER40	9.00	10.00
ER40 SPR 10-11 AA	ER40	10.00	11.00
ER40 SPR 11-12 AA	ER40	11.00	12.00
ER40 SPR 12-13 AA	ER40	12.00	13.00
ER40 SPR 13-14 AA	ER40	13.00	14.00
ER40 SPR 14-15 AA	ER40	14.00	15.00
ER40 SPR 15-16 AA	ER40	15.00	16.00
ER40 SPR 16-17 AA	ER40	16.00	17.00
ER40 SPR 17-18 AA	ER40	17.00	18.00
ER40 SPR 18-19 AA	ER40	18.00	19.00
ER40 SPR 19-20 AA	ER40	19.00	20.00
ER40 SPR 20-21 AA	ER40	20.00	21.00
ER40 SPR 21-22 AA	ER40	21.00	22.00
ER40 SPR 22-23 AA	ER40	22.00	23.00
ER40 SPR 23-24 AA	ER40	23.00	24.00
ER40 SPR 24-25 AA	ER40	24.00	25.00
ER40 SPR 25-26 AA	ER40	25.00	26.00

(1) Minimum diameter
(2) Maximum diameter

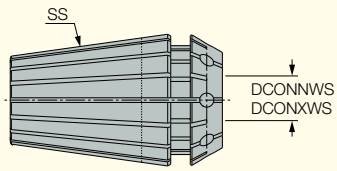


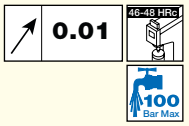
1080

ER Collet

ER-SEAL

DIN 6499 ER COOLIT, Sealed Spring Collets with HARD TOUCH Coating, for up to 100 Bar





Designation	SS	DCONNWS(1)	DCONXWS(2)
ER16 SEAL 3- 4	ER16	3.00	4.00
ER16 SEAL 4- 5	ER16	4.00	5.00
ER16 SEAL 5- 6	ER16	5.00	6.00
ER16 SEAL 6- 7	ER16	6.00	7.00
ER16 SEAL 7- 8	ER16	7.00	8.00
ER16 SEAL 8- 9	ER16	8.00	9.00
ER16 SEAL 9-10	ER16	9.00	10.00
ER20 SEAL 3-4	ER20	3.00	4.00
ER20 SEAL 4-5	ER20	4.00	5.00
ER20 SEAL 5-6	ER20	5.00	6.00
ER20 SEAL 6-7	ER20	6.00	7.00
ER20 SEAL 7-8	ER20	7.00	8.00
ER20 SEAL 8-9	ER20	8.00	9.00
ER20 SEAL 9-10	ER20	9.00	10.00
ER20 SEAL 10-11	ER20	10.00	11.00
ER20 SEAL 11-12	ER20	11.00	12.00
ER20 SEAL 12-13	ER20	12.00	13.00
ER25 SEAL 3-4	ER25	3.00	4.00
ER25 SEAL 4-5	ER25	4.00	5.00
ER25 SEAL 5-6	ER25	5.00	6.00
ER25 SEAL 6-7	ER25	6.00	7.00
ER25 SEAL 7-8	ER25	7.00	8.00
ER25 SEAL 8-9	ER25	8.00	9.00
ER25 SEAL 9-10	ER25	9.00	10.00
ER25 SEAL 10-11	ER25	10.00	11.00
ER25 SEAL 11-12	ER25	11.00	12.00
ER25 SEAL 12-13	ER25	12.00	13.00
ER25 SEAL 13-14	ER25	13.00	14.00
ER25 SEAL 14-15	ER25	14.00	15.00
ER25 SEAL 15-16	ER25	15.00	16.00
ER32 SEAL 3- 4	ER32	3.00	4.00
ER32 SEAL 4- 5	ER32	4.00	5.00
ER32 SEAL 5- 6	ER32	5.00	6.00
ER32 SEAL 6- 7	ER32	6.00	7.00
ER32 SEAL 7- 8	ER32	7.00	8.00
ER32 SEAL 8- 9	ER32	8.00	9.00

Designation	SS	DCONNWS(1)	DCONXWS(2)
ER32 SEAL 9-10	ER32	9.00	10.00
ER32 SEAL 10-11	ER32	10.00	11.00
ER32 SEAL 11-12	ER32	11.00	12.00
ER32 SEAL 12-13	ER32	12.00	13.00
ER32 SEAL 13-14	ER32	13.00	14.00
ER32 SEAL 14-15	ER32	14.00	15.00
ER32 SEAL 15-16	ER32	15.00	16.00
ER32 SEAL 16-17	ER32	16.00	17.00
ER32 SEAL 17-18	ER32	17.00	18.00
ER32 SEAL 18-19	ER32	18.00	19.00
ER32 SEAL 19-20	ER32	19.00	20.00
ER40 SEAL 3- 4	ER40	3.00	4.00
ER40 SEAL 4- 5	ER40	4.00	5.00
ER40 SEAL 5- 6	ER40	5.00	6.00
ER40 SEAL 6- 7	ER40	6.00	7.00
ER40 SEAL 7- 8	ER40	7.00	8.00
ER40 SEAL 8- 9	ER40	8.00	9.00
ER40 SEAL 9-10	ER40	9.00	10.00
ER40 SEAL 10-11	ER40	10.00	11.00
ER40 SEAL 11-12	ER40	11.00	12.00
ER40 SEAL 12-13	ER40	12.00	13.00
ER40 SEAL 13-14	ER40	13.00	14.00
ER40 SEAL 14-15	ER40	14.00	15.00
ER40 SEAL 15-16	ER40	15.00	16.00
ER40 SEAL 16-17	ER40	16.00	17.00
ER40 SEAL 17-18	ER40	17.00	18.00
ER40 SEAL 18-19	ER40	18.00	19.00
ER40 SEAL 19-20	ER40	19.00	20.00
ER40 SEAL 20-21	ER40	20.00	21.00
ER40 SEAL 21-22	ER40	21.00	22.00
ER40 SEAL 22-23	ER40	22.00	23.00
ER40 SEAL 23-24	ER40	23.00	24.00
ER40 SEAL 24-25	ER40	24.00	25.00
ER40 SEAL 25-26	ER40	25.00	26.00

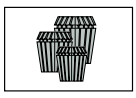
• The HARD TOUCH coating increases wear resistance, improves corrosion protection, prolongs the surface finish quality and maintains longer runout accuracy.

(1) Minimum diameter

(2) Maximum diameter

Sealed Collet JET

For straight shank cutting tools with internal coolant oil hole.



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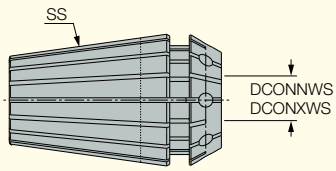
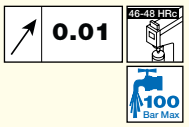
ER Collet

ER-SEAL-JET2

DIN 6499 ER COLLET
Sealed Collets with Cooling Jets and HARD TOUCH Coating for up to 100 Bar





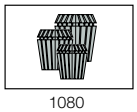
Designation	SS	DCONNWS(1)	DCONXWS(2)
ER16 SEAL 3- 4 JET2	ER16	3.00	4.00
ER16 SEAL 4- 5 JET2	ER16	4.00	5.00
ER16 SEAL 5- 6 JET2	ER16	5.00	6.00
ER16 SEAL 6- 7 JET2	ER16	6.00	7.00
ER16 SEAL 7- 8 JET2	ER16	7.00	8.00
ER16 SEAL 8- 9 JET2	ER16	8.00	9.00
ER16 SEAL 9-10 JET2	ER16	9.00	10.00
ER20 SEAL 3-4 JET2	ER20	3.00	4.00
ER20 SEAL 4-5 JET2	ER20	4.00	5.00
ER20 SEAL 5-6 JET2	ER20	5.00	6.00
ER20 SEAL 6-7 JET2	ER20	6.00	7.00
ER20 SEAL 7-8 JET2	ER20	7.00	8.00
ER20 SEAL 8-9 JET2	ER20	8.00	9.00
ER20 SEAL 9-10 JET2	ER20	9.00	10.00
ER20 SEAL 10-11 JET2	ER20	10.00	11.00
ER20 SEAL 11-12 JET2	ER20	11.00	12.00
ER20 SEAL 12-13 JET2	ER20	12.00	13.00
ER25 SEAL 3-4 JET2	ER25	3.00	4.00
ER25 SEAL 4-5 JET2	ER25	4.00	5.00
ER25 SEAL 5-6 JET2	ER25	5.00	6.00
ER25 SEAL 6-7 JET2	ER25	6.00	7.00
ER25 SEAL 7-8 JET2	ER25	7.00	8.00
ER25 SEAL 8-9 JET2	ER25	8.00	9.00
ER25 SEAL 9-10 JET2	ER25	9.00	10.00
ER25 SEAL 10-11 JET2	ER25	10.00	11.00
ER25 SEAL 11-12 JET2	ER25	11.00	12.00
ER25 SEAL 12-13 JET2	ER25	12.00	13.00
ER25 SEAL 13-14 JET2	ER25	13.00	14.00
ER25 SEAL 14-15 JET2	ER25	14.00	15.00
ER25 SEAL 15-16 JET2	ER25	15.00	16.00
ER32 SEAL 3- 4 JET2	ER32	3.00	4.00
ER32 SEAL 4- 5 JET2	ER32	4.00	5.00
ER32 SEAL 5- 6 JET2	ER32	5.00	6.00
ER32 SEAL 6- 7 JET2	ER32	6.00	7.00
ER32 SEAL 7- 8 JET2	ER32	7.00	8.00

Designation	SS	DCONNWS(1)	DCONXWS(2)
ER32 SEAL 8- 9 JET2	ER32	8.00	9.00
ER32 SEAL 9-10 JET2	ER32	9.00	10.00
ER32 SEAL 10-11 JET2	ER32	10.00	11.00
ER32 SEAL 11-12 JET2	ER32	11.00	12.00
ER32 SEAL 12-13 JET2	ER32	12.00	13.00
ER32 SEAL 13-14 JET2	ER32	13.00	14.00
ER32 SEAL 14-15 JET2	ER32	14.00	15.00
ER32 SEAL 15-16 JET2	ER32	15.00	16.00
ER32 SEAL 16-17 JET2	ER32	16.00	17.00
ER32 SEAL 17-18 JET2	ER32	17.00	18.00
ER32 SEAL 18-19 JET2	ER32	18.00	19.00
ER32 SEAL 19-20 JET2	ER32	19.00	20.00
ER40 SEAL 3- 4 JET2	ER40	3.00	4.00
ER40 SEAL 4- 5 JET2	ER40	4.00	5.00
ER40 SEAL 5- 6 JET2	ER40	5.00	6.00
ER40 SEAL 6- 7 JET2	ER40	6.00	7.00
ER40 SEAL 7- 8 JET2	ER40	7.00	8.00
ER40 SEAL 8- 9 JET2	ER40	8.00	9.00
ER40 SEAL 9-10 JET2	ER40	9.00	10.00
ER40 SEAL 10-11 JET2	ER40	10.00	11.00
ER40 SEAL 11-12 JET2	ER40	11.00	12.00
ER40 SEAL 12-13 JET2	ER40	12.00	13.00
ER40 SEAL 13-14 JET2	ER40	13.00	14.00
ER40 SEAL 14-15 JET2	ER40	14.00	15.00
ER40 SEAL 15-16 JET2	ER40	15.00	16.00
ER40 SEAL 16-17 JET2	ER40	16.00	17.00
ER40 SEAL 17-18 JET2	ER40	17.00	18.00
ER40 SEAL 18-19 JET2	ER40	18.00	19.00
ER40 SEAL 19-20 JET2	ER40	19.00	20.00
ER40 SEAL 20-21 JET2	ER40	20.00	21.00
ER40 SEAL 21-22 JET2	ER40	21.00	22.00
ER40 SEAL 22-23 JET2	ER40	22.00	23.00
ER40 SEAL 23-24 JET2	ER40	23.00	24.00
ER40 SEAL 24-25 JET2	ER40	24.00	25.00
ER40 SEAL 25-26 JET2	ER40	25.00	26.00

• The HARD TOUCH coating increases wear resistance, improves corrosion protection, prolongs the surface finish quality and maintains longer runout accuracy.

(1) Minimum diameter

(2) Maximum diameter



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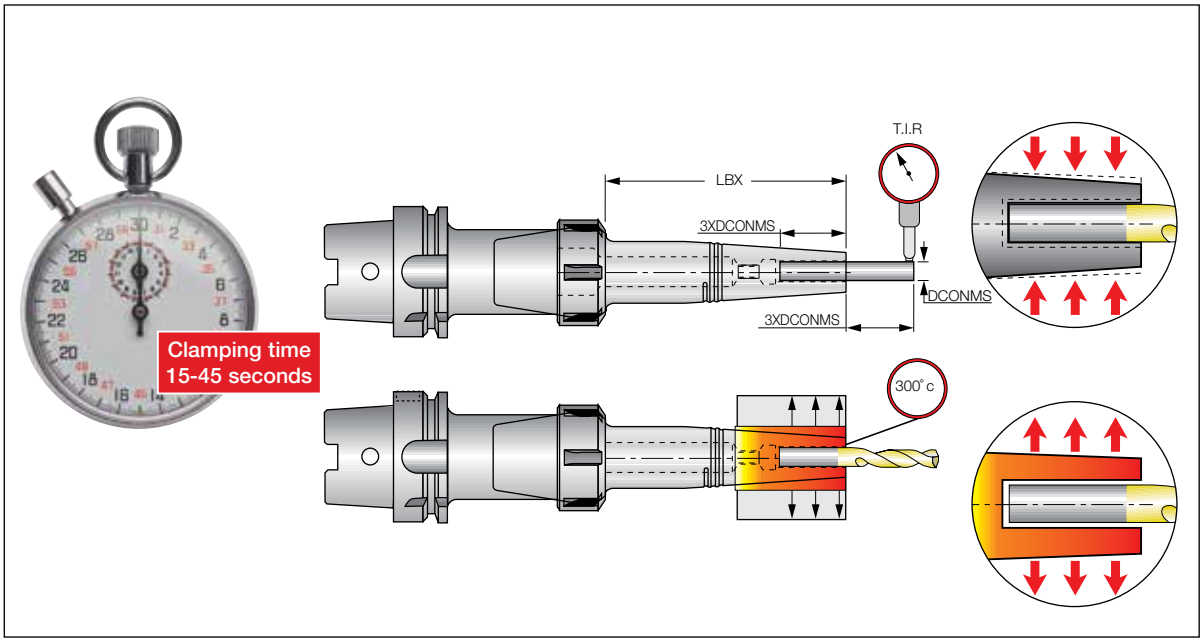
Thermal Shrink Chucking Systems

SHRINKIN thermal shrinking collets are an enhancement to the existing popular collet system. The **SHRINKIN** collets utilize the thermal expansion and shrink phenomenon for rigid clamping of steel, **HSS** and solid carbide tools. **SHRINKIN** collets provide high torque, precision runout and excellent repeatability. The **SHRINKIN** collets with their slim design and various projection lengths allow the user to reach deep cavities and perform narrow milling applications.

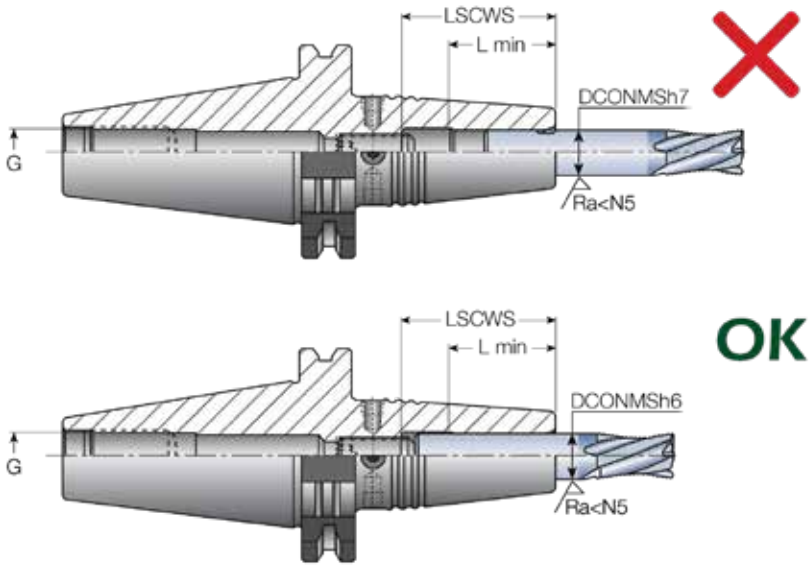
ISCAR offers a complete system for the **SHRINKIN** collets with integral **ER** or other standard, integral tapered shanks.
The conventional, thermal shrink chucking unit can be used only for solid carbide tools, clamped into **SRK ER** collets. The induction thermal unit can be used for steel, **HSS** and solid carbide tools. It can be used for both **SRK** and **SRKIN** collets with **ER** or other integral tapered shanks.



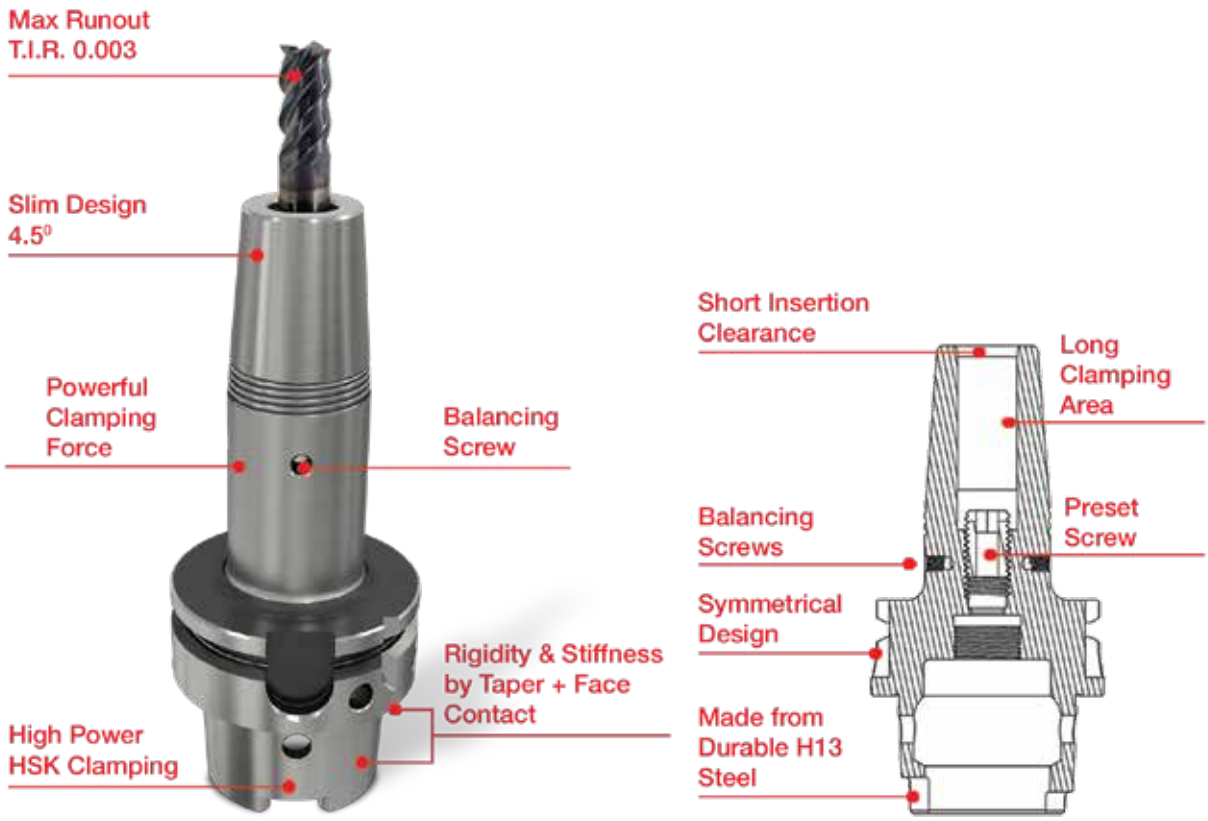
Features

- Slim design with various projections
- Flexible - fits into standard **ER** chucks
- High torque transfer
- Rigid clamping of carbide tools
- Low runout
- Perfect repeatability
- Vibration damping
- Internal coolant
- Coolant Jet2 available
- Symmetrical design for high speed machining
- Quick and easy tool changing
- Unique **SHRINKIN** thermal heating and induction units

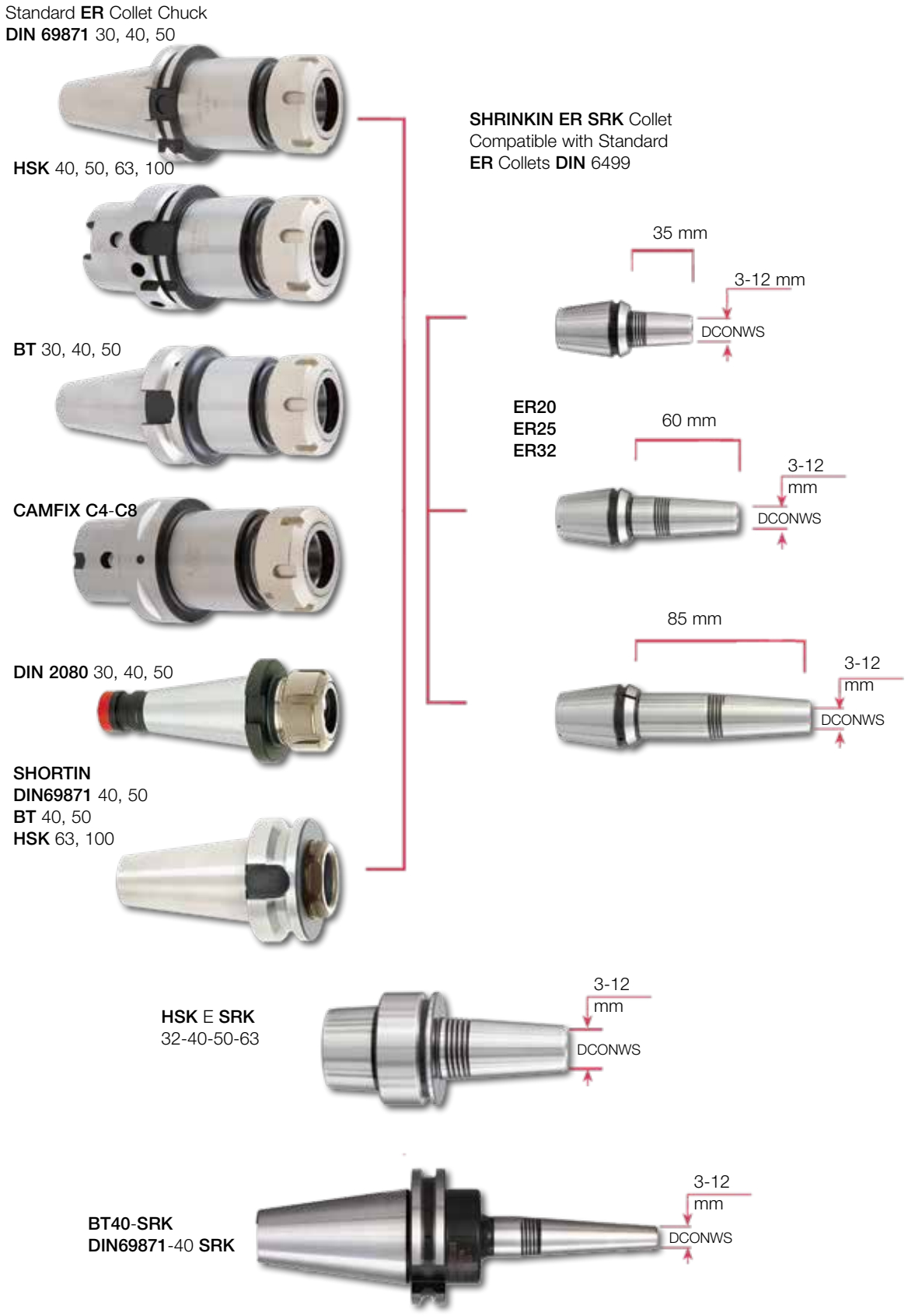
LBX (mm)	Max T.I.R.
35	7µm
60	9µm
85	10µm



1. Do not use Weldon type shanks.
2. Insert shank at least Lmin into the chuck.
3. In order to maintain a firm grip, shank's surface finish should have a roughness of at least **N5**.



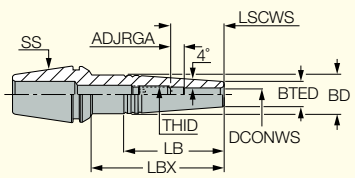
Thermal Shrink ER... SRK Chucking System

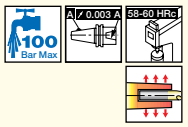


ER Collet SHRINKiN

ER-SRK

Thermal Shrink Chucks with an Integral ER Collet

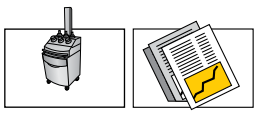




Designation	SS	DCONWS	LBX	LB	ADJRGA	LSCWS	BD	BTED	THID	Key(1)	kg
ER20 SRK 3X35	ER20	3.00	35.0	24.50	6.00	16.0	13.50	10.00	M6	3.00	0.07
ER20 SRK 3X60	ER20	3.00	60.0	24.50	6.00	16.0	13.50	10.00	M6	3.00	0.09
ER20 SRK 4X35	ER20	4.00	35.0	24.50	6.00	18.0	13.50	10.00	M6	3.00	0.07
ER20 SRK 4X60	ER20	4.00	60.0	24.50	6.00	18.0	13.50	10.00	M6	3.00	0.10
ER20 SRK 5X35	ER20	5.00	35.0	24.50	6.00	21.0	13.50	10.00	M6	3.00	0.07
ER20 SRK 5X60	ER20	5.00	60.0	24.50	6.00	21.0	13.50	10.00	M6	3.00	0.10
ER20 SRK 6X35	ER20	6.00	35.0	25.50	6.00	24.0	13.50	11.00	M8	4.00	0.07
ER20 SRK 6X60	ER20	6.00	60.0	29.50	6.00	24.0	13.50	11.00	M8	4.00	0.09
ER25 SRK 3X35	ER25	3.00	35.0	24.50	6.00	16.0	13.50	10.00	M6	3.00	0.10
ER25 SRK 3X60	ER25	3.00	60.0	44.50	6.00	16.0	16.30	10.00	M6	3.00	0.13
ER25 SRK 4X35	ER25	4.00	35.0	24.50	6.00	18.0	13.50	10.00	M6	3.00	0.10
ER25 SRK 4X60	ER25	4.00	60.0	44.50	6.00	18.0	16.30	10.00	M6	3.00	0.15
ER25 SRK 5X35	ER25	5.00	35.0	24.50	6.00	21.0	13.50	10.00	M6	3.00	0.10
ER25 SRK 5X60	ER25	5.00	60.0	44.50	6.00	21.0	16.30	10.00	M6	3.00	0.14
ER25 SRK 6X35	ER25	6.00	35.0	26.00	6.00	24.0	14.70	11.00	M8	4.00	0.10
ER25 SRK 6X60	ER25	6.00	60.0	44.50	6.00	24.0	17.30	11.00	M8	4.00	0.14
ER25 SRK 8X35	ER25	8.00	35.0	26.50	5.00	30.0	17.80	14.00	M10	5.00	0.12
ER25 SRK 8X60	ER25	8.00	60.0	39.50	6.00	31.0	17.90	14.00	M10	5.00	0.15
ER32 SRK 3X35	ER32	3.00	35.0	22.50	6.00	16.0	13.50	10.00	M6	3.00	0.16
ER32 SRK 3X60	ER32	3.00	60.0	44.50	6.00	16.0	16.30	10.00	M6	3.00	0.20
ER32 SRK 3X85	ER32	3.00	85.0	70.00	6.00	16.0	19.80	10.00	M6	3.00	0.25
ER32 SRK 4X35	ER32	4.00	35.0	23.50	6.00	18.0	13.50	10.00	M6	3.00	0.17
ER32 SRK 4X60	ER32	4.00	60.0	44.50	6.00	18.0	16.30	10.00	M6	3.00	0.19
ER32 SRK 4X85	ER32	4.00	85.0	70.00	6.00	18.0	19.80	10.00	M6	3.00	0.24
ER32 SRK 5X35	ER32	5.00	35.0	24.50	6.00	21.0	13.50	10.00	M6	3.00	0.16
ER32 SRK 5X60	ER32	5.00	60.0	44.50	6.00	21.0	16.30	10.00	M6	3.00	0.20
ER32 SRK 5X85	ER32	5.00	85.0	70.00	6.00	21.0	19.80	10.00	M6	3.00	0.24
ER32 SRK 6X35	ER32	6.00	35.0	25.50	6.00	24.0	14.70	11.00	M8	4.00	0.16
ER32 SRK 6X60	ER32	6.00	60.0	45.00	6.00	24.0	17.30	11.00	M8	4.00	0.19
ER32 SRK 6X85	ER32	6.00	85.0	69.50	8.00	26.0	20.80	11.00	M8	4.00	0.26
ER32 SRK 8X35	ER32	8.00	35.0	33.00	6.00	31.0	18.95	14.00	M10	5.00	0.18
ER32 SRK 8X60	ER32	8.00	60.0	45.00	6.00	31.0	20.40	14.00	M10	5.00	0.21
ER32 SRK 8X85	ER32	8.00	85.0	65.00	6.00	31.0	23.20	14.00	M10	5.00	0.28
ER32 SRK 10X35	ER32	10.00	35.0	34.00	5.00	35.0	20.80	16.00	M12	6.00	0.18
ER32 SRK 10X60	ER32	10.00	60.0	44.50	6.00	36.0	22.40	16.00	M12	6.00	0.24
ER32 SRK 10X85	ER32	10.00	85.0	49.50	6.00	36.0	23.00	16.00	M12	6.00	0.29
ER32 SRK 12X35	ER32	12.00	35.0	28.00	-	32.0	24.00	20.00	-	-	0.21
ER32 SRK 12X60	ER32	12.00	60.0	28.00	6.00	38.0	24.00	20.00	M14	6.00	0.27
ER32 SRK 12X85	ER32	12.00	85.0	28.00	6.00	38.0	24.00	20.00	M14	6.00	0.33

• For carbide tools only • When a rigid ER collet is assembled in an ER holder, the actual protruding length of the holder becomes shorter by 2.0 mm for ER20 and by 3.0 mm for ER25/ER32

(1) Hex key size for the rear stopper screw



1076-1077 1070-1072

ER-SRK

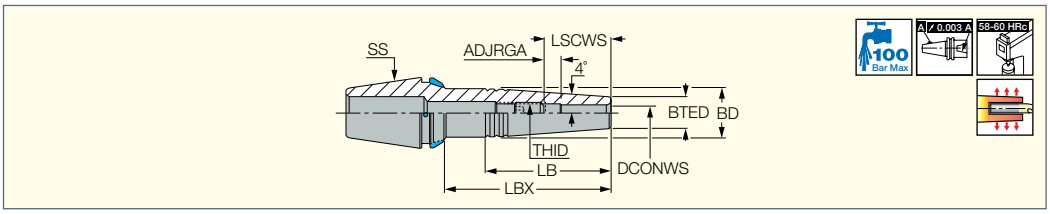
Spare Parts

Designation	
ER20 SRK 3X35	SR M6X10 DIN916
ER20 SRK 3X60	SR M6X10 DIN916
ER20 SRK 4X35	SR M6X10 DIN916
ER20 SRK 4X60	SR M6X10 DIN916
ER20 SRK 5X35	SR M6X10 DIN916
ER20 SRK 5X60	SR M6X10 DIN916
ER20 SRK 6X35	SR M8X12 DIN916
ER20 SRK 6X60	SR M8X12 DIN916
ER25 SRK 3X35	SR M6X10 DIN916
ER25 SRK 3X60	SR M6X10 DIN916
ER25 SRK 4X35	SR M6X10 DIN916
ER25 SRK 4X60	SR M6X10 DIN916
ER25 SRK 5X35	SR M6X10 DIN916
ER25 SRK 5X60	SR M6X10 DIN916
ER25 SRK 6X35	SR M8X12 DIN916
ER25 SRK 6X60	SR M8X12 DIN916
ER25 SRK 8X35	SR M10X10 DIN913
ER25 SRK 8X60	SR M10X10 DIN913
ER32 SRK 3X35	SR M6X10 DIN916
ER32 SRK 3X60	SR M6X10 DIN916
ER32 SRK 3X85	SR M6X10 DIN916
ER32 SRK 4X35	SR M6X10 DIN916
ER32 SRK 4X60	SR M6X10 DIN916
ER32 SRK 4X85	SR M6X10 DIN916
ER32 SRK 5X35	SR M6X10 DIN916
ER32 SRK 5X60	SR M6X10 DIN916
ER32 SRK 5X85	SR M6X10 DIN916
ER32 SRK 6X35	SR M8X12 DIN916
ER32 SRK 6X60	SR M8X12 DIN916
ER32 SRK 6X85	SR M8X12 DIN916
ER32 SRK 8X35	SR M10X10 DIN913
ER32 SRK 8X60	SR M10X10 DIN913
ER32 SRK 8X85	SR M10X10 DIN913
ER32 SRK 10X35	SR M12X10 DIN913
ER32 SRK 10X60	SR M12X10 DIN913
ER32 SRK 10X85	SR M12X10 DIN913
ER32 SRK 12X60	SR M14X12 DIN913
ER32 SRK 12X85	SR M14X12 DIN913

ER Collet SHRINKiN

ER-SRK-JET2

Thermal Shrink Chuck with
Two Internal Cooling Jets
and an Integral ER Collet



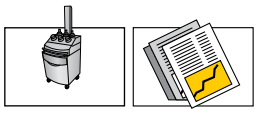
Designation	SS	DCONWS	LBX	LB	ADJRGA	LSCWS	BD	BTED	THID	Key(1)	kg
ER20 SRK 3X35 JET2	ER20	3.00	35.0	24.50	6.00	16.0	13.50	10.00	M6	3.00	0.07
ER20 SRK 4X35 JET2	ER20	4.00	35.0	24.50	6.00	18.0	13.50	10.00	M6	3.00	0.07
ER20 SRK 5X35 JET2	ER20	5.00	35.0	24.50	6.00	21.0	13.50	10.00	M6	3.00	0.09
ER20 SRK 6X35 JET2	ER20	6.00	35.0	25.50	6.00	24.0	13.50	11.00	M8	4.00	0.07
ER20 SRK 6X60 JET2	ER20	6.00	60.0	29.50	6.00	24.0	13.50	11.00	M8	4.00	0.09
ER25 SRK 3X35 JET2	ER25	3.00	35.0	24.50	6.00	16.0	13.50	10.00	M6	3.00	0.10
ER25 SRK 3X60 JET2	ER25	3.00	60.0	44.50	6.00	16.0	16.30	10.00	M6	3.00	0.16
ER25 SRK 4X35 JET2	ER25	4.00	35.0	24.50	6.00	18.0	13.50	10.00	M6	3.00	0.10
ER25 SRK 4X60 JET2	ER25	4.00	60.0	44.50	6.00	18.0	16.30	10.00	M6	3.00	0.16
ER25 SRK 5X35 JET2	ER25	5.00	35.0	24.50	6.00	21.0	13.50	10.00	M6	3.00	0.10
ER25 SRK 5X60 JET2	ER25	5.00	60.0	44.50	6.00	21.0	16.30	10.00	M6	3.00	0.15
ER25 SRK 6X35 JET2	ER25	6.00	35.0	26.00	6.00	24.0	14.70	11.00	M8	4.00	0.11
ER25 SRK 6X60 JET2	ER25	6.00	60.0	44.50	6.00	24.0	17.30	11.00	M8	4.00	0.16
ER25 SRK 8X35 JET2	ER25	8.00	35.0	26.50	5.00	30.0	17.80	14.00	M10	5.00	0.12
ER25 SRK 8X60 JET2	ER25	8.00	60.0	39.50	6.00	31.0	17.90	14.00	M10	5.00	0.15
ER32 SRK 3X35 JET2	ER32	3.00	35.0	22.50	6.00	16.0	13.50	10.00	M6	3.00	0.16
ER32 SRK 3X60 JET2	ER32	3.00	60.0	44.50	6.00	16.0	16.30	10.00	M6	3.00	0.19
ER32 SRK 3X85 JET2	ER32	3.00	85.0	70.00	6.00	16.0	19.80	10.00	M6	3.00	0.25
ER32 SRK 4X35 JET2	ER32	4.00	35.0	23.50	6.00	18.0	13.50	10.00	M6	3.00	0.16
ER32 SRK 4X60 JET2	ER32	4.00	60.0	44.50	6.00	18.0	16.30	10.00	M6	3.00	0.19
ER32 SRK 4X85 JET2	ER32	4.00	85.0	70.00	6.00	18.0	19.80	10.00	M6	3.00	0.22
ER32 SRK 5X35 JET2	ER32	5.00	35.0	24.50	6.00	21.0	13.50	10.00	M6	3.00	0.16
ER32 SRK 5X60 JET2	ER32	5.00	60.0	44.50	6.00	21.0	16.30	10.00	M6	3.00	0.19
ER32 SRK 5X85 JET2	ER32	5.00	85.0	70.00	6.00	21.0	19.80	10.00	M6	3.00	0.25
ER32 SRK 6X35 JET2	ER32	6.00	35.0	25.50	6.00	24.0	14.70	11.00	M8	4.00	0.15
ER32 SRK 6X60 JET2	ER32	6.00	60.0	45.00	6.00	24.0	17.30	11.00	M8	4.00	0.19
ER32 SRK 6X85 JET2	ER32	6.00	85.0	69.50	8.00	26.0	20.80	11.00	M8	4.00	0.23
ER32 SRK 8X35 JET2	ER32	8.00	35.0	33.00	6.00	31.0	18.80	14.00	M10	5.00	0.17
ER32 SRK 8X60 JET2	ER32	8.00	60.0	45.00	6.00	31.0	20.40	14.00	M10	5.00	0.22
ER32 SRK 8X85 JET2	ER32	8.00	85.0	65.00	6.00	31.0	23.20	14.00	M10	5.00	0.29
ER32 SRK 10X35 JET2	ER32	10.00	35.0	34.00	5.00	35.0	20.80	16.00	M12	6.00	0.20
ER32 SRK 10X60 JET2	ER32	10.00	60.0	44.50	6.00	36.0	22.40	16.00	M12	6.00	0.25
ER32 SRK 10X85 JET2	ER32	10.00	85.0	49.50	6.00	36.0	23.00	16.00	M12	6.00	0.30
ER32 SRK 12X35 JET2	ER32	12.00	35.0	28.00	0.00	-	24.00	20.00	-	-	0.21
ER32 SRK 12X60 JET2	ER32	12.00	60.0	28.00	6.00	38.0	24.00	20.00	M14	6.00	0.29
ER32 SRK 12X85 JET2	ER32	12.00	85.0	28.00	6.00	38.0	24.00	20.00	M14	6.00	0.32

• For carbide tools only. • When a rigid ER collet is assembled in an ER holder, the actual protruding length of the holder becomes shorter by 2.0 mm for ER20 and by 3.0 mm for ER25/ER32.

(1) Hex key size for the rear stopper screw

Spare Parts

Designation	
ER20 SRK 3X35 JET2	SR M6X10 DIN916
ER25 SRK 3X35 JET2	SR M6X10 DIN916
ER25 SRK 4X35 JET2	SR M6X10 DIN916
ER25 SRK 6X35 JET2	SR M8X12 DIN916
ER25 SRK 8X35 JET2	SR M10X10 DIN913
ER32 SRK 3X35 JET2	SR M6X10 DIN916
ER32 SRK 3X60 JET2	SR M6X10 DIN916
ER32 SRK 4X35 JET2	SR M6X10 DIN916
ER32 SRK 4X60 JET2	SR M6X10 DIN916
ER32 SRK 4X85 JET2	SR M6X10 DIN916
ER32 SRK 5X35 JET2	SR M6X10 DIN916
ER32 SRK 5X60 JET2	SR M6X10 DIN916
ER32 SRK 5X85 JET2	SR M6X10 DIN916
ER32 SRK 6X35 JET2	SR M8X12 DIN916
ER32 SRK 6X60 JET2	SR M8X12 DIN916
ER32 SRK 6X85 JET2	SR M8X12 DIN916
ER32 SRK 8X35 JET2	SR M10X10 DIN913
ER32 SRK 8X60 JET2	SR M10X10 DIN913
ER32 SRK 8X85 JET2	SR M10X10 DIN913
ER32 SRK 10X35 JET2	SR M12X10 DIN913
ER32 SRK 10X60 JET2	SR M12X10 DIN913
ER32 SRK 10X85 JET2	SR M12X10 DIN913
ER32 SRK 12X60 JET2	SR M14X12 DIN913
ER32 SRK 12X85 JET2	SR M14X12 DIN913



1076-1077

1070-1072, 1078

Induction Heating Unit

- Easy and efficient to operate
- Quick tool change (5 sec.)
- Short cooling time (30-90 sec)
- Solid carbide range 3-32 mm
- **H.S.S**. cutter range 6-32 mm

Suitable for:

- Integral **SRKIN** tooling
- Integral heavy duty tooling
- Extensions
- **ER..SRK**... unique collets

Technical Specifications		
Clamping range	3-32 mm	Carbide tool shank
Clamping range	6-32 mm	HSS & steel shank
Main power supply	3 x 380-500V 50/60Hz	
Nominal power	13 kW	
Nominal current	16 AMP	
Cooling unit power supply	220V 50Hz	
Nominal power	0.5 kW	
Max. tool length	440 mm (from gauge line)	
Max. dia. clamping chuck	52 mm	
Effective induction field length	45 mm	
Expansion time	Approx. 5-12 seconds	
Cooling time	Approx. 30-90 seconds	
Weight	150 kg	
Overall dimensions	170 x 73 x 60 cm	

⚠ Can be used for carbide and HSS tools.

Induction Heating Unit

Designation
IND SHRINKIN UNIT EUR

Includes:
Induction unit
Cooling unit
Trolley
3 pcs. Tool Adapter(1)

IND THERMIC GLOVES

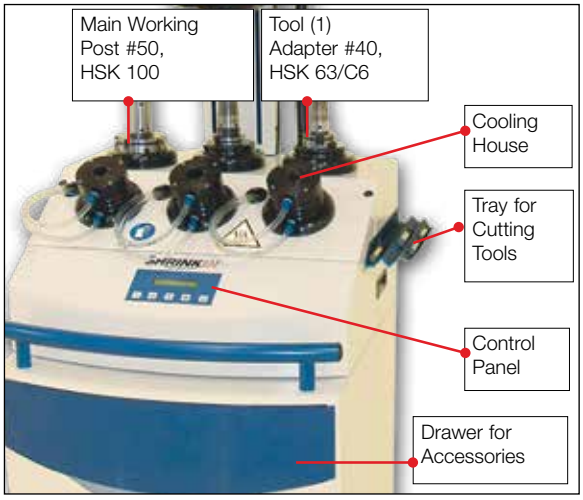
Cooling Sleeves	Used for
IND COOLING COLLET 6-8	
IND COOLING COLLET 10-12	
IND COOLING COLLET 14-16	SRKIN
IND COOLING COLLET 18-20	
IND COOLING COLLET ER 3-5	
IND COOLING COLLET ER 6	
IND COOLING COLLET ER 8	SRK
IND COOLING COLLET ER 10	
IND COOLING COLLET ER 12	

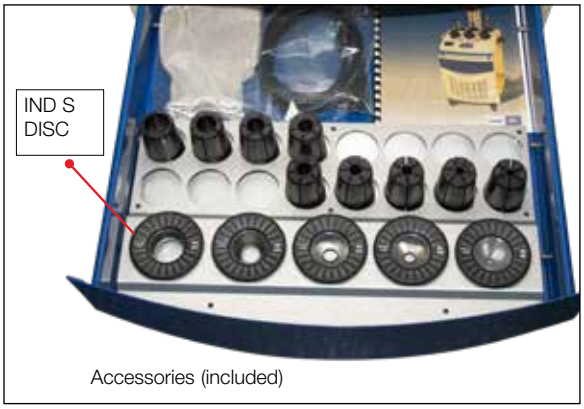
IND S DISC 3-5 13kW	
IND S DISC 6-12 13kW	
IND S DISC 14-16 13kW	SRKIN
IND S DISC 18-20 13kW	
IND S DISC 25-32 13kW	

Optional Tool Adapter for HSK
IND 32 TOOL ADAPTER
IND 40 TOOL ADAPTER
IND 50 TOOL ADAPTER(2)
IND 63 TOOL ADAPTER(1)
IND 80 TOOL ADAPTER

(1) For taper #40
(2) For taper #30

Induction Main Unit





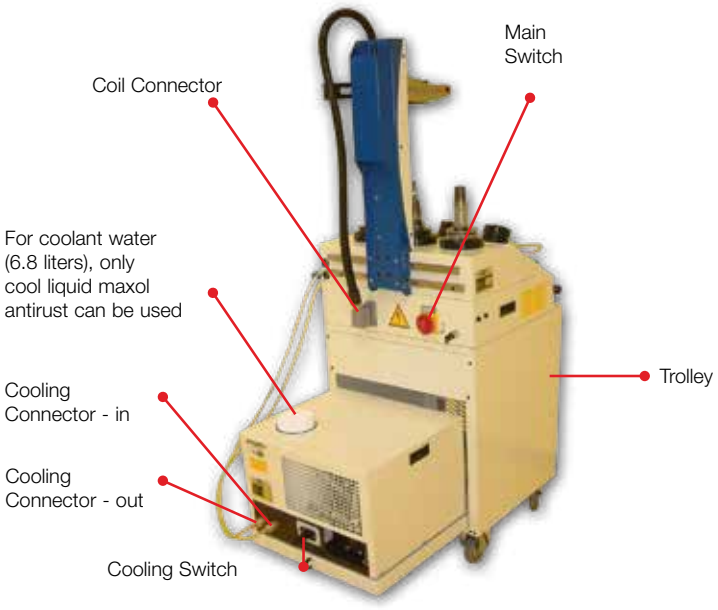
Accessories (included)

INDUCTION Starter Unit

The induction starter unit is an economical starter version of the **SHRINKIN** induction unit. It was designed to help the end-user purchase the modern shrink chucking technology in a low cost device. The starter unit is actually a simplified and limited version of the complete inductive system that we offer today.

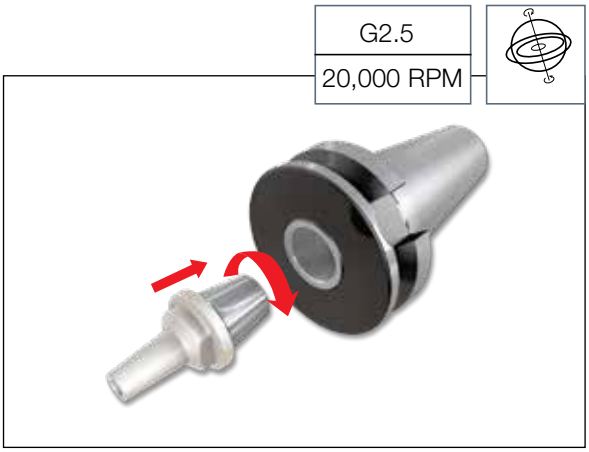
Designation:
4505585 IND SHRINK START UNIT EUR

⚠ Can be used for carbide and HSS tools.



Quick-Change System

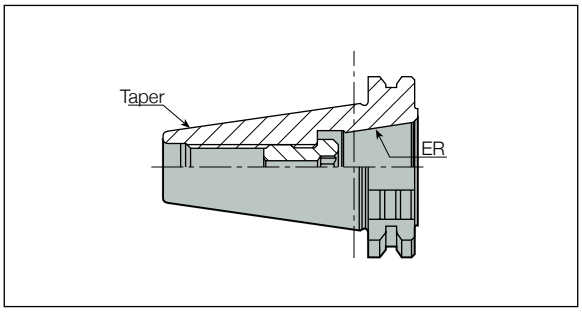
The concept utilizes contacts on both the taper and the tool face for maximum rigidity. This system may be used to connect a **SHRINKIN** toolholder with a mounted tool to a large taper shank holder for mounting in the machine.



Face Contact Advantages

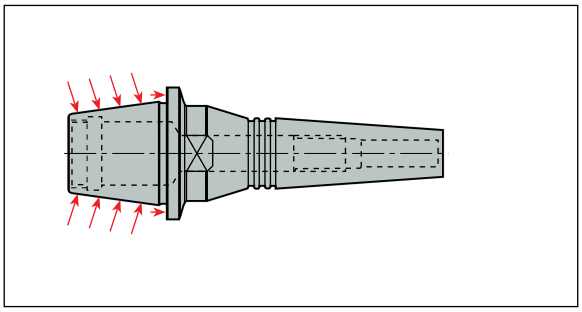
1. Taper and face contact
2. Ideal for high speed machining
3. High precision runout
4. High rigidity
5. Quick and easy clamping

CLICKIN Shank



For HSK A63 See Page 984
For BT 40/50 See Page 1030

ER SRF Chunks



See page 1079

Quick-Change Advantages

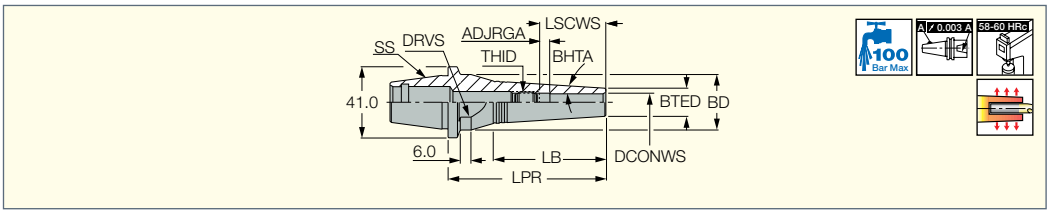
1. Quick cutting tool change. The taper shank and holder connect in a quick half turn
2. No thermal shock on holder taper
3. Flexibility in diameter and length
4. Eliminates the use of extension chuck
5. No spare parts needed
6. **CLICKIN** blanks for custom made tools and collets
7. Shrink clamping for solid carbide tools

Tightening torque: 235 **N**.m

CLICKIN SHRINKIN

ER-SRF

SHRINKIN Thermal Shrink Chuck with a CLICKIN Quick Change Adaptation



Designation	SS	DCONWS	LPR	LB	ADJRGA	LSCWS	BD	BTED	THID	Key(1)	BHTA	DRVS(2)	kg
ER32 SRF 3X50	32 SRF	3.00	50.00	31.00	6.00	16.0	32.00	10.00	M6	3.00	4	27.0	0.25
ER32 SRF 3X85	32 SRF	3.00	85.00	60.50	6.00	16.0	32.00	10.00	M6	3.00	4	27.0	0.28
ER32 SRF 4X50	32 SRF	4.00	50.00	31.00	6.00	18.0	32.00	10.00	M6	3.00	4	27.0	0.22
ER32 SRF 4X85	32 SRF	4.00	85.00	60.50	6.00	18.0	32.00	10.00	M6	3.00	4	27.0	0.28
ER32 SRF 5X50	32 SRF	5.00	50.00	31.00	6.00	21.0	32.00	10.00	M6	3.00	4	27.0	0.22
ER32 SRF 5X85	32 SRF	5.00	85.00	60.50	6.00	21.0	32.00	10.00	M6	3.00	4	27.0	0.28
ER32 SRF 6X50	32 SRF	6.00	50.00	31.00	6.00	24.0	32.00	11.00	M8	4.00	4	27.0	0.22
ER32 SRF 6X85	32 SRF	6.00	85.00	60.50	6.00	24.0	32.00	11.00	M8	4.00	4	27.0	0.28
ER32 SRF 8X50	32 SRF	8.00	50.00	33.00	6.00	31.0	32.00	14.00	M10	5.00	4	27.0	0.23
ER32 SRF 8X85	32 SRF	8.00	85.00	60.50	6.00	31.0	32.00	14.00	M10	5.00	4	27.0	0.31
ER32 SRF 10X50	32 SRF	10.00	50.00	35.00	5.00	35.0	32.00	16.00	M12	6.00	4	27.0	0.23
ER32 SRF 10X85	32 SRF	10.00	85.00	60.50	6.00	36.0	32.00	16.00	M12	6.00	4	27.0	0.33
ER32 SRF 12X50	32 SRF	12.00	50.00	35.00	5.00	37.0	32.00	20.00	M14	6.00	4	27.0	0.26
ER32 SRF 12X85	32 SRF	12.00	85.00	50.00	6.00	38.0	32.00	20.00	M14	6.00	4	27.0	0.38

• Tightening torque: 24 Kgxm. • For carbide tools only.

(1) Adjustment screw hexagon key size

(2) Key flat size

1076-1077 | 1070-1072, 1078 | 1030

Spare Parts

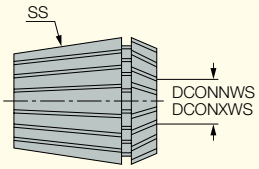
Designation		
ER32 SRF 3X50	SR M6X10 DIN916	WRENCH ER32 CLICKIN 27*
ER32 SRF 3X85	SR M6X10 DIN916	WRENCH ER32 CLICKIN 27*
ER32 SRF 4X50	SR M6X10 DIN916	WRENCH ER32 CLICKIN 27*
ER32 SRF 4X85	SR M6X10 DIN916	WRENCH ER32 CLICKIN 27*
ER32 SRF 5X50	SR M6X10 DIN916	WRENCH ER32 CLICKIN 27*
ER32 SRF 5X85	SR M6X10 DIN916	WRENCH ER32 CLICKIN 27*
ER32 SRF 6X50	SR M8X12 DIN916	WRENCH ER32 CLICKIN 27*
ER32 SRF 6X85	SR M8X12 DIN916	WRENCH ER32 CLICKIN 27*
ER32 SRF 8X50	SR M10X10 DIN913	WRENCH ER32 CLICKIN 27*
ER32 SRF 8X85	SR M10X10 DIN913	WRENCH ER32 CLICKIN 27*
ER32 SRF 10X50	SR M12X10 DIN913	WRENCH ER32 CLICKIN 27*
ER32 SRF 10X85	SR M12X10 DIN913	WRENCH ER32 CLICKIN 27*
ER32 SRF 12X50	SR M14X12 DIN913	WRENCH ER32 CLICKIN 27*
ER32 SRF 12X85	SR M14X12 DIN913	WRENCH ER32 CLICKIN 27*

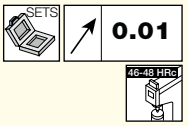
* Optional, should be ordered separately

ER Collet

SET ER-SPR

Sets of DIN 6499 ER Spring Collets with HARD TOUCH Coating





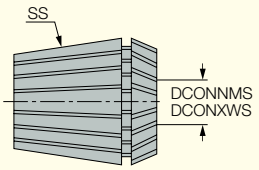
Designation	SS	Qty	DCONNWS(1)	DCONXWS
SET ER11 SPR 7	ER11	7	0.5	7.0
SET ER16 SPR 10	ER16	10	0.5	10.0
SET ER20 SPR 12	ER20	12	1.0	13.0
SET ER25 SPR 15	ER25	15	1.0	16.0
SET ER32 SPR 18	ER32	18	2.0	20.0
SET ER40 SPR 23	ER40	23	3.0	26.0
SET ER50 SPR 12	ER50	12	10.0	34.0

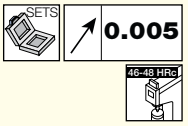
(1) Minimum diameter

ER Collet

SET ER-SPR-AA

Sets of DIN 6499 ER 'AA' Ultra Precise Spring Collets with HARD TOUCH Coating





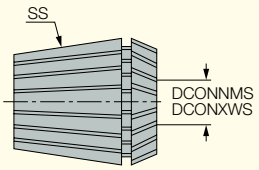
Designation	SS	Qty	DCONNWS(1)	DCONXWS
SET ER11 SPR 7 AA	ER11	7	0.5	7.0
SET ER16 SPR 10 AA	ER16	10	0.5	10.0
SET ER20 SPR 12 AA	ER20	12	1.0	13.0
SET ER25 SPR 15 AA	ER25	15	1.0	16.0
SET ER32 SPR 18 AA	ER32	18	2.0	20.0
SET ER40 SPR 23 AA	ER40	23	3.0	26.0

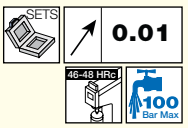
(1) Minimum diameter

ER Collet

SET ER-SEAL

Sets of DIN 6499 ER COOLIT Collets with HARD TOUCH Coating, Sealed for 100 Bar





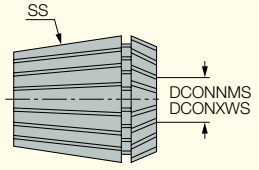
Designation	SS	Qty	DCONNWS(1)	DCONXWS
SET ER16 SEAL 7	ER16	7	3.0	10.0
SET ER20 SEAL 10	ER20	10	3.0	13.0
SET ER25 SEAL 13	ER25	13	3.0	16.0
SET ER32 SEAL 17	ER32	17	3.0	20.0
SET ER40 SEAL 23	ER40	23	3.0	26.0

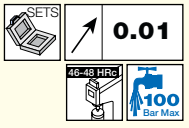
(1) Minimum diameter

ER Collet

SET ER-SEAL-JET2

Sets of DIN 6499 ER COOLIT Collets with HARD TOUCH Coating, Sealed for 100 Bar





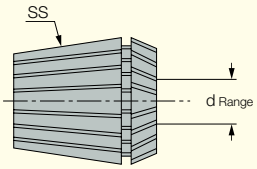
Designation	SS	Qty	DCONNWS(1)	DCONXWS
SET ER16 SEAL 7 JET2	ER16	7	3.0	10.0
SET ER20 SEAL 10 JET2	ER20	10	3.0	13.0
SET ER25 SEAL 13 JET2	ER25	13	3.0	16.0
SET ER32 SEAL 17 JET2	ER32	17	3.0	20.0
SET ER40 SEAL 23 JET2	ER40	23	3.0	26.0

(1) Minimum diameter

ER Collet

SET ER-SPR-EM

Sets of ER Spring Collets DIN 6499 with HARD TOUCH Coating



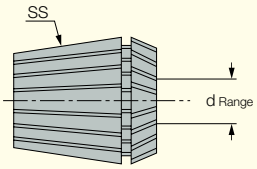
Designation	SS	Qty	d Range
SET ER16 SPR 8 EM	ER16	8	3,4,5,6,7,8,9,10
SET ER20 SPR 5 EM	ER20	5	4,6,8,10,12
SET ER25 SPR 6 EM	ER25	6	4,6,8,10,12,16
SET ER32 SPR 6 EM	ER32	6	6,8,10,12,20
SET ER40 SPR 7 EM	ER40	7	6,8,10,12,16,20,25

• Contains popular endmill sizes only

ER Collet

SET ER-SEAL-EM

Sets of DIN 6499 ER COOLIT JET Collets with HARD TOUCH Coating, Sealed for 100 Bar



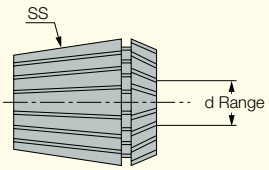
Designation	SS	Qty	d Range
SET ER16 SEAL 5 EM	ER16	5	4,5,6,8,10
SET ER20 SEAL 5 EM	ER20	5	4,6,8,10,12
SET ER25 SEAL 6 EM	ER25	6	4,6,8,10,12,16
SET ER32 SEAL 6 EM	ER32	6	6,8,10,12,16,20
SET ER40 SEAL 7 EM	ER40	7	6,8,10,12,16,20,25

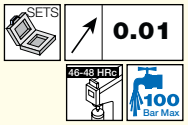
• Contain popular endmill sizes only. • The HARD TOUCH coating increases wear resistance, improves corrosion protection, prolongs the surface finish quality and maintains longer runout accuracy.

ER Collet

SET ER-SEAL-EM JET2

Sets of ER COOLIT JET2 Collets, Sealed for up to 100 Bar





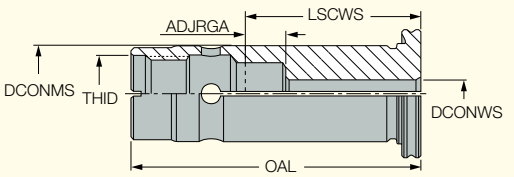
Designation	SS	Qty	d Range
SET ER25 SEAL 6 EM JET2	ER25	6	4,6,8,10,12,16
SET ER32 SEAL 6 EM JET2	ER32	6	6,8,10,12,16,20
SET ER40 SEAL 7 EM JET2	ER40	7	6,8,10,12,16,20,25

• Contain popular endmill sizes only. • The HARD TOUCH coating increases wear resistance, improves corrosion protection, prolongs the surface finish quality and maintains longer runout accuracy.

MAXIN Power Chuck

SC-SPR

SC Straight Collets for MAXIN Power Chucks



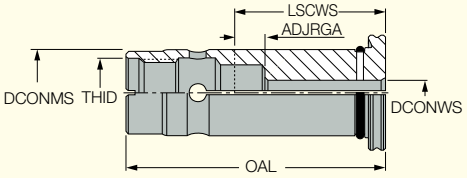
Designation	DCONMS	DCONWS	OAL	LSCWS	ADJRGA(1)	THID
SC 20 SPR 6	20.00	6.00	60.00	35.0	7.00	M16
SC 20 SPR 8	20.00	8.00	60.00	35.0	7.00	M16
SC 20 SPR 10	20.00	10.00	60.00	48.0	13.00	M16
SC 20 SPR 12	20.00	12.00	60.00	48.0	8.00	M16
SC 20 SPR 14	20.00	14.00	60.00	48.0	8.00	M16
SC 20 SPR 15	20.00	15.00	60.00	48.0	8.00	M16
SC 20 SPR 16	20.00	16.00	60.00	48.0	9.00	M16
SC 32 SPR 6	32.00	6.00	72.00	45.0	17.00	M24X1.5
SC 32 SPR 8	32.00	8.00	72.00	45.0	17.00	M24X1.5
SC 32 SPR 10	32.00	10.00	72.00	48.0	13.00	M24X1.5
SC 32 SPR 12	32.00	12.00	72.00	45.0	5.00	M24X1.5
SC 32 SPR 14	32.00	14.00	72.00	45.0	5.00	M24X1.5
SC 32 SPR 15	32.00	15.00	72.00	59.5	19.50	M24X1.5
SC 32 SPR 16	32.00	16.00	72.00	61.5	17.50	M24X1.5
SC 32 SPR 18	32.00	18.00	72.00	61.5	17.50	M24X1.5
SC 32 SPR 19	32.00	19.00	72.00	61.5	17.50	M24X1.5
SC 32 SPR 20	32.00	20.00	72.00	61.5	15.50	M24X1.5
SC 32 SPR 24	32.00	24.00	72.00	55.5	10.50	M24X1.5
SC 32 SPR 25	32.00	25.00	72.00	61.5	10.50	M24X1.5

(1) Preset range

MAXIN Power Chuck

SC-SEAL

Sealed Collets for MAXIN Power Chucks

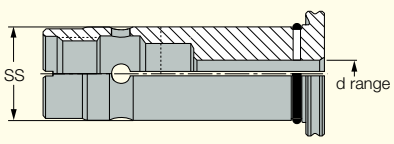


Designation	DCONMS	DCONWS	OAL	LSCWS	ADJRGA	THID
SC 20 SEAL 6	20.00	6.00	60.00	35.0	7.00	M16
SC 20 SEAL 8	20.00	8.00	60.00	35.0	7.00	M16
SC 20 SEAL 10	20.00	10.00	60.00	48.0	13.00	M16
SC 20 SEAL 12	20.00	12.00	60.00	48.0	8.00	M16
SC 20 SEAL 14	20.00	14.00	60.00	48.0	8.00	M16
SC 20 SEAL 15	20.00	15.00	60.00	48.0	8.00	M16
SC 20 SEAL 16	20.00	16.00	60.00	48.0	9.00	M16
SC 32 SEAL 6	32.00	6.00	72.00	45.0	17.00	M24X1.5
SC 32 SEAL 8	32.00	8.00	72.00	45.0	17.00	M24X1.5
SC 32 SEAL 10	32.00	10.00	72.00	48.0	13.00	M24X1.5
SC 32 SEAL 12	32.00	12.00	72.00	45.0	5.00	M24X1.5
SC 32 SEAL 14	32.00	14.00	72.00	45.0	5.00	M24X1.5
SC 32 SEAL 15	32.00	15.00	72.00	45.0	5.00	M24X1.5
SC 32 SEAL 16	32.00	16.00	72.00	61.5	17.50	M24X1.5
SC 32 SEAL 18	32.00	18.00	72.00	61.5	17.50	M24X1.5
SC 32 SEAL 19	32.00	19.00	72.00	61.5	17.50	M24X1.5
SC 32 SEAL 20	32.00	20.00	72.00	61.5	15.50	M24X1.5
SC 32 SEAL 24	32.00	24.00	72.00	61.5	15.50	M24X1.5
SC 32 SEAL 25	32.00	25.00	72.00	61.5	10.50	M24X1.5

MAXIN Power Chuck

SET SC-SEAL

Sets of SC Straight Collets with Coolant Holes for MAXIN Power Chuck



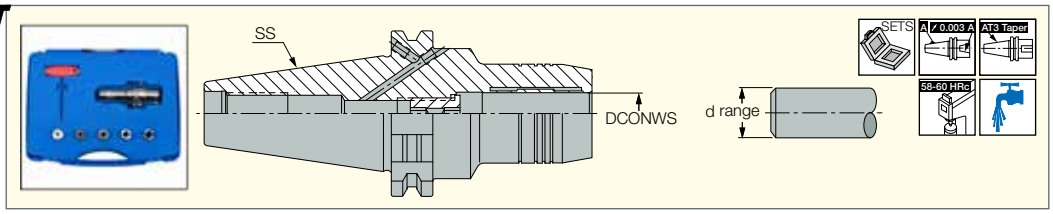
Designation	SS	Qty	d Range
SET SC20 SEAL 6	SC20	6	6,8,10,12,14,16
SET SC32 SEAL 9	SC32	9	6,8,10,12,16,20,25

HYDROFIT KITS & ACCESSORIES

DIN69871 HYDROFIT HOLDING LINE

KIT DIN69871-HYDRO

Contains a Hydraulic Chuck with a DIN 69781 Tapered Shank and a Set of Collets in Various Bore Sizes



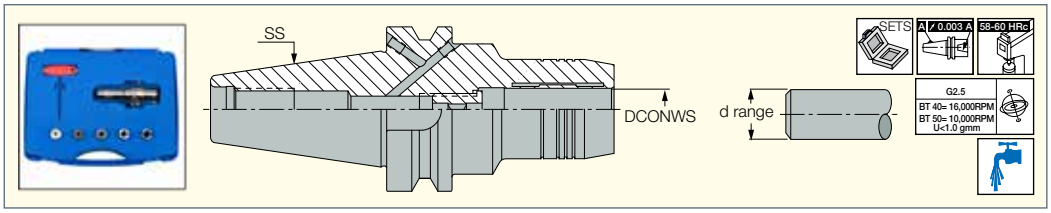
Designation	SS	DCONWS	d Range	Qty
KIT DIN69871 40HYDRO20X65	40	20.00	6,8,10,12,16	5
KIT DIN6987140HYDRO32X117	40	32.00	6,8,10,12,16,20,25	7

• Each kit contains one HYDROFIT chuck, a set of SC...HYDRO sealed reducers and a clamping wrench.

BT MAS HYDROFIT HOLDING LINE

KIT BT-HYDRO

Hydraulic Chuck Kits with MAS-BT Form A/B Shanks



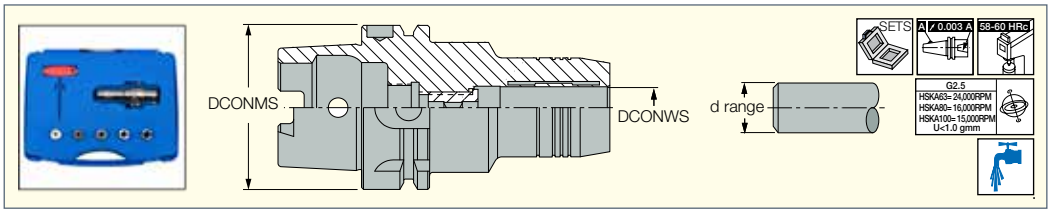
Designation	SS	DCONWS	d Range	Qty
KIT BT 40 HYDRO 20X 73	40	20.00	6,8,10,12,16	5
KIT BT 40 HYDRO 32X110	40	32.00	6,8,10,12,16,20,25	7

• Each kit contains one HYDROFIT chuck, a set of SC...HYDRO sealed reducers and a clamping wrench.

HSK HYDROFIT HOLDING LINE

KIT HSK A-HYDRO

Contains a Hydraulic Chuck with HSK Tapered Shank and a Set of Collets in Various Bore Sizes



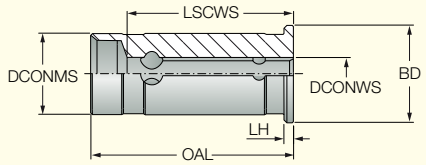
Designation	DCONMS	DCONWS	d Range	Qty
KIT HSK A63 HYDRO20X100	63	20.00	6,8,10,12,16	5
KIT HSK A63 HYDRO32X125	63	32.00	6,8,10,12,16,20,25	7

• Each kit contains one HYDROFIT chuck, a set of SC...HYDRO sealed reducers and a clamping wrench. • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

HYDROFIT
HOLDING LINE

Hydraulic Chuck

SC-HYDRO
Sealed Reduction Sleeves
for Hydraulic Chucks



Designation	DCONMS	DCONWS	LSCWS	OAL	BD	LH
SC 12 S HYDRO 3	12.00	3.00	19.0	46.50	16.00	2.0
SC 12 S HYDRO 4	12.00	4.00	24.0	46.50	16.00	2.0
SC 12 S HYDRO 5	12.00	5.00	28.0	46.50	16.00	2.0
SC 12 S HYDRO 6	12.00	6.00	33.0	46.50	16.00	2.0
SC 12 S HYDRO 8	12.00	8.00	39.0	46.50	16.00	2.0
SC 20 S HYDRO 3	20.00	3.00	20.0	53.00	24.00	2.0
SC 20 S HYDRO 4	20.00	4.00	25.0	53.00	24.00	2.0
SC 20 S HYDRO 5	20.00	5.00	27.0	53.00	24.00	2.0
SC 20 S HYDRO 6	20.00	6.00	34.0	53.00	24.00	2.0
SC 20 S HYDRO 8	20.00	8.00	39.0	53.00	24.00	2.0
SC 20 S HYDRO 10	20.00	10.00	40.0	53.00	24.00	2.0
SC 20 S HYDRO 12	20.00	12.00	41.0	53.00	24.00	2.0
SC 20 S HYDRO 14	20.00	14.00	44.0	53.00	24.00	2.0
SC 20 S HYDRO 16	20.00	16.00	44.0	53.00	24.00	2.0
SC 25 S HYDRO 6	25.00	6.00	37.0	60.00	30.00	4.0
SC 25 S HYDRO 8	25.00	8.00	37.0	60.00	30.00	4.0
SC 25 S HYDRO 10	25.00	10.00	40.0	60.00	30.00	4.0
SC 25 S HYDRO 12	25.00	12.00	44.0	60.00	30.00	4.0
SC 25 S HYDRO 14	25.00	14.00	46.0	60.00	30.00	4.0
SC 25 S HYDRO 16	25.00	16.00	48.0	60.00	30.00	4.0
SC 25 S HYDRO 18	25.00	18.00	50.0	60.00	30.00	4.0
SC 25 S HYDRO 20	25.00	20.00	50.0	60.00	30.00	4.0
SC 32 S HYDRO 6	32.00	6.00	33.0	66.00	40.00	4.0
SC 32 S HYDRO 8	32.00	8.00	38.0	66.00	40.00	4.0
SC 32 S HYDRO 10	32.00	10.00	39.0	66.00	40.00	4.0
SC 32 S HYDRO 12	32.00	12.00	42.0	66.00	40.00	4.0
SC 32 S HYDRO 14	32.00	14.00	44.0	66.00	40.00	4.0
SC 32 S HYDRO 16	32.00	16.00	44.0	66.00	40.00	4.0
SC 32 S HYDRO 18	32.00	18.00	44.0	66.00	40.00	4.0
SC 32 S HYDRO 20	32.00	20.00	49.0	66.00	40.00	4.0
SC 32 S HYDRO 25	32.00	25.00	66.0	66.00	40.00	4.0

• Any cylindrical, but only 6-20 mm Weldon shanks may be clamped in the sleeves.

SPINJET COOLANT DRIVEN HSM SPINDLES

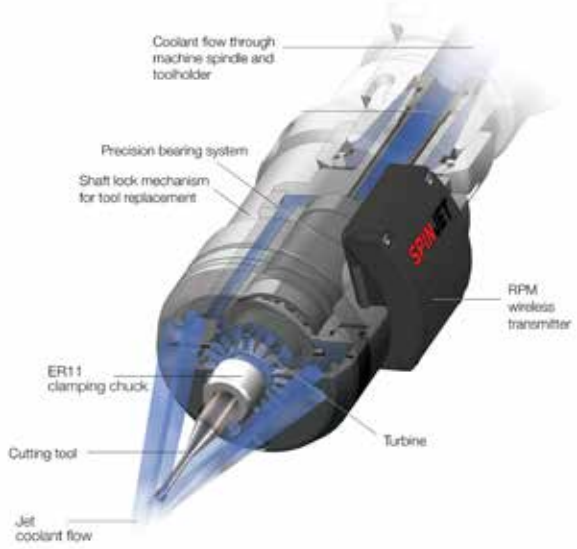
SPINJET – A unique, coolant-driven high speed compact spindle for small diameter tools.

The **SPINJET** spindles have been developed for use when high **RPM** is required for small diameter tools on limited **RPM** machines.

The spindles are for semi-finish and finish machining applications such as milling, drilling, engraving, chamfering / deburring and fine radial grinding.

General View

Internal Structure



Advantages

- **Reduced machining time** - High table speed, thus faster machining due to high rotation speed
- **High efficiency - Up to 65%** increased productivity compared to machining with the original machine with low **RPM** spindle
- **Energy saving** - The machine spindle is idle while the **SPINJET** is in operation
- **High precision** - Excellent surface quality due to optimized machining conditions
- **Plug & play** – Easy installation on existing machines with no adaptation required
- **Extended tool life** – As a result of optimal cutting conditions and strong jet coolant flow

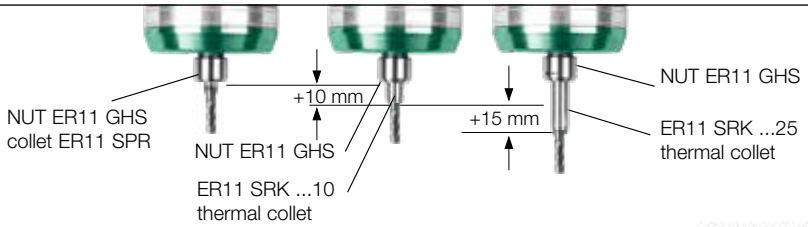
Features

Direct wireless rotation speed display

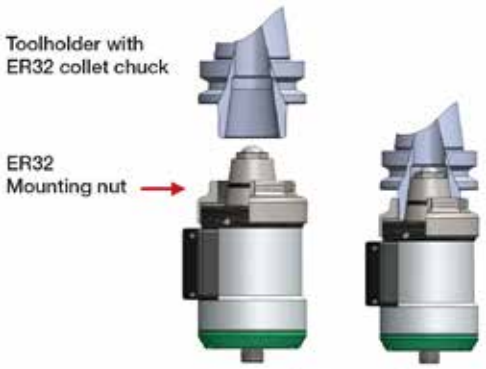
SPINJET is equipped with an online speed display system, monitoring the actual cutting tool rotation speed during machining.

- 2.4 **GH**z radio frequency transmission
- Direct wireless rotational speed monitoring in a range of **up to 10 meters**
- Externally powered display enables reading all **SPINJET** systems being used on the machine

A New Solution for Cutting Tool Overhang

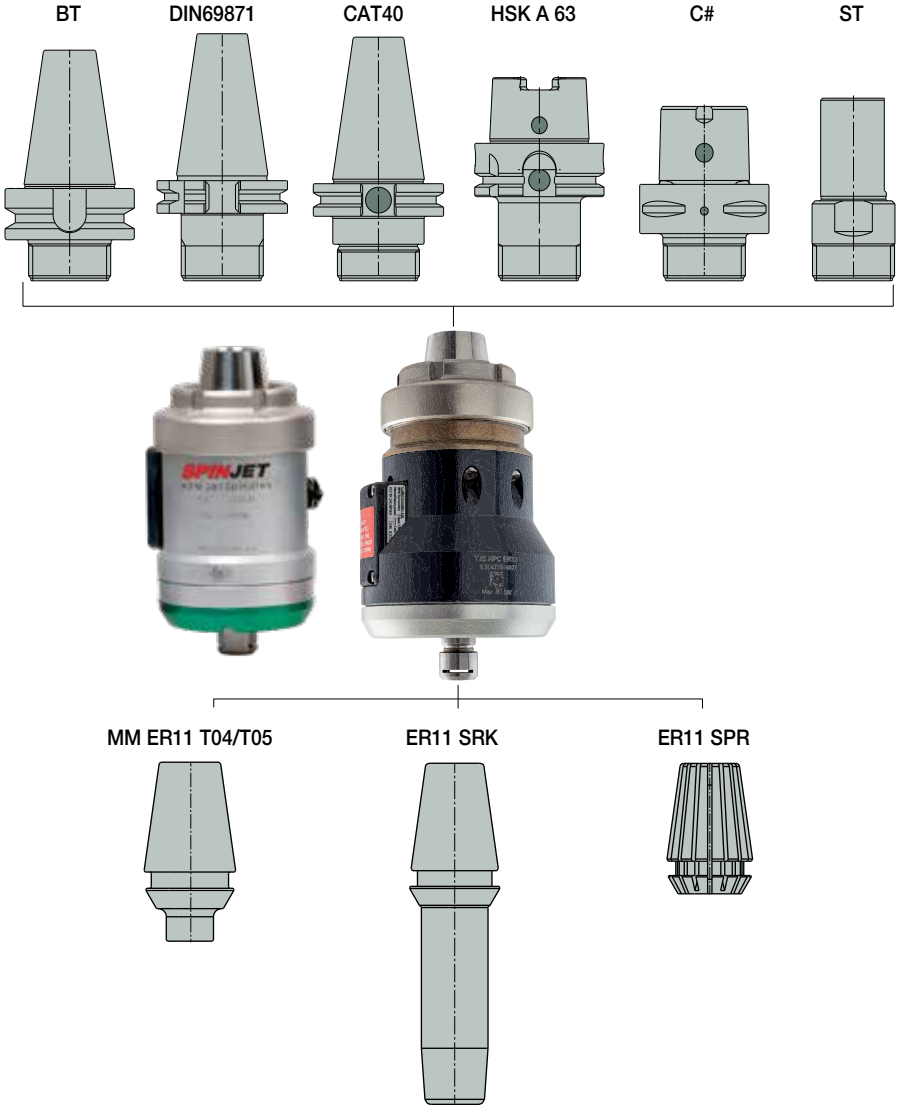


Built in **ER32** Collet Chuck
Featuring high precision and low runout, suitable for various standard toolholders with **ER32** taper.



TJS ...K-ER32 R

SPINJET-HPC ER32 LINE - Adaptation Options



Applications

Clamping type: **ER11** collet size

General Data

Operating Data	Model: HPC	**Model: SPINJET-GREEN LINE**
Operating range of coolant pressure [bar]	40-70	20 - 40
Operating range of coolant flow rate [l/min]	16-22	10-20
Rotational spindle speed [rpm]*	25,000-45,000	35000- 55000
Optimum cutting tool diameter [mm]	Drilling: 0.5 - 3.0	Drilling: 0.5 - 4
	Milling: 1.0 - 4.0	Milling: 1 - 3.5
Maximum tool shank diameter [mm]	7	7

Table 1. – General operating parameters

SPINJET-HPC LINE Spindle Applications

Drilling

Thread Milling

Milling

Engraving & Chamfering

Grinding

HSM Jet Spindle with mounting adaptation options (for illustration purposes only)

Spindle Case Contents	Display Case Contents
	
1. TJS Shaft Lock Key HPC 2. Wrench ER11 SMS 3. Battery - Lithium metal non-rechargeable, CR2 type 4. HW2.0: Hex (Allen) key	For Europe: 1. TJS TSD display EUR - wire-less RPM display 2. TJS DISP. power supply EUR - AC/DC 5V For USA/Japan: 1. TJS TSD display - USA 2. TJS DISP. power supply - USA - AC/DC 5V

Shaft lock flat key and wrench

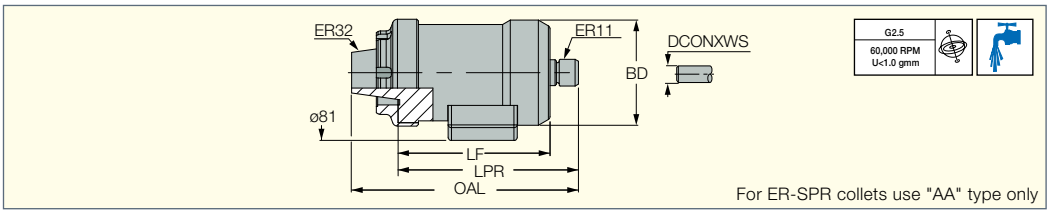
Spindle Case Contents	Display Case Contents
	
1. TJS Shaft Lock Key GJET 2. Wrench ER11 SMS 3. Battery - Lithium metal non-rechargeable, CR2 type 4. HW2.0: Hex (Allen) key	For Europe: 1. TJS TSD display EUR - wire-less RPM display 2. TJS DISP. power supply EUR - AC/DC 5V For USA/Japan: 1. TJS TSD display - USA 2. TJS DISP. power supply - USA - AC/DC 5V

Shaft lock flat key and wrench

SPINJET

TJS-GJET-ER32

Coolant Driven High Speed Compact Spindles with ER32 Shanks



Designation	LF	LPR	OAL	BD	DCONXWS(1)	kg
TJS GJET ER32	92.00	109.00	136.00	63.00	7.00	1.30

• Minimum coolant pressure 20 bar and flow rate 12 l/min • The spindle provides only external strong coolant jet around the tool • For user guide, see pages 1087-1090

(1) Maximum tool shank diameter

Spare Parts

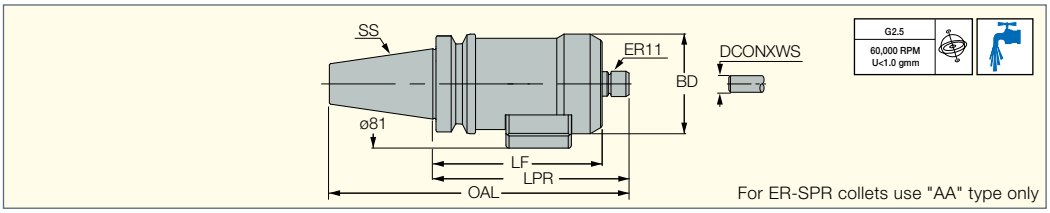
Designation					
TJS-GJET-ER32	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY GJET	TJS TSD DISPLAY*

* Optional, should be ordered separately

SPINJET BT MAS

TJS-GJET-BT

Coolant Driven High Speed Compact Spindles with BT Shanks



Designation	SS	LF	LPR	DCONXWS(1)	BD	OAL	kg
TJS GJET BT30	30	122.00	139.00	7.00	63.00	139.00	1.60
TJS GJET BT40	40	105.00	122.00	7.00	63.00	189.50	1.80

• Minimum coolant pressure 20 bar and flow rate 12 l/min • The spindle provides only external strong coolant jet around the tool • For user guide, see pages 1087-1090

(1) Maximum tool shank diameter

Spare Parts

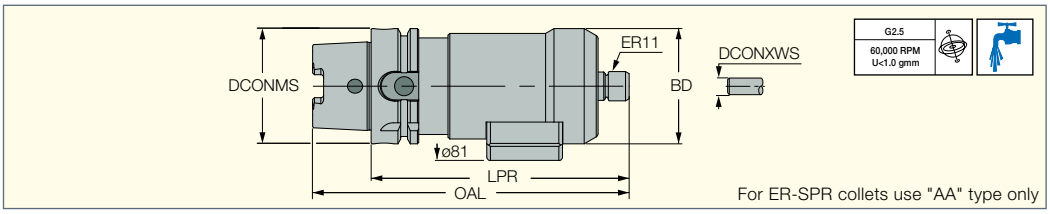
Designation					
TJS-GJET-BT	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY GJET	TJS TSD DISPLAY*

* Optional, should be ordered separately

SPINJET HSK

TJS-GJET-HSK A63

Coolant Driven High Speed Compact Spindles with HSK Shanks



Designation	DCONMS	LPR	OAL	BD	DCONXWS(1)	kg
TJS GJET HSK A63	63.00	141.00	173.00	63.00	7.00	1.80

• Minimum coolant pressure 20 bar and flow rate 12 l/min • The spindle provides only external strong coolant jet around the tool • For user guide, see pages 1087-1090

(1) Maximum tool shank diameter

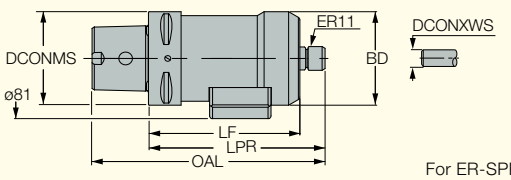
Spare Parts

Designation					
TJS-GJET-HSK A63	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY GJET	TJS TSD DISPLAY*

* Optional, should be ordered separately

SPINJET CAMFIX

TJS-GJET-C#
Coolant Driven High Speed Compact Spindles with CAMFIX (ISO 26623-1) Shanks



For ER-SPR collets use "AA" type only

Designation	DCONMS	LF	LPR	DCONXWS(1)	OAL	BD	kg
TJS GJET C5	50.00	112.00	129.00	7.00	129.00	63.00	1.50
TJS GJET C6	63.00	102.00	119.00	7.00	119.00	63.00	1.60

• Minimum coolant pressure 20 bar and flow rate 12 l/min • The spindle provides only external strong coolant jet around the tool • For user guide, see pages 1087-1090
(1) Maximum tool shank diameter

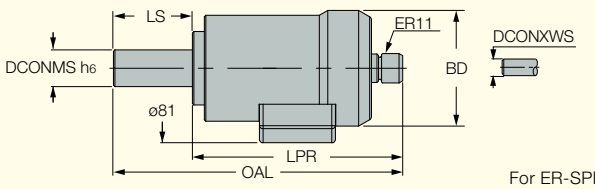
Spare Parts

Designation					
TJS-GJET-C#	TJS SHAFT LOCK KEY GJET	TJS TSD DISPLAY*	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0

* Optional, should be ordered separately

SPINJET

TJS-GJET-ST
Coolant Driven High Speed Compact Spindles with Cylindrical Shanks



For ER-SPR collets use "AA" type only

Designation	DCONMS	LPR	OAL	LS	DCONXWS(1)	BD	kg
TJS GJET ST20	20.00	115.00	158.00	43.0	7.00	63.00	1.20

• Minimum coolant pressure 20 bar and flow rate 12 l/min • The spindle provides only external strong coolant jet around the tool • For user guide, see pages 1087-1090
(1) Maximum tool shank diameter

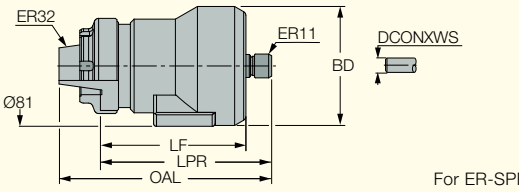
Spare Parts

Designation					
TJS-GJET-ST	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY GJET	TJS TSD DISPLAY*

* Optional, should be ordered separately

SPINJET

TJS HPC ER
High Pressure Coolant Driven HSM Spindle with ER32 Shank for Small Diameter Cutting Tools



For ER-SPR collets use "AA" type only

Designation	SS	DCONXWS	LF	LPR	OAL	BD	kg
TJS HPC ER32	ER32	7.00	99.00	116.00	144.00	80.00	1.70

• Coolant pressure 40-70 bar and flow rate 16-22 l/min • RPM range 35,000-50,000 RPM • The spindle provides only external strong coolant jet around the tool
• For user guide, see pages 1078-1090

Spare Parts

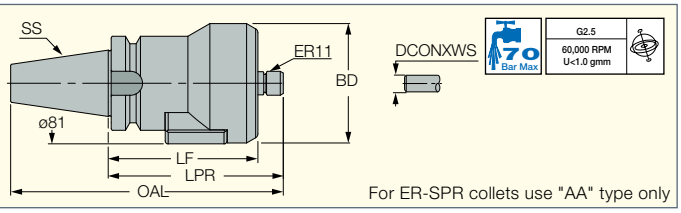
Designation					
TJS HPC ER	TJS TSD DISPLAY*	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY

* Optional, should be ordered separately

SPINJET BT MAS

TJS HPC BT

High Pressure Coolant Driven HSM Spindle with BT Shank for Small Diameter Cutting Tools



Designation	SS	LF	LPR	DCONXWS	OAL	BD	kg
TJS HPC BT40	BT40	100.00	117.00	7.00	183.00	80.00	1.90

- Coolant pressure 40-70 bar and flow rate 16-22 l/min • RPM range 35,000-50,000 RPM • The spindle provides only external strong coolant jet around the tool
- For user guide, see pages 1087-1090

Spare Parts

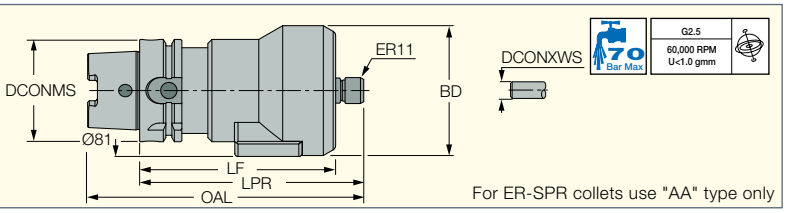
Designation					
TJS HPC BT	TJS TSD DISPLAY*	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY

* Optional, should be ordered separately

SPINJET HSK

TJS HPC HSK

High Pressure Coolant Driven HSM Spindle with HSK Shank for Small Diameter Cutting Tools



Designation	DCONMS	DCONXWS	LF	LPR	OAL	BD	kg
TJS HPC HSK A63	63.00	7.00	121.00	138.00	170.00	80.00	2.00

- Coolant pressure 40-70 bar and flow rate 16-22 l/min • RPM range 35,000-50,000 RPM • The spindle provides only external strong coolant jet around the tool
- For user guide, see pages 1087-1090

Spare Parts

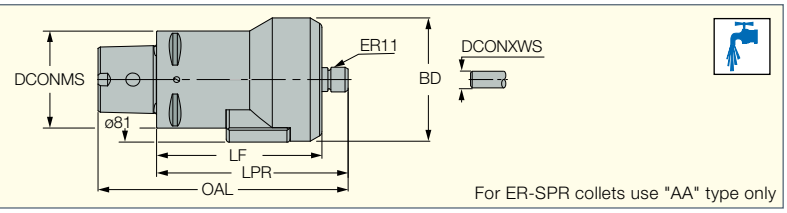
Designation					
TJS HPC HSK	TJS TSD DISPLAY*	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY

* Optional, should be ordered separately

CAMFIX SPINJET

TJS HPC C#

High Pressure Coolant Driven HSM Spindle with CAMFIX Shank for Small Diameter Cutting Tools



Designation	DCONMS	LF	LPR	DCONXWS	OAL	BD	kg
TJS HPC C6	63.00	107.00	124.00	7.00	162.00	80.00	2.00

- Coolant pressure 40-70 bar and flow rate 16-22 l/min • RPM range 35,000-50,000 RPM • The spindle provides only external strong coolant jet around the tool
- For user guide, see pages 1087-1090

Spare Parts

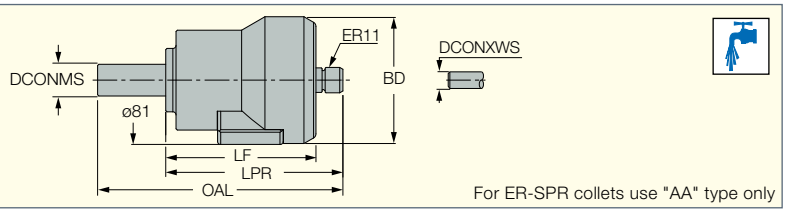
Designation				
TJS HPC C#	NUT ER11 GHS	WRENCH ER11 SMS	TJS TSD DISPLAY*	HW 2.0

* Optional, should be ordered separately

Straight Shank SPINJET

TJS HPC ST

High Pressure Coolant Driven HSM Spindle with Straight Shank for Small Diameter Cutting Tools



Designation	DCONMS	LF	LPR	BD	DCONXWS	OAL	kg
TJS HPC ST20	20.00	95.00	112.00	80.00	7.00	155.00	1.50

- Coolant pressure 40-70 bar and flow rate 16-22 l/min • RPM range 35,000-50,000 RPM • The spindle provides only external strong coolant jet around the tool
- For user guide, see pages 1087-1090

Spare Parts

Designation				
TJS HPC ST	NUT ER11 GHS	WRENCH ER11 SMS	TJS TSD DISPLAY*	HW 2.0

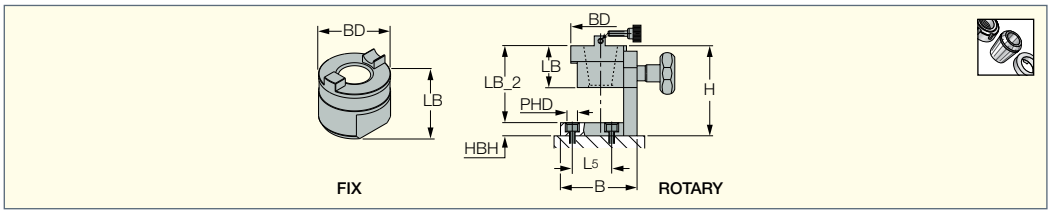
* Optional, should be ordered separately

AUXILIARY DEVICES

Accessories

TOOL CLAMP

Tool Clamp Fixture for
ISO, DIN 69871 and BT
MAS-403 Tool Shanks

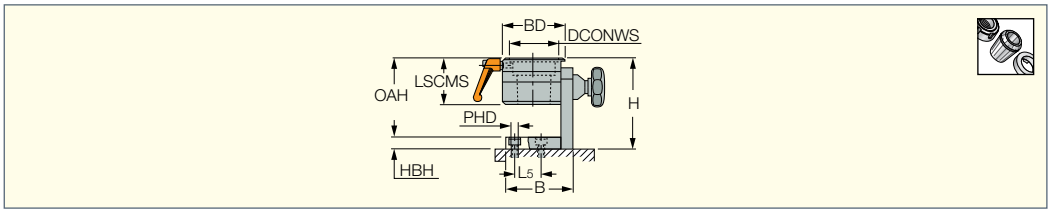


Designation	CSI	BD	LB	H	LB_2	HBH	B	L5	PHD
TOOL CLAMP 30 ROTARY	ROTARY	70.00	56.00	128.0	109.0	19.0	104.0	40.00	12.50
TOOL CLAMP 40 ROTARY	ROTARY	82.00	56.00	128.0	109.0	19.0	104.0	40.00	12.50
TOOL CLAMP 50 ROTARY	ROTARY	103.00	71.00	170.0	151.0	19.0	144.0	85.00	12.50
TOOL CLAMP 30 FIX	FIX	82.00	58.00	-	-	-	-	-	-
TOOL CLAMP 40 FIX	FIX	82.00	58.00	-	-	-	-	-	-
TOOL CLAMP 50 FIX	FIX	103.00	71.00	-	-	-	-	-	-

Accessories

MULTI CLAMP HSK (A/C, E/F)

Multi-Clamp Rotary Fixture
for HSK Shanks



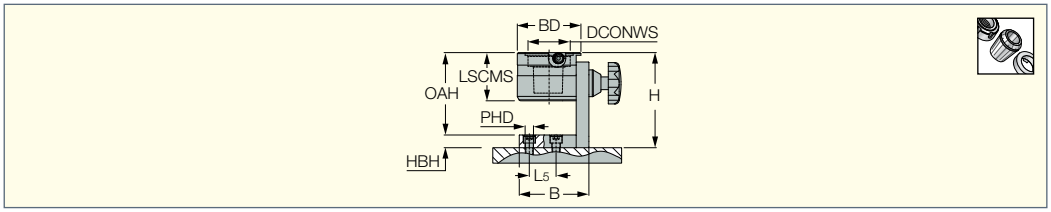
Designation	CSI	DCONWS	BD	LSCMS	H	OAH	HBH	B	L5	PHD
MULTI CLAMP 50 A/C	HSK A/C50	50.00	82.00	72.00	142.0	123.0	19.0	104.0	40.00	12.50
MULTI CLAMP 63 A/C	HSK A/C63	63.00	95.00	72.00	142.0	123.0	19.0	104.0	40.00	12.50
MULTI CLAMP 100 A/C	HSK A/C100	100.00	130.00	90.00	178.0	159.0	19.0	144.0	85.00	12.50
MULTI CLAMP 32 E/F	HSK E/F32	32.00	113.20	70.00	133.0	114.0	19.0	144.0	40.00	12.50
MULTI CLAMP 40 E/F	HSK E/F40	40.00	113.20	70.00	133.0	114.0	19.0	144.0	40.00	12.50
MULTI CLAMP 50 E/F	HSK E/F50	50.00	113.20	70.00	133.0	114.0	19.0	144.0	40.00	12.50
MULTI CLAMP 63 E/F	HSK E/F63	63.00	113.20	70.00	133.0	114.0	19.0	144.0	40.00	12.50
MULTI CLAMP 80 E/F (1)	HSK E/F80	80.10	130.00	72.00	178.0	159.0	19.0	144.0	85.00	12.50

(1) For HSK 80 E, F and pin flange shanks

Accessories

MULTI CLAMP C#

Rotary Clamping Fixtures
for CAMFIX (ISO 26623-1)
Tapered Shank Toolholders



Designation	S. Std.	SS	DCONWS	BD	LSCMS	H	OAH	HBH	B	L5	PHD
MULTI CLAMP C3	C3	32	32.00	70.00	64.00	128.0	109.0	19.0	104.0	40.00	12.50
MULTI CLAMP C4	C4	40	40.00	78.00	67.00	137.0	118.0	19.0	104.0	40.00	12.50
MULTI CLAMP C5	C5	50	50.00	82.00	72.00	142.0	123.0	19.0	104.0	40.00	12.50
MULTI CLAMP C6	C6	63	63.00	95.00	72.00	142.0	123.0	19.0	104.0	40.00	12.50
MULTI CLAMP C8	C8	80	80.00	130.00	90.00	178.0	159.0	19.0	104.0	85.00	12.50

Electrical Nut-Clamp Torque Control Device

- Ensures controlled (proper) clamping of cutting tools
- Maintains collet chuck accuracy
- Easy clamping and unclamping of cutting tools
- Handy set for various collet chuck sizes
- Main spindle taper #50
- Suitable for main shank standards
  #40, **#**50, **HSK** 63, **HSK** 100

Table Model

Specifications

Euro Motor:	1 phase 200**/240V** 50**/**60 **HZ** 1 **HP**
Weight:	Table model - 85 kg.
	Trolley (optional) - 15 kg.

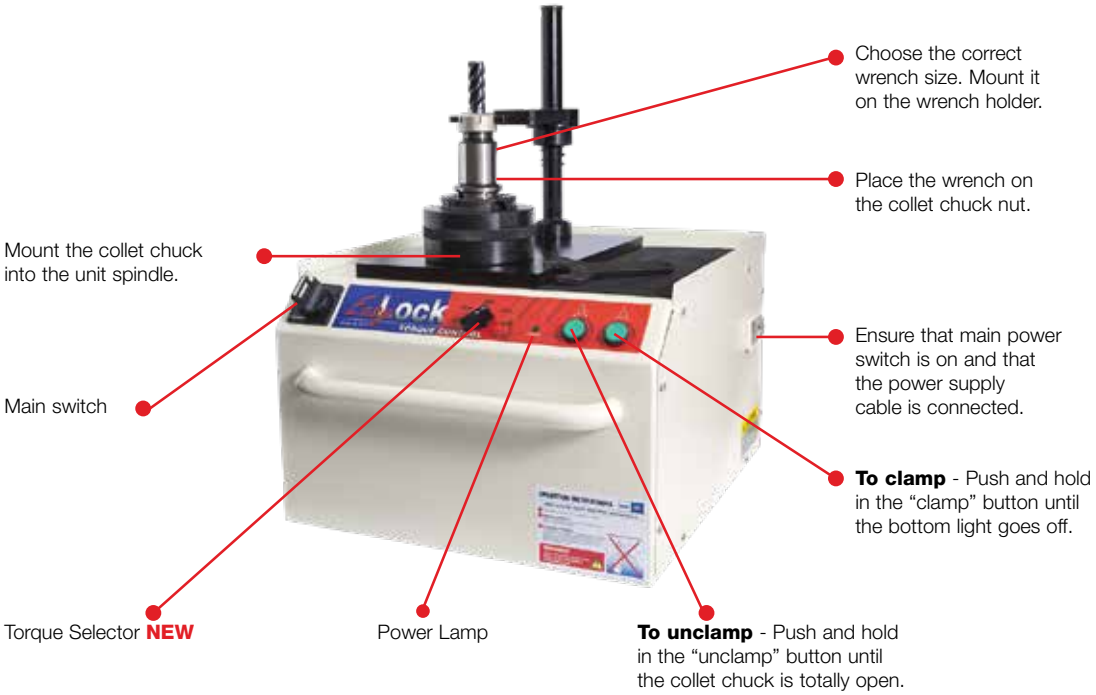
EASYLOCK Unit

Designation	Accessories	
	Standard	Optional
EASY LOCK T.C. EU	TP50 AD 40 EASY	EASY LOCK TROLLEY
	WRENCH ER16 EASY LOCK	TP40 AD 30 EASY
	WRENCH ER20 EASY LOCK	TP50 AD HSK 63 EASY
	WRENCH ER25 EASY LOCK	TP50 AD HSK 100 EASY
	WRENCH ER32 EASY LOCK	
	WRENCH ER40 EASY LOCK	WRENCH ER50 EASY LOCK
		WRENCH TG100 OPEN EASY
		WRENCH ROLLER 20/32

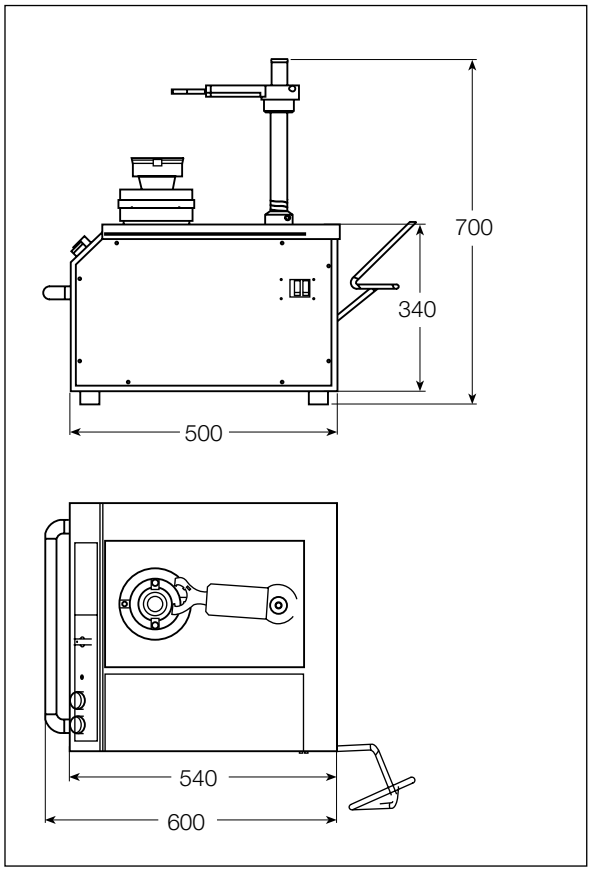
Electrical Nut-Clamp Torque Control Device

Power Clamping Unit for Collet Chucks

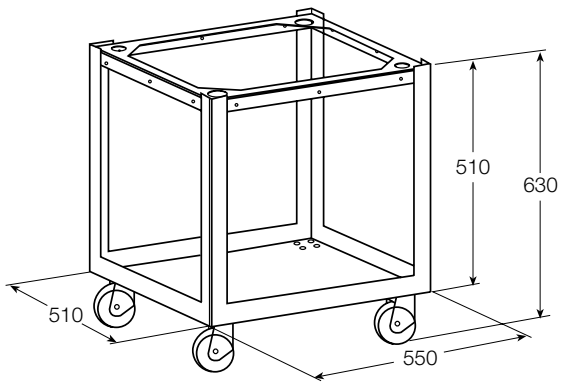
Safety precautions: never hold or touch the cutting tool, chuck or machine spindle during operation.



Note: Assemble the collet and cutting tool.
By hand, place the nut onto the collet chuck.



Trolley (optional)

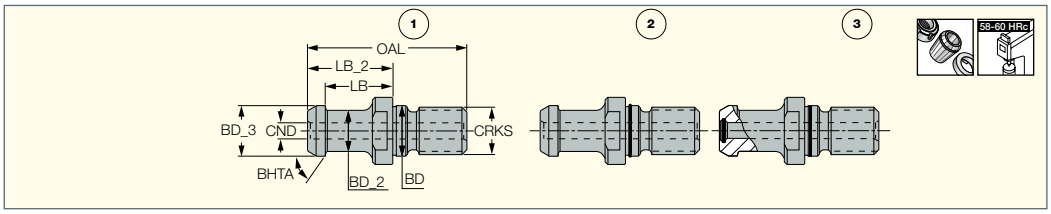


ACCESSORIES & SPARE PARTS

Accessories

PS BT-JIS (pull stud)

BT Pull Stud with JIS
63398 Retention Knob



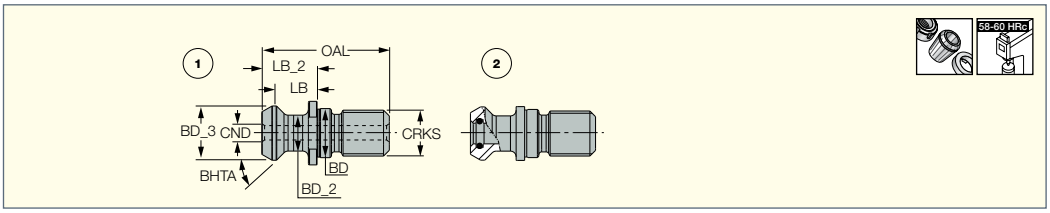
Designation	SS	CRKS	BD_3	BD_2	BD	CND	LB	OAL	LB_2	BHTA	Fig.
PS BT30 15 M12 JISB	30	M12	12.00	8.00	12.50	4.0	18.40	43.0	23.40	75.0	1.
PS BT40 15 M16 JIS 4OB	40	M16	19.00	14.00	17.00	4.0	23.00	54.0	29.00	75.0	2.
PS BT40 15 M16 JISB	40	M16	19.00	14.00	17.00	5.5	23.00	54.0	29.00	75.0	1.
PS BT40 15 M16 JISBO	40	M16	19.00	14.00	17.00	5.5	23.00	54.0	29.00	75.0	3.
PS BT40 15 M16 JISOB	40	M16	19.00	14.00	17.00	5.5	23.00	54.0	29.00	75.0	2.
PS BT50 15 M24 JIS B	50	M24	28.00	21.00	25.00	8.0	25.00	74.0	34.00	75.0	1.
PS BT50 15 M24 JIS OB	50	M24	28.00	21.00	25.00	8.0	25.00	74.0	34.00	75.0	2.
PS BT50 15 M24 JIS OBO	50	M24	28.00	21.00	25.00	8.0	25.00	74.0	34.00	75.0	3.

• Fig 1: With coolant holes only. • Fig 2: With coolant holes and external O-ring. • Fig 3: With coolant holes, external and internal O-rings.

Accessories

PS BT-MAZAK (pull stud)

BT Pull Stud with ANSI Retention Knob for MAZAK Machines



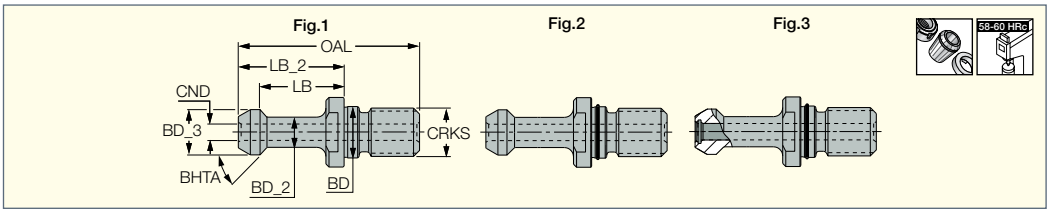
Designation	SS	CRKS	BD_3	BD_2	BD	CND	LB	OAL	LB_2	BHTA	Fig.
PS BT40 45 M16 MAZAKB	40	M16	18.80	12.40	17.00	7.0	14.03	44.1	19.10	45.0	1.
PS BT40 45 M16 MAZAKBO	40	M16	18.80	12.40	17.00	7.0	14.03	44.1	19.10	45.0	2.
PS BT50 45 M24 MAZAKB	50	M24	29.00	20.80	25.00	8.0	17.58	65.2	25.20	45.0	1.

• Fig 1: With coolant hole only. • Fig 2: With coolant hole and internal O-ring.

Accessories

PS BT-MAS (pull stud)

BT Pull Stud with MAS Retention Knob

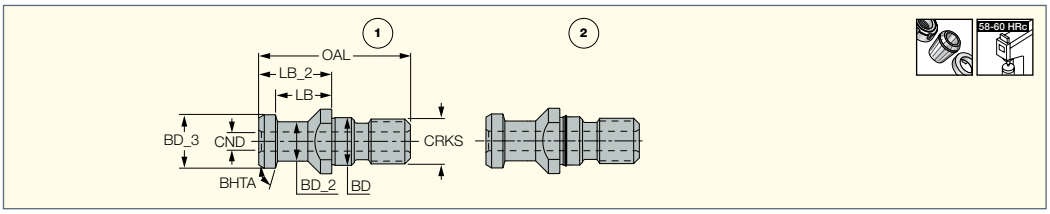


Designation	SS	CRKS	BD_3	BD_2	BD	CND	LB	OAL	LB_2	BHTA	Fig.
PS BT30 45 M12 MAS1	30	M12	11.00	7.00	12.50	-	18.00	43.0	23.00	45	1.
PS BT30 45 M12 MAS1B	30	M12	11.00	7.00	12.50	3.0	18.00	43.0	23.00	45	1.
PS BT30 60 M12 MAS2	30	M12	11.00	7.00	12.50	-	18.00	43.0	23.00	60	1.
PS BT40 45 M16 MAS1	40	M16	15.00	10.00	17.00	-	28.00	60.0	35.00	45	1.
PS BT40 45 M16 MAS1B	40	M16	15.00	10.00	17.00	4.0	28.00	60.0	35.00	45	1.
PS BT40 60 M16 MAS2	40	M16	15.00	10.00	17.00	-	28.00	60.0	35.00	60	1.
PS BT40 60 M16 MAS2 B	40	M16	15.00	10.00	17.00	5.5	28.00	60.0	35.00	60	1.
PS BT40 90 M16 MAS3	40	M16	15.00	10.00	17.00	-	28.00	60.0	35.00	90	1.
PS BT40 90 M16 MAS3 B	40	M16	15.00	10.00	17.00	5.5	28.00	60.0	35.00	90	1.
PS BT50 45 M24 MAS1	50	M24	23.00	17.00	25.00	-	35.00	85.0	45.00	45	1.
PS BT50 45 M24 MAS1 B	50	M24	23.00	17.00	25.00	6.0	35.00	85.0	45.00	45	1.
PS BT50 45 M24 MAS1 OB	50	M24	23.00	17.00	25.00	6.0	35.00	85.0	45.00	45	2.
PS BT50 45 M24 MAS1 OBO	50	M24	23.00	17.00	25.00	6.0	35.00	85.0	45.00	45	3.
PS BT50 60 M24 MAS2	50	M24	23.00	17.00	25.00	-	35.00	85.0	45.00	60	1.
PS BT50 60 M24 MAS2 OB	50	M24	23.00	17.00	25.00	6.0	35.00	85.0	45.00	60	2.
PS BT50 60 M24 MAS2B	50	M24	23.00	17.00	25.00	6.0	35.00	85.0	45.00	60	1.
PS BT50 90 M24 MAS3	50	M24	23.00	17.00	25.00	-	35.00	85.0	45.00	90	1.
PS BT50 90 M24 MAS3 B	50	M24	23.00	17.00	25.00	6.0	35.00	85.0	45.00	90	1.
PS BT50 90 M24 MAS3 OB	50	M24	23.00	17.00	25.00	6.0	35.00	85.0	45.00	90	2.

• Fig 1: With or without coolant holes (coolant holes only in items with a B suffix). • Fig 2: With coolant holes and external O-ring. • Fig 3: With coolant holes, external and internal O-rings.

Accessories

PS SK-DIN (pull stud)
SK Pull Stud with DIN
69872 Retention Knob

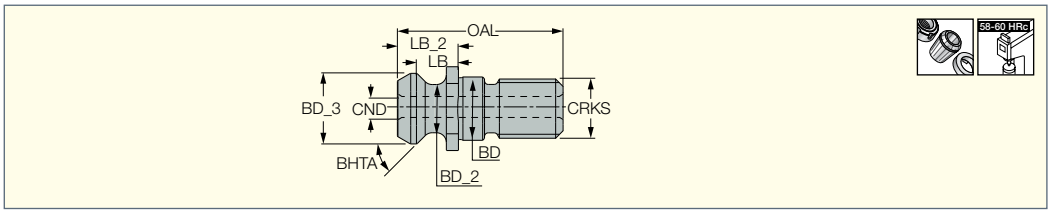


Designation	SS	CRKS	BD_3	BD_2	BD	CND	LB	OAL	LB_2	BHTA	Fig.
PS SK30 15 M12 DIN	30	M12	13.00	9.00	13.00	-	19.00	44.0	24.00	75.0	1.
PS SK40 15 M16 DIN	40	M16	19.00	14.00	17.00	-	20.00	54.0	26.00	75.0	1.
PS SK40 15 M16 DIN O	40	M16	19.00	14.00	17.00	-	20.00	54.0	26.00	75.0	2.
PS SK40 15 M16 DIN OB	40	M16	19.00	14.00	17.00	7.0	20.00	54.0	26.00	75.0	2.
PS SK40 15 M16 DINB	40	M16	19.00	14.00	17.00	7.0	20.00	54.0	26.00	75.0	1.
PS SK50 15 M24 DIN	50	M24	28.00	21.00	25.00	-	25.00	74.0	34.00	75.0	1.
PS SK50 15 M24 DIN O	50	M24	28.00	21.00	25.00	-	25.00	74.0	34.00	75.0	2.
PS SK50 15 M24 DINB	50	M24	28.00	21.00	25.00	11.5	25.00	74.0	34.00	75.0	1.

• Coolant holes only in items with a B suffix • Fig 1: Without or with coolant holes • Fig 2: Without or with coolant holes and external O-ring

Accessories

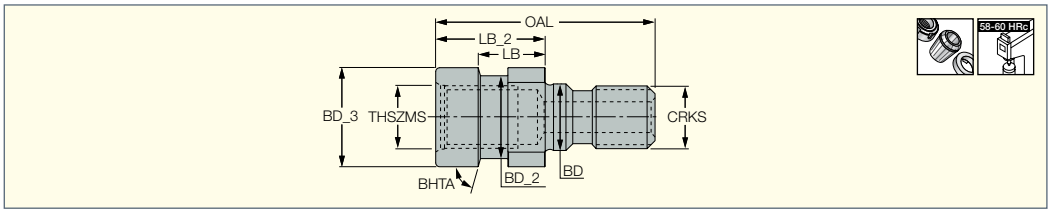
PS CAT-ISO (pull stud)
CAT Pull Studs with ISO
Retension Knob



Designation	SS	CRKS	BD_3	BD_2	BD	CND	LB	OAL	LB_2	BHTA
PS CAT30 45 M12ISOB	30	M12	13.40	9.80	13.00	4.8	8.13	34.0	11.80	45
PS CAT40 45 M16ISOB	40	M16	18.00	12.95	17.00	7.4	11.15	44.5	16.40	45
PS CAT50 45 M24ISOB	50	M24	29.10	19.60	25.00	8.0	17.95	65.5	25.55	45

Accessories

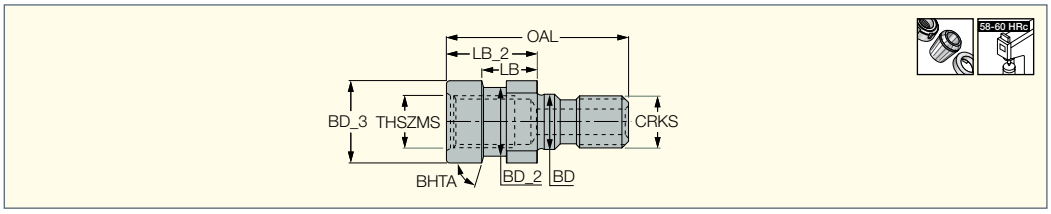
PS OTT-BT (pull stud)
BT/SK Pull Stud with OTT
System Retention Knob



Designation	SS	CRKS	THSZMS	BD_3	BD_2	BD	LB	OAL	LB_2	BHTA
PS OTT BT40 M16	40	M16	M16	25.00	21.10	17.00	16.60	56.0	28.00	75.0
PS OTT BT50 M24	50	M24	M24	39.30	32.00	25.00	13.35	65.0	25.00	75.0

Accessories

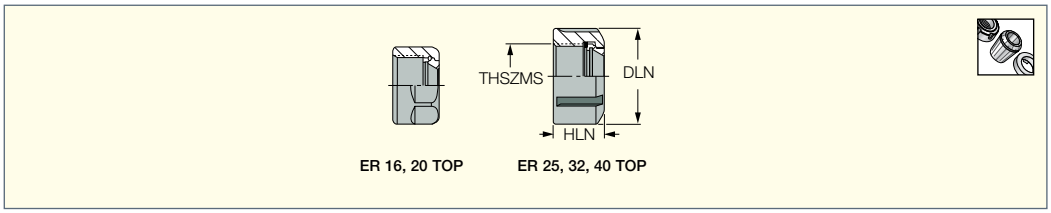
PS OTT-SK (pull stud)
SK Pull Stud with OTT
System Retention Knob



Designation	SS	CRKS	THSZMS	BD_3	BD_2	BD	LB	OAL	LB_2	BHTA
PS OTT SK40 M16	40	M16	M16	25.00	21.10	17.00	13.00	53.0	25.00	75

Accessories

NUT ER-TOP
ER-TOP Clamping Nuts for
DIN 6499 Collet Chucks

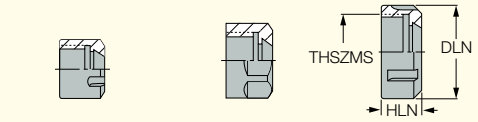


Designation	DLN	HLN	THSZMS	TQ
NUT ER16 TOP	28.00	17.80	M22X1.5	68.7
NUT ER20 TOP	34.00	19.00	M25X1.5	117.7
NUT ER25 TOP	42.00	20.00	M32X1.5	196.2
NUT ER32 TOP	50.00	22.50	M40X1.5	215.8
NUT ER40 TOP	63.00	25.00	M50X1.5	245.3

Accessories

NUT ER-MINI/UM

Clamping Nuts for DIN 6499 ER Collet Chucks



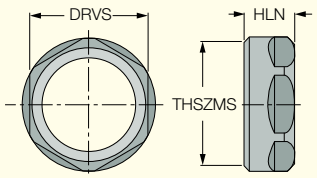
ER 11, 16, 20, 25 Mini — UM ER 16, 20 — UM ER 25, 32, 40, 50

Designation	DLN	HLN	THSZMS	N·m
NUT ER11 MINI	16.00	10.80	M13X0.75	29.4
NUT ER11 UM	19.00	11.30	M14X0.75	49.1
NUT ER16 MINI	22.00	18.00	M19X1.0	39.2
NUT ER16 UM	28.00	17.00	M22X1.5	68.7
NUT ER20 MINI	28.00	19.00	M24X1.0	78.5
NUT ER20 UM	34.00	19.50	M25X1.5	117.7
NUT ER25 MINI	35.00	20.00	M30X1.0	98.1
NUT ER25 UM	42.00	20.00	M32X1.5	196.2
NUT ER32 UM	50.00	22.00	M40X1.5	215.8
NUT ER40 UM	63.00	25.00	M50X1.5	245.3
NUT ER50 UM	78.00	35.00	M64X2.0	343.4

Accessories

NUT ER-SHORT

Nuts for SHORTIN Short ER Collet Chucks



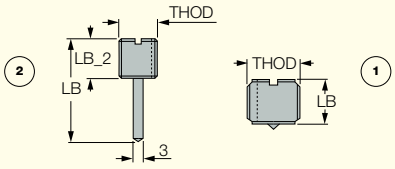
Designation	DRVS(1)	HLN	THSZMS	N·m
NUT ER20 SHORT	22.0	10.70	M25X1.5	117.7
NUT ER32 SHORT	36.0	15.00	M40X1.5	215.8
NUT ER40 SHORT	46.0	16.00	M50X1.5	245.3

(1) Key flat size

Accessories

PRESET ER-JET

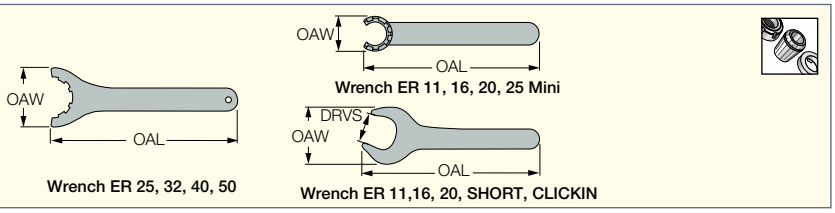
Preset Screws with Oil Holes for ER Sealed Collets (optional)



Designation	THOD	LB	LB_2	Fig.
PRESET ER-JET 8X1	M8X1	15.00	-	1.
PRESET ER-JET 8X1.25	M8X1.25	15.00	-	1.
PRESET ER-JET 10X1.5	M10X1.5	15.00	-	1.
PRESET ER-JET 12X1	M12X1	15.00	-	1.
PRESET ER-JET 12X1.75	M12X1.75	15.00	-	1.
PRESET ER-JET 12X1.75L	M12X1.75	40.00	15.0	2.
PRESET ER-JET 14X1	M14X1	15.00	-	1.
PRESET ER-JET 16X2	M16X2	15.00	-	1.
PRESET ER-JET 16X2L	M16X2	40.00	15.0	2.
PRESET ER-JET 18X1	M18X1	15.00	-	1.
PRESET ER-JET 18X1.5	M18X1.5	15.00	-	1.
PRESET ER-JET 18X1.5L	M18X1.5	40.00	15.0	2.
PRESET ER-JET 22X1.5	M22X1.5	15.00	-	1.
PRESET ER-JET 22X1.5L	M22X1.5	40.00	15.0	2.
PRESET ER-JET 28X1.5	M28X1.5	15.00	-	1.

Accessories

WRENCH ER
Wrench for ER DIN 6499 Clamping Nut

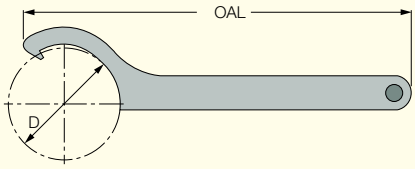


Designation	OAW	DRVS[1]	OAL
WRENCH ER11 MINI	16.80	-	95.00
WRENCH ER11	32.00	17.0	95.00
WRENCH ER16 MINI	22.50	-	117.00
WRENCH ER16	42.80	25.0	143.00
WRENCH ER20 MINI	28.00	-	128.00
WRENCH ER20	53.50	30.0	172.00
WRENCH ER25 MINI	29.00	-	120.00
WRENCH ER25	70.00	-	207.00
WRENCH ER32	78.00	-	255.00
WRENCH ER40	95.00	-	285.00
WRENCH ER50	110.00	-	350.00
WRENCH ER32 SHORT	75.00	36.0	303.00
WRENCH ER40 SHORT	94.00	46.0	378.00
WRENCH ER32 CLICKIN 27	57.00	27.0	239.00
WRENCH ER32 CLICKIN 32	67.00	32.0	273.00

(1) Key flat size

Accessories

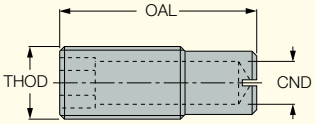
WRENCH MAXIN
Wrench for MAXIN Collets



Designation	D	OAL
WRENCH MAXIN 20 HOOK	26.00	205.00
WRENCH MAXIN 32 HOOK	68.00	240.00

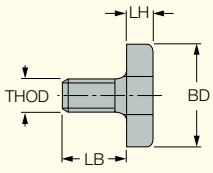
MAXIN Power Chuck

PRESET MAXIN
Tool Stopper Preset Screws for MAXIN Collet Chucks



Designation	THOD	OAL	CND	Key
PRESET MAXIN 16X30	M16	30.00	8.0	8.00
PRESET MAXIN 16X44	M16	44.00	8.0	8.00
PRESET MAXIN 20X55	M20	55.00	12.0	12.00

SEM Clamping Screws
Lock Screws DIN 6367 for COMBI Shell Mill Holders



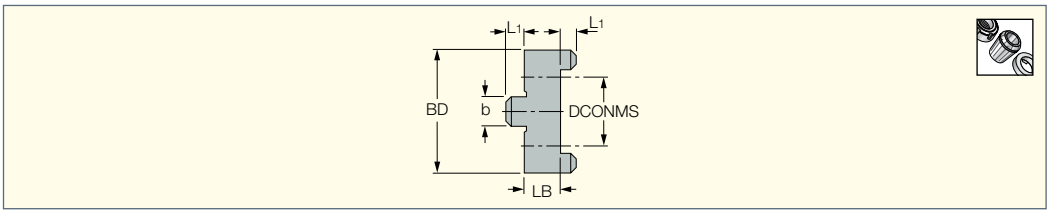
Designation	THOD	BD	LH	LB
M8 CLAMP SCREW SEM16	M8	20.00	6.0	16.00
M10 CLAMP SCREW SEM22	M10	28.00	7.0	18.00
CLAMP SCREW 6368-27-M12 (1)	M12	35.00	9.0	22.00
M12 CLAMP SCREW SEM27	M12	35.00	8.0	22.00
CLAMP SCREW 6368-32-M16 (1)	M16	42.00	10.0	26.00
M16 CLAMP SCREW SEM32	M16	42.00	9.0	26.00
CLAMP SCREW 6368-40-M20 (1)	M20	52.00	11.0	30.00
M20 CLAMP SCREW SEM40	M20	52.00	10.0	30.00
M24 CLAMP SCREW SEM50	M24	63.00	12.0	36.00

(1) Round head

Accessories

Driving Ring-SEMC

Driving Rings DIN 6366/1 for COMBI Shell Mill Holders

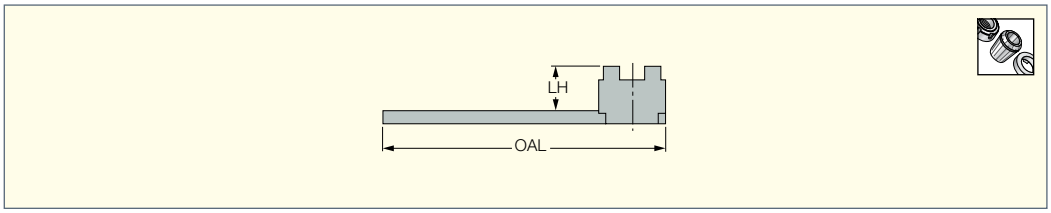


Designation	DCONMS	BD	LB	b	L_1
16 D.RING SEMC	16.00	32.00	10.00	8.0	5.0
22 D.RING SEMC	22.00	40.00	12.00	10.0	6.0
27 D.RING SEMC	27.00	48.00	12.00	12.0	6.3
32 D.RING SEMC	32.00	58.00	14.00	14.0	7.0
40 D.RING SEMC	40.00	70.00	14.00	16.0	8.0
50 D.RING SEMC	50.00	90.00	16.00	18.0	9.0

Accessories

WRENCH SEMC

Wrench DIN 6368 for Face and COMBI Shell Endmill Holders

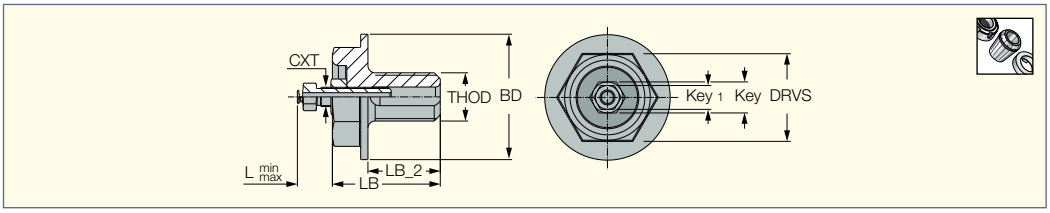


Designation	DRVS[1]	FTDZ	OAL	LH
WRENCH M8 SEMC16	16.0	M8	180.00	20.0
WRENCH M10 SEMC 22	22.0	M10	200.00	25.0
WRENCH M12 SEMC 27	27.0	M12	225.00	32.0
WRENCH M16 SEMC 32	32.0	M16	250.00	36.0
WRENCH M20 SEMC 40	40.0	M20	280.00	40.0
WRENCH M24 SEMC 50	50.0	M24	315.00	50.0

[1] Key flat size

Accessories

COOLANT SET
Clamping Screws with Adjustable Protrusion Nozzles for Shell-Type Face Mills



Designation	BD	THOD	CXT	LB	LB_2	L min	L max	Key(1)	Key 1(2)	DRVS(3)
COOLANT SET SR M10X1.5-22	28.00	M10	M4	25.00	18.00	2.0	17.0	7.00	6.00	21.00
COOLANT SET SRM12X1.75-27	35.00	M12	M4	31.00	22.00	2.0	17.0	7.00	6.00	27.00
COOLANT SET SR M16X2-32	42.00	M16	M8	37.00	26.00	3.0	25.0	13.00	10.00	30.00
COOLANT SET SR M20X2.5-40	52.00	M20	M8	45.00	30.00	3.0	25.0	13.00	10.00	36.00

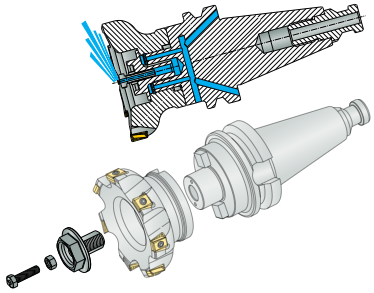
(1) For the nut
(2) For the nozzle
(3) For the screw

Clamping Screws with Adjustable Protrusion Nozzles for Shell-Type Face Mills

The protrusion of the nozzle screw can be easily adjusted according to countersink depth, insert size or any other application requirements. The nozzle screw position can be secured by a locking nut.
Tests show that cutting fluid supplied through the axis of a tool and directed radially at the bottom of the tool dramatically improves both the cooling effect and chip evacuation.
The screws are offered as sets, comprising a nozzle screw, locking screw, a locking nut and washers.

The locking nut can be tightened by a standard open-ended wrench, or preferably by an offset ring wrench (ISO 10104, DIN 838 or DIN 897 standards).
If desired, the following ring wrenches can also be ordered from ISCAR:

- 7000783 Ring Wrench 10X13 mm for coolant set SR M20X2.5-40 and Coolant set SR M16X2-32
- 7000788 Ring Wrench 6X7 mm for coolant set SRM12X1.75-27 and coolant set SR M10X1.5-22.



Assembly with a Lock Nut

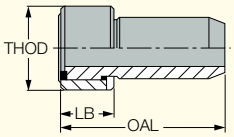
Assembly without a Lock Nut

Spare Parts

Designation			
COOLANT SET SR M10X1.5-22	WA M4DIN433	NOZZLE M4	
COOLANT SET SRM12X1.75-27	WA M4DIN433	NOZZLE M4	
COOLANT SET SR M16X2-32	WA M8DIN433A2	NOZZLE M8	NUT M8 DIN 934 A2
COOLANT SET SR M20X2.5-40	WA M8DIN433A2	NOZZLE M8	NUT M8 DIN 934 A2

Accessories

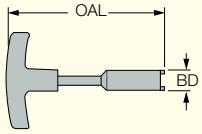
COOLING TUBE HSK-A
Cooling Tubes for HSK-A Shanks



Designation	OAL	LB	THOD
COOLING TUBE HSK A40	29.50	7.5	M12X1
COOLING TUBE HSK A50	33.00	9.5	M16X1
COOLING TUBE HSK A63	36.50	11.5	M18X1
COOLING TUBE HSK A80	40.00	13.5	M20X1.5
COOLING TUBE HSK A100	44.00	15.5	M24X1.5
COOLING TUBE HSK A125	48.00	17.5	M30X1.5

Accessories

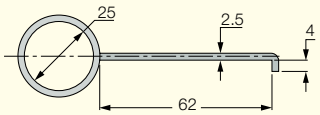
WRENCH HSK
HSK-A Cooling Tube Wrench



Designation	OAL	BD
WRENCH COOL TUBE HSK32	8.50	115.00
WRENCH COOL TUBE HSK40	10.50	115.00
WRENCH COOL TUBE HSK50	14.50	115.00
WRENCH COOL TUBE HSK63	16.50	136.00
WRENCH COOL TUBE HSK80	18.50	136.00
WRENCH COOL TUBE HSK100	22.00	136.00
WRENCH COOL TUBE HSK125	24.50	175.00

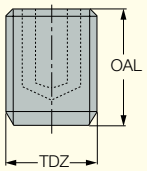
Accessories

EXTRACTOR SC COLLETS
SC Collet Extraction Hook



Accessories

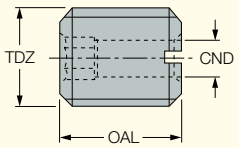
SCREW EM
Lock Screw for Endmill Holder



Designation	TDZ	OAL	SS
SR M6X10 DIN1835B	M6	10.00	6
SR M8X10 DIN1835-B	M8	10.00	8
SR M10X12 DIN1835-B	M10	12.00	10
SR M12X16 DIN1835-B	M12	16.00	12,14
SR M14X16 DIN1835-B	M14	16.00	16,18
SR M16X16 DIN1835-B	M16	16.00	20
SR M18X2X20 DIN1835-B	M18X2	20.00	25
SR M20X2X20 DIN1835-B	M20X2	20.00	32,40
SR M24X2X25 DIN1835-B	M24X2	25.00	50
SR M16X10.3 EM SHORT	M16	10.30	20
SR M18X2X10 EM SHORT	M18X2	10.00	25

Accessories

SRKIN PRESET SCREW
Preset Screw for SRKIN Thermal Shrink Collets with Coolant Holes

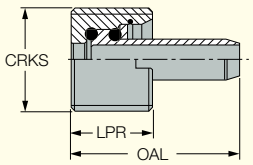


Designation	TDZ	OAL	CND	Key	SS
PRESET M5X18B	M5X0.8	18.00	2.10	2.50	EM E/SRKIN
PRESET M6X20B	M6X1	20.00	2.50	3.00	EM E/SRKIN
PRESET M8X20B	M8X1.25	20.00	3.50	4.00	EM E/SRKIN
PRESET M10X18B	M10X1.5	18.00	4.50	5.00	EM E/SRKIN
PRESET M12X18B	M12X1.75	18.00	5.50	6.00	EM E/SRKIN
PRESET M16X20B	M16X2	20.00	7.50	6.00	EM E/SRKIN
PRESET M16X25B	M16X2	25.00	7.50	6.00	SRKIN
PRESET M20X20E	M20X2.5	20.00	6.00	6.00	EM E

Accessories

COOLING TUBE C#

Cooling Tubes for CAMFIX
(ISO 26623-1) Shanks



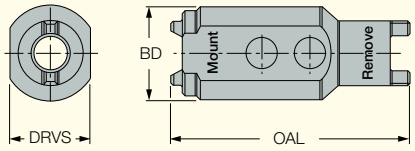
Designation	LPR	CRKS	OAL
COOLING TUBE C3	10.00	M12x1.5	22.30
COOLING TUBE C4	12.00	M14x1.5	25.40
COOLING TUBE C5	14.00	M16x1.5	28.50
COOLING TUBE C6	15.00	M20x2	31.00
COOLING TUBE C8	15.00	M20x2	31.50
COOLING TUBE C10	16.00	M24x2	34.00

• Refer to machine manual before mounting CAMFIX Cooling Tube • Check that clamping drawbar has O-ring inside • Apply Loctite 542 (or equivalent) on coolant tube thread to secure/seal the thread • Mount cooling tube (ONLY) by using Cooling Tube C# wrench with "mount" side

Accessories

WRENCH COOL TUBE C#

Clamping and Removing
Wrenches for CAMFIX
(ISO 26623-1) Cooling Tubes



Designation	OAL	BD	DRVS[1]
WRENCH COOL TUBE C3	40.00	14.80	12.0
WRENCH COOL TUBE C4	45.00	17.80	15.0
WRENCH COOL TUBE C5	50.00	20.80	16.9
WRENCH COOL TUBE C6	60.00	27.80	19.0
WRENCH COOL TUBE C8	60.00	31.80	22.0
WRENCH COOL TUBE C10	75.00	42.80	25.9

(1) Key flat size