



## ARBOR AND ADAPTER SYSTEMS

Tooling systems and application consulting for the milling of complex 2.5 and 3D geometries



 **pokolm**  
PREMIUM TOOLS. WE KNOW HOW.

# OUR CATALOGUE ON ARBOR AND ADAPTER SYSTEMS

## The Catalogue on Arbor and Adapter Systems from Pokolm

Dear Customer, In this catalogue you will find up-to-date and detailed documentation about Pokolm arbor and adapter systems.

Extremely customer-friendly: this catalogue is entirely structured around the machine side connection!

Our arbor and adapter system product catalogue has been enhanced in order to meet the current industry requirements and also now includes important and interesting information.

We are sure that you will be able to quickly find our products and the necessary information in the new catalogue structure. If you have any questions, suggestions or particular product requirements then do not hesitate to contact us!

We are happy to be of service and look forward to hearing from you!

Your Pokolm Team



Imprint

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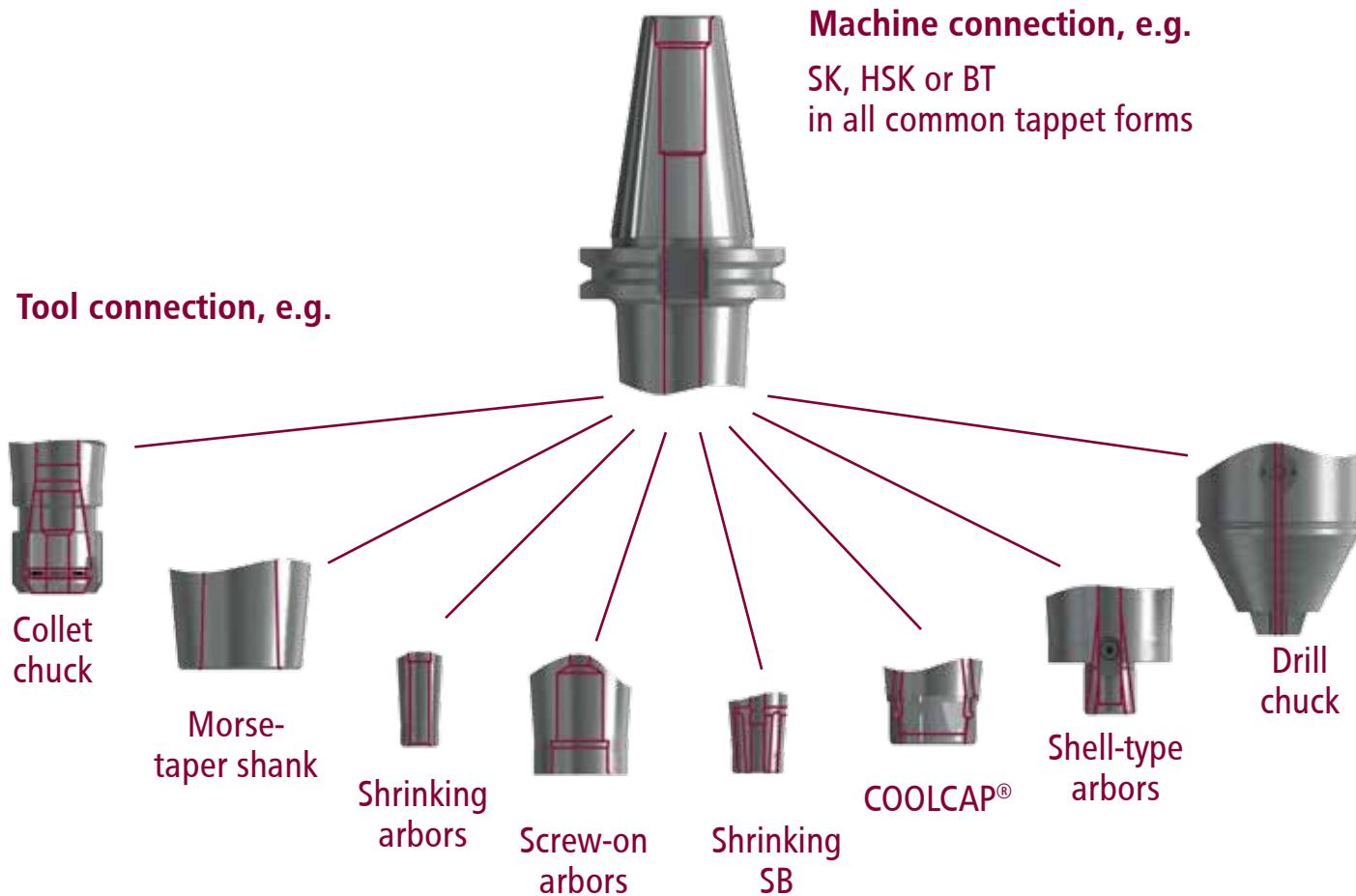
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# THE STRUCTURE: 1. MACHINE, 2. TOOL

**B**eing better means not just staying ahead of the competition but also scrutinising ones own products and services looking for ways to improve and become more efficient. Pokolm is well-known for this practice. This is also one of the reasons why successful practitioners choose Pokolm premium tools. This added value that gives Pokolm customers a decisive edge over the competition is created by merging excellent products with outstanding technical service advice and tailoring both entirely to the needs of the customer. The structure of the product range and the corresponding documentation must also be 100% customer-oriented in accordance with Pokolm's standards.



The structure of the Pokolm arbor and adapter catalogue is customer-oriented. This is because it structured around a machine-side connection. Simply choose the connection form and connection dimension in the

structure for the type of machine in use and all of the corresponding tool connections will be listed thereunder. The arbors within this group are then categorised according to the connection type and size.

## PURCHASE- AND INFO-HOTLINE



**Pokolm  
Frästechnik GmbH & Co. KG**

 +49 5247 9361-0

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 7:30 a.m. - 6:00 p.m. (on working days)

⌚ Your purchase up to 5:00 p.m. for same-day shipping!

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# ARBOR AND ADAPTER SYSTEMS

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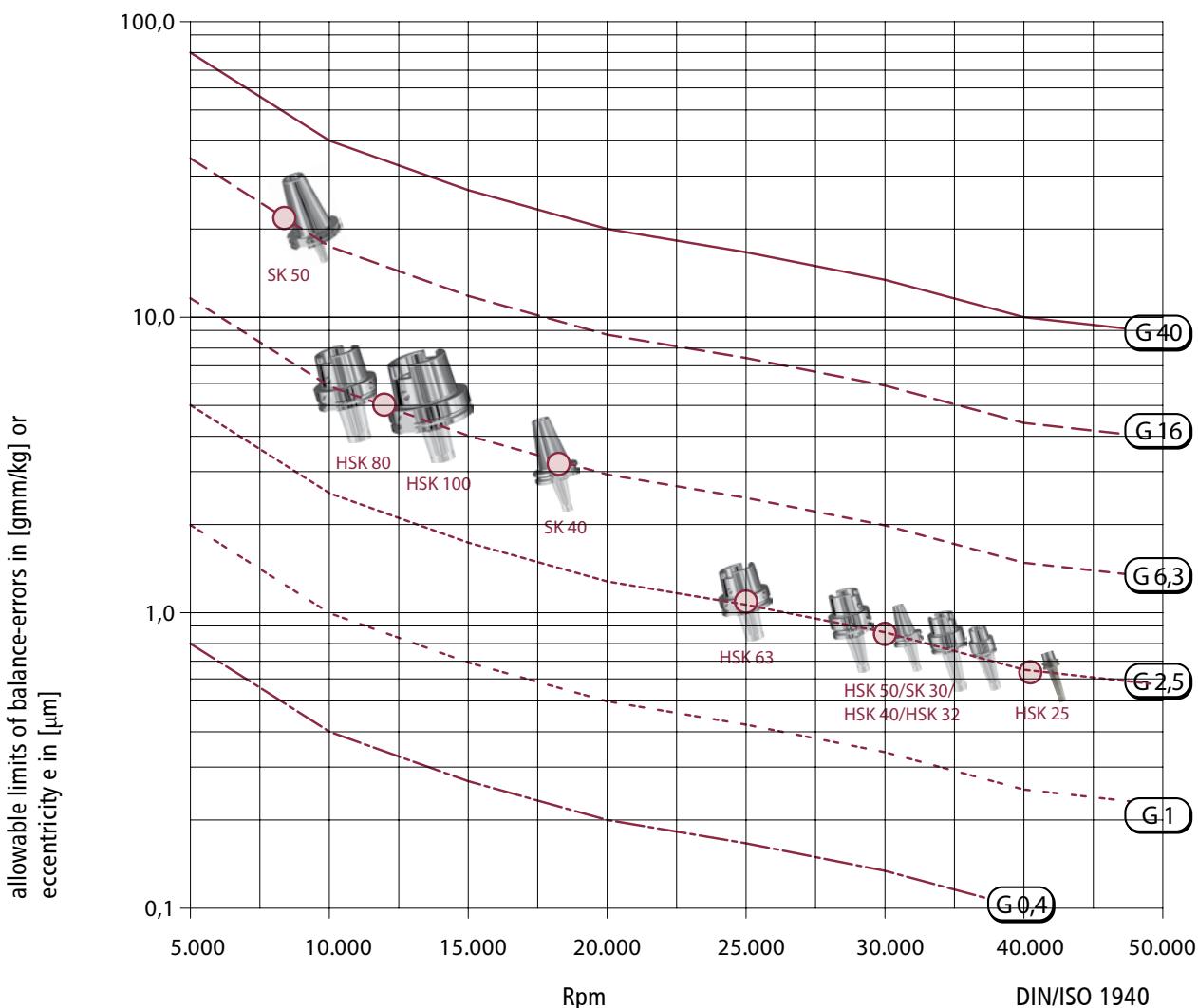
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# BALANCING

## Balance grades of Pokolm arbors and adapters

Kind of taper	ISO/BT			HSK					
view									
size	30	40	50	25	32	40	50	63	100
form				all	all	all	all	all	all
grade level	2,5	6,3	16	2,5	2,5	2,5	2,5	6,3	6,3
rpm	30.000	18.000	8.000	40.000	30.000	30.000	30.000	25.000	12.000

Deviations from this chart are possible – please tell us what your requirements are.



# CALCULATIONS AND DEFINITIONS

## Balancing grade classifications and typical applications:

- G 0,4** e.g. microfinishing machines
- G 1** e.g. low-power motors, driving gears for grinding machines
- G 2,5** e.g. cutting tools, small arbors and adapters, electrical motors, turbines
- G 6,3** e.g. cutting tools, arbors and adapters, machine tool parts
- G 16** e.g. big arbors, cardan shafts, drive shafts
- G 40** e.g. universal shafts, automotive wheels, crank gear drives

## Formulas:

Calculation of remaining balance error in [gmm/kg]

$$e = \frac{U}{m}$$

Calculation of radian frequency in [1/s]

$$\omega = \frac{2 \cdot \pi \cdot n}{60}$$

Calculation of balancing grade levels in [mm/s]

$$G = e \cdot \omega = \frac{U \cdot \pi \cdot n}{m \cdot 30}$$

Calculation of compensation mass

$$m_r = \frac{e \cdot m}{r}$$

## Definitions and dimensions:

**G** = balancing grade level in [mm/s]

**U** = balance error [ $m \cdot e$ ] in [gmm]

**e** = remaining balance error in [gmm] or eccentricity of center in [ $\mu\text{m}$ ]

**m** = rotor weight in [g]

**$\omega$**  = radian frequency ( $2 \cdot \pi \cdot f$ ) in [1/s]

**F** = centrifugal force ( $U \cdot \omega$ ) in [N]

**f** = frequency ( $n/60$ ) in [1/s]

**r** = remaining balance error in [mm]

**n** = rpm

**$m_r$**  = remaining balance error [g]

# BALANCE ERRORS AND BALANCING

## Definition of balance error



Rotational axis ≠ mass axis

A balance error occurs when the rotational axis of a rotor part does not correspond to its mass axis.



Rotational axis = mass axis

## Reasons for Balance Errors:

- ⌚ Indexing seat for tool changer in SK and HSK
- ⌚ Driving slots in SK and BT
- ⌚ Driving slots in HSK- A, C, CE
- ⌚ any kinds of flats on tool shanks
- ⌚ Locking screws for tool shanks with flats
- ⌚ Non-uniform pitch on cutting tools
- ⌚ Collets and tightening nuts
- ⌚ Production tolerances

Balance errors can be eliminated either by adding material or by drilling corrective holes to remove material. See illustrations of corrective drill holes below:



Unbalanced arbor



Balanced arbor with corrective  
drill hole



↗ Balancing by drilling corrective holes. Sample calculations and detailed illustration, see next page.

## Example of a calculation:

Shrinking Arbor HSK 63A: 50 08 A63 S

Weight: 760 grams

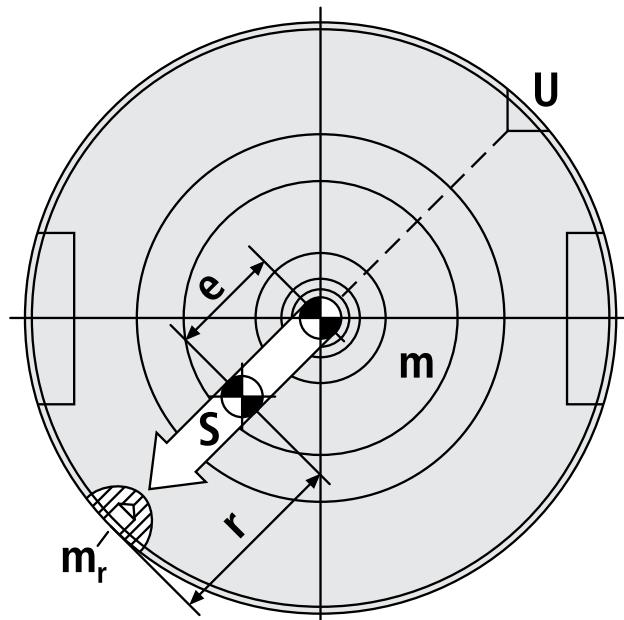
Taper radius: 31.5 mm

Balance grade: G 6.3 at 20,000 rpm

$$G = \frac{U \cdot 2 \cdot \pi \cdot n}{m \cdot 60} \Leftrightarrow U = \frac{G \cdot m \cdot 60}{2 \cdot \pi \cdot n}$$

$$U = \frac{6,3 \cdot 760 \cdot 60}{2 \cdot \pi \cdot 20.000} \Rightarrow U = 2,286 \text{ gmm}$$

$$e = \frac{2,286}{760} \Rightarrow e = 3 \mu\text{m}$$



Note to illustration: "S" = mass axis

## Calculation of remaining balance error in example above:

$$m_r = \frac{m \cdot e}{r} \Rightarrow m_r = \frac{760 \cdot 0,003}{31,5} \Rightarrow m_r = 0,072 \text{ g}$$

By means of precision balancing, the remaining balancing error has been minimized to 0.072 g (in relation to the taper radius of the arbor of 31.5 mm).

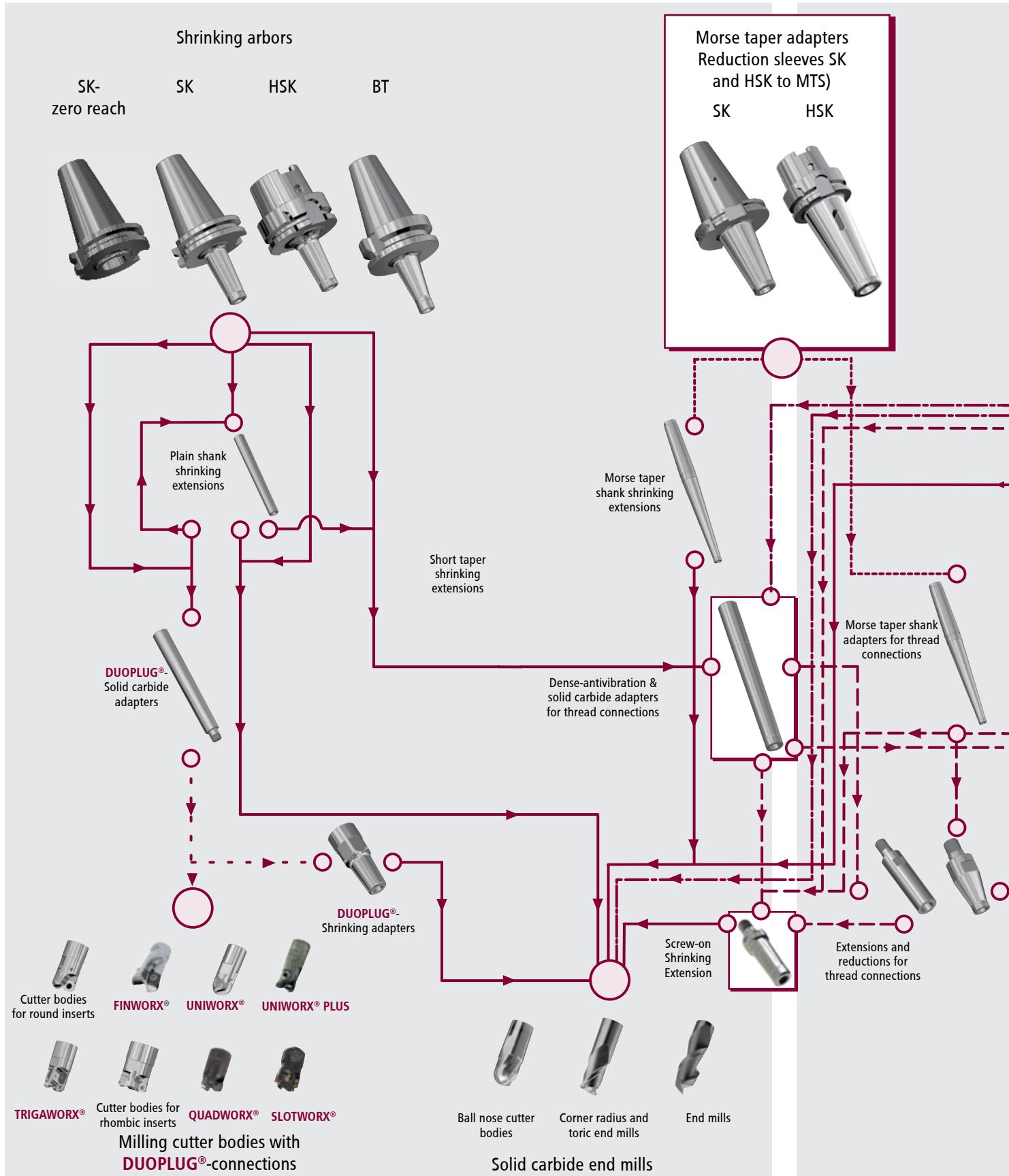
## Your advantages – why this is such an important subject.

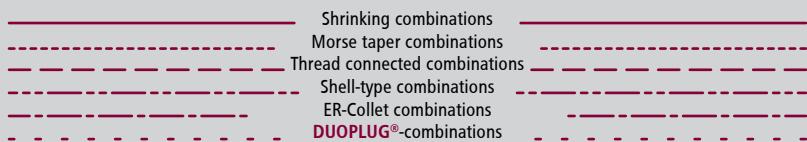
Balancing, particularly in connection with high concentricity, prevents your spindle from damage, because it decreases the centrifugal forces and reduces the formation of vibrations. This results in an extremely smooth operation, which greatly increases machining and component quality. In addition, it allows higher cutting parameters – both in high-speed milling and in conventional milling.



# THE POKOLM TOOL SYSTEM

## over 500000 combination possibilities





The listed options are applications examples. Do not hesitate to contact our technical field service for a huge number of further possible combinations.

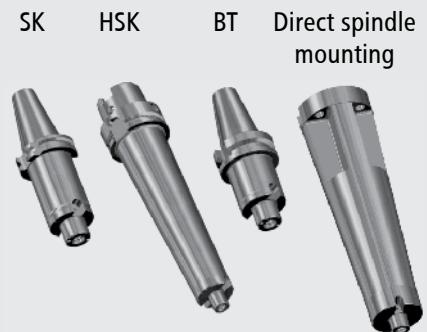
### Arbors for thread connections



### ER-Collet chucks arbors



### Arbors for shell-type milling cutter bodies



ER-Shrinking extensions

cylindrical adapters for thread connections\*

Extensions and reductions for thread connections

Plain shank end mills\*

**SLOTWORX®HP**

\*Using suitable shrinking units, you can combine all plain shank end mills, adapters and extensions with shrinking adapters and arbors.

for round inserts

**SPINWORX® QUADWORX® SLOTWORX® UNIWORX® PLUS**

End mill bodies with thread connections

# TECHNOLOGICAL COMPARISON

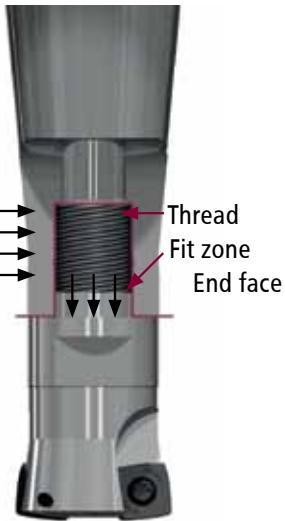
## Thread Connection vs. Pokolm DUOPLUG® Connection

### WHERE THE DIFFERENCE IS:

Pokolm Thread Connection –  
our high-performance standard

Pokolm Thread Connection

The black arrows  
show the retenti-  
on and supporting  
forces.



This standard thread connection is produced with the best tolerances possible using the latest technology. We maximize the efficiency of our Pokolm thread connections by optimizing our design of arbors, adapters, and milling cutter bodies.

Our patented protected DUOPLUG® System –  
the perfect increase

Pokolm DUOPLUG®=  
Shrink and Screw

The black arrows  
show the reten-  
tion and sup-  
porting forces.



Our Pokolm DUOPLUG® system offers optimum rigidi-  
ty and extremely high precision and concentricity. As a  
supplement to conventional thread connections, the re-  
tention and supporting forces between cutting tool and  
adapter act along the entire surface of the shrink fit and a  
large part of the shrink thread. For more information, ple-  
ase see the assembling and dismantling instructions for  
our DUOPLUG® system in the "Operation Data" chapter.

**The fact is:**

**DUOPLUG® perfects the thread connection by me-  
ans of greatly increased retention forces, resulting  
in the highest possible precision for extremely slim  
dimensions.**

## Pokolm Thread Connection – our high-performance standard

### Performance

- ➔ no undercut, thus avoiding a rated break-point
- ➔ extremely precise fit zone and extremely precise flange contact surface
- ➔ better tensile strength and heat resistance because of the special materials and extra-hard coating
- ➔ for hundreds of tool changes
- ➔ optimized chamfers on arbors and adapters

### Your Advantages

- ➔ increased process reliability
- ➔ universally applicable for all roughing and finishing operations
- ➔ better fatigue strength and red hardness
- ➔ lower tool costs because of longer tool life
- ➔ considerable increase in stability because of larger flange contact surface

### Ideal Applications

- ➔ low-cost standard equipment for milling operations in shallow and medium-deep cavities
- ➔ especially for deep machining applications without vertical walls

## Our patent protected DUOPLUG® System – the perfect increase

### Performance

- ➔ maximum precision and concentricity
- ➔ optimum stability
- ➔ absolutely backlash-free class of fits by screwed connection
- ➔ extremely precise and consistant connection
- ➔ clearly increased retention forces compared to conventional thread connection
- ➔ better tensile strength and heat resistance because of special materials and extra-hard coating

### Your Advantages

- ➔ longer tool life
- ➔ absolutely minimal vibrations with long overhangs
- ➔ renders top precision in finishing operations
- ➔ increased availability of tool system and increased process reliability
- ➔ improved performance in roughing operations
- ➔ better fatigue strength and red hardness

### Ideal Applications

- ➔ for maximum precision in finishing operations
- ➔ roughing and finishing applications with long overhangs
- ➔ ideal for applications on vertical walls because of extremely slim arbor/adapter system

## AND THERE'S STILL MORE E.G. SK/BT30 AND HSK25

As a Pokolm customer you are accustomed to a broad range of products and a full service with regards technical matters. „Everything from a single source,” is our motto to ensure ease of purchase and optimum use of our products. By this we do not just mean standard products.

Special items not offered by everyone enhance the range of products for our customers - even in the area of tool arbors. This is why you will also find designs with SK30 and BT30 machine-side connections in the Pokolm catalogue of arbor and adapter systems.

BT 50

SK 50



BT 30

SK 30



BT 40

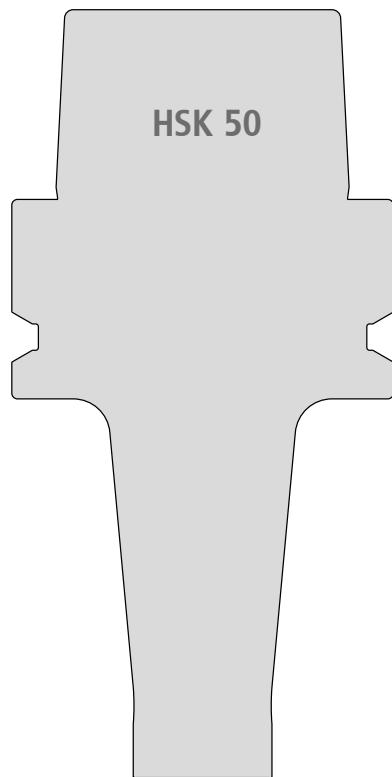
SK 40



# SMALL CAN BE THAT BIG: ORIGINAL SIZE!

Pokolm Frästechnik GmbH & Co. KG has more to offer and provides a range of products that is second to none when it comes to completeness even in the area of arbor and adapter systems for tools with an HSK machine-side connection.

This means that arbor systems with an HSK25 connection dimension are also available. And of course everything is „made by Pokolm“ and thus „made in Germany“ in order to satisfy the highest quality demands!

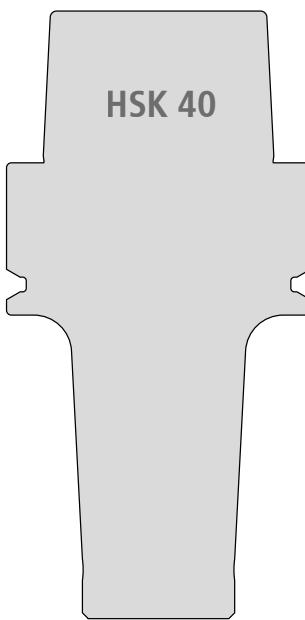


HSK 50

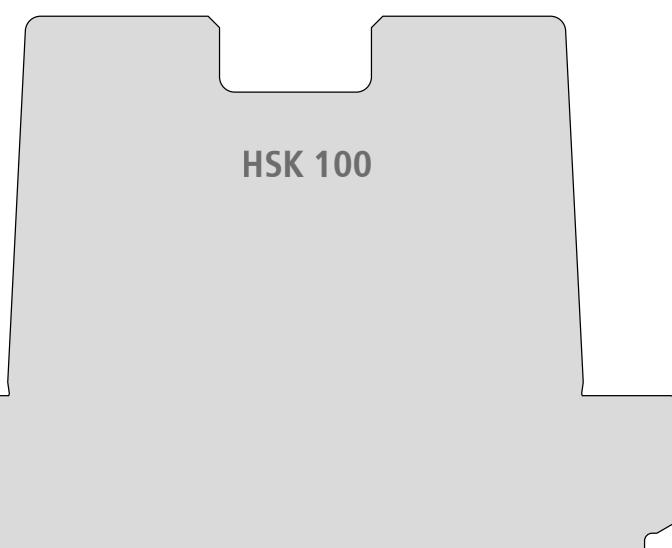
HSK 25



HSK 63



HSK 40



HSK 100

# THE POKOLM ARBOR SYSTEM

The optimum solution for your application

Arbor System	Advantages	Recommended applications
ARBORS (TAPERED) for THREADED SHANK END MILLS	 <p>1</p> <ul style="list-style-type: none"> <li>⦿ rigid, low-cost standard design</li> <li>⦿ large variety of types and lengths provides additional flexibility by using extensions and reductions</li> <li>⦿ gaining rigidity by avoiding unnecessary interfaces</li> </ul>	<ul style="list-style-type: none"> <li>⦿ milling in shallow to deep profiles, for small milling cutter bodies up to 42 mm diam.</li> </ul>
ARBORS for THREAD-CONNECTIONS CYLINDRICAL	 <p>2</p> <ul style="list-style-type: none"> <li>⦿ slim shape</li> <li>⦿ additional rigidity by avoiding unnecessary interfaces</li> <li>⦿ where needed: additional flexibility with extensions and reductions</li> </ul>	<ul style="list-style-type: none"> <li>⦿ medium machining depths, especially on deep vertical walls for small milling cutter bodies up to 42 mm diam.</li> </ul>
REDUCTION SLEEVES with MORSE TAPER ADAPTERS	 <p>3</p> <ul style="list-style-type: none"> <li>⦿ Morse taper adapters for threaded shank end mill bodies and for shrinking processes available for solid carbide tools</li> <li>⦿ fast and flexible tool change</li> <li>⦿ modular design allows machining of deep slots and cavities</li> </ul>	<ul style="list-style-type: none"> <li>⦿ for standard milling operations with normal rigidity and accuracy requirements, for milling cutter bodies up to 42 mm diam.</li> </ul>
ARBORS for SHELL TYPE MILLING CUTTER BODIES	 <p>4</p> <ul style="list-style-type: none"> <li>⦿ rigid variant, in particular for roughing or pre-finishing operations with large cutter diameters and a large variety of designs</li> <li>⦿ additional rigidity by avoiding unnecessary interfaces</li> </ul>	<ul style="list-style-type: none"> <li>⦿ shallow to deep machining situations for pre-finishing and rough machining, for milling cutter diameters from 42 mm to 125 mm and larger</li> </ul>
ARBORS with DIRECT SPINDLE MOUNTING	 <p>5</p> <ul style="list-style-type: none"> <li>⦿ extremely rigid style through direct spindle mounting</li> <li>⦿ excellent machining conditions in deep slots or cavities</li> <li>⦿ additional rigidity by avoiding interfaces</li> </ul>	<ul style="list-style-type: none"> <li>⦿ deep and extremely deep machining situations on SK 50 machines which require extreme rigidity, for milling cutter diameters from 52 to 125 mm</li> </ul>
SHRINKING ARBORS STANDARD STYLE	 <p>6</p> <ul style="list-style-type: none"> <li>⦿ slim style with 3° draft angle in direction of collar</li> <li>⦿ direct shrink-grip of solid carbide tooling</li> <li>⦿ additional rigidity by avoiding unnecessary interfaces</li> <li>⦿ improved concentricity</li> <li>⦿ combinable with solid carbide and dense antivibration adapters</li> </ul>	<ul style="list-style-type: none"> <li>⦿ machining situations in narrow space conditions for solid carbide end mills up to 25 mm diam., and when combined with solid carbide or dense antivibration adapters even for milling cutter bodies with up to 42 mm diam.</li> </ul>

Arbor System	Advantages	Recommended Applications
SHRINKING ARBORS, REINFORCED DESIGN	 <span style="border: 1px solid black; padding: 2px;">7</span> <ul style="list-style-type: none"> <li>→ 4.5° draft angle, reinforced shank</li> <li>→ direct shrink grip of solid carbide end mills</li> <li>→ additional rigidity by avoiding unnecessary interfaces</li> <li>→ improved concentricity</li> </ul>	<ul style="list-style-type: none"> <li>→ milling with increased requirements for arbor rigidity for solid carbide end mills up to 20 mm diam.</li> </ul>
ARBOR COMBINATIONS with DUOPLUG® ADAPTERS	 <span style="border: 1px solid black; padding: 2px;">8</span> <ul style="list-style-type: none"> <li>→ extremely long and slim arbor combinations</li> <li>→ greatest possible avoidance of vibrations by using solid carbide adapters</li> <li>→ DUOPLUG® connection for maximum precision and concentricity</li> <li>→ stronger retention forces</li> </ul>	<ul style="list-style-type: none"> <li>→ machining in deep cavities also with vertical walls</li> <li>→ roughing operations with maximum retention forces</li> <li>→ finishing operations with very high requirements for surface finish</li> <li>→ up to cutter diam. of 25 mm</li> </ul>
ARBOR COMBINATIONS with DENSE ANTI- VIBRATIONADAPTERS	 <span style="border: 1px solid black; padding: 2px;">9</span> <ul style="list-style-type: none"> <li>→ long and slim arbor combinations</li> <li>→ minimal vibrations because of special dense antivibration material</li> <li>→ thread connection, no shrinking process necessary</li> </ul>	<ul style="list-style-type: none"> <li>→ machining in deep cavities also with vertical walls</li> <li>→ for narrow and deep moulds and dies</li> <li>→ machining applications with normal vibration tendency</li> <li>→ for cutter diam. of up to 42 mm</li> </ul>
ZERO-REACH ARBORS	 <span style="border: 1px solid black; padding: 2px;">10</span> <ul style="list-style-type: none"> <li>→ by directly shrinking the solid carbide end mill or dense antivibration adaptor in the arbor taper, you can machine vertical walls right up to the arbor collar. This means great increase in rigidity because of the reduced distance between the spindle and tool.</li> </ul>	<ul style="list-style-type: none"> <li>→ machining of extremely deep cavities with vertical walls in very limited space and with limited movement of Z-axis, and high requirements for rigidity and vibration-free milling</li> </ul>
ER20 PRECISION COLLET CHUCKS	 <span style="border: 1px solid black; padding: 2px;">11</span> <ul style="list-style-type: none"> <li>→ universal and good value solution, direct grip of solid carbide end mills via collet without a shrinking device</li> <li>→ also grips unusual shank diameters and shank diameters smaller than 3 mm</li> </ul>	<ul style="list-style-type: none"> <li>→ for fast changing applications</li> <li>→ for finishing, pre-finishing, and moderate roughing operations</li> </ul>
ARBOR COMBINATIONS with SOLID CARBIDE ADAPTERS	 <span style="border: 1px solid black; padding: 2px;">12</span> <ul style="list-style-type: none"> <li>→ long and slim arbor combinations</li> <li>→ minimal vibrations because of special solid carbide material</li> <li>→ thread connection, no shrinking process necessary</li> </ul>	<ul style="list-style-type: none"> <li>→ machining in deep cavities also with vertical walls</li> <li>→ for narrow and deep moulds and dies</li> <li>→ machining applications with normal vibration tendency</li> <li>→ for cutter diam. of up to 42 mm</li> </ul>

Please note: Zero-reach arbors cannot be ordered separately. We only supply them in a shrink-grip connection with a solid carbide or dense antivibration adapter. (Please indicate desired adapter on purchase order form.)



# ADAPTERS, EXTENSIONS, COLLET CHUCKS AND PRECISION DRILL CHUCKS

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# POKOLM DUOPLUG®

## M 7 - M 16

The solid carbide adapters which are part of the POKOLM DuoPlug®-System are especially well suited for HSC and provide absolutely backlash-free fitting and extreme precision combined with the retention force required for roughing applications.

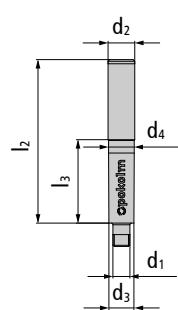
1/2 ▶

M 7 - M 16

Catalogue no.

d<sub>1</sub> l<sub>3</sub> A d<sub>3</sub> d<sub>4</sub> d<sub>2</sub>

Form/DIN

l<sub>2</sub>Accessories  
Features

## M 7

20 07 603	M 7	20	-	10.8	11.4	diam. 12	-	68	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
40 07 603	M 7	40	-	10.8	11.4	diam. 12	-	88	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
60 07 603/12	M 7	60	-	10.8	11.4	diam. 12	-	108	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
80 07 603/12	M 7	80	-	10.8	11.4	diam. 12	-	128	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>

## M 10

25 10 603	M 10	25	-	15	15.9	diam. 16	-	73	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
50 10 603	M 10	50	-	15	15.9	diam. 16	-	98	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
75 10 603	M 10	75	-	15	15.9	diam. 16	-	123	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
100 10 603	M 10	100	-	15	15.9	diam. 16	-	148	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
125 10 603	M 10	125	-	15	15.9	diam. 16	-	173	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
150 10 603	M 10	150	-	15	15.9	diam. 16	-	200	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>

## M 12

25 12 603	M 12	25	-	18.5	19.9	diam. 20	-	75	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
50 12 603	M 12	50	-	18.5	19.9	diam. 20	-	100	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
75 12 603	M 12	75	-	18.5	19.9	diam. 20	-	125	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
100 12 603	M 12	100	-	18.5	19.9	diam. 20	-	150	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
125 12 603	M 12	125	-	18.5	19.9	diam. 20	-	175	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
150 12 603	M 12	150	-	18.5	19.9	diam. 20	-	200	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>
175 12 603	M 12	175	-	18.5	19.9	diam. 20	-	225	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>HSM</small>

NEW latest items!⚠ available as long as stock lasts? on request✓ stock item, subject to confirmation

M 7 - M 16

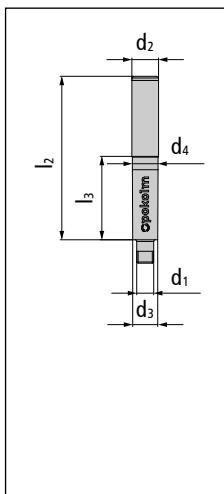
Catalogue no.

 $d_1$  $l_3$ 

A

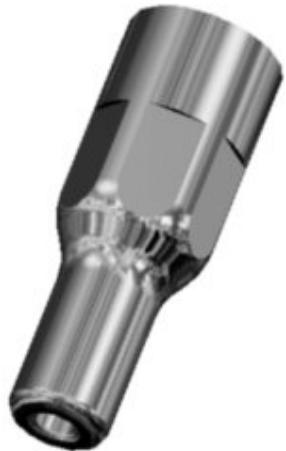
 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ Accessories  
Features

## M 16

Catalogue no.	M 16	25 16 603	M 16	25	-	23.4	24.9	diam. 25	-	81	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM
		50 16 603	M 16	50	-	23.4	24.9	diam. 25	-	106	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM
		75 16 603	M 16	75	-	23.4	24.9	diam. 25	-	131	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM
		100 16 603	M 16	100	-	23.4	24.4	diam. 25	-	156	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM
		125 16 603	M 16	125	-	23.4	24.9	diam. 25	-	181	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM
		150 16 603	M 16	150	-	23.4	24.9	diam. 25	-	206	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM
		175 16 603	M 16	175	-	23.4	24.9	diam. 25	-	231	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM
		200 16 603	M 16	200	-	23.4	24.9	diam. 25	-	256	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM



# POKOLM DUOPLUG® SHRINKING ADAPTORS

diam. 6 - 10 mm

DuoPlug®-shrinking adaptors are the ideal solution for economic milling or contouring with solid carbide end mills in deep slots, pockets or cavities, providing an exceptional high degree of rigidity during processing.

diam. 6 - 10 mm

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

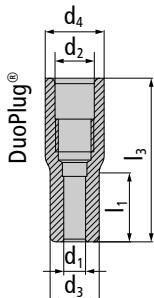
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



diam. 6 mm

35 06 10 SG	diam. 6	35	-	12	15	M 10	-	-	-		
45 06 12 SG	diam. 6	45	-	12	18.5	M 12	-	-	-		
50 06 16 SG	diam. 6	50	-	12	23.5	M 16	-	-	-		

diam. 8 mm

45 08 12 SG	diam. 8	45	-	16	18.5	M 12	-	-	-		
50 08 16 SG	diam. 8	50	-	16	23.5	M 16	-	-	-		

diam. 10 mm

50 10 16 SG	diam. 10	50	-	20	23.5	M 16	-	-	-		
-------------	----------	----	---	----	------	------	---	---	---	--	--

latest items!

available as long as stock lasts

on request

stock item, subject to confirmation

# POKOLM PLAIN SHANK SHRINKING ADAPTORS

diam. 3 - 12 mm



diam. 3 - 12 mm

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

$d_2$

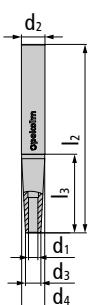
Form/DIN

$l_2$

$l_1$

Accessories

Features



diam. 3 mm

112 03 604 S.01	diam. 3	66.8	-	9	16	diam. 16	-	160	-		<input checked="" type="checkbox"/>
115 03 604 S.01	diam. 3	28.6	-	9	12	diam. 12	-	160	-		<input checked="" type="checkbox"/>

diam. 4 mm

112 04 604 S.01	diam. 4	66.8	-	10.5	16	diam. 16	-	160	-		<input checked="" type="checkbox"/>
115 04 604 S.01	diam. 4	14.31	-	10.5	12	diam. 12	-	160	-		<input checked="" type="checkbox"/>

diam. 6 mm

112 06 604 S	diam. 6	47.7	-	11	16	diam. 16	-	160	-		<input checked="" type="checkbox"/>
115 06 604 S	diam. 6	11.45	-	11	12	diam. 12	-	160	-		<input checked="" type="checkbox"/>

diam. 8 mm

112 08 604 S	diam. 8	28.6	-	13	16	diam. 16	-	160	-		<input checked="" type="checkbox"/>
110 08 604 S	diam. 8	66.8	-	13	20	diam. 20	-	160	-		<input checked="" type="checkbox"/>

diam. 10 mm

110 10 604 S	diam. 10	47.7	-	15	20	diam. 20	-	160	-		<input checked="" type="checkbox"/>
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diam. 12 mm

104 12 604 S	diam. 12	76.3	-	17	25	diam. 25	-	160	-		<input checked="" type="checkbox"/>
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# POKOLM SCREW-ON SHRINKING EXTENSIONS

diam. 6 - 12 mm

Pokolm screw-on shrinking extensions are the perfect alternative solution for machining cavities, if the corresponding shrinking arbor is not available. Hexagonal clamping flats - also suitable for use of hexagon wrenches (ring spanners) makes spanning most flexible.

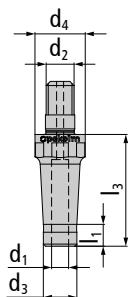
The short and slim design with internal coolant supply are other positive benefits.

diam. 6 - 12 mm

Catalogue no.

diam. 6 mm

	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
40 06 10 784 S	diam. 6	40	-	12	18	M 10		-	-	7.8		<input checked="" type="checkbox"/>
40 06 12 784 S	diam. 6	40	-	12	21	M 12		-	-	7.8		<input checked="" type="checkbox"/>
40 06 16 784 S	diam. 6	40	-	12	29	M 16		-	-	7.8		<input checked="" type="checkbox"/>



diam. 8 mm

40 08 10 784 S	diam. 8	40	-	16	18	M 10	-	-	7.8		<input checked="" type="checkbox"/>
40 08 12 784 S	diam. 8	40	-	16	21	M 12	-	-	7.8		<input checked="" type="checkbox"/>
40 08 16 784 S	diam. 8	40	-	16	29	M 16	-	-	7.8		<input checked="" type="checkbox"/>

diam. 10 mm

60 10 10 784 S	diam. 10	60	-	18	18	M 10	-	-	-		<input checked="" type="checkbox"/>
60 10 12 784 S	diam. 10	60	-	20	21	M 12	-	-	7.8		<input checked="" type="checkbox"/>
60 10 16 784 S	diam. 10	60	-	20	29	M 16	-	-	7.8		<input checked="" type="checkbox"/>

diam. 12 mm

60 12 12 784 S	diam. 12	60	-	21	21	M 12	-	-	-		<input checked="" type="checkbox"/>
60 12 16 784 S	diam. 12	60	-	24	29	M 16	-	-	7.8		<input checked="" type="checkbox"/>

# SOLID CARBIDE ADAPTERS - FOR SCREW-ON END MILLS

M 6 - M 16

POKOLM solid carbide adapters for screw-on end mills are well suited for HSC and with extreme precision provide the retention force required for roughening applications. All adapters have an internal coolant supply as standard.



1 / 2 ▶

M 6 - M 16

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

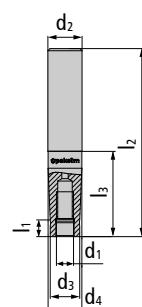
Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories

Features



**M 6**

20 06 606/10 ZYL	M 6	20	-	9.5	9.5	diam. 10	-	60	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
20 06 606/12 ZYL	M 6	20	-	11.5	11.5	diam. 12	-	65	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
40 06 606/10 ZYL	M 6	40	-	9.5	9.5	diam. 10	-	80	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
40 06 606/12 ZYL	M 6	40	-	11.5	11.5	diam. 12	-	85	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
60 06 606/10 ZYL	M 6	60	-	9.5	9.5	diam. 10	-	100	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
60 06 606/12 ZYL	M 6	60	-	11.5	11.5	diam. 12	-	105	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
80 06 606/10 ZYL	M 6	80	-	9.5	9.5	diam. 10	-	120	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
80 06 606/12 ZYL	M 6	80	-	11.5	11.5	diam. 12	-	125	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
100 06 606/12 ZYL	M 6	100	-	11.5	11.5	diam. 12	-	145	-		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**M 8**

40 08 606	M 8	40	-	14.2	15.3	diam. 16	-	88	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
60 08 606	M 8	60	-	14.2	15.3	diam. 16	-	108	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
80 08 606	M 8	80	-	14.2	15.3	diam. 16	-	128	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
100 08 606	M 8	100	-	14.2	15.3	diam. 16	-	148	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
120 08 606	M 8	120	-	14.2	15.3	diam. 16	-	168	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**M 10**

60 10 606	M 10	60	-	18.5	19.3	diam. 20	-	110	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
80 10 606	M 10	80	-	18.5	19.3	diam. 20	-	130	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
100 10 606	M 10	100	-	18.5	19.3	diam. 20	-	150	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
120 10 606	M 10	120	-	18.5	19.3	diam. 20	-	170	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
140 10 606	M 10	140	-	18.5	19.3	diam. 20	-	190	9		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



# SOLID CARBIDE ADAPTERS - FOR SCREW-ON END MILLS

**M 6 - M 16**

POKOLM solid carbide adapters for screw-on end mills are well suited for HSC and with extreme precision provide the retention force required for roughening applications. All adapters have an internal coolant supply as standard.

◀ 2/2

M 6 - M 16	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features		
	<b>M 12</b>	80 12 606	M 12	80	-	23	24.3	diam. 25	-	136	9			
	100 12 606	M 12	100	-	23	24.3	diam. 25	-	156	9				
	120 12 606	M 12	120	-	23	24.3	diam. 25	-	176	9				
	140 12 606	M 12	140	-	23	24.3	diam. 25	-	196	9				
	160 12 606	M 12	160	-	23	24.3	diam. 25	-	216	9				
	<b>M 16</b>	100 16 606/32	M 16	100	-	29	31.5	diam. 32	-	160	9			
	150 16 606/32	M 16	150	-	29	31.5	diam. 32	-	210	9				
	200 16 606/32	M 16	200	-	29	31.5	diam. 32	-	260	9				
	250 16 606/32	M 16	250	-	29	31.5	diam. 32	-	310	9				
	300 16 606/32	M 16	300	-	29	31.5	diam. 32	-	360	9				

# DENSE ANTIVIBRATION ADAPTERS -FOR SCREW-ON END MILLS

M 8 - M 16

POKOLM solid carbide adapters for screw-on end mills are characterised by their outstanding precision. These adapters are excellent for HSC finishing processes thanks to their vibration-reducing characteristics. Adapters are also available with an internal coolant supply upon request.



1 / 2 ▶

M 8 - M 16

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

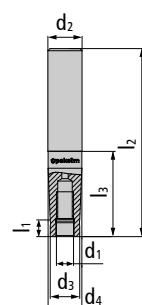
Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories

Features



**M 8**

40 08 601	M 8	40	-	14.2	15.3	diam. 16	-	88	9		<input checked="" type="checkbox"/>
60 08 601	M 8	60	-	14.2	15.3	diam. 16	-	108	9		<input checked="" type="checkbox"/>
80 08 601	M 8	80	-	14.2	15.3	diam. 16	-	128	9		<input checked="" type="checkbox"/>
100 08 601	M 8	100	-	14.2	15.3	diam. 16	-	148	9		<input checked="" type="checkbox"/>
120 08 601	M 8	120	-	14.2	15.3	diam. 16	-	168	9		<input checked="" type="checkbox"/>
150 08 601	M 8	150	-	14.2	15.3	diam. 16	-	198	9		<input checked="" type="checkbox"/>

**M 10**

60 10 601	M 10	60	-	18.5	19.3	diam. 20	-	110	9		<input checked="" type="checkbox"/>
80 10 601	M 10	80	-	18.5	19.3	diam. 20	-	130	9		<input checked="" type="checkbox"/>
100 10 601	M 10	100	-	18.5	19.3	diam. 20	-	150	9		<input checked="" type="checkbox"/>
120 10 601	M 10	120	-	18.5	19.3	diam. 20	-	170	9		<input checked="" type="checkbox"/>
140 10 601	M 10	140	-	18.5	19.3	diam. 20	-	190	9		<input checked="" type="checkbox"/>

**M 12**

50 12 601	M 12	50	-	23	24.3	diam. 25	-	106	9		<input type="checkbox"/>
75 12 601	M 12	75	-	23	24.3	diam. 25	-	131	9		<input checked="" type="checkbox"/>
100 12 601	M 12	100	-	23	24.3	diam. 25	-	156	9		<input checked="" type="checkbox"/>
125 12 601	M 12	125	-	23	24.3	diam. 25	-	181	9		<input checked="" type="checkbox"/>
150 12 601	M 12	150	-	23	24.3	diam. 25	-	206	9		<input checked="" type="checkbox"/>
175 12 601	M 12	175	-	23	24.3	diam. 25	-	231	9		<input checked="" type="checkbox"/>



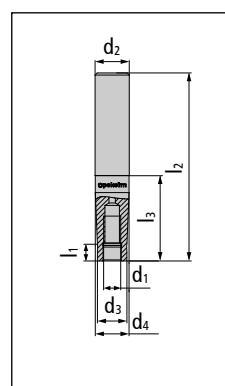
# DENSE ANTIVIBRATION ADAPTERS -FOR SCREW-ON END MILLS

**M 8 - M 16**

POKOLM solid carbide adapters for screw-on end mills are characterised by their outstanding precision. These adapters are excellent for HSC finishing processes thanks to their vibration-reducing characteristics. Adapters are also available with an internal coolant supply upon request.

◀ 2/2

M 8 - M 16	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
------------	---------------	-------	-------	---	-------	-------	-------	----------	-------	-------	-------------	----------



<b>M 16</b>												
100 16 601/32	M 16	100	-	29	31.5	diam. 32	-	160	9		<input checked="" type="checkbox"/>	
150 16 601/32	M 16	150	-	29	31.5	diam. 32	-	210	9		<input checked="" type="checkbox"/>	
200 16 601/32	M 16	200	-	29	31.5	diam. 32	-	260	9		<input checked="" type="checkbox"/>	
250 16 601/32	M 16	250	-	29	31.5	diam. 32	-	310	9		<input checked="" type="checkbox"/>	
300 16 601/32	M 16	300	-	29	31.5	diam. 32	-	360	9		<input checked="" type="checkbox"/>	

# MTS ADAPTERS - FOR SCREW-ON END MILLS

M 8 - M 16

Morse taper shank extensions for screw-on end mills. With peripheral ground plane and fitting surfaces. For use in POKOLM mose taper shank basic arbors. Tapered shank manufactured according to DIN228A.



1 / 2 ▶

M 8 - M 16	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
	<b>M 8</b>											
	20 670	M 8	20	-	13.8	18	MTS 2	-	-	-		<input checked="" type="checkbox"/>
	40 670	M 8	40	-	13.8	18	MTS 2	-	-	8.5		<input checked="" type="checkbox"/>
	60 670	M 8	60	-	13.8	18	MTS 2	-	-	8.5		<input checked="" type="checkbox"/>
	80 670	M 8	80	-	13.8	24	MTS 3	-	-	8.5		<input checked="" type="checkbox"/>
	<b>M 10</b>											
	20 680	M 10	20	-	18	18	MTS 2	-	-	-		<input checked="" type="checkbox"/>
	40 680	M 10	40	-	18	18	MTS 2	-	-	-		<input checked="" type="checkbox"/>
	60 680	M 10	60	-	18	18	MTS 2	-	-	-		<input checked="" type="checkbox"/>
	80 680	M 10	80	-	18	24	MTS 3	-	-	8.5		<input checked="" type="checkbox"/>
	<b>M 12</b>											
	30 610	M 12	30	-	21	23.6	MTS 3	-	-	8.5		<input checked="" type="checkbox"/>
	45 610	M 12	45	-	21	24.1	MTS 3	-	-	8.5		<input checked="" type="checkbox"/>
	60 610	M 12	60	-	21	24.1	MTS 3	-	-	8.5		<input checked="" type="checkbox"/>
	75 610	M 12	75	-	21	24.1	MTS 3	-	-	8.5		<input checked="" type="checkbox"/>
	95 610	M 12	95	-	21	24.1	MTS 3	-	-	8.5		<input checked="" type="checkbox"/>
	120 610	M 12	120	-	21	31.6	MTS 4	-	-	8.5		<input checked="" type="checkbox"/>



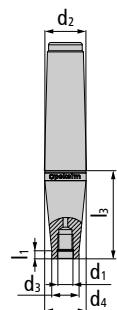
# MTS ADAPTERS - FOR SCREW-ON END MILLS

M 8 - M 16

Morse taper shank extensions for screw-on end mills. With peripheral grinded plane and fitting surfaces. For use in POKOLM morse taper shank basic arbors. Tapered shank manufactured according to DIN228A.

◀ 2/2

M 8 - M 16	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
	M 16										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	35 630	M 16	35	-	29	31.5	MTS 4	-	-	8.5		<input checked="" type="checkbox"/>
	50 630	M 16	50	-	29	31.6	MTS 4	-	-	8.5		<input checked="" type="checkbox"/>
	65 630	M 16	65	-	29	31.6	MTS 4	-	-	8.5		<input checked="" type="checkbox"/>
	80 630	M 16	80	-	29	31.6	MTS 4	-	-	8.5		<input checked="" type="checkbox"/>
	95 630	M 16	95	-	29	31.5	MTS 4	-	-	8.5		<input checked="" type="checkbox"/>
	120 650	M 16	120	-	29	44.5	MTS 5	-	-	8.5		<input checked="" type="checkbox"/>
	150 650	M 16	150	-	29	44.7	MTS 5	-	-	8.5		<input checked="" type="checkbox"/>
	180 650	M 16	180	-	29	44	MTS 5	-	-	8.5		<input checked="" type="checkbox"/>



# MTS ADAPTERS - FOR SHRINKING PROCESSES

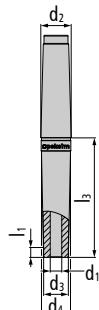
diam. 6 - 16 mm

Morse taper shank extensions for shrinking processes allows highest rigidity at maximum flexibility. For use in POKOLM mose taper shank basic arbors. Tapered shank is manufactured according to DIN228A.



diam. 6 - 16 mm

Catalogue no.



diam. 6 mm

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
50 06 MK3 S	diam. 6	50	-	12	23.5	MTS 3	-	-	7.8		<input checked="" type="checkbox"/>	HSM
100 06 MK3 S	diam. 6	100	-	12	24	MTS 3	-	-	7.8		<input checked="" type="checkbox"/>	HSM
150 06 MK3 S	diam. 6	150	-	12	24	MTS 3	-	-	7.8		<input checked="" type="checkbox"/>	HSM

diam. 8 mm

	Catalogue no.	diam.	50	-	16	24	MTS	-	-	7.8		<input checked="" type="checkbox"/>	HSM
50 08 MK3 S	diam. 8	50	-	16	24	MTS 3	-	-	7.8		<input checked="" type="checkbox"/>	HSM	
100 08 MK3 S	diam. 8	100	-	16	24	MTS 3	-	-	7.8		<input checked="" type="checkbox"/>	HSM	
150 08 MK3 S	diam. 8	150	-	16	24	MTS 3	-	-	7.8		<input checked="" type="checkbox"/>	HSM	
200 08 MK5 S	diam. 8	200	-	16	44.5	MTS 5	-	-	7.8		<input checked="" type="checkbox"/>	HSM	

diam. 10 mm

	Catalogue no.	diam.	50	-	20	24	MTS	-	-	7.8		<input checked="" type="checkbox"/>	HSM
50 10 MK3 S	diam. 10	50	-	20	24	MTS 3	-	-	7.8		<input checked="" type="checkbox"/>	HSM	
100 10 MK3 S	diam. 10	100	-	20	24	MTS 3	-	-	7.8		<input checked="" type="checkbox"/>	HSM	
150 10 MK4 S	diam. 10	150	-	20	32	MTS 4	-	-	7.8		<input checked="" type="checkbox"/>	HSM	
200 10 MK5 S	diam. 10	200	-	20	44.2	MTS 5	-	-	7.8		<input checked="" type="checkbox"/>	HSM	

diam. 12 mm

	Catalogue no.	diam.	50	-	24	24	MTS	-	-	7.8		<input checked="" type="checkbox"/>	HSM
50 12 MK3 S	diam. 12	50	-	24	24	MTS 3	-	-	7.8		<input checked="" type="checkbox"/>	HSM	
100 12 MK3 S	diam. 12	100	-	24	24	MTS 3	-	-	-		<input checked="" type="checkbox"/>	HSM	
150 12 MK4 S	diam. 12	150	-	24	31	MTS 4	-	-	7.8		<input checked="" type="checkbox"/>	HSM	
200 12 MK5 S	diam. 12	200	-	24	44.5	MTS 5	-	-	7.8		<input checked="" type="checkbox"/>	HSM	

diam. 16 mm

	Catalogue no.	diam.	150	-	32	32	MTS	-	-	7.8		<input checked="" type="checkbox"/>	HSM
150 16 MK4 S	diam. 16	150	-	32	32	MTS 4	-	-	7.8		<input checked="" type="checkbox"/>	HSM	

	Catalogue no.	diam.	200	-	32	44.2	MTS	-	-	7.8		<input checked="" type="checkbox"/>	HSM
200 16 MK5 S	diam. 16	200	-	32	44.2	MTS 5	-	-	7.8		<input checked="" type="checkbox"/>	HSM	



# POKOLM EXTENSIONS - FOR SCREW-ON END MILLS

**M 8 - M 16**

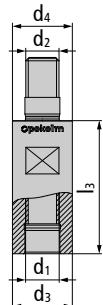
Cylindrical threaded extensions for reaching deep cavities rapidly and effectively.  
Manufactured according to the POKOLM standard with smoothed plane and mating surfaces as well as an internal coolant supply.

**M 8 - M 16**

Catalogue no.

**M 8**

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
08 40 780	M 8   40	-	13.8	13.8	M 8	-	-	-	-	-	<input checked="" type="checkbox"/>	
08 60 780	M 8   60	-	13.8	13.8	M 8	-	-	-	-	-	<input checked="" type="checkbox"/>	



**M 10**

10 40 780	M 10   40	-	18	18	M 10	-	-	-	-	-	<input checked="" type="checkbox"/>	
10 60 780	M 10   60	-	18	18	M 10	-	-	-	-	-	<input checked="" type="checkbox"/>	

**M 12**

12 40 780	M 12   40	-	21	21	M 12	-	-	-	-	-	<input checked="" type="checkbox"/>	
12 60 780	M 12   60	-	21	21	M 12	-	-	-	-	-	<input checked="" type="checkbox"/>	

**M 16**

16 40 780	M 16   40	-	29	29	M 16	-	-	-	-	-	<input checked="" type="checkbox"/>	
16 60 780	M 16   60	-	29	29	M 16	-	-	-	-	-	<input checked="" type="checkbox"/>	

# POKOLM REDUCTIONS - FOR SCREW-ON END MILLS

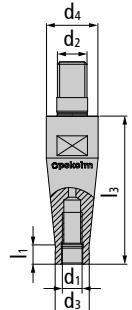
M 6 - M 12

Tapered threaded reductions for reaching deep cavities with low draft angles rapidly and effectively. Manufactured according to the POKOLM standard with smoothed plane and mating surfaces as well as an internal coolant supply.



M 6 - M 12

Catalogue no.



	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
<b>M 6</b>	08 20 781	M 6	20	-	9.75	13.8	M 8	-	-	7.8		<input checked="" type="checkbox"/>
<b>M 8</b>	10 40 781	M 8	40	-	13.8	18	M 10	-	-	6.5		<input checked="" type="checkbox"/>
	12 60 781	M 8	60	-	13.8	21	M 12	-	-	7.8		<input checked="" type="checkbox"/>
<b>M 10</b>	12 40 781	M 10	40	-	18	21	M 12	-	-	7.8		<input checked="" type="checkbox"/>
	16 60 781	M 10	60	-	18	29	M 16	-	-	7.8		<input checked="" type="checkbox"/>
<b>M 12</b>	16 40 781	M 12	40	-	21	29	M 16	-	-	7.8		<input checked="" type="checkbox"/>



# POKOLM CYL. SHAFT - DIN 1835 A

## M 6 - M 16

Threaded adapters with a cylindrical shaft according to DIN 1835A. For use in collet chuck arbors or also hydraulic expansion chucks.

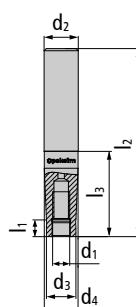
Manufactured according to the POKOLM standard with smoothed plane and mating surfaces and an internal coolant supply option.

M 6 - M 16

Catalogue no.

d<sub>1</sub> l<sub>3</sub> A d<sub>3</sub> d<sub>4</sub> d<sub>2</sub>

Form/DIN

l<sub>2</sub>Accessories  
Features

### M 6

20 06 600/10 G	M 6	20	-	9.5	9.5	diam. 10	-	65	7.8		<input checked="" type="checkbox"/>
20 06 600/12 G	M 6	20	-	11.5	11.5	diam. 12	-	65	7.8		<input checked="" type="checkbox"/>
40 06 600/10 G	M 6	40	-	9.5	9.5	diam. 10	-	85	7.8		<input checked="" type="checkbox"/>
40 06 600/12 G	M 6	40	-	11.5	11.5	diam. 12	-	85	7.8		<input checked="" type="checkbox"/>

### M 8

20 16 600 G	M 8	20	-	13.8	15.8	diam. 16	-	68	7.8		<input checked="" type="checkbox"/>
40 16 600 G	M 8	40	-	13.8	15.8	diam. 16	-	88	7.8		<input checked="" type="checkbox"/>

### M 10

25 20 600 G	M 10	25	-	18	19.8	diam. 20	-	75	7.8		<input checked="" type="checkbox"/>
45 20 600 G	M 10	45	-	18	19.8	diam. 20	-	95	7.8		<input checked="" type="checkbox"/>

### M 12

30 25 600 G	M 12	30	-	21	24.9	diam. 25	-	86	7.8		<input checked="" type="checkbox"/>
50 25 600 G	M 12	50	-	21	24.8	diam. 25	-	106	7.8		<input checked="" type="checkbox"/>

### M 16

50 32 600 G	M 16	50	-	29	31.8	diam. 32	-	110	7.8		<input checked="" type="checkbox"/>
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# POKOLM CYL. SHAFT - DIN 1835 B

M 6 - M 16

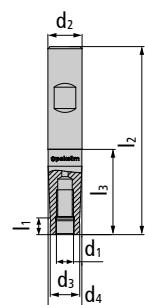


Threaded shank adapter with a cylindrical shaft and an additional Weldon collet surface according to DIN 1835B. For use in Weldon arbors.

Manufactured according to the POKOLM standard with smoothed plane and mating surfaces and an internal coolant supply option.

M 6 - M 16

Catalogue no.



	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
<b>M 6</b>											
20 06 600/10	M 6	20	-	9.5	9.5	diam. 10	-	65	7.8		<input checked="" type="checkbox"/>
20 06 600/12	M 6	20	-	11.5	11.5	diam. 12	-	65	7.8		<input checked="" type="checkbox"/>
40 06 600/10	M 6	40	-	9.5	9.5	diam. 10	-	85	7.8		<input checked="" type="checkbox"/>
40 06 600/12	M 6	40	-	11.5	11.5	diam. 12	-	85	7.8		<input checked="" type="checkbox"/>
<b>M 8</b>											
20 16 600	M 8	20	-	13.8	15.8	diam. 16	-	68	7.8		<input checked="" type="checkbox"/>
40 16 600	M 8	40	-	13.8	15.8	diam. 16	-	88	7.8		<input checked="" type="checkbox"/>
<b>M 10</b>											
25 20 600	M 10	25	-	18	19.8	diam. 20	-	75	7.8		<input checked="" type="checkbox"/>
45 20 600	M 10	45	-	18	19.8	diam. 20	-	95	7.8		<input checked="" type="checkbox"/>
<b>M 12</b>											
30 25 600	M 12	30	-	21	24.9	diam. 25	-	86	7.8		<input checked="" type="checkbox"/>
50 25 600	M 12	50	-	21	24.9	diam. 25	-	106	7.8		<input checked="" type="checkbox"/>
<b>M 16</b>											
50 32 600	M 16	50	-	29	31.8	diam. 32	-	110	7.8		<input checked="" type="checkbox"/>



# POKOLM SHELL TYPE EXTENSIONS FOR SHELL TYPE MILLING CUTTERS

bore diam. 22 - 27 mm

Pokolm shell type extensions for shell type milling cutter bodies are the most effective solution if the reach of available standard shell-type arbor is not long enough. Manufactured according to the POKOLM standard with smoothed plane and mating surfaces as well as an internal coolant supply.

bore diam. 22 - 27 mm

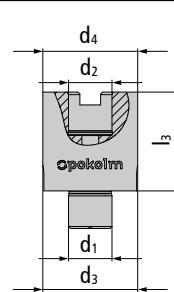
Catalogue no.

$d_1$     $l_3$    A    $d_3$     $d_4$     $d_2$

Form/DIN

$l_2$

Accessories   Features



bore diam. 22 mm

50 22 782	diam. 22	50	-	48	48	diam. 22	-	-	-	A, C, E, G	<input checked="" type="checkbox"/>
100 22 782	diam. 22	100	-	48	48	diam. 22	-	-	-	A, C, E, G	<input checked="" type="checkbox"/>

bore diam. 27 mm

50 27 782	diam. 27	50	-	62	62	diam. 27	-	-	-	B, D, F, H	<input checked="" type="checkbox"/>
100 27 782	diam. 27	100	-	62	62	diam. 27	-	-	-	B, D, F, H	<input checked="" type="checkbox"/>

Accessories

M4X10 screw for drive block 10 x 8 A > Page 137	M5X16 screw for drive blocks 12 x 12 and 14 x 14 B > Page 137	M6X55 screw C > Page 137	M8X55 screw D > Page 137	M10X35 screw M10X35 DIN 912   10.9 E > Page 138
M12X35 screw M12X35   10.9 F > Page 138	NUTEN10X8 drive block 10 x 8 G > Page 138	NUTEN12X12/2 drive block 12 x 12 H > Page 138		

# POKOLM SHELL TYPE EXTENSIONS FOR SCREW ON END MILLS

for screw-on end mills M10 - M16

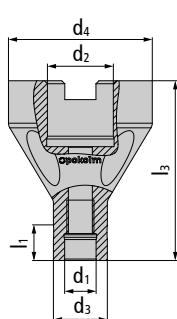


Pokolm shell type extensions for screw on end mills are the most effective solution if the reach of available standard

screw on type arbor is not long enough or if more stability is required. Manufactured according to the POKOLM standard with smoothed plane and mating surfaces as well as an internal coolant supply.

for screw-on end mills  
M10 - M16

Catalogue no.



## M 10

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
60 22 M10 783	M 10	60	-	18	48	diam. 22		-	-	12	A	<input checked="" type="checkbox"/>
100 22 M10 783	M 10	100	-	18	48	diam. 22		-	-	12	A	<input checked="" type="checkbox"/>
60 27 M10 783	M 10	60	-	18	62	diam. 27		-	-	12	B	<input checked="" type="checkbox"/>
100 27 M10 783	M 10	100	-	18	62	diam. 27		-	-	12	B	<input checked="" type="checkbox"/>

## M 12

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
60 22 M12 783	M 12	60	-	21	48	diam. 22		-	-	12	A	<input checked="" type="checkbox"/>
100 22 M12 783	M 12	100	-	21	48	diam. 22		-	-	12	A	<input checked="" type="checkbox"/>
60 27 M12 783	M 12	60	-	21	62	diam. 27		-	-	12	B	<input type="checkbox"/>
100 27 M12 783	M 12	100	-	21	62	diam. 27		-	-	12	B	<input checked="" type="checkbox"/>

## M 16

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
60 22 M16 783	M 16	60	-	29	48	diam. 22		-	-	12	A	<input checked="" type="checkbox"/>
100 22 M16 783	M 16	100	-	29	48	diam. 22		-	-	12	A	<input checked="" type="checkbox"/>
60 27 M16 783	M 16	60	-	29	62	diam. 27		-	-	12	B	<input checked="" type="checkbox"/>
100 27 M16 783	M 16	100	-	29	62	diam. 27		-	-	12	B	<input checked="" type="checkbox"/>

## Accessories



M6X25  
screw  
A > Page 137



M8X25  
screw  
B > Page 137



## PRECISION COLLET CHUCKS

ER16 | for diam. 1 - diam. 10

Precision collet chucks according to DIN 6499-B

- Bi-conical - collet chucks
- slotted on both ends
- Concentricity 6 µm
- Repeat accuracy 6 µm

Collet chucks in other sizes and designs upon request.

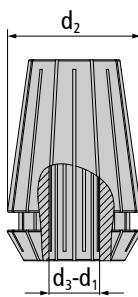
ER16 | for diam. 1 -  
diam. 10

Catalogue no.

$d_1$     $l_3$    A    $d_3$     $d_4$     $d_2$

Form/DIN  
 $l_2$     $l_1$

Accessories  
Features



ER 16

ER 16		$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN $l_2$	$l_1$	Accessories	Features
ER16 1-2	diam. 2	-	-	1	-	ER 16	-	-	-	A, B	<input checked="" type="checkbox"/>
ER16 2-3	diam. 3	-	-	2	-	ER 16	-	-	-	A, B	<input checked="" type="checkbox"/>
ER16 3-4	diam. 4	-	-	3	-	ER 16	-	-	-	A, B	<input checked="" type="checkbox"/>
ER16 4-5	diam. 5	-	-	4	-	ER 16	-	-	-	A, B	<input checked="" type="checkbox"/>
ER16 5-6	diam. 6	-	-	5	-	ER 16	-	-	-	A, B	<input checked="" type="checkbox"/>
ER16 7-8	diam. 8	-	-	7	-	ER 16	-	-	-	A, B	<input checked="" type="checkbox"/>
ER16 9-10	diam. 10	-	-	9	-	ER 16	-	-	-	A, B	<input checked="" type="checkbox"/>

Accessories



16 501  
spanner for ER 16 collet  
chuck tightening nut  
A > Page 138



ER16 001  
tightning nut ER 16  
B > Page 138

# PRECISION COLLET CHUCKS

ER20 | for diam. 1 - diam. 12



Precision collet chucks according to DIN 6499-B

- Bi-conical - collet chucks
- slotted on both ends
- Concentricity 6 µm
- Repeat accuracy 6 µm

Collet chucks in other sizes and designs upon request.

ER20 | for diam. 1 -  
diam. 12

Catalogue no.

d<sub>1</sub>

I<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

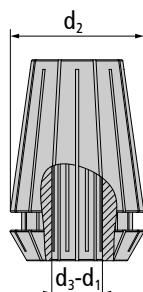
Form/DIN

I<sub>2</sub>

I<sub>1</sub>

Accessories

Features



ER 20											
ER20 0,5-1	diam. 1	-	-	0.5	-	ER 20	-	-	-	A, B	<input checked="" type="checkbox"/>
ER20 1-2	diam. 2	-	-	1	-	ER 20	-	-	-	A, B	<input checked="" type="checkbox"/>
ER20 2-3	diam. 3	-	-	2	-	ER 20	-	-	-	A, B	<input checked="" type="checkbox"/>
ER20 3-4	diam. 4	-	-	3	-	ER 20	-	-	-	A, B	<input checked="" type="checkbox"/>
ER20 4-5	diam. 5	-	-	4	-	ER 20	-	-	-	A, B	<input checked="" type="checkbox"/>
ER20 5-6	diam. 6	-	-	5	-	ER 20	-	-	-	A, B	<input checked="" type="checkbox"/>
ER20 7-8	diam. 8	-	-	7	-	ER 20	-	-	-	A, B	<input checked="" type="checkbox"/>
ER20 9-10	diam. 10	-	-	9	-	ER 20	-	-	-	A, B	<input checked="" type="checkbox"/>
ER20 11-12	diam. 12	-	-	11	-	ER 20	-	-	-	A, B	<input checked="" type="checkbox"/>

Accessories											
20 501 spanner for ER 20 collet chuck tightening nut A > Page 138		ER20 001 tightening nut ER 20 B > Page 138									



# SCREW ON TYPE CNC PRECISION DRILL CHUCKS

## M16 thread connection

CNC precision drill chuck

- Can be used up to 7,000 rpm
- With internal coolant supply
- independent of rotating direction
- extremely short and slim design

**delivery extent includes small and large seal ring**

M16 thread connection

Catalogue no.

*d<sub>1</sub>*

*l<sub>3</sub>*

*A*

*d<sub>3</sub>*

*d<sub>4</sub>*

*d<sub>2</sub>*

Form/DIN

*l<sub>2</sub>*

*l<sub>1</sub>*

Accessories  
Features



**diam. 0,3 - 8 mm**

BF 0,3-8 M16 IC diam. 8 75 - 36 36 M 16 - - - A, C, D, I

**diam. 0,5 - 13 mm**

BF 0,5-13 M16 IC diam. 13 100 - 50 50 M 16 - - - B, E, F, J

**diam. 2,5 - 16 mm**

BF 2,5-16 M16 IC diam. 16 100 - 50 50 M 16 - - - B, G, H, J

**Accessories**



INBUS 4T  
INBUS 4T  
A > Page 138



INBUS 6T  
INBUS 6T  
B > Page 138



BF08DS04  
seal gasket 08DS04  
C > Page 140



BF08DS08  
seal gasket 08DS08  
D > Page 140



BF13DS06  
seal gasket 13DS06  
E > Page 140



BF13DS13  
seal gasket 13DS13  
F > Page 140



BF16DS06  
seal gasket 16DS06  
G > Page 140



BF16DS16  
seal gasket 16DS16  
H > Page 140



BF08MW  
hexagon key 08MW  
I > Page 140



BF13MW  
hexagon key 13MW  
J > Page 140

# HOLLOW TAPER SHANKS HSK

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## HSK 25 FORM E

for shrinking

- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 40,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

for shrinking

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

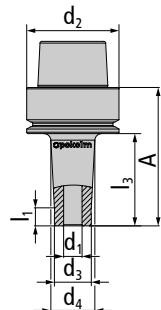
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



for diam. 3

40 03 E25 S.01	diam. 3	40	50	9	14	HSK 25	form E	-	7.8	A, B	
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for diam. 4

40 04 E25 S.01	diam. 4	40	50	10.5	13.9	HSK 25	form E	-	7.8	A, B	
----------------	------------	----	----	------	------	-----------	--------	---	-----	------	--

for diam. 6

40 06 E25 S	diam. 6	40	50	12	15.4	HSK 25	form E	-	7.8	A, B	
-------------	------------	----	----	----	------	-----------	--------	---	-----	------	--

for diam. 8

40 08 E25 S	diam. 8	40	50	16	19	HSK 25	form E	-	7.8	A, B	
-------------	------------	----	----	----	----	-----------	--------	---	-----	------	--

for diam. 10

40 10 E25 S	diam. 10	40	50	19	19	HSK 25	form E	-	-	A, B	
-------------	-------------	----	----	----	----	-----------	--------	---	---	------	--

Accessories

KMR-25  
coolant supply tube for  
HSK-tooling  
A > Page 139

SCHLUESSELHSK25  
spanner for coolant tube  
B > Page 139

# HSK 25 FORM E

## HSC precision collet chucks ER16

- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 40.000 rpm
- with internal coolant supply and bore hole for the coolant supply line



HSC precision collet chucks ER16

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

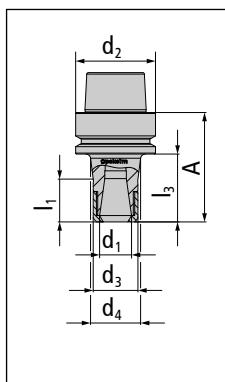
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



for ER 16	40	ER16	40	50	22	20	HSK 25	form E	-	10.5	A, B, C, D	
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Accessories	POKOLM 16 501 spanner for ER 16 collet chuck tightening nut A > Page 138	ER16 001 tightening nut ER 16 B > Page 138	KMR-25 coolant supply tube for HSK-tooling C > Page 139	SCHLUESSELHSK25 spanner for coolant tube D > Page 139



## HSK 32 FORM E

for shrinking

- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 30,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

for shrinking

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

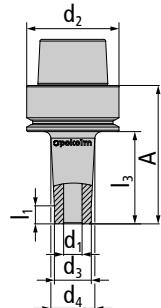
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



for Ø 3

40 03 E32 S.01	diam. 3	40	60	9	12.4	HSK 32	form E	-	7.8	A, B	
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for diam. 4

40 04 E32 S.01	diam. 4	40	60	10.5	13.87	HSK 32	form E	-	7.8	A, B	
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for diam. 6

40 06 E32 S	diam. 6	40	60	12	15.4	HSK 32	form E	-	7.8	A, B	
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for diam. 8

40 08 E32 S	diam. 8	40	60	16	20	HSK 32	form E	-	7.8	A, B	
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for diam. 10

40 10 E32 S	diam. 10	40	60	20	24	HSK 32	form E	-	7.8	A, B	
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Accessories

KMR-32  
coolant supply tube for  
HSK-tooling  
A > Page 139

SCHLUESSELHSK32  
spanner for coolant tube  
B > Page 139

# HSK 32 FORM E

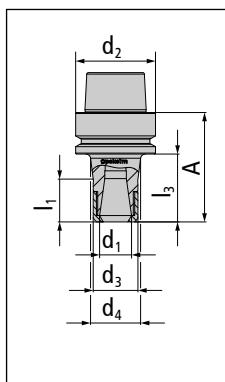
## HSC precision collet chucks ER20



- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 30,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

HSC precision collet chucks ER20

Catalogue no.



for ER 20

40 ER20 E32	ER 20	40	60	28	28	HSK 32	form E	-	11.8	A, B, C, D	
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Accessories

20 501 spanner for ER 20 collet chuck tightening nut A > Page 138	ER20 001 tightening nut ER 20 B > Page 138	KMR-32 coolant supply tube for HSK-tooling C > Page 139	SCHLUESSELHSK32 spanner for coolant tube D > Page 139	



## HSK 40 FORM E

for screw-on end mills

- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 30,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

for screw-on end mills

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

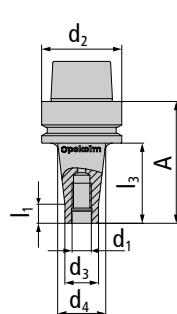
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



### M8

25 08 E40	M 8	25	45	13.8	15	HSK 40	form E	-	12	A, B	<input checked="" type="checkbox"/> G 2.5 30,000
50 08 E40	M 8	50	70	13.8	23	HSK 40	form E	-	12	A, B	<input checked="" type="checkbox"/> G 2.5 30,000
75 08 E40	M 8	75	95	13.8	25	HSK 40	form E	-	12	A, B	<input type="checkbox"/> G 2.5 30,000

### M10

25 10 E40	M 10	25	45	18	23	HSK 40	form E	-	12	A, B	<input checked="" type="checkbox"/> G 2.5 30,000
50 10 E40	M 10	50	70	18	25	HSK 40	form E	-	12	A, B	<input type="checkbox"/> G 2.5 30,000
75 10 E40	M 10	75	95	18	30	HSK 40	form E	-	12	A, B	<input type="checkbox"/> G 2.5 30,000

### Accessories

KMR-40A  
coolant supply tube for  
HSK-tooling  
A > Page 139

SCHLUESSELHSK40  
spanner for coolant tube  
B > Page 139

# HSK 40 FORM E

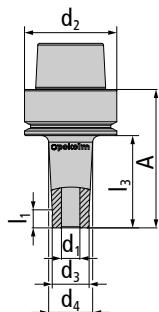
## for shrinking



- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 30,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

for shrinking

Catalogue no.



### for diam. 3

40 03 E40 S.01	diam. 3	40	60	9	14	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>
70 03 E40 S.01	diam. 3	70	90	9	18.79	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>

### for diam. 4

40 04 E40 S.01	diam. 4	40	60	10.5	13.9	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>
70 04 E40 S.01	diam. 4	70	90	10.5	17.02	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>

### for diam. 6

40 06 E40 S	diam. 6	40	60	12	15.4	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>
70 06 E40 S	diam. 6	70	90	12	18.5	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>

### for diam. 8

40 08 E40 S	diam. 8	40	60	16	19	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>
70 08 E40 S	diam. 8	70	90	16	23	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>

### for diam. 10

40 10 E40 S	diam. 10	40	60	20	23.4	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>
70 10 E40 S	diam. 10	70	90	20	26.5	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>

### for diam. 12

40 12 E40 S	diam. 12	40	60	24	27.4	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>
70 12 E40 S	diam. 12	70	90	24	30.5	HSK 40	form E	-	7.8	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>

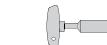
### for diam. 16

40 16 E40 S	diam. 16	40	60	32	32	HSK 40	form E	-	-	A, B	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>
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### Accessories



KMR-40A  
coolant supply tube for  
HSK-tooling  
A > Page 139



SCHLUESSELHSK40  
spanner for coolant tube  
B > Page 139



## HSK 40 FORM E

### Drill chuck

- Hollow taper shank arbor CNC precision drill chuck according to DIN69893 form E, maximum precision
- approved for up to max. 7,000 rpm
- We can supply higher balance quality according to the balance classes upon request
- with internal coolant supply and bore hole for the coolant supply tube
- independent of rotating direction
- extremely short and slim design

**Scope of delivery includes small and large seal ring**

Drill chuck	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
	<b>diam. 0.3 - 8 mm</b> BF 0,3-8 E40 IC	diam. 8	74	94	-	36	HSK 40	form E	-	-	A, B, C, D, E, F	
	<b>Accessories</b>											
	INBUS 4T INBUS 4T A > Page 138	coolant supply tube for HSK-tooling B > Page 139	spanner for coolant tube C > Page 139	BF08DS04 seal gasket 08DS04 D > Page 140	BF08DS08 seal gasket 08DS08 E > Page 140							
	BF08MW hexagon key 08MW F > Page 140											

# HSK 40 FORM E

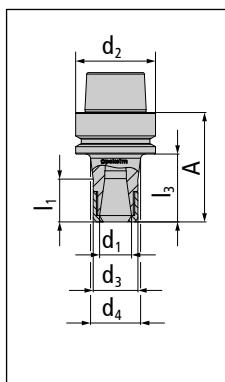
## HSC precision collet chucks ER20



- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 30,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

HSC precision collet chucks ER20

Catalogue no.



for ER 20

50 ER20 E40	ER 20	50	70	28	32	HSK 40	form E	-	33.8	A, B, C, D	
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Accessories

POKOLM 20 501 spanner for ER 20 collet chuck tightening nut A > Page 138	ER20 001 tightening nut ER 20 B > Page 138	KMR-40A coolant supply tube for HSK-tooling C > Page 139	SCHLUESSELHSK40 spanner for coolant tube D > Page 139	



## HSK 40 FORM EC

for shrinking

- Hollow taper shank arbors according to DIN69893 form E with extra drill hole in the tappet according to form C, maximum precision
- fine balanced to G 2.5 gmm at 30,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

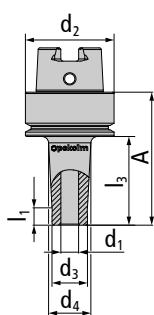
for shrinking

Catalogue no.

$d_1$     $l_3$    A    $d_3$     $d_4$     $d_2$

Form/DIN  
I<sub>2</sub>   I<sub>1</sub>

Accessories  
Features



### for diam. 3

40 03 EC 40 S.01	diam. 3	40	60	9	14	HSK 40	Form E+C	-	7.8		<input checked="" type="checkbox"/> HSM G 2.5 30.000
70 03 EC 40 S.01	diam. 3	70	90	9	18.79	HSK 40	Form E+C	-	7.8		<input type="checkbox"/> HSM G 2.5 30.000

### for diam. 4

40 04 EC 40 S.01	diam. 4	40	60	10.5	13.87	HSK 40	Form E+C	-	7.8		<input checked="" type="checkbox"/> HSM G 2.5 30.000
70 04 EC 40 S.01	diam. 4	70	90	10.5	17	HSK 40	Form E+C	-	7.8		<input type="checkbox"/> HSM G 2.5 30.000

### for diam. 6

40 06 EC 40 S	diam. 6	40	60	12	15.4	HSK 40	Form E+C	-	7.8		<input checked="" type="checkbox"/> HSM G 2.5 30.000
70 06 EC 40 S	diam. 6	70	90	12	19	HSK 40	Form E+C	-	7.8		<input checked="" type="checkbox"/> HSM G 2.5 30.000
100 06 EC 40 S	diam. 6	100	120	12	22	HSK 40	Form E+C	-	7.8		<input checked="" type="checkbox"/> HSM G 2.5 30.000

### for diam. 8

40 08 EC 40 S	diam. 8	40	60	16	19.4	HSK 40	Form E+C	-	7.8		<input checked="" type="checkbox"/> HSM G 2.5 30.000
70 08 EC 40 S	diam. 8	70	90	16	22.5	HSK 40	Form E+C	-	7.8		<input checked="" type="checkbox"/> HSM G 2.5 30.000
100 08 EC 40 S	diam. 8	100	120	16	26	HSK 40	Form E+C	-	7.8		<input checked="" type="checkbox"/> HSM G 2.5 30.000

### for diam. 10

40 10 EC 40 S	diam. 10	40	60	20	24	HSK 40	Form E+C	-	7.8		<input checked="" type="checkbox"/> HSM G 2.5 30.000
70 10 EC 40 S	diam. 10	70	90	20	26.5	HSK 40	Form E+C	-	7.8		<input type="checkbox"/> HSM G 2.5 30.000
100 10 EC 40 S	diam. 10	100	120	20	29.6	HSK 40	Form E+C	-	7.8		<input type="checkbox"/> HSM G 2.5 30.000

### for diam. 12

40 12 EC 40 S	diam. 12	40	60	24	28	HSK 40	Form E+C	-	7.8		<input type="checkbox"/> HSM G 2.5 30.000
70 12 EC 40 S	diam. 12	70	90	24	30.5	HSK 40	Form E+C	-	7.8		<input type="checkbox"/> HSM G 2.5 30.000

### for diam. 16

40 16 EC 40 S	diam. 16	40	60	32	32	HSK 40	Form E+C	-	-		<input type="checkbox"/> HSM G 2.5 30.000
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latest items!

available as long as stock lasts

on request

stock item, subject to confirmation

# HSK 50 FORM E

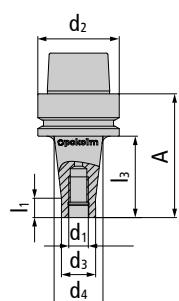
for screw-on end mills



- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 30,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

for screw-on end mills

Catalogue no.



## M8

	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 08 E50	M 8	25	51	13.8	15	HSK 50	form E	-	12	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> <b>G 30,000</b>
50 08 E50	M 8	50	76	13.8	23	HSK 50	form E	-	12	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> <b>G 30,000</b>

## M10

	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 10 E50	M 10	25	51	18	23	HSK 50	form E	-	12	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> <b>G 30,000</b>
50 10 E50	M 10	50	76	18	25	HSK 50	form E	-	12	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> <b>G 30,000</b>

## M12

	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 12 E50	M 12	25	51	21	24	HSK 50	form E	-	12	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> <b>G 30,000</b>
50 12 E50	M 12	50	76	21	30	HSK 50	form E	-	12	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> <b>G 30,000</b>
100 12 E50	M 12	100	126	21	38	HSK 50	form E	-	12	A, B	<input type="checkbox"/> <b>G 2.5</b> <b>G 30,000</b>

## M16

	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 16 E50	M 16	25	51	29	29	HSK 50	form E	-	-	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> <b>G 30,000</b>
50 16 E50	M 16	50	76	29	34	HSK 50	form E	-	12	A, B	<input type="checkbox"/> <b>G 2.5</b> <b>G 30,000</b>

## Accessories

KMR-50A  
coolant supply tube for  
HSK-tooling  
A > Page 139

SCHLUESSELHSK50  
spanner for coolant tube  
B > Page 139



## HSK 50 FORM E

for shrinking

- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 30,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

1/2 ►

for shrinking

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

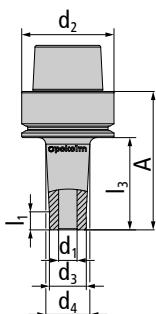
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



### for diam. 3

50 03 E50 S.01	diam. 3	50	76	9	15.6	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000
100 03 E50 S.01	diam. 3	100	126	9	23.5	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000

### for diam. 4

50 04 E50 S.01	diam. 4	50	76	10.5	14.9	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000
100 04 E50 S.01	diam. 4	100	126	10.5	20.2	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000

### for diam. 6

50 06 E50 S	diam. 6	50	76	12	16.4	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000
100 06 E50 S	diam. 6	100	126	12	21.6	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000

### for diam. 8

50 08 E50 S	diam. 8	50	76	16	20.3	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000
100 08 E50 S	diam. 8	100	126	16	25.7	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000

### for diam. 10

50 10 E50 S	diam. 10	50	76	20	24.4	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000
100 10 E50 S	diam. 10	100	126	20	30	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000

### for diam. 12

50 12 E50 S	diam. 12	50	76	24	28.4	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000
100 12 E50 S	diam. 12	100	126	24	34	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000

### for diam. 16

50 16 E50 S	diam. 16	50	76	32	36.4	HSK 50	form E	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000
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latest items!

available as long as stock lasts

on request

stock item, subject to confirmation

for shrinking

Catalogue no.

 $d_1$  $l_3$ 

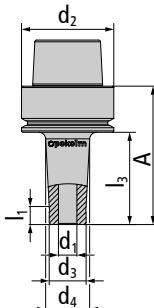
A

 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ 

Accessories Features



for diam. 20

60 20 E50 S	diam. 20	60	86	40	40	HSK 50	form E	-	-	A, B	<input checked="" type="checkbox"/> <small>G2.5 30.000</small>
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## Accessories



KMR-50A  
coolant supply tube for  
HSK-tooling  
A > Page 139



SCHLUESSELHSK50  
spanner for coolant tube  
B > Page 139



## HSK 50 FORM E

### Drill chuck

- Hollow taper shank arbor CNC precision drill chuck according to DIN69893 form E, maximum precision
  - approved for up to max. 7,000 rpm
  - We can supply higher balance quality according to the balance classes upon request
  - with internal coolant supply and bore hole for the coolant supply tube
  - independent of rotating direction
  - extremely short and slim design
- Scope of delivery includes small and large seal ring**

Drill chuck

Catalogue no.

d<sub>1</sub>l<sub>3</sub>

A

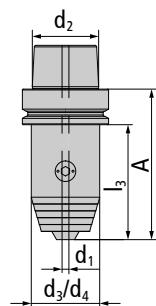
d<sub>3</sub>d<sub>4</sub>d<sub>2</sub>

Form/DIN

l<sub>2</sub>l<sub>1</sub>

Accessories

Features

**Ø 0.3 - 8 mm**

BF 0,3-8 E50 IC	diam. 8	72	98	-	36	HSK 50	form E	-	-	A, C, D, E, F, K	<input checked="" type="checkbox"/>
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**Ø 0.5 - 13 mm**

BF 0,5-13 E50 IC	diam. 13	96	122	-	50	HSK 50	form E	-	-	B, C, D, G, H, L	<input checked="" type="checkbox"/>
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**Ø 2.5 - 16 mm**

BF 2,5-16 E50 IC	diam. 16	101	127	-	57	HSK 50	form E	-	-	B, C, D, I, J, L	<input checked="" type="checkbox"/>
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## Accessories

INBUS 4T INBUS 4T A > Page 138	INBUS 6T INBUS 6T B > Page 138	KMR-50A coolant supply tube for HSK-tooling C > Page 139	SCHLUESELHSK50 spanner for coolant tube D > Page 139	BF08DS04 seal gasket 08DS04 E > Page 140
BF08DS08 seal gasket 08DS08 F > Page 140	BF13DS06 seal gasket 08DS08 G > Page 140	BF13DS13 seal gasket 13DS13 H > Page 140	BF16DS06 seal gasket 16DS06 I > Page 140	BF16DS16 seal gasket 16DS16 J > Page 140
BF08MW hexagon key 08MW K > Page 140	BF13MW hexagon key 13MW L > Page 140			

# HSK 50 FORM E

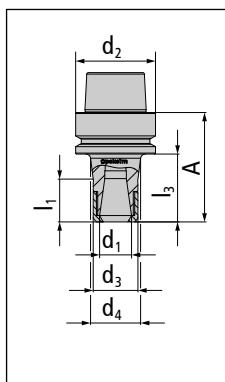
## HSC precision collet chucks ER20



- Hollow taper shank arbors according to DIN69893 form E, maximum precision
- fine balanced to G 2.5 gmm at 30,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

HSC precision collet chucks ER20

Catalogue no.



for ER 20

50 ER20 E50	ER 20	50	76	28	32	HSK 50	form E	-	33.8	A, B, C, D	
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Accessories

POKOLM 20 501 spanner for ER 20 collet chuck tightening nut A > Page 138	ER20 001 tightening nut ER 20 B > Page 138	KMR-50A coolant supply tube for HSK-tooling C > Page 139	SCHLUESSELHSK50 spanner for coolant tube D > Page 139	



## HSK 63 FORM A

for screw-on end mills

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 2.5 gmm at 25,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

1/2 ▶

for screw-on end mills

Catalogue no.



### M8

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 08 A63	M 8	25	51	13.8	15	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
50 08 A63	M 8	50	76	13.8	23	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
75 08 A63	M 8	75	101	13.8	25	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
100 08 A63	M 8	100	126	13.8	30	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	

### M10

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 10 A63	M 10	25	51	18	23	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
50 10 A63	M 10	50	76	18	25	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
75 10 A63	M 10	75	101	18	30	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
100 10 A63	M 10	100	126	18	35	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
125 10 A63	M 10	125	151	18	38	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
150 10 A63	M 10	150	176	18	45	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	

### M12

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 12 A63	M 12	25	51	21	24	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
50 12 A63	M 12	50	76	21	30	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
75 12 A63	M 12	75	101	21	35	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
100 12 A63	M 12	100	126	21	38	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
125 12 A63	M 12	125	151	21	43	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	
150 12 A63	M 12	150	176	21	45	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/>	

latest items!

available as long as stock lasts

on request

stock item, subject to confirmation

for screw-on end mills

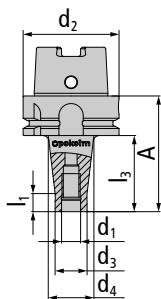
Catalogue no.

 $d_1$  $l_3$ 

A

 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ Accessories  
Features

## M16

25 16 A63	M 16	25	51	29	29	HSK 63	form A	-	-	A, B	<input checked="" type="checkbox"/> HSM G 2,5 25.000
50 16 A63	M 16	50	76	29	34	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 2,5 25.000
75 16 A63	M 16	75	101	29	35	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 2,5 25.000
100 16 A63	M 16	100	126	29	40	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 2,5 25.000
125 16 A63	M 16	125	151	29	44	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 2,5 25.000
150 16 A63	M 16	150	176	29	48	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 2,5 25.000
175 16 A63	M 16	175	201	29	50	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 2,5 25.000
200 16 A63	M 16	200	226	29	50	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 2,5 25.000
250 16 A63	M 16	250	276	29	50	HSK 63	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 2,5 25.000

## Accessories



KMR-63A  
coolant supply tube for  
HSK-tooling  
A > Page 139



SCHLUESSELHSK63  
spanner for coolant tube  
B > Page 139



## HSK 63 FORM A

for screw-on end mills | cylindrical

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 2.5 gmm at 25,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

for screw-on end mills |  
cylindrical

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

$d_2$

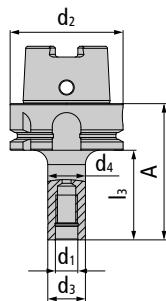
$l_2$

$l_1$

Form/DIN

Accessories

Features



M8

50 08 A63 ZYL	M 8	50	76	13.8	13.8	HSK 63	form A	-	-	A, B	G 2.5 25,000
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M10

50 10 A63 ZYL	M 10	50	76	18	18	HSK 63	form A	-	-	A, B	G 2.5 25,000
75 10 A63 ZYL	M 10	75	101	18	18	HSK 63	form A	-	-	A, B	G 2.5 25,000
100 10 A63 ZYL	M 10	100	126	18	18	HSK 63	form A	-	-	A, B	G 2.5 25,000

M12

50 12 A63 ZYL	M 12	50	76	21	21	HSK 63	form A	-	-	A, B	G 2.5 25,000
75 12 A63 ZYL	M 12	75	101	21	21	HSK 63	form A	-	-	A, B	G 2.5 25,000
100 12 A63 ZYL	M 12	100	126	21	21	HSK 63	form A	-	-	A, B	G 2.5 25,000

M16

50 16 A63 ZYL	M 16	50	76	29	29	HSK 63	form A	-	-	A, B	G 2.5 25,000
75 16 A63 ZYL	M 16	75	101	29	29	HSK 63	form A	-	-	A, B	G 2.5 25,000
100 16 A63 ZYL	M 16	100	126	29	29	HSK 63	form A	-	-	A, B	G 2.5 25,000

Accessories

	KMR-63A coolant supply tube for HSK-tooling A > Page 139		SCHLUESSELHSK63 spanner for coolant tube B > Page 139			
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# HSK 63 FORM A

for shrinking



- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 2.5 gmm at 25,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

1 / 3 ▶

for shrinking

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

$d_2$

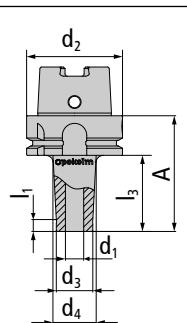
Form/DIN

$l_2$

$l_1$

Accessories

Features



for diam. 3

50 03 A63 S.01	diam. 3	50	76	9	15.6	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
100 03 A63 S.01	diam. 3	100	126	9	23.5	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000

for diam. 4

50 04 A63 S.01	diam. 4	50	76	10.5	14.9	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
75 04 A63 S.01	diam. 4	75	101	10.5	17.6	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
100 04 A63 S.01	diam. 4	100	126	10.5	20.2	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000

for diam. 6

50 06 A63 S	diam. 6	50	76	12	16.4	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
75 06 A63 S	diam. 6	75	101	12	19	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
100 06 A63 S	diam. 6	100	126	12	21.7	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
150 06 A63 S	diam. 6	150	176	12	27	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
200 06 A63 S	diam. 6	200	226	12	32.1	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000

for diam. 8

50 08 A63 S	diam. 8	50	76	16	20.4	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
75 08 A63 S	diam. 8	75	101	16	23	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
100 08 A63 S	diam. 8	100	126	16	25.7	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
150 08 A63 S	diam. 8	150	176	16	30.9	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000
200 08 A63 S	diam. 8	200	226	16	36.1	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> <b>G 2.5</b> 25,000

Accessories

	KMR-63A coolant supply tube for HSK-tooling A > Page 139		SCHLUESSELHSK63 spanner for coolant tube B > Page 139					
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## HSK 63 FORM A

### for shrinking

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 2.5 gmm at 25,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

◀ 2/3 ▶

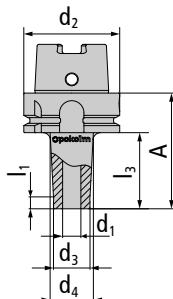
for shrinking

Catalogue no.

$d_1$     $l_3$    A    $d_3$     $d_4$     $d_2$

Form/DIN  
I<sub>2</sub>   I<sub>1</sub>

Accessories  
Features



#### for diam. 10

50 10 A63 S	diam. 10	50	76	20	24.4	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
75 10 A63 S	diam. 10	75	101	20	27	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
100 10 A63 S	diam. 10	100	126	20	30	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
150 10 A63 S	diam. 10	150	176	20	35	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
200 10 A63 S	diam. 10	200	226	20	40.1	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000

#### for diam. 12

50 12 A63 S	diam. 12	50	76	24	28.4	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
75 12 A63 S	diam. 12	75	101	24	31	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
100 12 A63 S	diam. 12	100	126	24	33.7	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
150 12 A63 S	diam. 12	150	176	24	39	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
200 12 A63 S	diam. 12	200	226	24	44.1	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000

#### for diam. 16

50 16 A63 S	diam. 16	50	76	32	36.4	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
75 16 A63 S	diam. 16	75	101	32	39	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
100 16 A63 S	diam. 16	100	126	32	41.7	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
150 16 A63 S	diam. 16	150	176	32	46.9	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000

#### for diam. 20

60 20 A63 S	diam. 20	60	86	40	45.5	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
100 20 A63 S	diam. 20	100	126	40	49.7	HSK 63	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000

#### for diam. 25

60 25 A63 S	diam. 25	60	86	46	46	HSK 63	form A	-	-	A, B	<input checked="" type="checkbox"/> HSM G 2.5 25.000
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### for shrinking

Catalogue no.

d.

1

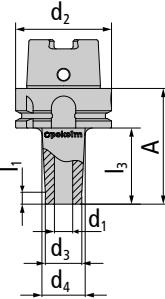
A

d

Form/DIN

1

**Accessories**      **Features**



for diam. 32

60 32 A63 S	diam. 32	60	86	44	53	HSK 63	form A	-	-		  G2.5 [25000]
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## Accessories



KMR-63A  
coolant supply tube for  
HSK-tooling  
A > Page 139



SCHLUESSELHSK63  
spanner for coolant tube  
B > Page 139



## HSK 63 FORM A

for shrinking | reinforced design

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 2.5 gmm at 25,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

for shrinking |  
reinforced design

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

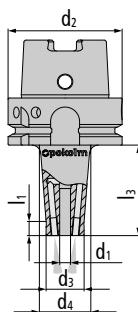
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



### for diam. 6

50 06 A63 SB	diam. 6	50	76	21	27.6	HSK 63	form A	-	7.8	A, B	HSM G 2.5 25,000
100 06 A63 SB	diam. 6	100	126	21	35.5	HSK 63	form A	-	7.8	A, B	HSM G 2.5 25,000

### for diam. 8

50 08 A63 SB	diam. 8	50	76	21	27.6	HSK 63	form A	-	7.8	A, B	HSM G 2.5 25,000
100 08 A63 SB	diam. 8	100	126	21	35.5	HSK 63	form A	-	7.8	A, B	HSM G 2.5 25,000

### for diam. 10

50 10 A63 SB	diam. 10	50	76	24	30.6	HSK 63	form A	-	7.8	A, B	HSM G 2.5 25,000
100 10 A63 SB	diam. 10	100	126	24	38.5	HSK 63	form A	-	7.8	A, B	HSM G 2.5 25,000

### Accessories

	SCHLUESSELHSK63 spanner for coolant tube B > Page 139			
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# HSK 63 FORM A

for shrinking | CoolCap®



- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 18,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube
- ring shaped cooling jet for ideal cooling performance and chip flushing

1 / 2 ➤

for shrinking |  
CoolCap®

Catalogue no.

$d_1$

$I_3$

A

$d_3$

$d_4$

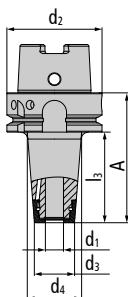
$d_2$

Form/DIN

$I_2$

$I_1$

Accessories  
Features



for diam. 6

50 06 A63 SR1	diam. 6	50	76	16.5	24.4	HSK 63	form A	-	-	A, B, C, H, M, N	
75 06 A63 SR1	diam. 6	75	101	16.5	28.33	HSK 63	form A	-	-	A, B, C, H, M, N	
100 06 A63 SR1	diam. 6	100	126	16.5	32.3	HSK 63	form A	-	-	A, B, C, H, M, N	

for diam. 8

50 08 A63 SR1	diam. 8	50	76	20.5	27.4	HSK 63	form A	-	-	A, B, D, I, M, N	
75 08 A63 SR1	diam. 8	75	101	20.5	32.33	HSK 63	form A	-	-	A, B, D, I, M, N	
100 08 A63 SR1	diam. 8	100	126	20.5	36.3	HSK 63	form A	-	-	A, B, D, I, M, N	

for diam. 10

50 10 A63 SR1	diam. 10	50	76	22.5	30.4	HSK 63	form A	-	-	A, B, E, J, M, N	
75 10 A63 SR1	diam. 10	75	101	22.5	34.3	HSK 63	form A	-	-	A, B, E, J, M, N	
100 10 A63 SR1	diam. 10	100	126	22.5	38.3	HSK 63	form A	-	-	A, B, E, J, M, N	

Accessories

KMR-63A coolant supply tube for HSK-tooling A > Page 139	SCHLUESSELHSK63 spanner for coolant tube B > Page 139	SR1 S06 SW17 COOLCAP®-Screw-On Cap for shrinking Ø 6 C > Page 139	SR1 S08 SW21 COOLCAP®-Screw-On Cap for shrinking Ø 8 D > Page 139	SR1 S10 SW22 COOLCAP®-Screw-On Cap for shrinking Ø 10, E > Page 139
SR1 S12 SW27 COOLCAP®-Screw-On Cap for shrinking Ø 12 F > Page 139	SR1 S16 SW32 COOLCAP®-Screw-On Cap for shrinking Ø 16 G > Page 139	SR1 A06 SW17 COOLCAP®-Screw-On Cap for shrinking Ø 6 H > Page 140	SR1 A08 SW21 COOLCAP®-Screw-On Cap for shrinking Ø 8 I > Page 140	SR1 A10 SW22 COOLCAP®-Screw-On Cap for shrinking Ø 10, J > Page 140
SR1 A12 SW27 COOLCAP®-Screw-On Cap for shrinking Ø 12 K > Page 140	SR1 A16 SW32 COOLCAP®-Screw-On Cap for shrinking Ø 16 L > Page 140	SR1 ZSW 001 COOLCAP®-applying tool M > Page 140	DMS 3/8 8-60 NM torque wrench 3/8" N > Page 140	

Important: the scope of delivery of each COOLCAP® cooling arbor includes one cap each. When ordering, please always state whether you want a cap for air/MMS or a cap for emulsion/cooling water. Additional caps can be ordered separately. Always tighten and loosen caps only with an application tool or a box wrench!



## HSK 63 FORM A

for shrinking | CoolCap®

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 18,000 rpm
- ring shaped cooling jet for ideal cooling performance and chip flushing

◀ 2/2

for shrinking |  
CoolCap®

Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
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	<table border="1"> <thead> <tr> <th colspan="11">for diam. 12</th></tr> </thead> <tbody> <tr> <td>60 12 A63 SR1</td><td>diam. 12</td><td>60</td><td>86</td><td>26.5</td><td>36</td><td>HSK 63</td><td>form A</td><td>-</td><td>-</td><td>A, B, F, K, M, N</td><td>  HSM G 6.3 18,000</td></tr> <tr> <td>75 12 A63 SR1</td><td>diam. 12</td><td>75</td><td>101</td><td>26.5</td><td>38.33</td><td>HSK 63</td><td>form A</td><td>-</td><td>-</td><td>A, B, F, K, M, N</td><td>  HSM G 6.3 18,000</td></tr> <tr> <td>100 12 A63 SR1</td><td>diam. 12</td><td>100</td><td>126</td><td>26.5</td><td>42.3</td><td>HSK 63</td><td>form A</td><td>-</td><td>-</td><td>A, B, F, K, M, N</td><td>  HSM G 6.3 18,000</td></tr> <tr> <th colspan="11">for diam. 16</th></tr> <tr> <td>60 16 A63 SR1</td><td>diam. 16</td><td>60</td><td>86</td><td>31.5</td><td>41</td><td>HSK 63</td><td>form A</td><td>-</td><td>-</td><td>A, B, G, L, M, N</td><td>  HSM G 6.3 18,000</td></tr> <tr> <td>100 16 A63 SR1</td><td>diam. 16</td><td>100</td><td>126</td><td>31.5</td><td>47.3</td><td>HSK 63</td><td>form A</td><td>-</td><td>-</td><td>A, B, G, L, M, N</td><td>  HSM G 6.3 18,000</td></tr> </tbody> </table>	for diam. 12											60 12 A63 SR1	diam. 12	60	86	26.5	36	HSK 63	form A	-	-	A, B, F, K, M, N	HSM G 6.3 18,000	75 12 A63 SR1	diam. 12	75	101	26.5	38.33	HSK 63	form A	-	-	A, B, F, K, M, N	HSM G 6.3 18,000	100 12 A63 SR1	diam. 12	100	126	26.5	42.3	HSK 63	form A	-	-	A, B, F, K, M, N	HSM G 6.3 18,000	for diam. 16											60 16 A63 SR1	diam. 16	60	86	31.5	41	HSK 63	form A	-	-	A, B, G, L, M, N	HSM G 6.3 18,000	100 16 A63 SR1	diam. 16	100	126	31.5	47.3	HSK 63	form A	-	-	A, B, G, L, M, N	HSM G 6.3 18,000
for diam. 12																																																																																			
60 12 A63 SR1	diam. 12	60	86	26.5	36	HSK 63	form A	-	-	A, B, F, K, M, N	HSM G 6.3 18,000																																																																								
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100 12 A63 SR1	diam. 12	100	126	26.5	42.3	HSK 63	form A	-	-	A, B, F, K, M, N	HSM G 6.3 18,000																																																																								
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60 16 A63 SR1	diam. 16	60	86	31.5	41	HSK 63	form A	-	-	A, B, G, L, M, N	HSM G 6.3 18,000																																																																								
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	SCHLUESSELHSK63	SR1 S06 SW17	SR1 S08 SW21	SR1 S10 SW22																																																																															
KMR-63A coolant supply tube for HSK-tooling A > Page 139	spanner for coolant tube B > Page 139	COOLCAP®-Screw-On Cap for shrinking Ø 6 C > Page 139	COOLCAP®-Screw-On Cap for shrinking Ø 8 D > Page 139	COOLCAP®-Screw-On Cap for shrinking Ø 10, E > Page 139																																																																															
SR1 S12 SW27 COOLCAP®-Screw-On Cap for shrinking Ø 12 F > Page 139	COOLCAP®-Screw-On Cap for shrinking Ø 16 G > Page 139	COOLCAP®-Screw-On Cap for shrinking Ø 6 H > Page 140	COOLCAP®-Screw-On Cap for shrinking Ø 8 I > Page 140	COOLCAP®-Screw-On Cap for shrinking Ø 10, J > Page 140																																																																															
			DMS 3/8 8-60 NM torque wrench 3/8" N > Page 140																																																																																
SR1 A12 SW27 COOLCAP®-Screw-On Cap for shrinking Ø 12 K > Page 140	COOLCAP®-Screw-On Cap for shrinking Ø 16 L > Page 140	COOLCAP®-applying tool M > Page 140																																																																																	

**Important:** the scope of delivery of each COOLCAP® cooling arbor includes one cap each. When ordering, please always state whether you want a cap for air/MMS or a cap for emulsion/cooling water. Additional caps can be ordered separately. Always tighten and loosen caps only with an application tool or a box wrench!

# HSK 63 FORM A

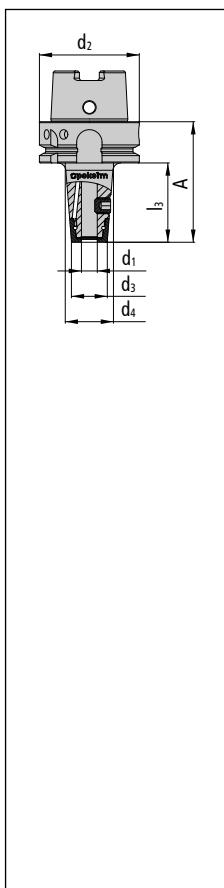
for Weldonshanks | CoolCap®



- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 18,000 rpm
- ring shaped cooling jet for ideal cooling performance and chip flushing

for Weldonshanks |  
CoolCap®

Catalogue no.



	d <sub>1</sub>	I <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	I <sub>2</sub>	I <sub>1</sub>	Accessories	Features
<b>for diam. 10</b>											
50 10 A63 SR1 W	diam. 10	50	76	22.5	30.4	HSK 63	form A	-	-	A, D, E, F, I, L, M	
<b>for diam. 12</b>											
60 12 A63 SR1 W	diam. 12	60	86	26.5	36	HSK 63	form A	-	-	B, D, E, G, J, L, M	
<b>for diam. 16</b>											
60 16 A63 SR1 W	diam. 16	60	86	31.5	41	HSK 63	form A	-	-	C, D, E, H, K, L, M	
<b>Accessories</b>											
M10X10 screw for reduction sleeve A > Page 137	M12X10 screw B > Page 137	M14X12 screw C > Page 137	KMR-63A coolant supply tube for HSK-tooling D > Page 139	SCHLUESSELHSK63 spanner for coolant tube E > Page 139							
SR1 S10 SW22 COOLCAP®-Screw-On Cap for shrinking Ø 10 F > Page 139	SR1 S12 SW27 COOLCAP®-Screw-On Cap for shrinking Ø 12 G > Page 139	SR1 S16 SW32 COOLCAP®-Screw-On Cap for shrinking Ø 16 H > Page 139	SR1 A10 SW22 COOLCAP®-Screw-On Cap for shrinking Ø 10 I > Page 140	SR1 A12 SW27 COOLCAP®-Screw-On Cap for shrinking Ø 12, J > Page 140							
SR1 A16 SW32 COOLCAP®-Screw-On Cap for shrinking Ø 16 K > Page 140	SR1 ZSW 001 COOLCAP®-applying tool L > Page 140	DMS 3/8 8-60 NM torque wrench 3/8" M > Page 140									

**Important:** the scope of delivery of each COOLCAP® cooling arbor includes one cap each. When ordering, please always state whether you want a cap for air/MMS or a cap for emulsion/cooling water. Additional caps can be ordered separately. Always tighten and loosen caps only with an application tool or a box wrench!



## HSK 63 FORM A

for shell-type milling

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 2.5 gmm at 25,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

1/2 ▶

for shell-type milling	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
------------------------	---------------	-------	-------	---	-------	-------	-------	----------	-------	-------	-------------	----------

	bore diam. 16											
	25 16 A63 Z	diam. 16	25	51	38	40	HSK 63	form A	-	7.8	C, D, G, J, K	G 2.5 25,000
	50 16 A63 Z	diam. 16	50	76	38	42	HSK 63	form A	-	7.8	C, D, G, J, K	G 2.5 25,000
	75 16 A63 Z	diam. 16	75	101	38	45	HSK 63	form A	-	7.8	C, D, G, J, K	G 2.5 25,000
	100 16 A63 Z	diam. 16	100	126	38	50	HSK 63	form A	-	7.8	C, D, G, J, K	G 2.5 25,000
	125 16 A63 Z	diam. 16	125	151	38	50	HSK 63	form A	-	7.8	C, D, G, J, K	G 2.5 25,000
	150 16 A63 Z	diam. 16	150	176	38	50	HSK 63	form A	-	7.8	C, D, G, J, K	G 2.5 25,000
	200 16 A63 Z	diam. 16	200	226	38	50	HSK 63	form A	-	7.8	C, D, G, J, K	G 2.5 25,000

	bore diam. 22											
	25 22 A63	diam. 22	25	51	40	40	HSK 63	form A	-	-	B, E, H, J, K	G 2.5 25,000
	50 22 A63	diam. 22	50	76	40	40	HSK 63	form A	-	-	B, E, H, J, K	G 2.5 25,000
	75 22 A63.01	diam. 22	75	101	48	50	HSK 63	form A	-	7.8	B, E, H, J, K	G 2.5 25,000
	100 22 A63.01	diam. 22	100	126	48	50	HSK 63	form A	-	7.8	B, E, H, J, K	G 2.5 25,000
	150 22 A63	diam. 22	150	176	48	48	HSK 63	form A	-	7.8	B, E, H, J, K	G 6.3 20,000
	200 22 A63	diam. 22	200	226	48	49	HSK 63	form A	-	7.8	B, E, H, J, K	G 2.5 25,000

for shell-type milling

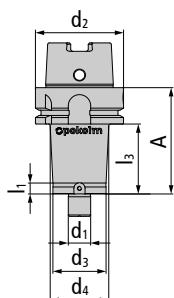
Catalogue no.

 $d_1$  $l_3$ 

A

 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ Accessories  
Features

## bore diam. 27

25 27 A63	diam. 27	25	51	48	48	HSK 63	form A	-	-	A, F, I, J, K	<input checked="" type="checkbox"/> HSM G 2,5 25.000
50 27 A63	diam. 27	50	76	48	48	HSK 63	form A	-	-	A, F, I, J, K	<input checked="" type="checkbox"/> HSM G 2,5 25.000
75 27 A63	diam. 27	75	101	48	48	HSK 63	form A	-	-	A, F, I, J, K	<input checked="" type="checkbox"/> HSM G 2,5 25.000
100 27 A63	diam. 27	100	126	48	48	HSK 63	form A	-	-	A, F, I, J, K	<input checked="" type="checkbox"/> HSM G 2,5 25.000
150 27 A63	diam. 27	150	176	48	48	HSK 63	form A	-	-	A, F, I, J, K	<input checked="" type="checkbox"/> HSM G 2,5 25.000
200 27 A63	diam. 27	200	226	48	50	HSK 63	form A	-	7.8	A, F, I, J, K	<input checked="" type="checkbox"/> HSM G 2,5 25.000

## Accessories



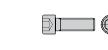
M5X12  
screw for drive block  
12 x 8  
A > Page 137



M4X10  
screw for drive block  
10 x 8  
B > Page 137



M3X10  
screws for drive block  
8 x 8  
C > Page 137



M8X30  
screw DIN 912 | 10.9  
D > Page 138



M10X35  
screw M10X35 DIN  
912 | 10.9  
E > Page 138



M12X35  
screw M12X35 | 10.9  
F > Page 138



NUTEN8X8  
drive block 8 x 8  
G > Page 138



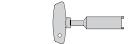
NUTEN10X8  
drive block 10 x 8  
H > Page 138



NUTEN12X8  
drive block 12 x 8  
I > Page 138



KMR-63A  
coolant supply tube  
for HSK-tooling  
J > Page 139



SCHLUESSELHSK63  
spanner for coolant tube  
K > Page 139



# HSK 63 FORM A

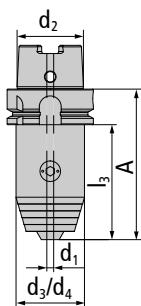
## Drill chuck

- Hollow taper shank arbor CNC precision drill chuck according to DIN69893 form E, maximum precision
- approved for up to max. 7,000 rpm
- We can supply higher balance quality according to the balance classes on request
- with internal coolant supply and bore hole for the coolant supply tube
- independent of rotating direction
- extremely short and slim design

**Scope of delivery includes small and large seal ring**

Drill chuck

Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features



### diam. 0.3 - 8 mm

BF 0,3-8 A63 IC	diam. 8	73	99	-	36	HSK 63	form A	-	-	A, C, D, E, F, K	
-----------------	---------	----	----	---	----	--------	--------	---	---	------------------	--

### diam. 0.5 - 13 mm

BF 0,5-13 A63 IC	diam. 13	84	110	-	50	HSK 63	form A	-	-	B, C, D, G, H, L	
------------------	----------	----	-----	---	----	--------	--------	---	---	------------------	--

### diam. 2.5 - 16 mm

BF 2,5-16 A63 IC	diam. 16	89	115	-	57	HSK 63	form A	-	-	B, C, D, I, J, L	
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### Accessories

INBUS 4T INBUS 4T A > Page 138	INBUS 6T INBUS 6T B > Page 138	KMR-63A coolant supply tube for HSK-tooling C > Page 139	SCHLUESSELHSK63 spanner for coolant tube D > Page 139	BF08DS04 seal gasket 08DS04 E > Page 140
BF08DS08 seal gasket 08DS08 F > Page 140	BF13DS06 seal gasket 08DS08 G > Page 140	BF13DS13 seal gasket 13DS13 H > Page 140	BF16DS06 seal gasket 16DS06 I > Page 140	BF16DS16 seal gasket 16DS16 J > Page 140
BF08MW hexagon key 08MW K > Page 140	BF13MW hexagon key 13MW L > Page 140			

# HSK 63 FORM A

for morse taper shanks



- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 2.5 gmm at 25,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

for morse taper shanks

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

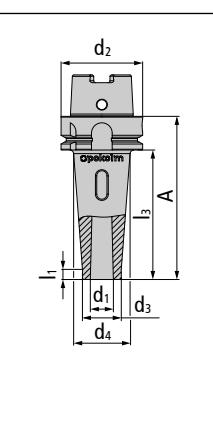
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



MTS 2

100 MK2 AL A63	MTS 2	100	126	30	44	HSK 63	form A	-	7.8	A, B, C	<input checked="" type="checkbox"/> HSM G 2.5 25.000
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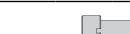
MTS 3

120 MK3 AL A63	MTS 3	120	146	35	46	HSK 63	form A	-	7.8	B, C	<input checked="" type="checkbox"/> HSM G 2.5 25.000
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Accessories



M10X45 IC  
screw for 120 MK3 AL  
A63  
A > Page 137



KMR-63A  
coolant supply tube for  
HSK-tooling  
B > Page 139



SCHLUESSELHSK63  
spanner for coolant  
tube  
C > Page 139

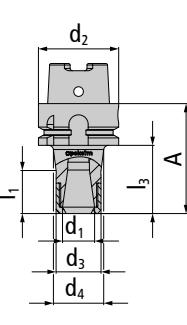


## HSK 63 FORM A

### HSC precision collet chucks ER20

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 2.5 gmm at 25,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

HSC precision collet chucks ER20	Catalogue no.	Form/DIN						Accessories		Features	
		$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	$l_2$	$l_1$		
	for ER 20										
	50 ER20 A63	ER 20	50	76	28	32	HSK 63	form A	-	33.8	A, B, C, D
	100 ER20 A63	ER 20	100	126	28	40	HSK 63	form A	-	33.8	A, B, C, D
<b>Accessories</b>											
 <b>20 501</b> spanner for ER 20 collet chuck tightening nut A > Page 138			 <b>ER20 001</b> tightening nut ER 20 B > Page 138			 <b>KMR-63A</b> coolant supply tube for HSK-tooling C > Page 139			 <b>SCHLUESSELHSK63</b> spanner for coolant tube D > Page 139		



# HSK 100 FORM A

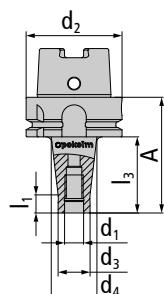
for screw-on end mills



1 / 2 ▶

for screw-on end mills

Catalogue no.



## M8

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
50 08 A100	M 8	50	79	13.8	23	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]
100 08 A100	M 8	100	129	13.8	30	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]

## M10

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
50 10 A100	M 10	50	79	18	25	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]
75 10 A100	M 10	75	104	18	30	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]
100 10 A100	M 10	100	129	18	35	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]
150 10 A100	M 10	150	179	18	45	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]

## M12

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
50 12 A100	M 12	50	79	21	30	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]
100 12 A100	M 12	100	129	21	38	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]
150 12 A100	M 12	150	179	21	52	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]
200 12 A100	M 12	200	229	21	58	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]
250 12 A100	M 12	250	279	21	62	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]
300 12 A100	M 12	300	329	21	68	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/>	HSM G 6.3 [12,000]

## Accessories

	KMR-100A coolant supply tube for HSK-tooling A > Page 139		SCHLUESSELHSK100 spanner for coolant tube B > Page 139			
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## HSK 100 FORM A

for screw-on end mills

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 12,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

◀ 2/2

for screw-on end mills

Catalogue no.



M16

Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
50 16 A100	M 16	50	79	29	34	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6.3 12,000
100 16 A100	M 16	100	129	29	40	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6.3 12,000
150 16 A100	M 16	150	179	29	58	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6.3 12,000
200 16 A100	M 16	200	229	29	58	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6.3 12,000
250 16 A100	M 16	250	279	29	66	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6.3 12,000
300 16 A100	M 16	300	329	29	66	HSK 100	form A	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6.3 12,000

Accessories

	KMR-100A coolant supply tube for HSK-tooling A > Page 139		SCHLUESSELHSK100 spanner for coolant tube B > Page 139		
--	--	--	--	--	--

# HSK 100 FORM A

## for shrinking

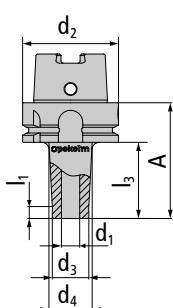


- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 12,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

1 / 2 ▶

### for shrinking

#### Catalogue no.



#### for diam. 6

	diam. 6	100	129	12	22	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]
100 06 A100 S	diam. 6	100	129	12	22	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]

#### for diam. 8

	diam. 8	100	129	16	25.7	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]
100 08 A100 S	diam. 8	100	129	16	25.7	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]

#### for diam. 10

	diam. 10	100	129	20	29.7	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]
100 10 A100 S	diam. 10	100	129	20	29.7	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]

#### for diam. 12

	diam. 12	100	129	24	33.7	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]
100 12 A100 S	diam. 12	100	129	24	33.7	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]

#### for diam. 16

	diam. 16	60	89	32	37.5	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]
60 16 A100 S	diam. 16	60	89	32	37.5	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]
100 16 A100 S	diam. 16	100	129	32	41.7	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]

#### for diam. 20

	diam. 20	60	89	40	40	HSK 100	form A	-	-	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]
60 20 A100 S	diam. 20	60	89	40	40	HSK 100	form A	-	-	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]

#### for diam. 25

	diam. 25	60	89	46	46	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]
60 25 A100 S	diam. 25	60	89	46	46	HSK 100	form A	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 [12,000]

#### Accessories

		SCHLUESSELHSK100 spanner for coolant tube B > Page 139		
--	--	--	--	--



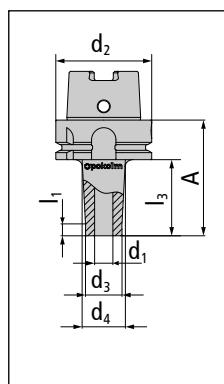
## HSK 100 FORM A

for shrinking

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 12,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

◀ 2/2

for shrinking	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
---------------	---------------	-------	-------	---	-------	-------	-------	----------	-------	-------	-------------	----------



for diam. 32

70 32 A100 S	diam. 32	70	99	44	53	HSK 100	form A	-	7.8	A, B	<input type="checkbox"/>
--------------	-------------	----	----	----	----	------------	--------	---	-----	------	--------------------------

Accessories

KMR-100A coolant supply tube for HSK-tooling A > Page 139	SCHLUESSELHSK100 spanner for coolant tube B > Page 139			

# HSK 100 FORM A

for shrinking | CoolCap®



- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 12,000 rpm
- ring shaped cooling jet for ideal cooling performance and chip flushing

for shrinking |  
CoolCap®

Catalogue no.

	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
<b>for diam. 6</b>											
100 06 A100 SR1	diam. 6	100	129	16.5	32.3	HSK 100	form A	-	-	A, B, C, H, M, N	G 6.3 [12,000]
<b>for diam. 8</b>											
100 08 A100 SR1	diam. 8	100	129	20.5	36.3	HSK 100	form A	-	-	A, B, D, I, M, N	G 6.3 [12,000]
<b>for diam. 10</b>											
100 10 A100 SR1	diam. 10	100	129	22.5	38.3	HSK 100	form A	-	-	A, B, E, J, M, N	G 6.3 [12,000]
<b>for diam. 12</b>											
100 12 A100 SR1	diam. 12	100	129	26.5	42.3	HSK 100	form A	-	-	A, B, F, K, M, N	G 6.3 [12,000]
<b>for diam. 16</b>											
100 16 A100 SR1	diam. 16	100	129	31.5	47.3	HSK 100	form A	-	-	A, B, G, L, M, N	G 6.3 [12,000]
<b>Accessories</b>											
	KMR-100A coolant supply tube for HSK-tooling A > Page 139		SCHLUESSELHSK100 spanner for coolant tube B > Page 139		SR1 S06 SW17 COOLCAP®-Screw-On Cap for shrinking Ø 6 C > Page 139		SR1 S08 SW21 COOLCAP®-Screw-On Cap for shrinking Ø 8 D > Page 139		SR1 S10 SW22 COOLCAP®-Screw-On Cap for shrinking Ø 10, E > Page 139		
	SR1 S12 SW27 COOLCAP®-Screw-On Cap for shrinking Ø 12 F > Page 139		SR1 S16 SW32 COOLCAP®-Screw-On Cap for shrinking Ø 16 G > Page 139		SR1 A06 SW17 COOLCAP®-Screw-On Cap for shrinking Ø 6 H > Page 140		SR1 A08 SW21 COOLCAP®-Screw-On Cap for shrinking Ø 8 I > Page 140		SR1 A10 SW22 COOLCAP®-Screw-On Cap for shrinking Ø 10, J > Page 140		
	SR1 A12 SW27 COOLCAP®-Screw-On Cap for shrinking Ø 12 K > Page 140		SR1 A16 SW32 COOLCAP®-Screw-On Cap for shrinking Ø 16 L > Page 140		SR1 ZSW 001 COOLCAP®-applying tool M > Page 140		DMS 3/8 8-60 NM torque wrench 3/8" N > Page 140				

**Important:** the scope of delivery of each COOLCAP® cooling arbor includes one cap each. When ordering, please always state whether you want a cap for air/MMS or a cap for emulsion/cooling water. Additional caps can be ordered separately. Always tighten and loosen caps only with an application tool or a box wrench!



## HSK 100 FORM A

for Weldonshanks | CoolCap®

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 12,000 rpm
- ring shaped cooling jet for ideal cooling performance and chip flushing

for Weldonshanks |  
CoolCap®

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

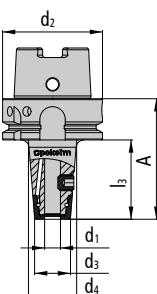
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



### for diam. 10

100 10 A100 SR1 W	diam. 10	100	129	22.5	30.4	HSK 100	form A	-	-	A, D, E, F, I, L, M	
-------------------	-------------	-----	-----	------	------	------------	--------	---	---	------------------------	--

### for diam. 12

100 12 A100 SR1 W	diam. 12	100	129	26.5	36	HSK 100	form A	-	-	B, D, E, G, J, L, M	
-------------------	-------------	-----	-----	------	----	------------	--------	---	---	------------------------	--

### for diam. 16

100 16 A100 SR1 W	diam. 16	100	129	31.5	41	HSK 100	form A	-	-	C, D, E, H, K, L, M	
-------------------	-------------	-----	-----	------	----	------------	--------	---	---	------------------------	--

### Accessories



M10X10  
screw for reduction  
sleeve  
A > Page 137



M12X10  
screw  
B > Page 137



M14X12  
screw  
C > Page 137



KMR-100A  
coolant supply tube for  
HSK-tooling  
D > Page 139



SCHLUESSELHSK100  
spanner for coolant  
tube  
E > Page 139



SR1 S10 SW22  
COOLCAP®-Screw-On  
Cap for shrinking Ø 10  
F > Page 139



SR1 S12 SW27  
COOLCAP®-Screw-On  
Cap for shrinking Ø 12  
G > Page 139



SR1 S16 SW32  
COOLCAP®-Screw-On  
Cap for shrinking Ø 16  
H > Page 139



SR1 A10 SW22  
COOLCAP®-Screw-On  
Cap for shrinking Ø 10  
I > Page 140



SR1 A12 SW27  
COOLCAP®-Screw-On  
Cap for shrinking Ø 12  
J > Page 140



SR1 A16 SW32  
COOLCAP®-Screw-On  
Cap for shrinking Ø 16  
K > Page 140



SR1 ZSW 001  
COOLCAP®-applying  
tool  
L > Page 140



DMS 3/8 8-60 NM  
torque wrench 3/8"  
M > Page 140

**Important:** the scope of delivery of each COOLCAP® cooling arbor includes one cap each. When ordering, please always state whether you want a cap for air/MMS or a cap for emulsion/cooling water. Additional caps can be ordered separately. Always tighten and loosen caps only with an application tool or a box wrench!

# HSK 100 FORM A

for shell-type milling



- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 12,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

1 / 2 ▶

for shell-type milling

Catalogue no.

d<sub>1</sub>

I<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

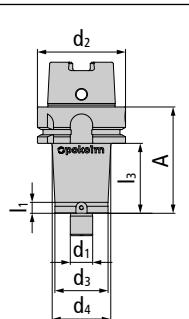
Form/DIN

I<sub>2</sub>

I<sub>1</sub>

Accessories

Features



bore diam. 22

50 22 A100	diam. 22	50	79	40	40	HSK 100	form A	-	-	A, C, G, J, K	
75 22 A100	diam. 22	75	104	48	48	HSK 100	form A	-	-	A, C, G, J, K	
100 22 A100	diam. 22	100	129	48	50	HSK 100	form A	-	7.8	A, C, G, J, K	
150 22 A100	diam. 22	150	179	48	50	HSK 100	form A	-	7.8	A, C, G, J, K	
200 22 A100	diam. 22	200	229	48	50	HSK 100	form A	-	7.8	A, C, G, J, K	

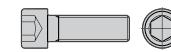
bore diam. 27

50 27 A100	diam. 27	50	79	62	62	HSK 100	form A	-	-	B, D, H, J, K	
75 27 A100	diam. 27	75	104	62	62	HSK 100	form A	-	-	B, D, H, J, K	
100 27 A100	diam. 27	100	129	62	71	HSK 100	form A	-	7.8	B, D, H, J, K	
150 27 A100	diam. 27	150	179	62	80	HSK 100	form A	-	7.8	B, D, H, J, K	
200 27 A100	diam. 27	200	229	62	80	HSK 100	form A	-	7.8	B, D, H, J, K	

Accessories



M4X10  
screw for drive block  
10 x 8  
A > Page 137



M5X16  
screw for drive blocks  
12 x 12 and 14 x 14  
B > Page 137



M10X35  
screw M10X35 DIN  
912 | 10.9  
C > Page 138



M12X35  
screw M12X35 | 10.9  
D > Page 138



M16X26  
screw M16X26 DIN  
6367  
E > Page 138



M20X30  
screw M20X30 DIN  
6367  
F > Page 138



NUTEN10X8  
drive block 10 x 8  
G > Page 138



NUTEN12X12/2  
drive block 12 x 12  
H > Page 138



NUTEN14X14  
drive block 14 x 14  
I > Page 138



KMR-100A  
coolant supply tube  
for HSK-tooling  
J > Page 139

SCHLUESSELHSK100  
spanner for coolant tube  
K > Page 139



## HSK 100 FORM A

for shell-type milling

- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 12,000 rpm
- with internal coolant supply and bore hole for the coolant supply tube

◀ 2/2

for shell-type milling

Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
<b>bore diam. 32</b>											
50 32 A100	diam. 32	50	79	85	85	HSK 100	form A	-	-	B, E, I, J, K	G 6.3 12,000
100 32 A100	diam. 32	100	129	85	85	HSK 100	form A	-	-	B, E, I, J, K	G 6.3 12,000
150 32 A100	diam. 32	150	179	85	85	HSK 100	form A	-	-	B, E, I, J, K	G 6.3 12,000
<b>bore diam. 40</b>											
50 40 A100	diam. 40	50	79	100	88	HSK 100	form A	-	-	B, F, I, J, K	G 6.3 12,000
<b>Accessories</b>											
	M4X10 screw for drive block 10 x 8 A > Page 137		M5X16 screw for drive blocks 12 x 12 and 14 x 14 B > Page 137		M10X35 screw M10X35 DIN 912   10.9 C > Page 138		M12X35 screw M12X35   10.9 D > Page 138		M16X26 screw M16X26 DIN 6367 E > Page 138		
	M20X30 screw M20X30 DIN 6367 F > Page 138		NUTEN10X8 drive block 10 x 8 G > Page 138		NUTEN12X12/2 drive block 12 x 12 H > Page 138		NUTEN14X14 drive block 14 x 14 I > Page 138		KMR-100A coolant supply tube for HSK-tooling J > Page 139		
	SCHLUESSELHSK100 spanner for coolant tube K > Page 139										

# HSK 100 FORM A

## Drill chuck



- Hollow taper shank arbor CNC precision drill chuck according to DIN69893 form E, maximum precision
  - approved for up to max. 7,000 rpm
  - We can supply higher balance quality according to the balance classes upon request
  - with internal coolant supply and bore hole for the coolant supply tube
  - independent of rotating direction
  - extremely short and slim design
- Scope of delivery includes small and large seal ring

Drill chuck	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
<b>diam. 0.5 - 13 mm</b>												
BF 0,5-13 A100 IC	diam. 13	89	118	-	50	HSK 100	form A	-	-	A, B, C, D, E, H		
<b>diam. 2.5 - 16 mm</b>												
BF 2,5-16 A100 IC	diam. 16	83	112	-	57	HSK 100	form A	-	-	A, B, C, F, G, H		
<b>Accessories</b>												
 INBUS 6T INBUS 6T A > Page 138	 KMR-100A coolant supply tube for HSK-tooling B > Page 139	 SCHLUESELHSK100 spanner for coolant tube C > Page 139	 BF13DS06 seal gasket 08DS08 D > Page 140	 BF13DS13 seal gasket 13DS13 E > Page 140								
 BF16DS06 seal gasket 16DS06 F > Page 140	 BF16DS16 seal gasket 16DS16 G > Page 140	 BF13MW hexagon key 13MW H > Page 140										



# STEEP TAPER SHANKS SK / BT

## STEEP TAPER SHANKS SK / BT

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## SK 30 DIN 69871 AD

for screw-on end mills

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 2.5 gmm at 30,000 rpm

for screw-on end mills

Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
M8	25 08 730	M 8	25	44.1	13.8	15	SK 30 DIN 69871 AD	-	12	A, B	HSM G 2.5 30,000
M10	25 10 730	M 10	25	44.1	18	23	SK 30 DIN 69871 AD	-	12	A, B	HSM G 2.5 30,000
M12	25 12 730	M 12	25	44.1	21	24	SK 30 DIN 69871 AD	-	12	A, B	HSM G 2.5 30,000
M16	25 16 730	M 16	25	44.1	29	29	SK 30 DIN 69871 AD	-	-	A, B	HSM G 2.5 30,000
Accessories											
		KBSK30-69872A retention knob with through hole A > Page 139		KBSK30-69872B retention knob without through hole B > Page 139							

# SK 30 DIN 69871 AD

for shrinking



- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 2.5 gmm at 30,000 rpm

for shrinking

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

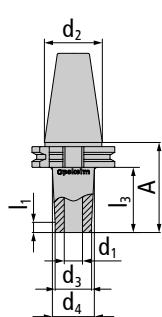
Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories

Features



for diam. 3

50 03 730 S.01	diam. 3	50	69.1	9	15.7	SK 30	DIN 69871 AD	-	7.8	A, B	
----------------	------------	----	------	---	------	-------	-----------------	---	-----	------	--

for diam. 4

50 04 730 S.01	diam. 4	50	69.1	10.5	14.9	SK 30	DIN 69871 AD	-	7.8	A, B	
----------------	------------	----	------	------	------	-------	-----------------	---	-----	------	--

for diam. 6

50 06 730 S	diam. 6	50	69.1	12	16.4	SK 30	DIN 69871 AD	-	7.8	A, B	
-------------	------------	----	------	----	------	-------	-----------------	---	-----	------	--

for diam. 8

50 08 730 S	diam. 8	50	69.1	16	20.4	SK 30	DIN 69871 AD	-	7.8	A, B	
-------------	------------	----	------	----	------	-------	-----------------	---	-----	------	--

for diam. 10

50 10 730 S	diam. 10	50	69.1	20	24.4	SK 30	DIN 69871 AD	-	7.8	A, B	
-------------	-------------	----	------	----	------	-------	-----------------	---	-----	------	--

for diam. 12

50 12 730 S	diam. 12	50	69.1	24	28.4	SK 30	DIN 69871 AD	-	7.8	A, B	
-------------	-------------	----	------	----	------	-------	-----------------	---	-----	------	--

for diam. 16

50 16 730 S	diam. 16	50	69.1	32	36.4	SK 30	DIN 69871 AD	-	7.8	A, B	
-------------	-------------	----	------	----	------	-------	-----------------	---	-----	------	--

Accessories



KBSK30-69872A  
retention knob with  
through hole  
A > Page 139



KBSK30-69872B  
retention knob without  
through hole  
B > Page 139



## SK 30 DIN 69871 AD

for shrinking | zero reach arbors

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 2.5 gmm at 30,000 1/min

Please note: Zero reach adapters cannot be ordered separately. We only supply in a shrink-grip connection with a solid carbide or dense antivibration adapters. (starting on page ...)

for shrinking | zero reach arbors

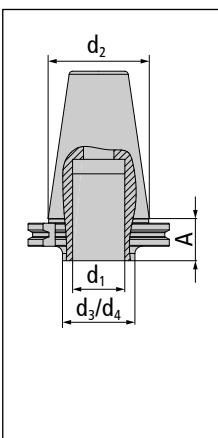
Catalogue no.

$d_1$     $l_3$    A    $d_3$     $d_4$     $d_2$

Form/DIN

$l_2$

Accessories   Features



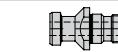
for diam. 16

15 16 730 S	diam. 16	15	34.1	32	32	SK 30	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> HSM <b>G 2.5</b> <small>30,000</small>
-------------	-------------	----	------	----	----	-------	-----------------	---	---	------	---

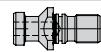
for diam. 20

15 20 730 S	diam. 20	15	34.1	40	40	SK 30	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> HSM <b>G 2.5</b> <small>30,000</small>
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Accessories



KBSK30-69872A  
retention knob with  
through hole  
A > Page 139



KBSK30-69872B  
retention knob without  
through hole  
B > Page 139

# SK 30 DIN 69871 AD

## HSC precision collet chucks ER20



- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 2.5 gmm at 30,000 rpm

HSC precision collet chucks ER20

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

$d_2$

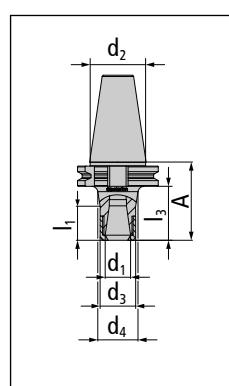
Form/DIN

$l_2$

$l_1$

Accessories

Features



for ER 20

50 ER20 730	ER 20	50	69.1	28	32	SK 30	DIN 69871 AD	-	19.3	A, B, C, D	<input checked="" type="checkbox"/> <small>G 2.5 30,000</small>
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Accessories

POKOLM 20 501 spanner for ER 20 collet chuck tightening nut A > Page 138	ER20 001 tightening nut ER 20 B > Page 138	KBSK30-69872A retention knob with through hole C > Page 139	KBSK30-69872B retention knob without through hole D > Page 139	



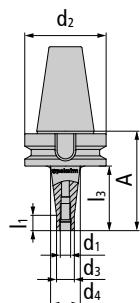
## BT 30 JIS B 6339 AD

for screw-on end mills

- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 2.5 gmm at 30,000 rpm

for screw-on end mills

Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
<b>M8</b>	25 08 734	M 8	25	47	13.8	15	BT 30	JIS B 6339 AD	-	12	
<b>M10</b>	25 10 734	M 10	25	47	18	23	BT 30	JIS B 6339 AD	-	12	
<b>M12</b>	25 12 734	M 12	25	47	21	24	BT 30	JIS B 6339 AD	-	12	
<b>M16</b>	25 16 734	M 16	25	47	29	29	BT 30	JIS B 6339 AD	-	12	



# BT 30 JIS B 6339 AD

for shrinking



- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 2.5 gmm at 30,000 rpm

for shrinking

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

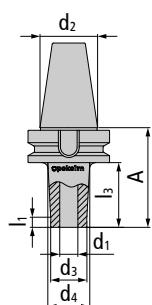
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



for diam. 3

50 03 734 S.01	diam. 3	50	72	9	15.6	BT 30	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 2.5</b> <small>[30,000]</small>
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for diam. 4

50 04 734 S.01	diam. 4	50	72	10.5	14.9	BT 30	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 2.5</b> <small>[30,000]</small>
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for diam. 6

50 06 734 S	diam. 6	50	72	12	16	BT 30	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 2.5</b> <small>[30,000]</small>
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for diam. 8

50 08 734 S	diam. 8	50	72	16	21	BT 30	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 2.5</b> <small>[30,000]</small>
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for diam. 10

50 10 734 S	diam. 10	50	72	20	24.4	BT 30	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 2.5</b> <small>[30,000]</small>
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for diam. 12

50 12 734 S	diam. 12	50	72	24	29	BT 30	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 2.5</b> <small>[30,000]</small>
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for diam. 16

50 16 734 S	diam. 16	50	72	32	36.4	BT 30	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 2.5</b> <small>[30,000]</small>
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## BT 30 JIS B 6339 AD

for shrinking | zero reach arbors

- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 2.5 gmm at 30,000 1/min

Please note: Zero reach adapters cannot be ordered separately. We only supply in a shrink-grip connection with a solid carbide or dense antivibration adapters. (starting on page 19)

for shrinking   zero reach arbors	Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
	<b>for diam. 16</b>	10 16 734 S	diam. 16	10	32	32	32	BT 30	JIS B 6339 AD	-	-	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM <b>G 2.5</b> <small>30,000</small>
	<b>for diam. 20</b>	15 20 734 S	diam. 20	15	37	40	40	BT 30	JIS B 6339 AD	-	-	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM <b>G 2.5</b> <small>30,000</small>

# BT 30 JIS B 6339 AD

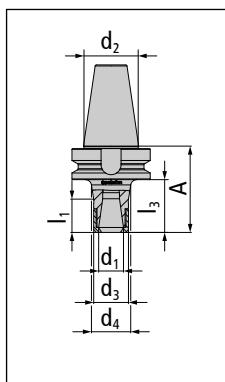
## HSC precision collet chucks ER20



- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 2.5 gmm at 30,000 rpm

HSC precision collet chucks ER20

Catalogue no.



for ER 20

50 ER20 734	ER 20	50	72	28	32	BT 30	JIS B 6339 AD	-	19.3	A, B	<input checked="" type="checkbox"/> HSM G 2.5 30,000
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Accessories

POKOLM 20 501 spanner for ER 20 collet chuck tightening nut A > Page 138	ER20 001 tightening nut ER 20 B > Page 138			



# SK 40 DIN 69 871 AD

## for screw-on end mills

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

1/2 ▶

for screw-on end mills

Catalogue no.

d<sub>1</sub>l<sub>3</sub>

A

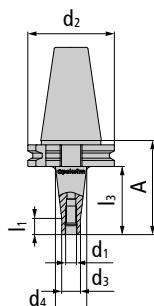
d<sub>3</sub>d<sub>4</sub>d<sub>2</sub>

Form/DIN

l<sub>2</sub>l<sub>1</sub>

Accessories

Features

**M8**

25 08 750	M 8	25	44.1	13.8	15	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
50 08 750	M 8	50	69.1	13.8	23	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
75 08 750	M 8	75	94.1	13.8	25	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
100 08 750	M 8	100	119.1	13.8	30	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000

**M10**

25 10 750	M 10	25	44.1	18	23	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
50 10 750	M 10	50	69.1	18	25	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
75 10 750	M 10	75	94.1	18	30	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
100 10 750	M 10	100	119.1	18	35	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
125 10 750	M 10	125	144.1	18	40	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
150 10 750	M 10	150	169.1	18	45	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000

**M12**

25 12 750	M 12	25	44.1	21	24	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
50 12 750	M 12	50	69.1	21	30	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
75 12 750	M 12	75	94.1	21	35	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
100 12 750	M 12	100	119.1	21	38	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
125 12 750	M 12	125	144.1	21	44	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000
150 12 750	M 12	150	169.1	21	48	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> G 6.3 18.000

NEW latest items!

⚠ available as long as stock lasts

? on request

✓ stock item, subject to confirmation

for screw-on end mills

Catalogue no.

 $d_1$  $l_3$ 

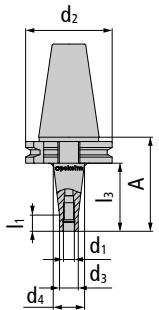
A

 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ 

Accessories Features



## M16

25 16 750	M 16	25	44.1	29	29	SK 40	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> HSM G 6,3 18.000
50 16 750	M 16	50	69.1	29	34	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6,3 18.000
75 16 750	M 16	75	94.1	29	35	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6,3 18.000
100 16 750	M 16	100	119.1	29	40	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6,3 18.000
125 16 750	M 16	125	144.1	29	44	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6,3 18.000
150 16 750	M 16	150	169.1	29	48	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6,3 18.000
200 16 750	M 16	200	219.1	29	48	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6,3 18.000
250 16 750	M 16	250	269.1	29	48	SK 40	DIN 69871 AD	-	12	A, B	<input checked="" type="checkbox"/> HSM G 6,3 18.000

## Accessories



KBSK40-69872A  
retention knob with  
through hole  
A > Page 139



KBSK40-69872B  
retention knob without  
through hole  
B > Page 139



## SK 40 DIN 69 871 AD

for screw-on end mills | cylindrical

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

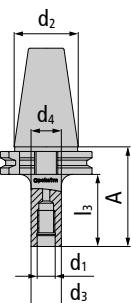
for screw-on end mills | cylindrical

Catalogue no.

$d_1$     $l_3$    A    $d_3$     $d_4$     $d_2$

Form/DIN  
I<sub>2</sub>   I<sub>1</sub>

Accessories  
Features



### M8

50 08 750 ZYL	M 8	50	69.1	13.8	13.8	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000
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### M10

50 10 750 ZYL	M 10	50	69.1	18	18	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000
75 10 750 ZYL	M 10	75	94.1	18	18	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000
100 10 750 ZYL	M 10	100	119.1	18	18	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000

### M12

50 12 750 ZYL	M 12	50	69.1	21	21	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000
75 12 750 ZYL	M 12	75	94.1	21	21	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000
100 12 750 ZYL	M 12	100	119.1	21	21	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000

### M16

50 16 750 ZYL	M 16	50	69.1	29	29	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000
75 16 750 ZYL	M 16	75	94.1	29	29	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000
100 16 750 ZYL	M 16	100	119.1	29	29	SK 40	DIN 69871 AD	-	-	A, B	HSM G 6.3 18.000

### Accessories

	KBSK40-69872A retention knob with through hole A > Page 139		KBSK40-69872B retention knob without through hole B > Page 139			
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# SK 40 DIN 69 871 AD

for shrinking

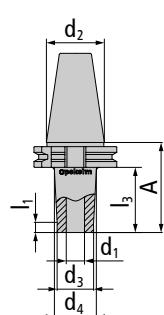


- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

1 / 2 ▶

for shrinking

Catalogue no.



## for diam. 3

50 03 750 S.01	diam. 3	50	69.1	9	15.6	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 03 750 S.01	diam. 3	100	119.1	9	23.5	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000

## for diam. 4

50 04 750 S.01	diam. 4	50	69.1	10.5	14.9	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
75 04 750 S.01	diam. 4	75	94.1	10.5	17.54	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 04 750 S.01	diam. 4	100	119.1	10.5	20.16	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000

## for diam. 6

50 06 750 S	diam. 6	50	69.1	12	16.4	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
75 06 750 S	diam. 6	75	94.1	12	19	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 06 750 S	diam. 6	100	119.1	12	21.7	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
150 06 750 S	diam. 6	150	169.1	12	27	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000

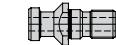
## for diam. 8

50 08 750 S	diam. 8	50	69.1	16	20.4	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
75 08 750 S	diam. 8	75	94.1	16	23	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 08 750 S	diam. 8	100	119.1	16	25.7	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000

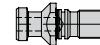
## for diam. 10

50 10 750 S	diam. 10	50	69.1	20	24.4	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
75 10 750 S	diam. 10	75	94.1	20	27	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 10 750 S	diam. 10	100	119.1	20	29.7	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000

## Accessories



KBSK40-69872A  
retention knob with  
through hole  
A > Page 139



KBSK40-69872B  
retention knob without  
through hole  
B > Page 139



# SK 40 DIN 69 871 AD

for shrinking

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

◀ 2/2

for shrinking

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

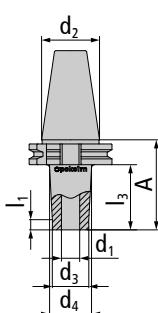
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



for diam. 12

50 12 750 S	diam. 12	50	69.1	24	28.4	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
75 12 750 S	diam. 12	75	94.1	24	31	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 12 750 S	diam. 12	100	119.1	24	33.6	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000

for diam. 16

50 16 750 S	diam. 16	50	69.1	32	36.4	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
75 16 750 S	diam. 16	75	94.1	32	39	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 16 750 S	diam. 16	100	119.1	32	41.7	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000

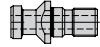
for diam. 20

50 20 750 S	diam. 20	50	69.1	40	44.4	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
75 20 750 S	diam. 20	75	94.1	40	47	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 20 750 S	diam. 20	100	119.1	40	49	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000

for diam. 25

60 25 750 S	diam. 25	60	79.1	45	45	SK 40	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18.000
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Accessories



KBSK40-69872A  
retention knob with  
through hole  
A > Page 139



KBSK40-69872B  
retention knob without  
through hole  
B > Page 139

# SK 40 DIN 69 871 AD

for shrinking | reinforced design



- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

for shrinking | reinforced design

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

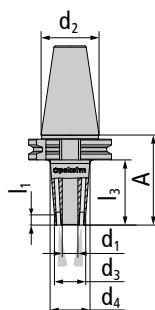
d<sub>2</sub>

Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories  
Features



#### for diam. 6

50 06 750 SB	diam. 6	50	69.1	21	27.6	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18,000
100 06 750 SB	diam. 6	100	119.1	21	35.5	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18,000

#### for diam. 8

50 08 750 SB	diam. 8	50	69.1	21	27.6	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18,000
100 08 750 SB	diam. 8	100	119.1	21	35.5	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18,000

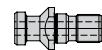
#### for diam. 10

50 10 750 SB	diam. 10	50	69.1	24	30.6	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18,000
100 10 750 SB	diam. 10	100	119.1	24	38.5	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18,000

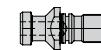
#### for diam. 12

50 12 750 SB	diam. 12	50	69.1	24	30.6	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18,000
100 12 750 SB	diam. 12	100	119.1	24	38.5	SK 40	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 6.3 18,000

#### Accessories



KBSK40-69872A  
retention knob with  
through hole  
A > Page 139



KBSK40-69872B  
retention knob without  
through hole  
B > Page 139



## SK 40 DIN 69 871 AD

for shrinking | zero reach arbors

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 1/min

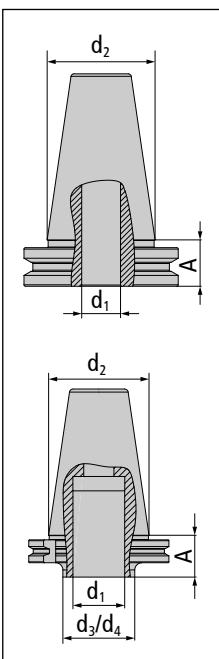
Please note: Zero reach adapters cannot be ordered separately. We only supply in a shrink-grip connection with a solid carbide or dense antivibration adapters. (starting on page 19)

for shrinking | zero reach arbors

Catalogue no.

$d_1$   $l_3$  A  $d_3$   $d_4$   $d_2$  Form/DIN  $l_2$   $l_1$

Accessories Features



for diam. 16

00 16 750 S	diam. 16	0	19.1	-	-	SK 40	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM <b>G 6.3</b> 18,000
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for diam. 20

00 20 750 S	diam. 20	0	19.1	-	-	SK 40	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM <b>G 6.3</b> 18,000
-------------	----------	---	------	---	---	-------	--------------	---	---	------	---

for diam. 25

00 25 750 S	diam. 25	10	29.1	44	44	SK 40	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM <b>G 6.3</b> 18,000
-------------	----------	----	------	----	----	-------	--------------	---	---	------	---

Accessories

KBSK40-69872A  
retention knob with  
through hole  
A > Page 139



KBSK40-69872B  
retention knob without  
through hole  
B > Page 139

# SK 40 DIN 69 871 AD

for shrinking | CoolCap®



- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm
- ring shaped cooling jet for ideal cooling performance and chip flushing

1 / 2 ▶

for shrinking |  
CoolCap®

Catalogue no.

d<sub>1</sub>

I<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

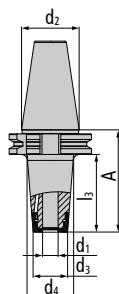
Form/DIN

I<sub>2</sub>

I<sub>1</sub>

Accessories

Features



## for diam. 6

50 06 750 SR1	diam. 6	50	69.1	16.5	24.4	SK 40	DIN 69871 AD	-	-	A, B, G, L, M	<input checked="" type="checkbox"/> G 6.3 18,000
100 06 750 SR1	diam. 6	100	119.1	16.5	32.3	SK 40	DIN 69871 AD	-	-	A, B, G, L, M	<input checked="" type="checkbox"/> G 6.3 18,000

## for diam. 8

50 08 750 SR1	diam. 8	50	69.1	20.5	28.4	SK 40	DIN 69871 AD	-	-	A, C, H, L, M	<input checked="" type="checkbox"/> G 6.3 18,000
100 08 750 SR1	diam. 8	100	119.1	20.5	36.3	SK 40	DIN 69871 AD	-	-	A, C, H, L, M	<input checked="" type="checkbox"/> G 6.3 18,000

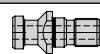
## for diam. 10

50 10 750 SR1	diam. 10	50	69.1	22.5	30.4	SK 40	DIN 69871 AD	-	-	A, D, I, L, M	<input checked="" type="checkbox"/> G 6.3 18,000
100 10 750 SR1	diam. 10	100	119.1	22.5	38.3	SK 40	DIN 69871 AD	-	-	A, D, I, L, M	<input checked="" type="checkbox"/> G 6.3 18,000

## for diam. 12

60 12 750 SR1	diam. 12	60	79.1	26.5	36	SK 40	DIN 69871 AD	-	-	A, E, J, L, M	<input checked="" type="checkbox"/> G 6.3 18,000
100 12 750 SR1	diam. 12	100	119.1	26.5	42.3	SK 40	DIN 69871 AD	-	-	A, E, J, L, M	<input checked="" type="checkbox"/> G 6.3 18,000

## Accessories



KBSK40-69872A  
retention knob with  
through hole  
A > Page 139



SR1 S06 SW17  
COOLCAP®-Screw-On  
Cap for shrinking Ø 6  
B > Page 139



SR1 S08 SW21  
COOLCAP®-Screw-On  
Cap for shrinking Ø 8  
C > Page 139



SR1 S10 SW22  
COOLCAP®-Screw-On  
Cap for shrinking Ø 10  
D > Page 139



SR1 S12 SW27  
COOLCAP®-Screw-  
On Cap for shrinking  
Ø 12, > Page 139



SR1 S16 SW32  
COOLCAP®-Screw-On  
Cap for shrinking Ø 16  
F > Page 139



SR1 A06 SW17  
COOLCAP®-Screw-On  
Cap for shrinking Ø 6  
G > Page 140



SR1 A08 SW21  
COOLCAP®-Screw-On  
Cap for shrinking Ø 8  
H > Page 140



SR1 A10 SW22  
COOLCAP®-Screw-On  
Cap for shrinking Ø 10  
I > Page 140



SR1 A12 SW27  
COOLCAP®-Screw-  
On Cap for shrinking  
Ø 12, J > Page 140



SR1 A16 SW32  
COOLCAP®-Screw-On  
Cap for shrinking Ø 16  
K > Page 140



SR1 ZSW 001  
COOLCAP®-applying  
tool  
L > Page 140



DMS 3/8 8-60 NM  
torque wrench 3/8"  
M > Page 140

**Important:** the scope of delivery of each COOLCAP® cooling arbor includes one cap each. When ordering, please always state whether you want a cap for air/MMS or a cap for emulsion/cooling water. Additional caps can be ordered separately. Always tighten and loosen caps only with an application tool or a box wrench!



## SK 40 DIN 69 871 AD

for shrinking | CoolCap®

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm
- ring shaped cooling jet for ideal cooling performance and chip flushing

◀ 2/2

for shrinking |  
CoolCap®

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

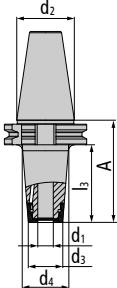
d<sub>2</sub>

Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories  
Features



for diam. 16

60 16 750 SR1	diam. 16	60	79.1	31.5	41	SK 40	DIN 69871 AD	-	-	A, F, K, L, M	<input checked="" type="checkbox"/> HSM G 6.3 18,000
100 16 750 SR1	diam. 16	100	119.1	31.5	47.3	SK 40	DIN 69871 AD	-	-	A, F, K, L, M	<input checked="" type="checkbox"/> HSM G 6.3 18,000

Accessories

KBSK40-69872A retention knob with through hole A > Page 139	SR1 S06 SW17 COOLCAP®-Screw-On Cap for shrinking Ø 6 B > Page 139	SR1 S08 SW21 COOLCAP®-Screw-On Cap for shrinking Ø 8 C > Page 139	SR1 S10 SW22 COOLCAP®-Screw-On Cap for shrinking Ø 10 D > Page 139	SR1 S12 SW27 COOLCAP®-Screw- On Cap for shrinking Ø 12, E > Page 139
SR1 S16 SW32 COOLCAP®-Screw-On Cap for shrinking Ø 16 F > Page 139	SR1 A06 SW17 COOLCAP®-Screw-On Cap for shrinking Ø 6 G > Page 140	SR1 A08 SW21 COOLCAP®-Screw-On Cap for shrinking Ø 8 H > Page 140	SR1 A10 SW22 COOLCAP®-Screw-On Cap for shrinking Ø 10 I > Page 140	SR1 A12 SW27 COOLCAP®-Screw- On Cap for shrinking Ø 12, J > Page 140
SR1 A16 SW32 COOLCAP®-Screw-On Cap for shrinking Ø 16 K > Page 140	SR1 ZSW 001 COOLCAP®-applying tool L > Page 140	DMS 3/8 8-60 NM torque wrench 3/8" M > Page 140		

Important: the scope of delivery of each COOLCAP® cooling arbor includes one cap each. When ordering, please always state whether you want a cap for air/MMS or a cap for emulsion/cooling water. Additional caps can be ordered separately. Always tighten and loosen caps only with an application tool or a box wrench!

# SK 40 DIN 69 871 AD

for Weldonshanks | CoolCap®



- Hollow taper shank arbors according to DIN69893 form A, maximum precision
- fine balanced to G 6.3 gmm at 18,000 rpm
- ring shaped cooling jet for ideal cooling performance and chip flushing

for Weldonshanks |  
CoolCap®

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

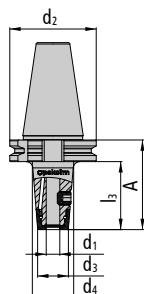
Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories

Features



for diam. 10

50 10 750 SR1 W	diam. 10	50	69.1	22.5	30.4	SK 40	DIN 69871 AD	-	-	A, D, E, H, K, L	
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for diam. 12

60 12 750 SR1 W	diam. 12	60	79.1	26.5	36	SK 40	DIN 69871 AD	-	-	B, D, F, I, K, L	
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for diam. 16

60 16 750 SR1 W	diam. 16	60	79.1	31.5	41	SK 40	DIN 69871 AD	-	-	C, D, G, J, K, L	
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Accessories



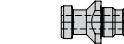
M10X10  
screw for reduction  
sleeve  
A > Page 137



M12X10  
screw  
B > Page 137



M14X12  
screw  
C > Page 137



KBSK40-69872A  
retention knob with  
through hole  
D > Page 139



SR1 S10 SW22  
COOLCAP®-Screw-  
On Cap for shrinking  
Ø 10, E > Page 139



SR1 S12 SW27  
COOLCAP®-Screw-On  
Cap for shrinking Ø 12  
F > Page 139



SR1 S16 SW32  
COOLCAP®-Screw-On  
Cap for shrinking Ø 16  
G > Page 139



SR1 A10 SW22  
COOLCAP®-Screw-On  
Cap for shrinking Ø 10  
H > Page 140



SR1 A12 SW27  
COOLCAP®-Screw-On  
Cap for shrinking Ø 12  
I > Page 140



SR1 A16 SW32  
COOLCAP®-Screw-  
On Cap for shrinking  
Ø 16, J > Page 140



SR1 ZSW 001  
COOLCAP®-applying  
tool  
K > Page 140



DMS 3/8 8-60 NM  
torque wrench 3/8"  
L > Page 140

**Important:** the scope of delivery of each COOLCAP® cooling arbor includes one cap each. When ordering, please always state whether you want a cap for air/MMS or a cap for emulsion/cooling water. Additional caps can be ordered separately. Always tighten and loosen caps only with an application tool or a box wrench!



# SK 40 DIN 69 871 AD

for shell-type milling

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

1/2 ▶

for shell-type milling

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

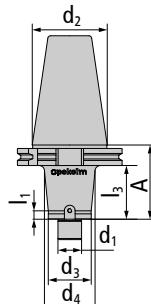
d<sub>2</sub>

Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories  
Features



## bore diam. 16

		diam.	25	44.1	38	40	SK 40	DIN 69871 AD	-	7.8	C, D, G, J, K	G 6.3 18.000
25 16 750 Z	diam.	16	25	44.1	38	40	SK 40	DIN 69871 AD	-	7.8	C, D, G, J, K	G 6.3 18.000
50 16 750 Z	diam.	16	50	69.1	38	42	SK 40	DIN 69871 AD	-	7.8	C, D, G, J, K	G 6.3 18.000
75 16 750 Z	diam.	16	75	94.1	38	45	SK 40	DIN 69871 AD	-	7.8	C, D, G, J, K	G 6.3 18.000
100 16 750 Z	diam.	16	100	119.1	38	48	SK 40	DIN 69871 AD	-	7.8	C, D, G, J, K	G 6.3 18.000
125 16 750 Z	diam.	16	125	144.1	38	50	SK 40	DIN 69871 AD	-	7.8	C, D, G, J, K	G 6.3 18.000
150 16 750 Z	diam.	16	150	169.1	38	50	SK 40	DIN 69871 AD	-	7.8	C, D, G, J, K	G 6.3 18.000
200 16 750 Z	diam.	16	200	219.1	38	50	SK 40	DIN 69871 AD	-	7.8	C, D, G, J, K	G 6.3 18.000

## bore diam. 22

		diam.	25	44.1	40	40	SK 40	DIN 69871 AD	-	-	B, E, H, J, K	G 6.3 18.000
25 22 750	diam.	22	25	44.1	40	40	SK 40	DIN 69871 AD	-	-	B, E, H, J, K	G 6.3 18.000
50 22 750	diam.	22	50	69.1	40	48	SK 40	DIN 69871 AD	-	7.8	B, E, H, J, K	G 6.3 18.000
75 22 750	diam.	22	75	94.1	48	48	SK 40	DIN 69871 AD	-	-	B, E, H, J, K	G 6.3 18.000
100 22 750	diam.	22	100	119.1	48	48	SK 40	DIN 69871 AD	-	-	B, E, H, J, K	G 6.3 18.000
150 22 750	diam.	22	150	169.1	48	48	SK 40	DIN 69871 AD	-	-	B, E, H, J, K	G 6.3 18.000
200 22 750	diam.	22	200	219.1	48	48	SK 40	DIN 69871 AD	-	-	B, E, H, J, K	G 6.3 18.000

latest items!

available as long as stock lasts

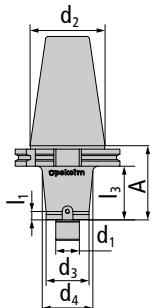
on request

stock item, subject to confirmation

## for shell-type milling

Catalogue no.

The diagram illustrates the relationship between Form DIN dimensions and accessories. It shows a series of parallel diagonal lines representing Form DIN dimensions:  $d_1$ ,  $I_3$ , A,  $d_3$ ,  $d_4$ ,  $d_2$ , Form/DIN,  $I_2$ ,  $I_1$ . The Form DIN accessories ( $I_1$ ,  $I_2$ ,  $I_3$ ) are shown as overlapping regions on the right side of the diagram.



bore diam. 27

15 27 750	diam. 27	15	34.1	48	48	SK 40	DIN 69871 AD	-	-	A, F, I, J, K	HSM G 6,3 18,000
50 27 750	diam. 27	50	69.1	48	48	SK 40	DIN 69871 AD	-	-	A, F, I, J, K	HSM G 6,3 18,000
75 27 750	diam. 27	75	94.1	48	48	SK 40	DIN 69871 AD	-	-	A, F, I, J, K	HSM G 6,3 18,000
100 27 750	diam. 27	100	119.1	48	48	SK 40	DIN 69871 AD	-	-	A, F, I, J, K	HSM G 6,3 18,000

## Accessories

 M5X12 screw for drive block 12 x 8 A > Page 137	 M4X10 screw for drive block 10 x 8 B > Page 137	 M3X10 screws for drive block 8 x 8 C > Page 137	 M8X30 screw DIN 912   10.9 D > Page 138	 M10X35 screw M10X35 DIN 912   10.9 E > Page 138
 M12X35 screw M12X35   10.9 F > Page 138	 NUTEN8X8 drive block 8 x 8 G > Page 138	 NUTEN10X8 drive block 10 x 8 H > Page 138	 NUTEN12X8 drive block 12 x 8 I > Page 138	 KBSK40-69872A retention knob with through hole J > Page 139
 KBSK40-69872B retention knob without through hole K > Page 139				



# SK 40 DIN 69 871 AD

## Drill chuck

- Steep taper shanks DIN 69871 AD, maximum precision
  - approved for up to max. 7,000 rpm
  - We can supply higher balance quality according to the balance classes on request
  - with internal coolant supply and bore hole for the coolant supply tube
  - independent of rotating direction
  - extremely short and slim design
- Scope of delivery includes small and large seal ring**

Drill chuck

Catalogue no.

d<sub>1</sub>l<sub>3</sub>

A

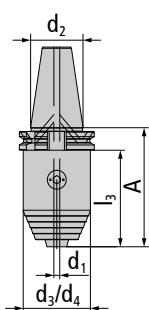
d<sub>3</sub>d<sub>4</sub>d<sub>2</sub>

Form/DIN

l<sub>2</sub>l<sub>1</sub>

Accessories

Features



## diam. 0.3 - 8 mm

BF 0,3-8 750 IC	diam. 8	57	76.1	-	36	SK 40	DIN 69871 AD	-	-	A, C, D, E, F, K	<input checked="" type="checkbox"/>
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## diam. 0.5 - 13 mm

BF 0,5-13 750 IC	diam. 13	97	116.1	-	50	SK 40	DIN 69871 AD	-	-	B, C, D, G, H, L	<input checked="" type="checkbox"/>
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## diam. 2.5 - 16 mm

BF 2,5-16 750 IC	diam. 16	82	101.1	-	57	SK 40	DIN 69871 AD	-	-	B, C, D, I, J, L	<input checked="" type="checkbox"/>
------------------	----------	----	-------	---	----	-------	--------------	---	---	------------------	-------------------------------------

## Accessories

INBUS 4T INBUS 4T A > Page 138	INBUS 6T INBUS 6T B > Page 138	KBSK40-69872A retention knob with through hole C > Page 139	KBSK40-69872B retention knob without through hole D > Page 139	BF08DS04 seal gasket 08DS04 E > Page 140
BF08DS08 seal gasket 08DS08 F > Page 140	BF13DS06 seal gasket 08DS08 G > Page 140	BF13DS13 seal gasket 13DS13 H > Page 140	BF16DS06 seal gasket 16DS06 I > Page 140	BF16DS16 seal gasket 16DS16 J > Page 140
BF08MW hexagon key 08MW K > Page 140	BF13MW hexagon key 13MW L > Page 140			

# SK 40 DIN 69 871 AD

## HSC precision collet chucks ER20



- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

HSC precision collet chucks ER20

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

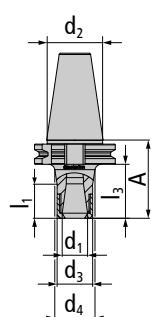
d<sub>2</sub>

Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories  
Features



for ER 20

50 ER20 750	ER 20	50	69.1	28	36	SK 40	DIN 69871 AD	-	33.8	A, B, C, D	<input checked="" type="checkbox"/> HSM G 6.3 (18.000)
100 ER20 750	ER 20	100	119.1	28	40	SK 40	DIN 69871 AD	-	33.8	A, B, C, D	<input checked="" type="checkbox"/> HSM G 6.3 (18.000)

Accessories

20 501 spanner for ER 20 collet chuck tightening nut A > Page 138	ER20 001 tightening nut ER 20 B > Page 138	KBSK40-69872A retention knob with through hole C > Page 139	KBSK40-69872B retention knob without through hole D > Page 139	
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## SK 40 DIN 69 871 AD

for rotary transmission leadthrough

- Steep taper rotary transmission leadthrough DIN 69871 AD
- approved for up to max. 6,000 rpm
- suitable for oiled compressed air and minimum quantity lubrication
- independent of rotating direction

for rotary transmission leadthrough

Catalogue no.

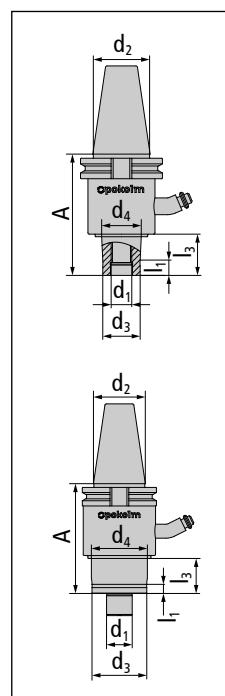
d<sub>1</sub> I<sub>3</sub> A d<sub>3</sub> d<sub>4</sub> d<sub>2</sub>

Form/DIN

I<sub>2</sub>

I<sub>1</sub>

Accessories Features



for threaded shank milling

30 12 750 DDLS	M 12	30	49.1	21	25	SK 40	DIN 69871 AD	-	8	A, B	
30 16 750 DDLS	M 16	30	49.1	29	32	SK 40	DIN 69871 AD	-	8	A, B	

for shell-type milling

30 22 750 DDLS	diam. 22	30	49.1	48	50	SK 40	DIN 69871 AD	-	-	A, B	
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Accessories

KBSK40-69872A retention knob with through hole A > Page 139	KBSK40-69872B retention knob without through hole B > Page 139			

# BT 40 JIS B 6339 AD

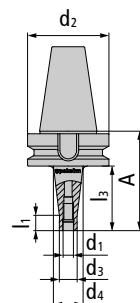
for screw-on end mills



- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

for screw-on end mills

Catalogue no.



## M8

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 08 754	M 8	25	52	13.8	15	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
50 08 754	M 8	50	77	13.8	23	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
75 08 754	M 8	75	102	13.8	25	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
100 08 754	M 8	100	127	13.8	30	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)

## M10

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 10 754	M 10	25	52	18	23	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
50 10 754	M 10	50	77	18	25	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
75 10 754	M 10	75	102	18	30	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
100 10 754	M 10	100	127	18	35	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)

## M12

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 12 754	M 12	25	52	21	24	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
50 12 754	M 12	50	77	21	30	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
75 12 754	M 12	75	102	21	35	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
100 12 754	M 12	100	127	21	38	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)

## M16

	Catalogue no.	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
25 16 754	M 16	25	52	29	29	BT 40	JIS B 6339 AD	-	-		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
50 16 754	M 16	50	77	29	34	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
75 16 754	M 16	75	102	29	35	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
100 16 754	M 16	100	127	29	40	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)
150 16 754	M 16	150	177	29	48	BT 40	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/>	HSM G 6.3 (18,000)



## BT 40 JIS B 6339 AD

for screw-on end mills | cylindrical

- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

for screw-on end mills | cylindrical

Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
							JIS B 6339 AD				
<b>M8</b>											G 6.3 18,000
50 08 754 ZYL	M 8	50	77	13.8	13.8	BT 40	JIS B 6339 AD	-	-		
<b>M10</b>											G 6.3 18,000
50 10 754 ZYL	M 10	50	77	18	18	BT 40	JIS B 6339 AD	-	-		
75 10 754 ZYL	M 10	75	102	18	18	BT 40	JIS B 6339 AD	-	-		
100 10 754 ZYL	M 10	100	127	18	18	BT 40	JIS B 6339 AD	-	-		
<b>M12</b>											G 6.3 18,000
50 12 754 ZYL	M 12	50	77	21	21	BT 40	JIS B 6339 AD	-	-		
75 12 754 ZYL	M 12	75	102	21	21	BT 40	JIS B 6339 AD	-	-		
100 12 754 ZYL	M 12	100	127	21	21	BT 40	JIS B 6339 AD	-	-		
<b>M16</b>											G 6.3 18,000
50 16 754 ZYL	M 16	50	77	29	29	BT 40	JIS B 6339 AD	-	-		
75 16 754 ZYL	M 16	75	102	29	29	BT 40	JIS B 6339 AD	-	-		
100 16 754 ZYL	M 16	100	127	29	29	BT 40	JIS B 6339 AD	-	-		

# BT 40 JIS B 6339 AD

for shrinking



- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

1/2 ▶

for shrinking

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

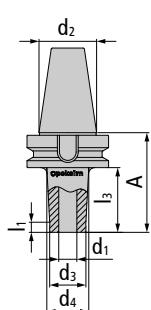
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



## for diam. 3

50 03 754 S.01	diam. 3	50	77	9	15.6	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 03 754 S.01	diam. 3	100	127	9	23.5	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000

## for diam. 4

50 04 754 S.01	diam. 4	50	77	10.5	14.9	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 04 754 S.01	diam. 4	100	127	10.5	20.2	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000

## for diam. 6

50 06 754 S	diam. 6	50	77	12	16	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 06 754 S	diam. 6	100	127	12	21.7	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000

## for diam. 8

50 08 754 S	diam. 8	50	77	16	21	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 08 754 S	diam. 8	100	127	16	25.7	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000

## for diam. 10

50 10 754 S	diam. 10	50	77	20	24.4	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 10 754 S	diam. 10	100	127	20	29.7	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000

## for diam. 12

50 12 754 S	diam. 12	50	77	24	29	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 12 754 S	diam. 12	100	127	24	33.7	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000

## for diam. 16

50 16 754 S	diam. 16	50	77	32	36.4	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000
100 16 754 S	diam. 16	100	127	32	41.7	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000

## for diam. 20

50 20 754 S	diam. 20	50	77	40	44.4	BT 40	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> HSM G 6.3 18.000
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## BT 40 JIS B 6339 AD

for shrinking

- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

◀ 2/2

for shrinking

Catalogue no.

 $d_1$  $l_3$ 

A

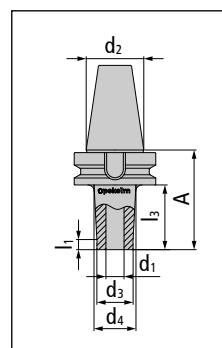
 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ 

Accessories

Features



for diam. 25

60 25 754 S	diam. 25	60	87	46	46	BT 40	JIS B 6339 AD	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HSM	G 6.3 (18,000)
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# BT 40 JIS B 6339 AD

for shrinking | zero reach arbors



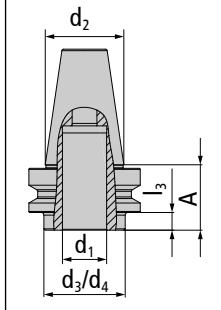
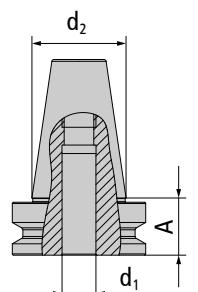
- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

Please note: Zero reach adapters cannot be ordered separately. We only supply in a shrink-grip connection with a solid carbide or dense antivibration adapters. (starting on page 19)

for shrinking | zero  
reach arbors

Catalogue no.

	d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	Form/DIN	l <sub>2</sub>	l <sub>1</sub>	Accessories	Features
<b>for diam. 16</b>							BT 40   JIS B 6339 AD			<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	G 6.3 HSM 18,000
00 16 754 S	diam. 16	0	27	-	-	BT 40   JIS B 6339 AD				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	G 6.3 HSM 18,000
<b>for diam. 20</b>							BT 40   JIS B 6339 AD			<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	G 6.3 HSM 18,000
00 20 754 S	diam. 20	0	27	-	-	BT 40   JIS B 6339 AD				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	G 6.3 HSM 18,000
<b>for diam. 25</b>							BT 40   JIS B 6339 AD			<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	G 6.3 HSM 18,000
00 25 754 S	diam. 25	10	37	46	46	BT 40   JIS B 6339 AD				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	G 6.3 HSM 18,000





## BT 40 JIS B 6339 AD

for shell-type milling

- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

1/2 ▶

for shell-type milling											
Catalogue no.											
	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
	<b>bore diam. 16</b>										
	25 16 754 Z	diam. 16	25	52	38	40	BT 40	JIS B 6339 AD	-	7.8	C, D, G
	50 16 754 Z	diam. 16	50	77	38	42	BT 40	JIS B 6339 AD	-	7.8	C, D, G
	75 16 754 Z	diam. 16	75	102	38	45	BT 40	JIS B 6339 AD	-	7.8	C, D, G
	100 16 754 Z	diam. 16	100	127	38	48	BT 40	JIS B 6339 AD	-	7.8	C, D, G
	150 16 754 Z	diam. 16	150	177	38	50	BT 40	JIS B 6339 AD	-	7.8	C, D, G
	<b>bore diam. 22</b>										
	25 22 754	diam. 22	25	52	40	40	BT 40	JIS B 6339 AD	-	7.8	B, E, H
	50 22 754	diam. 22	50	77	40	40	BT 40	JIS B 6339 AD	-	7.8	B, E, H
	75 22 754	diam. 22	75	102	48	48	BT 40	JIS B 6339 AD	-	7.8	B, E, H
	100 22 754	diam. 22	100	127	48	48	BT 40	JIS B 6339 AD	-	7.8	B, E, H
	150 22 754	diam. 22	150	177	48	48	BT 40	JIS B 6339 AD	-	7.8	B, E, H
	200 22 754	diam. 22	200	227	48	48	BT 40	JIS B 6339 AD	-	7.8	B, E, H

latest items!

available as long as stock lasts

on request

stock item, subject to confirmation

for shell-type milling

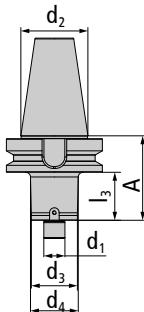
Catalogue no.

 $d_1$  $l_3$ 

A

 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ Accessories  
Features

## bore diam. 27

15 27 754	diam. 27	15	42	48	48	BT 40	JIS B 6339 AD	-	-	A, F, I	<input checked="" type="checkbox"/> HSM G 6,3 18.000
50 27 754	diam. 27	50	77	48	48	BT 40	JIS B 6339 AD	-	-	A, F, I	<input checked="" type="checkbox"/> HSM G 6,3 18.000
75 27 754	diam. 27	75	102	48	48	BT 40	JIS B 6339 AD	-	-	A, F, I	<input checked="" type="checkbox"/> HSM G 6,3 18.000
100 27 754	diam. 27	100	127	48	48	BT 40	JIS B 6339 AD	-	-	A, F, I	<input checked="" type="checkbox"/> HSM G 6,3 18.000
150 27 754	diam. 27	150	177	48	48	BT 40	JIS B 6339 AD	-	-	A, F, I	<input checked="" type="checkbox"/> HSM G 6,3 18.000

## Accessories

M5X12 screw for drive block 12 x 8 A > Page 137	M4X10 screw for drive block 10 x 8 B > Page 137	M3X10 screws for drive block 8 x 8 C > Page 137	M8X30 screw DIN 912   10.9 D > Page 138	M10X35 screw M10X35 DIN 912   10.9 E > Page 138
M12X35 screw M12X35   10.9 F > Page 138	NUTEN8X8 drive block 8 x 8 G > Page 138	NUTEN10X8 drive block 10 x 8 H > Page 138	NUTEN12X8 drive block 12 x 8 I > Page 138	

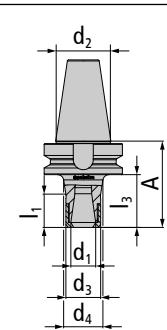


## BT 40 JIS B 6339 AD

### HSC precision collet chucks ER20

- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 6.3 gmm at 18,000 rpm

HSC precision collet chucks ER20	Catalogue no.	Form/DIN						Accessories		Features	
		d <sub>1</sub>	l <sub>3</sub>	A	d <sub>3</sub>	d <sub>4</sub>	d <sub>2</sub>	l <sub>2</sub>	l <sub>1</sub>		
<b>for ER 20</b>											
	50 ER20 754	ER 20	50	77	28	32	BT 40	JIS B 6339 AD	-	33.8	A, B
	100 ER20 754	ER 20	100	127	28	40	BT 40	JIS B 6339 AD	-	33.8	A, B
<b>Accessories</b>											
	POKOLM 20 501 spanner for ER 20 collet chuck tightening nut A > Page 138	ER20 001 tightening nut ER 20 B > Page 138									



# BT 40 JIS B 6339 AD

for rotary transmission leadthrough



- Steep taper rotary transmission leadthrough JIS B 6339
- approved for up to max. 6,000 rpm
- suitable for oiled compressed air and minimum quantity lubrication
- independent of rotating direction

for rotary transmission  
leadthrough

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

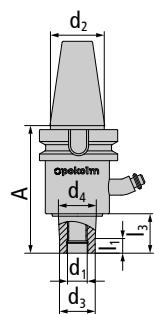
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features

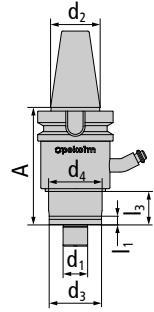


for threaded shank milling

30 12 754 DDLS	M 12	30	57	21	25	BT 40	JIS B 6339 AD	-	8		HSM
30 16 754 DDLS	M 16	30	57	29	30	BT 40	JIS B 6339 AD	-	8		HSM

for shell-type milling

30 22 754 DDLS	diam. 22	30	57	48	50	BT 40	JIS B 6339 AD	-	-		HSM
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# SK 50 DIN 69 871 AD

## for screw-on end mills

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

for screw-on end mills

Catalogue no.

 $d_1$  $l_3$ 

A

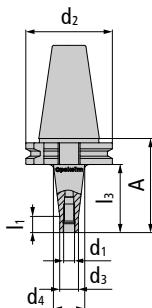
 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ 

Accessories

Features



## M10

50 10 710	M 10	50	69.1	18	25	SK 50	DIN 69871 AD	-	12	A, B	
75 10 710	M 10	75	94.1	18	30	SK 50	DIN 69871 AD	-	12	A, B	
100 10 710	M 10	100	119.1	18	35	SK 50	DIN 69871 AD	-	12	A, B	
150 10 710	M 10	150	169.1	18	45	SK 50	DIN 69871 AD	-	12	A, B	

## M12

50 12 710	M 12	50	69.1	21	30	SK 50	DIN 69871 AD	-	12	A, B	
100 12 710	M 12	100	119.1	21	38	SK 50	DIN 69871 AD	-	12	A, B	
150 12 710	M 12	150	169.1	21	52	SK 50	DIN 69871 AD	-	12	A, B	
200 12 710	M 12	200	219.1	21	68	SK 50	DIN 69871 AD	-	12	A, B	
250 12 710	M 12	250	269.1	21	63	SK 50	DIN 69871 AD	-	12	A, B	
300 12 710	M 12	300	319.1	21	68	SK 50	DIN 69871 AD	-	12	A, B	

## M16

50 16 710	M 16	50	69.1	29	34	SK 50	DIN 69871 AD	-	12	A, B	
100 16 710	M 16	100	119.1	29	40	SK 50	DIN 69871 AD	-	12	A, B	
150 16 710	M 16	150	169.1	29	48	SK 50	DIN 69871 AD	-	12	A, B	
200 16 710	M 16	200	219.1	29	50	SK 50	DIN 69871 AD	-	12	A, B	
250 16 710	M 16	250	269.1	29	62	SK 50	DIN 69871 AD	-	12	A, B	
300 16 710	M 16	300	319.1	29	68	SK 50	DIN 69871 AD	-	12	A, B	

## Accessories

	KBSK50-69872A retention knob with through hole A > Page 139		KBSK50-69872B retention knob without through hole B > Page 139			
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# SK 50 DIN 69 871 AD

for shrinking



- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

1 / 2 ▶

for shrinking

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

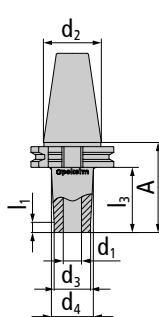
Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories

Features



for diam. 6

50 06 710 S	diam. 6	50	69.1	12	17	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
100 06 710 S	diam. 6	100	119.1	12	21.7	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
150 06 710 S	diam. 6	150	169.1	12	27	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
200 06 710 S	diam. 6	200	219.1	12	32	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000

for diam. 8

50 08 710 S	diam. 8	50	69.1	16	21	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
100 08 710 S	diam. 8	100	119.1	16	26	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
150 08 710 S	diam. 8	150	169.1	16	30.9	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
200 08 710 S	diam. 8	200	219.1	16	36	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000

for diam. 10

50 10 710 S	diam. 10	50	69.1	20	25	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
100 10 710 S	diam. 10	100	119.1	20	30	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
150 10 710 S	diam. 10	150	169.1	20	35	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
200 10 710 S	diam. 10	200	219.1	20	40	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000

for diam. 12

50 12 710 S	diam. 12	50	69.1	24	28.4	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
100 12 710 S	diam. 12	100	119.1	24	33.7	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
150 12 710 S	diam. 12	150	169.1	24	39	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000
200 12 710 S	diam. 12	200	219.1	24	44	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> G 16 8.000

Accessories

	KBSK50-69872A retention knob with through hole A > Page 139		KBSK50-69872B retention knob without through hole B > Page 139			
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# SK 50 DIN 69 871 AD

for shrinking

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

◀ 2/2

for shrinking

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

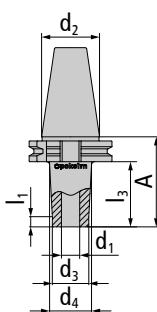
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



## for diam. 16

50 16 710 S	diam. 16	50	69.1	32	36.4	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 16 8.000
100 16 710 S	diam. 16	100	119.1	32	41.7	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 16 8.000
150 16 710 S	diam. 16	150	169.1	32	46.9	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 16 8.000
200 16 710 S	diam. 16	200	219.1	32	52	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 16 8.000

## for diam. 20

50 20 710 S	diam. 20	50	69.1	40	44.4	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 16 8.000
100 20 710 S	diam. 20	100	119.1	40	50	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 16 8.000
150 20 710 S	diam. 20	150	169.1	40	55	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 16 8.000

## for diam. 25

60 25 710 S	diam. 25	60	79.1	46	46	SK 50	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> HSM G 16 8.000
100 25 710 S	diam. 25	100	119.1	46	56	SK 50	DIN 69871 AD	-	7.8	A, B	<input checked="" type="checkbox"/> HSM G 16 8.000

## for diam. 32

60 32 710 S	diam. 32	60	79.1	44	53	SK 50	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> G 16 8.000
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## Accessories



KBSK50-69872A  
retention knob with  
through hole  
A > Page 139



KBSK50-69872B  
retention knob without  
through hole  
B > Page 139

# SK 50 DIN 69 871 AD

for shrinking | zero reach arbors



- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 16 gmm at 8,000 1/min

Please note: Zero reach adapters cannot be ordered separately. We only supply in a shrink-grip connection with a solid carbide or dense antivibration adapters. (starting on page 19)

for shrinking | zero  
reach arbors

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

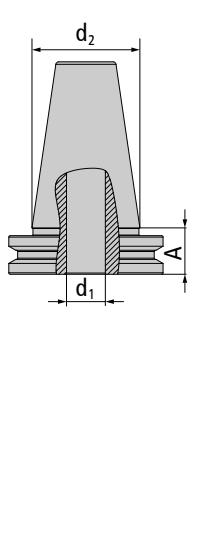
Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories

Features



for diam. 20

00 20 710 S	diam. 20	0	19.1	-	-	SK 50	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM <b>G 16</b> 8,000
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for diam. 25

00 25 710 S	diam. 25	0	19.1	-	-	SK 50	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM <b>G 16</b> 8,000
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for diam. 32

00 32 710 S	diam. 32	0	19.1	0	0	SK 50	DIN 69871 AD	-	-	A, B	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> HSM <b>G 16</b> 8,000
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Accessories



KBSK50-69872A  
retention knob with  
through hole  
A > Page 139



KBSK50-69872B  
retention knob without  
through hole  
B > Page 139



# SK 50 DIN 69 871 AD

for shell-type milling

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

1/2 ▶

for shell-type milling

Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
<b>bore diam. 16</b>											
50 16 710 Z	diam. 16	50	69.1	38	42	SK 50	DIN 69871 AD	-	7.8	C, F, K, Q, R	<input checked="" type="checkbox"/> G 16 8.000
100 16 710 Z	diam. 16	100	119.1	38	50	SK 50	DIN 69871 AD	-	7.8	C, F, K, Q, R	<input checked="" type="checkbox"/> G 16 8.000
150 16 710 Z	diam. 16	150	169.1	38	50	SK 50	DIN 69871 AD	-	7.8	C, F, K, Q, R	<input checked="" type="checkbox"/> G 16 8.000
200 16 710 Z	diam. 16	200	219.1	38	50	SK 50	DIN 69871 AD	-	7.8	C, F, K, Q, R	<input checked="" type="checkbox"/> G 16 8.000
250 16 710 Z	diam. 16	250	269.1	38	50	SK 50	DIN 69871 AD	-	7.8	C, F, K, Q, R	<input checked="" type="checkbox"/> G 16 8.000
<b>bore diam. 22</b>											
50 22 710	diam. 22	50	69.1	40	40	SK 50	DIN 69871 AD	-	-	B, G, L, Q, R	<input checked="" type="checkbox"/> G 16 8.000
100 22 710.01	diam. 22	100	119.1	48	50	SK 50	DIN 69871 AD	-	7.8	B, G, L, Q, R	<input checked="" type="checkbox"/> G 16 8.000
150 22 710	diam. 22	150	169.1	48	62	SK 50	DIN 69871 AD	-	7.8	B, G, L, Q, R	<input checked="" type="checkbox"/> G 16 8.000
200 22 710	diam. 22	200	219.1	48	78	SK 50	DIN 69871 AD	-	7.8	B, G, L, Q, R	<input checked="" type="checkbox"/> G 16 8.000
250 22 710	diam. 22	250	269.1	48	78	SK 50	DIN 69871 AD	-	7.8	B, G, L, Q, R	<input checked="" type="checkbox"/> G 16 8.000
<b>bore diam. 27</b>											
50 27 710	diam. 27	50	69.1	62	62	SK 50	DIN 69871 AD	-	-	D, H, M, Q, R	<input checked="" type="checkbox"/> G 16 8.000
100 27 710	diam. 27	100	119.1	62	70	SK 50	DIN 69871 AD	-	7.8	D, H, M, Q, R	<input checked="" type="checkbox"/> G 16 8.000
150 27 710	diam. 27	150	169.1	62	76	SK 50	DIN 69871 AD	-	7.8	D, H, M, Q, R	<input checked="" type="checkbox"/> G 16 8.000
200 27 710	diam. 27	200	219.1	62	76	SK 50	DIN 69871 AD	-	7.8	D, H, M, Q, R	<input checked="" type="checkbox"/> G 16 8.000
250 27 710	diam. 27	250	269.1	62	76	SK 50	DIN 69871 AD	-	7.8	D, H, M, Q, R	<input type="checkbox"/> G 16 8.000
<b>bore diam. 32</b>											
50 32 710	diam. 32	50	69.1	95	78	SK 50	DIN 69871 AD	-	7.8	D, I, N, Q, R	<input checked="" type="checkbox"/> G 16 8.000
100 32 710	diam. 32	100	119.1	95	78	SK 50	DIN 69871 AD	-	7.8	D, I, N, Q, R	<input checked="" type="checkbox"/> G 16 8.000
150 32 710	diam. 32	150	169.1	95	78	SK 50	DIN 69871 AD	-	7.8	D, I, N, Q, R	<input checked="" type="checkbox"/> G 16 8.000
200 32 710	diam. 32	200	219.1	95	78	SK 50	DIN 69871 AD	-	7.8	D, I, N, Q, R	<input type="checkbox"/> G 16 8.000

latest items!

available as long as stock lasts

on request

stock item, subject to confirmation

for shell-type milling

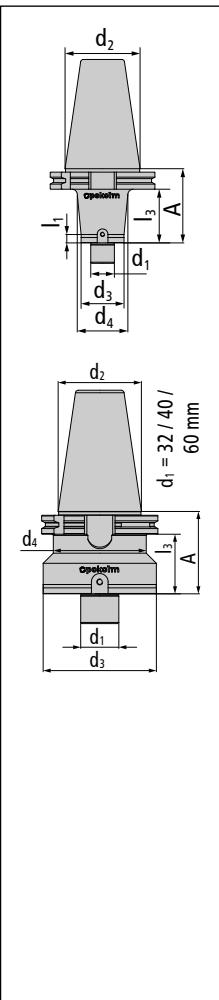
Catalogue no.

 $d_1$  $I_3$ 

A

 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $I_2$  $I_1$ Accessories  
Features

## bore diam. 40

50 40 710 Z	diam. 40	50	69.1	100	78	SK 50	DIN 69871 AD	-	-	A, J, O, Q, R	<input checked="" type="checkbox"/> G16 8.000
100 40 710 Z	diam. 40	100	119.1	100	78	SK 50	DIN 69871 AD	-	-	A, J, O, Q, R	<input checked="" type="checkbox"/> G16 8.000

## bore diam. 60

50 60 710 Z	diam. 60	50	69.1	129	78	SK 50	DIN 69871 AD	-	-	E, P, Q, R	<input checked="" type="checkbox"/> G16 8.000
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## Accessories

	M6X16 screw for drive block 16 x 16 A > Page 137		M4X10 screw for drive block 10 x 8 B > Page 137		M3X10 screws for drive block 8 x 8 C > Page 137		M5X16 screw for drive blocks 12 x 12 and 14 x 14 D > Page 137		M16X50 screws for MTS-reduction sleeve E > Page 137
	M8X30 screw DIN 912   10.9 F > Page 138		M10X35 screw M10X35 DIN 912   10.9 G > Page 138		M12X35 screw M12X35   10.9 H > Page 138		M16X26 screw M16X26 DIN 6367 I > Page 138		M20X30 screw M20X30 DIN 6367 J > Page 138
	NUTEN8X8 drive block 8 x 8 K > Page 138		NUTEN10X8 drive block 10 x 8 L > Page 138		NUTEN12X12/2 drive block 12 x 12 M > Page 138		NUTEN14X14 drive block 14 x 14 N > Page 138		NUTEN16X16 drive block 16 x 16 O > Page 138
	NUTEN25X26 drive block 25 x 26 P > Page 138		KBSK50-69872A retention knob with through hole Q > Page 139		KBSK50-69872B retention knob without through hole R > Page 139				



## SK 50 DIN 69 871 AD

### Drill chucks

- Steep taper shanks DIN 69871 AD, maximum precision
  - approved for up to max. 7,000 rpm
  - We can supply higher balance quality according to the balance classes on request
  - with internal coolant supply and bore hole for the coolant supply tube
  - independent of rotating direction
  - extremely short and slim design
- delivery extent includes small and large seal ring**

### Drill chucks

#### Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

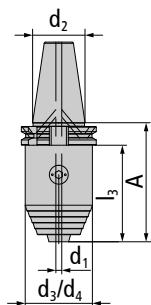
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



#### diam. 0.5 - 13 mm

BF 0,5-13 710 IC diam. 13 93 112.1 - 50 SK 50 DIN 69871 AD - - A, B, C, D, E, H



#### diam. 2.5 - 16 mm

BF 2,5-16 710 IC diam. 16 98 117.1 - 57 SK 50 DIN 69871 AD - - A, B, C, F, G, H



#### Accessories



INBUS 6T  
INBUS 6T  
A > Page 138



KBSK50-69872A  
retention knob with  
through hole  
B > Page 139



KBSK50-69872B  
retention knob without  
through hole  
C > Page 139



BF13DS06  
seal gasket 08DS08  
D > Page 140



BF13DS13  
seal gasket 13DS13  
E > Page 140



BF16DS06  
seal gasket 16DS06  
F > Page 140



BF16DS16  
seal gasket 16DS16  
G > Page 140



BF13MW  
hexagon key 13MW  
H > Page 140

# SK 50 DIN 69 871 AD

for morse taper shanks



- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

1/2 ➔

for morse taper shanks

Catalogue no.

d<sub>1</sub>

I<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

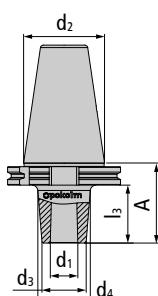
Form/DIN

I<sub>2</sub>

I<sub>1</sub>

Accessories

Features



## MTS 2

40 2 710	MTS 2	50	69.1	30	36	SK 50	DIN 69871 AD	-	-	A, H, I, L, M, N	<input checked="" type="checkbox"/> G 16 8,000
90 2 710	MTS 2	90	109.1	30	46	SK 50	DIN 69871 AD	-	-	B, H, I, L, M, N	<input checked="" type="checkbox"/> G 16 8,000

## MTS 3

50 3 710	MTS 3	50	69.1	38	46	SK 50	DIN 69871 AD	-	-	C, H, I, L, M, N	<input checked="" type="checkbox"/> G 16 8,000
100 3 710	MTS 3	100	119.1	38	56	SK 50	DIN 69871 AD	-	-	D, H, I, L, M, N	<input checked="" type="checkbox"/> G 16 8,000
150 3 710	MTS 3	150	169.1	38	62	SK 50	DIN 69871 AD	-	-	E, H, I, L, M, N	<input checked="" type="checkbox"/> G 16 8,000
200 3 710	MTS 3	200	219.1	38	70	SK 50	DIN 69871 AD	-	-	F, H, I, L, M, N	<input checked="" type="checkbox"/> G 16 8,000

## Accessories

M10X40 screws for MTS-reduction sleeve A > Page 137	M10X90 screws for MTS-reduction sleeve B > Page 137	M12X40 screws for MTS-reduction sleeve C > Page 137	M12X90 screws for MTS-reduction sleeve D > Page 137	M12X135 screws for MTS-reduction sleeve E > Page 137
M12X185 screws for MTS-reduction sleeve F > Page 137	M20X50 screws for MTS-reduction sleeve G > Page 137	GWST-M5X8-914 setscrew DIN551 with hole H > Page 137	1003 spanner for reduction sleeve I > Page 138	1004 spanner for reduction sleeve J > Page 138
1005 spanner for reduction sleeve K > Page 138	KBSK50-69872A retention knob with through hole L > Page 139	KBSK50-69872B retention knob without through hole M > Page 139	ZGHM2414 threaded bush, right hand thread N > Page 140	ZGHM2414L threaded bush, left hand thread O > Page 140
ZGHM3316L threaded bush, left hand thread P > Page 140				



# SK 50 DIN 69 871 AD

for morse taper shanks

- Steep taper shanks DIN 69871 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

◀ 2/2

for morse taper shanks

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

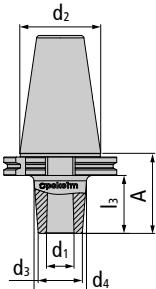
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



## MTS 4

80 4 710	MTS 4	80	99.1	44	56	SK 50	DIN 69871 AD	-	-	H, J, L, M, O	<input checked="" type="checkbox"/> G 16 0.000
130 4 710	MTS 4	130	149.1	44	70	SK 50	DIN 69871 AD	-	-	H, J, L, M, O	<input checked="" type="checkbox"/> G 16 0.000
180 4 710	MTS 4	180	199.1	44	70	SK 50	DIN 69871 AD	-	-	H, J, L, M, O	<input checked="" type="checkbox"/> G 16 0.000

## MTS 5

100 5 710	MTS 5	100	119.1	56	70	SK 50	DIN 69871 AD	-	-	G, H, K, L, M, P	<input checked="" type="checkbox"/> G 16 0.000
150 5 710	MTS 5	150	169.1	56	70	SK 50	DIN 69871 AD	-	-	G, H, K, L, M, P	<input checked="" type="checkbox"/> G 16 0.000
200 5 710	MTS 5	200	219.1	56	75	SK 50	DIN 69871 AD	-	-	G, H, K, L, M, P	<input checked="" type="checkbox"/> G 16 0.000

## Accessories

M10X40 screws for MTS-reduction sleeve A > Page 137	M10X90 screws for MTS-reduction sleeve B > Page 137	M12X40 screws for MTS-reduction sleeve C > Page 137	M12X90 screws for MTS-reduction sleeve D > Page 137	M12X135 screws for MTS-reduction sleeve E > Page 137
M12X185 screws for MTS-reduction sleeve F > Page 137	M20X50 screws for MTS-reduction sleeve G > Page 137	GWST-M5X8-914 setscrew DIN551 with hole H > Page 137	1003 spanner for reduction sleeve I > Page 138	1004 spanner for reduction sleeve J > Page 138
1005 spanner for reduction sleeve K > Page 138	KBSK50-69872A retention knob with through hole L > Page 139	KBSK50-69872B retention knob without through hole M > Page 139	ZGHM2414 threaded bush, right hand thread N > Page 140	ZGHM2414L threaded bush, left hand thread O > Page 140
ZGHM3316L threaded bush, left hand thread P > Page 140				

# SK 50 DIN 69 871 AD

for rotary transmission leadthrough



for rotary transmission  
leadthrough

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

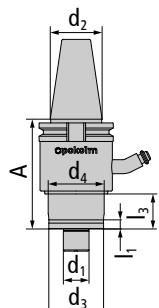
Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories

Features



for shell-type milling

50 27 710 DDLs	diam. 27	50	69.1	62	65	SK 50	DIN 69871 AD	-	-	A, B	<input type="checkbox"/> <input checked="" type="checkbox"/>
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Accessories



KBSK50-69872A  
retention knob with  
through hole  
A > Page 139



KBSK50-69872B  
retention knob without  
through hole  
B > Page 139



## BT 50 JIS B 6339 AD

for screw-on end mills

- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

for screw-on end mills

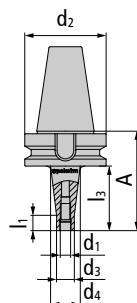
Catalogue no.

 $d_1$  $l_3$ 

A

 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ Accessories  
Features

## M12

50 12 714	M 12	50	88	21	30	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
100 12 714	M 12	100	138	21	38	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
150 12 714	M 12	150	188	21	52	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
200 12 714	M 12	200	238	21	58	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
250 12 714	M 12	250	288	21	63	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
300 12 714	M 12	300	338	21	68	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000

## M16

50 16 714	M 16	50	88	29	34	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
100 16 714	M 16	100	138	29	40	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
150 16 714	M 16	150	188	29	48	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
200 16 714	M 16	200	238	29	58	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
250 16 714	M 16	250	288	29	62	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000
300 16 714	M 16	300	338	29	68	BT 50	JIS B 6339 AD	-	12		<input checked="" type="checkbox"/> G 16 8.000

# BT 50 JIS B 6339 AD

for shrinking



- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

1/2 ▶

for shrinking

Catalogue no.

d<sub>1</sub>

l<sub>3</sub>

A

d<sub>3</sub>

d<sub>4</sub>

d<sub>2</sub>

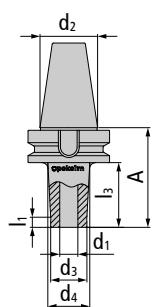
Form/DIN

l<sub>2</sub>

l<sub>1</sub>

Accessories

Features



for diam. 6

50 06 714 S	diam. 6	50	88	12	17	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
100 06 714 S	diam. 6	100	138	12	21.7	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
150 06 714 S	diam. 6	150	188	12	27	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
200 06 714 S	diam. 6	200	238	12	32	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>

for diam. 8

50 08 714 S	diam. 8	50	88	16	21	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
100 08 714 S	diam. 8	100	138	16	26	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
150 08 714 S	diam. 8	150	188	16	30.9	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
200 08 714 S	diam. 8	200	238	16	36	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>

for diam. 10

50 10 714 S	diam. 10	50	88	20	25	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
100 10 714 S	diam. 10	100	138	20	30	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
150 10 714 S	diam. 10	150	188	20	35	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
200 10 714 S	diam. 10	200	238	20	40	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>

for diam. 12

50 12 714 S	diam. 12	50	88	24	28.4	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
100 12 714 S	diam. 12	100	138	24	33.7	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
150 12 714 S	diam. 12	150	188	24	39	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>
200 12 714 S	diam. 12	200	238	24	44	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> <b>G 16 8.000</b>



## BT 50 JIS B 6339 AD

### for shrinking

- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

◀ 2/2

for shrinking

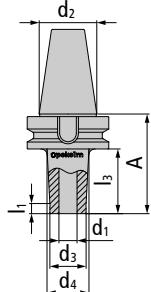
Catalogue no.

 $d_1$  $l_3$ 

A

 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ Accessories  
Features

## for diam. 16

50 16 714 S	diam. 16	50	88	32	36.4	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> G 16 8.000
100 16 714 S	diam. 16	100	138	32	41.7	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> G 16 8.000
150 16 714 S	diam. 16	150	188	32	46.9	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> G 16 8.000
200 16 714 S	diam. 16	200	238	32	52	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> G 16 8.000

## for diam. 20

50 20 714 S	diam. 20	50	88	40	44.4	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> G 16 8.000
100 20 714 S	diam. 20	100	138	40	50	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> G 16 8.000

## for diam. 25

60 25 714 S	diam. 25	60	98	46	46	BT 50	JIS B 6339 AD	-	-		<input checked="" type="checkbox"/> G 16 8.000
100 25 714 S	diam. 25	100	138	46	56	BT 50	JIS B 6339 AD	-	7.8		<input checked="" type="checkbox"/> G 16 8.000

## for diam. 32

60 32 714 S	diam. 32	60	98	44	53	BT 50	JIS B 6339 AD	-	-		<input checked="" type="checkbox"/> G 16 8.000
-------------	-------------	----	----	----	----	-------	------------------	---	---	--	---

# BT 50 JIS B 6339 AD

for shrinking | zero reach arbors



- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 16 gmm at 8,000 1/min

Please note: Zero reach adapters cannot be ordered separately. We only supply in a shrink-grip connection with a solid carbide or dense antivibration adapters. (starting on page 19)

for shrinking | zero  
reach arbors

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

$d_2$

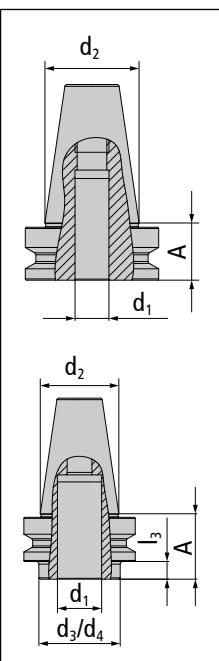
Form/DIN

$l_2$

$l_1$

Accessories

Features



for diam. 20

00 20 714 S	diam. 20	0	38	-	-	BT 50   JIS B 6339 AD	-	-		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	HSM	G 16 8,000
-------------	-------------	---	----	---	---	--------------------------	---	---	--	-------------------------------------	--------------------------	--------------------------	---	-----	---------------

for diam. 25

00 25 714 S	diam. 25	0	38	-	-	BT 50   JIS B 6339 AD	-	-		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	HSM	G 16 8,000
-------------	-------------	---	----	---	---	--------------------------	---	---	--	-------------------------------------	--------------------------	--------------------------	---	-----	---------------

for diam. 32

00 32 714 S	diam. 32	0	38	-	-	BT 50   JIS B 6339 AD	-	-		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	HSM	G 16 8,000
-------------	-------------	---	----	---	---	--------------------------	---	---	--	-------------------------------------	--------------------------	--------------------------	---	-----	---------------



## BT 50 JIS B 6339 AD

for shell-type milling

- Steep taper shanks form BT / JIS B 6339 AD, maximum precision
- balanced to G 16 gmm at 8,000 rpm

1/2 ▶

for shell-type milling

Catalogue no.

d<sub>1</sub>l<sub>3</sub>

A

d<sub>3</sub>d<sub>4</sub>d<sub>2</sub>

Form/DIN

l<sub>2</sub>l<sub>1</sub>

Accessories

Features

	bore diam. 16										
	50 16 714 Z	diam. 16	50	88	38	42	BT 50	JIS B 6339 AD	-	7.8	C, F, K
	100 16 714 Z	diam. 16	100	138	38	50	BT 50	JIS B 6339 AD	-	7.8	C, F, K

bore diam. 22											
50 22 714	diam. 22	50	88	40	40	BT 50	JIS B 6339 AD	-	7.8	B, G, L	
100 22 714	diam. 22	100	138	48	50	BT 50	JIS B 6339 AD	-	7.8	B, G, L	
150 22 714	diam. 22	150	188	48	62	BT 50	JIS B 6339 AD	-	7.8	B, G, L	
200 22 714	diam. 22	200	238	48	78	BT 50	JIS B 6339 AD	-	7.8	B, G, L	

bore diam. 27											
50 27 714	diam. 27	50	88	62	62	BT 50	JIS B 6339 AD	-	7.8	A, H, M	
100 27 714	diam. 27	100	138	62	70	BT 50	JIS B 6339 AD	-	7.8	A, H, M	
150 27 714	diam. 27	150	188	62	76	BT 50	JIS B 6339 AD	-	7.8	A, H, M	
200 27 714	diam. 27	200	238	62	76	BT 50	JIS B 6339 AD	-	7.8	A, H, M	

bore diam. 32											
50 32 714	diam. 32	50	88	95	78	BT 50	JIS B 6339 AD	-	7.8	D, I, N	
100 32 714	diam. 32	100	138	95	78	BT 50	JIS B 6339 AD	-	7.8	D, I, N	
150 32 714	diam. 32	150	188	95	78	BT 50	JIS B 6339 AD	-	7.8	D, I, N	
200 32 714	diam. 32	200	238	95	78	BT 50	JIS B 6339 AD	-	7.8	D, I, N	

bore diam. 40											
50 40 714 Z	diam. 40	50	88	100	78	BT 50	JIS B 6339 AD	-	-	J	

latest items!

available as long as stock lasts

on request

stock item, subject to confirmation

for shell-type milling

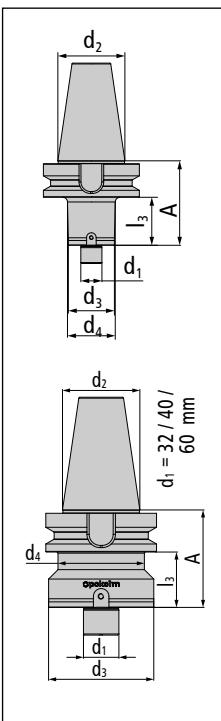
Catalogue no.

 $d_1$  $I_3$ 

A

 $d_3$  $d_4$  $d_2$ 

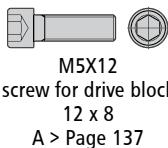
Form/DIN

 $I_2$  $I_1$ Accessories  
Features

## bore diam. 60

50 60 714 Z	diam. 60	50	88	129	78	BT 50	JIS B 6339 AD	-	-	E, O	<input checked="" type="checkbox"/> G16 8.000
-------------	-------------	----	----	-----	----	-------	------------------	---	---	------	--

## Accessories

M5X12  
screw for drive block  
12 x 8  
A > Page 137M4X10  
screw for drive block  
10 x 8  
B > Page 137M3X10  
screws for drive block  
8 x 8  
C > Page 137M5X16  
screw for drive blocks  
12 x 12 and 14 x 14  
D > Page 137M16X50  
screws for MTS-  
reduction sleeve  
E > Page 137M8X30  
screw DIN 912 | 10.9  
F > Page 138M10X35  
screw M10X35 DIN 912  
| 10.9  
G > Page 138M12X35  
screw M12X35 | 10.9  
H > Page 138M16X26  
screw M16X26 DIN  
6367  
I > Page 138M20X30  
screw M20X30 DIN  
6367  
J > Page 138NUTEN8X8  
drive block 8 x 8  
K > Page 138NUTEN10X8  
drive block 10 x 8  
L > Page 138NUTEN12X12/2  
drive block 12 x 12  
M > Page 138NUTEN14X14  
drive block 14 x 14  
N > Page 138NUTEN25X26  
drive block 25 x 26  
O > Page 138



## BT 50 JIS B 6339 AD

for rotary transmission leadthrough

- steep taper rotary transmission leadthrough JIS B 6339
- approved for up to max. 6,000 rpm
- suitable for oiled compressed air and minimum quantity lubrication
- independent of rotating direction

for rotary transmission  
leadthrough

Catalogue no.

$d_1$

$l_3$

A

$d_3$

$d_4$

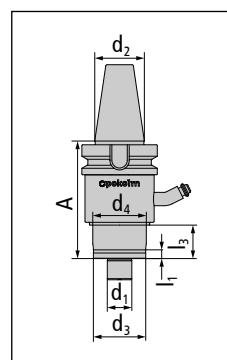
$d_2$

Form/DIN

$l_2$

$l_1$

Accessories  
Features



for shell-type milling

50 27 714 DDLS	diam. 27	50	88	62	65	BT 50	JIS B 6339 AD	-	-		<input type="checkbox"/>	
----------------	-------------	----	----	----	----	-------	------------------	---	---	--	--------------------------	--

latest items!

available as long as stock lasts

on request

stock item, subject to confirmation

# DIRECT SPINDLE MOUNTING

## DIRECT SPINDLE MOUNTING

	Page
SK 50	132
for shell-type milling centering arbor/ adapter	134



## SK 50

### for shell-type milling

- flange contact surfaces for direct mounting on the machine spindle
- anchor points made according to DIN 1830 for attaching to milling spindle heads according to DIN 2079
- highest degree of stability and rigidity with long projections or difficult machining tasks

1/2 ▶

for shell-type milling

Catalogue no.

d<sub>1</sub>l<sub>3</sub>

A

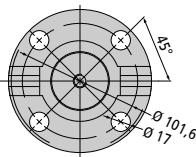
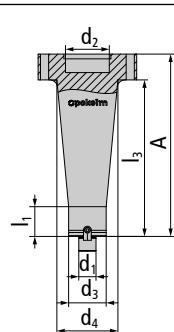
d<sub>3</sub>d<sub>4</sub>d<sub>2</sub>

Form/DIN

l<sub>2</sub>l<sub>1</sub>

Accessories

Features



## bore diam. -Ø 22

200 22 740	diam. 22	200	233	48	78	diam. 50	direct spindle mounting	-	38	B, D, H, L	<input checked="" type="checkbox"/>
250 22 740	diam. 22	250	283	48	82	diam. 50	direct spindle mounting	-	38	B, D, H, L	<input checked="" type="checkbox"/>
300 22 740	diam. 22	300	333	48	86	diam. 50	direct spindle mounting	-	38	B, D, H, L	<input checked="" type="checkbox"/>
350 22 740	diam. 22	350	383	48	90	diam. 50	direct spindle mounting	-	38	B, D, H, L	<input checked="" type="checkbox"/>
400 22 740	diam. 22	400	433	48	95	diam. 50	direct spindle mounting	-	38	B, D, H, L	<input checked="" type="checkbox"/>

## bore diam. -Ø 27

200 27 740	diam. 27	200	233	62	78	diam. 50	direct spindle mounting	-	38	C, E, I, L	<input type="checkbox"/>
250 27 740	diam. 27	250	283	62	82	diam. 50	direct spindle mounting	-	38	C, E, I, L	<input checked="" type="checkbox"/>
300 27 740	diam. 27	300	333	62	86	diam. 50	direct spindle mounting	-	38	C, E, I, L	<input checked="" type="checkbox"/>
350 27 740	diam. 27	350	383	62	90	diam. 50	direct spindle mounting	-	38	C, E, I, L	<input checked="" type="checkbox"/>
400 27 740	diam. 27	400	433	62	95	diam. 50	direct spindle mounting	-	38	C, E, I, L	<input checked="" type="checkbox"/>

## bore diam. -Ø 32

150 32 740	diam. 32	150	183	85	98	diam. 50	direct spindle mounting	-	38	C, F, J, L	<input type="checkbox"/>
200 32 740	diam. 32	200	233	85	98	diam. 50	direct spindle mounting	-	38	C, F, J, L	<input type="checkbox"/>
250 32 740	diam. 32	250	283	90	105	diam. 50	direct spindle mounting	-	38	C, F, J, L	<input checked="" type="checkbox"/>
300 32 740	diam. 32	300	333	90	110	diam. 50	direct spindle mounting	-	38	C, F, J, L	<input checked="" type="checkbox"/>
350 32 740	diam. 32	350	383	90	117	diam. 50	direct spindle mounting	-	38	C, F, J, L	<input checked="" type="checkbox"/>
400 32 740	diam. 32	400	433	90	124	diam. 50	direct spindle mounting	-	38	C, F, J, L	<input checked="" type="checkbox"/>

**NEW** latest items!

⚠ available as long as stock lasts

?

on request

✓

stock item, subject to confirmation

for shell-type milling

Catalogue no.

 $d_1$  $l_3$ 

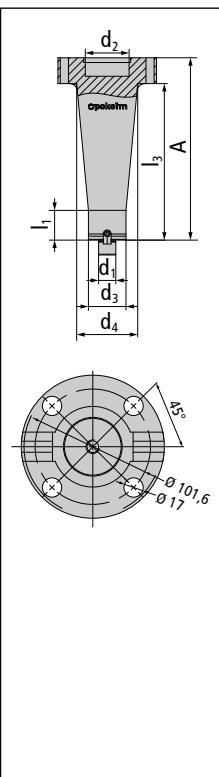
A

 $d_3$  $d_4$  $d_2$ 

Form/DIN

 $l_2$  $l_1$ 

Accessories Features



## bore diam. -Ø 40

100 40 740	diam. 40	100	133	100	124	diam. 50	direct spindle mounting	-	38	A, G, K, L	
150 40 740	diam. 40	150	183	100	124	diam. 50	direct spindle mounting	-	38	A, G, K, L	
200 40 740	diam. 40	200	233	100	124	diam. 50	direct spindle mounting	-	38	A, G, K, L	

## Accessories

M6X16 screw for drive block 16 x 16 A > Page 137	M4X10 screw for drive block 10 x 8 B > Page 137	M5X16 screw for drive blocks 12 x 12 and 14 x 14 C > Page 137	M10X35 screw M10X35 DIN 912   10.9 D > Page 138	M12X35 screw M12X35   10.9 E > Page 138
M16X26 screw M16X26 DIN 6367 F > Page 138	M20X30 screw M20X30 DIN 6367 G > Page 138	NUTEN10X8 drive block 10 x 8 H > Page 138	NUTEN12X12/2 drive block 12 x 12 I > Page 138	NUTEN14X14 drive block 14 x 14 J > Page 138
NUTEN16X16 drive block 16 x 16 K > Page 138	Z 00038 Tightening bolt for direct spindle mounting L > Page 140			



## SK 50

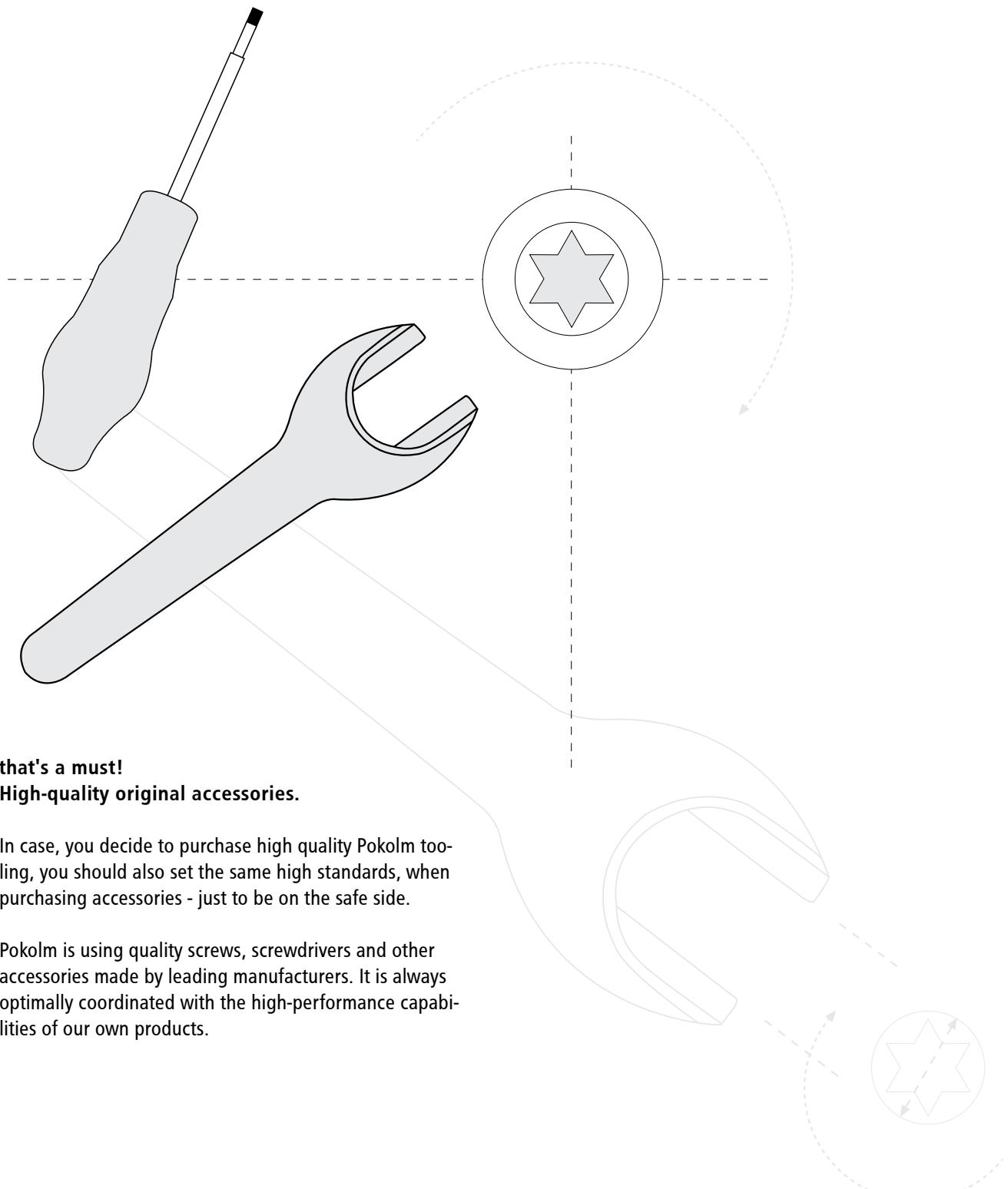
### centering arbor/ adapter

- flange contact surfaces for direct mounting on the machine spindle
- anchor points made according to DIN 1830 for attaching to milling spindle heads according to DIN 2079
- highest degree of stability and rigidity with long projections or difficult machining tasks

centering arbor/  
adapter

Catalogue no.	$d_1$	$l_3$	A	$d_3$	$d_4$	$d_2$	Form/DIN	$l_2$	$l_1$	Accessories	Features
<b>SK 50 DIN 2080</b>	50 742	diam. 50	-	-	-	-	SK 50 DIN 2080	-	-	I	<input checked="" type="checkbox"/>
<b>SK 50 DIN 69 871 AD</b>	50 743	diam. 50	-	-	-	-	SK 50 DIN 69871 AD	-	-	G, H, I	<input checked="" type="checkbox"/>
<b>HSK 100 form A</b>	40 740 A100	diam. 50	14.5	43.5	126	126	HSK 100	form A	-	A, B, C, D, E, F	<input checked="" type="checkbox"/> G 16 8.000
<b>Accessories</b>	M16X60 screw for reduction sleeve A > Page 137	GWST-M6X10-914 setscrew B > Page 137	M12X35 screw M12X35   10.9 C > Page 138	NUTEN25X26 drive block 25 x 26 D > Page 138	KMR-100A coolant supply tube for HSK-tooling E > Page 139						
SCHLUESSELHSK100 spanner for coolant tube F > Page 139	KBSK50-69872A retention knob with through hole G > Page 139	KBSK50-69872B retention knob without through hole H > Page 139	Z 00038 Tightening bolt for di- rect spindle mounting I > Page 140								

# ACCESSORIES



**that's a must!**  
**High-quality original accessories.**

In case, you decide to purchase high quality Pokolm tooling, you should also set the same high standards, when purchasing accessories - just to be on the safe side.

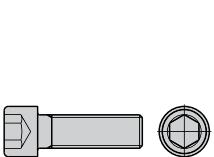
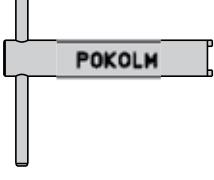
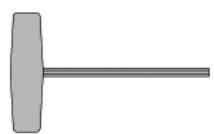
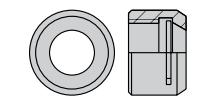
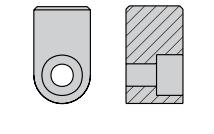
Pokolm is using quality screws, screwdrivers and other accessories made by leading manufacturers. It is always optimally coordinated with the high-performance capabilities of our own products.

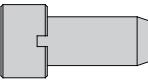
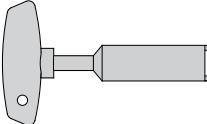
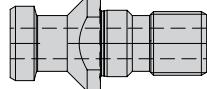
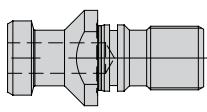
# ACCESSORIES

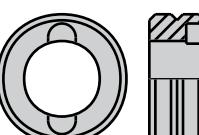
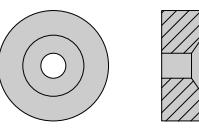
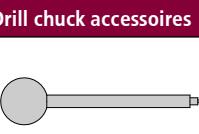
## ACCESSORIES

	Page
	135
<b>Cylindrical screws with hexagon socket</b>	for drive blocks 137 for MTS-reduction sleeves 137 for shell-type and threaded shank adapters 137
<b>Additional screws and washers</b>	setscrew 137 shell type set screw 138
<b>Spanners / screwdrivers</b>	Spanner for tightening nut of ER16/ER20-collet chucks 138 Spanners for reduction sleeves 138 Spanners for drill chucks 138
<b>Union nuts and drive blocks</b>	Union nuts 138 Drive blocks 138
<b>accessories for HSK tooling</b>	Coolant supply tube for HSK tooling 139 Spanners for coolant supply tube 139
<b>Retention knobs</b>	Retention knobs without seal ring groove 139 Retention knobs with seal ring groove 139
<b>CoolCap®</b>	CoolCap® for water / emulsion cooling 139 CoolCap® for air cooling and MQL 140 CoolCap® Applying tool 140 CoolCap® Torque wrench 140
<b>Threaded bushes</b>	Threaded bushes 140
<b>Drill chuck accessories</b>	seal gasket 140 hexagon key 140
<b>Tightening bolt</b>	Tightening bolt for direct spindle mounting 140

Accessories	Catalogue no.	Description			
<b>Cylindrical screws with hexagon socket   for drive blocks</b>					
	M6X16	screw for drive block 16 x 16 M 6   L 16   DIN 912	M 6	L 16	DIN 912
	M5X12	screw for drive block 12 x 8 M 5   L 12   DIN 912	M 5	L 12	DIN 912
	M4X10	screw for drive block 10 x 8 M 4   L 10   DIN 912	M 4	L 10	DIN 912
	M3X10	screws for drive block 8 x 8 M 3   L 10   DIN 912	M 3	L 10	DIN 912
	M5X16	screw for drive blocks 12 x 12 and 14 x 14 M 5   L 16   DIN 912	M 5	L 16	DIN 912
<b>Cylindrical screws with hexagon socket   for MTS-reduction sleeves</b>					
	M10X40	screws for MTS-reduction sleeve M 10   L 40   DIN 912	M 10	L 40	DIN 912
	M10X45 IC	screw for 120 MK3 AL A63 M 12   L 40   for 100 MK2 AL A63   with IC	M 12	L 40	
	M10X90	screws for MTS-reduction sleeve M 10   L 90   DIN 912	M 10	L 90	DIN 912
	M12X40	screws for MTS-reduction sleeve M 12   L 40   DIN 912	M 12	L 40	DIN 912
	M12X90	screws for MTS-reduction sleeve M 12   L 90   DIN 912	M 12	L 90	DIN 912
	M12X135	screws for MTS-reduction sleeve M 12   L 135   DIN 912	M 12	L 135	DIN 912
	M12X185	screws for MTS-reduction sleeve M 12   L 185   DIN 912	M 12	L 185	DIN 912
	M16X50	screws for MTS-reduction sleeve M 16   L 50   DIN 912	M 16	L 50	DIN 912
	M16X60	screw for reduction sleeve M 16   L 50   DIN 912	M 16	L 50	DIN 912
	M20X50	screws for MTS-reduction sleeve M 20   L 50   DIN 912	M 20	L 50	DIN 912
<b>Cylindrical screws with hexagon socket   for shell-type and threaded shank adapters</b>					
	M6X25	screw M 6   L 25   DIN 912   12.9	M 6	L 25	DIN 912
	M6X55	screw M 6   L 55   DIN 912   12.9	M 6	L 55	DIN 912
	M8X25	screw M 8   L 25   DIN 912   12.9	M 8	L 25	DIN 912
	M8X55	screw M 8   L 55   DIN 912   12.9	M 8	L 55	DIN 912
<b>Additional screws and washers   setscrew</b>					
	M10X10	screw for reduction sleeve M 10   L 10   DIN 913	M 10	L 10	DIN 913
	M12X10	screw M 12   L 10   DIN 913	M 12	L 10	DIN 913
	M14X12	screw M 14   L 12   DIN 913	M 14	L 12	DIN 913
	GWST-M5X8-914	setscrew DIN551 with hole M 5   L 8   hexa. size 2.5   DIN 914	M 5	L 8	hexa. size 2.5
	GWST-M6X10-914	setscrew M 6   L 10   hexa. size 3   DIN 914	M 6	L 10	hexa. size 3

Accessories	Catalogue no.	Description				
<b>Additional screws and washers   shell type set screw</b>						
	M8X30	screw DIN 912   10.9 M 8   L 55   DIN 912   10.9	M 8	L 55	DIN 912	10.9
	M10X35	screw M10X35 DIN 912   10.9 M 10   L 30   DIN 912   10.9	M 10	L 30	DIN 912	10.9
	M12X35	screw M12X35   10.9 M 12   L 20   DIN 912   10.9	M 12	L 20	DIN 912	10.9
	M16X26	screw M16X26 DIN 6367 M 16   l 50   DIN 6367	M 16	l 50	DIN 6367	
	M20X30	screw M20X30 DIN 6367 M 20   l 50   DIN 6367	M 20	l 50	DIN 6367	
<b>Spanners / screwdrivers   Spanner for tightening nut of ER16/ER20-collet chucks</b>						
	16 501	spanner for ER 16 collet chuck tightening nut M 19x1	M 19x1			
	20 501	spanner for ER 20 collet chuck tightening nut for M 24	for M 24			
<b>Spanners / screwdrivers   Spanners for reduction sleeves</b>						
	1003	spanner for reduction sleeve for MTS 2   for MTS 3	for MTS 2	for MTS 3		
	1004	spanner for reduction sleeve for MTS 4	for MTS 4			
	1005	spanner for reduction sleeve for MTS 5	for MTS 5			
<b>Spanners / screwdrivers   Spanners for drill chucks</b>						
	INBUS 4T	INBUS 4T SW4	SW4			
	INBUS 6T	INBUS 6T SW6	SW6			
<b>Union nuts</b>						
	ER16 001	tightning nut ER 16 M19   1,0	M19	1,0		
	ER20 001	tightening nut ER 20 M 24   1.0	M 24	1.0		
<b>Drive blocks</b>						
	NUTEN8X8	drive block 8 x 8 8   8   L 12	8	8	L 12	
	NUTEN10X8	drive block 10 x 8 10   8   L 18	10	8	L 18	
	NUTEN12X8	drive block 12 x 8 12   8   L 20	12	8	L 20	
	NUTEN12X12/2	drive block 12 x 12 12   12   L 20	12	12	L 20	
	NUTEN14X14	drive block 14 x 14 14   14   L 24	14	14	L 24	
	NUTEN16X16	drive block 16 x 16 16   16   L 24	16	16	L 24	
	NUTEN25X26	drive block 25 x 26 25   25   26	25	25	26	

Accessories	Catalogue no.	Description			
<b>accessories for HSK tooling   Coolant supply tube for HSK tooling</b>					
	KMR-25	coolant supply tube for HSK-tooling for HSK 25   form A + E	for HSK 25	form A + E	
	KMR-32	coolant supply tube for HSK-tooling for HSK 32   form A + E	for HSK 32	form A + E	
	KMR-40A	coolant supply tube for HSK-tooling for HSK 40   form A + E	for HSK 40	form A + E	
	KMR-50A	coolant supply tube for HSK-tooling for HSK 50   form A + E	for HSK 50	form A + E	
	KMR-63A	coolant supply tube for HSK-tooling for HSK 63   form A + E	for HSK 63	form A + E	
	KMR-100A	coolant supply tube for HSK-tooling for HSK 100   form A	for HSK 100	form A	
<b>accessories for HSK tooling   Spanners for coolant supply tube</b>					
	SCHLUESSELHSK25	spanner for coolant tube HSK 25	HSK 25		
	SCHLUESSELHSK32	spanner for coolant tube HSK 32	HSK 32		
	SCHLUESSELHSK40	spanner for coolant tube HSK 40	HSK 40		
	SCHLUESSELHSK50	spanner for coolant tube HSK 50	HSK 50		
	SCHLUESSELHSK63	spanner for coolant tube HSK 63	HSK 63		
	SCHLUESSELHSK100	spanner for coolant tube HSK 100	HSK 100		
<b>Retention knobs without seal ring groove</b>					
	KBSK30-69872A	retention knob with through hole SK 30   DIN 69 872 A   without sealing ring groove	SK 30	DIN 69 872 A	
	KBSK40-69872A	retention knob with through hole SK 40   DIN 69 872 A   without sealing ring groove	SK 40	DIN 69 872 A	
	KBSK50-69872A	retention knob with through hole SK 50   DIN 69 872 A   without sealing ring groove	SK 50	DIN 69 872 A	
<b>Retention knobs with seal ring groove</b>					
	KBSK30-69872B	retention knob without through hole SK 30   DIN 69 872 B   with seal ring groove   with sealing ring groove	SK 30		
	KBSK40-69872B	retention knob without through hole SK 40   DIN 69 872 B   with seal ring groove   with sealing ring groove	SK 40		
	KBSK50-69872B	retention knob without through hole SK 50   DIN 69 872 B   with seal ring groove   with sealing ring groove	SK 50		
<b>CoolCap®   CoolCap® for water / emulsion cooling</b>					
	SR1 S06 SW17	COOLCAP®-Screw-On Cap for shrinking Ø 6 for water / emulsion cooling			
	SR1 S08 SW21	COOLCAP®-Screw-On Cap for shrinking Ø 8 for water / emulsion cooling			
	SR1 S10 SW22	COOLCAP®-Screw-On Cap for shrinking Ø 10 for water / emulsion cooling			
	SR1 S12 SW27	COOLCAP®-Screw-On Cap for shrinking Ø 12 for water / emulsion cooling			
	SR1 S16 SW32	COOLCAP®-Screw-On Cap for shrinking Ø 16 for water / emulsion cooling			

Accessories	Catalogue no.	Description				
<b>CoolCap®   CoolCap® for air cooling and MQL</b>						
	SR1 A06 SW17	COOLCAP®-Screw-On Cap for shrinking Ø 6 for air cooling and MQL				
	SR1 A08 SW21	COOLCAP®-Screw-On Cap for shrinking Ø 8 for air cooling and MQL				
	SR1 A10 SW22	COOLCAP®-Screw-On Cap for shrinking Ø 10 for air cooling and MQL				
	SR1 A12 SW27	COOLCAP®-Screw-On Cap for shrinking Ø 12 for air cooling and MQL				
	SR1 A16 SW32	COOLCAP®-Screw-On Cap for shrinking Ø 16 for air cooling and MQL				
<b>CoolCap®   CoolCap® Applying tool</b>						
	SR1 ZSW 001	COOLCAP®-applying tool SR1 universal key	SR1 universal key			
<b>CoolCap®   CoolCap® Torque wrench</b>						
	DMS 3/8 8-60 NM	torque wrench 3/8" for SR1 ZSW 001	for SR1 ZSW 001			
<b>Threaded bushes</b>						
	ZGHM2414	threaded bush, right hand thread M 24	M 24			
	ZGHM2414L	threaded bush, left hand thread M 24	M 24			
	ZGHM3316L	threaded bush, left hand thread M 33	M 33			
<b>Drill chuck accessories   seal gasket</b>						
	BF08DS04	seal gasket 08DS04				
	BF08DS08	seal gasket 08DS08				
	BF13DS06	seal gasket 08DS08				
	BF13DS13	seal gasket 13DS13				
	BF16DS06	seal gasket 16DS06				
	BF16DS16	seal gasket 16DS16				
<b>Drill chuck accessories   hexagon key</b>						
	BF08MW	hexagon key 08MW				
	BF13MW	hexagon key 13MW				
<b>Tightening bolt for direct spindle mounting</b>						
	Z 00038	Tightening bolt for direct spindle mounting M12	M12			

# PURCHASE/INQUIRY FORM

## Customized Arbors

(please copy prior to completion)



Please fax to:

**+49 5247 9361-99**

Inquiry No./P.O. No.:

Date:

Company:

Address:

Department:

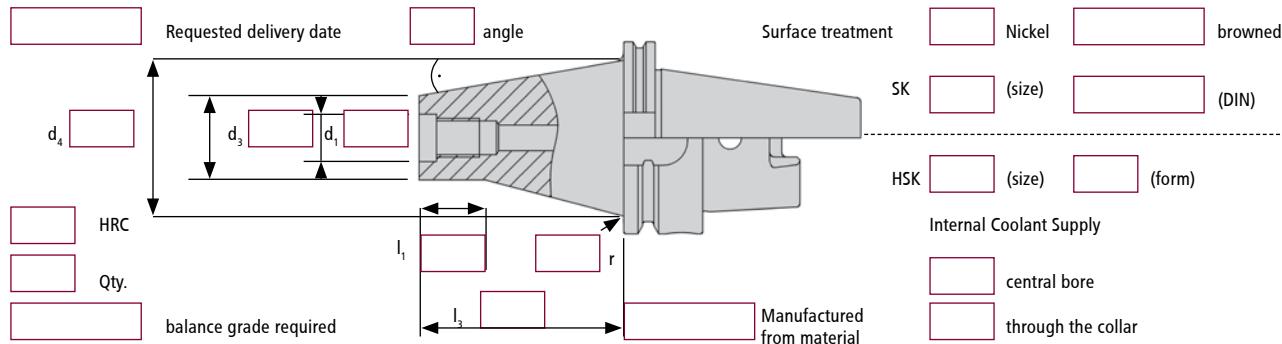
person in charge:

Phone:

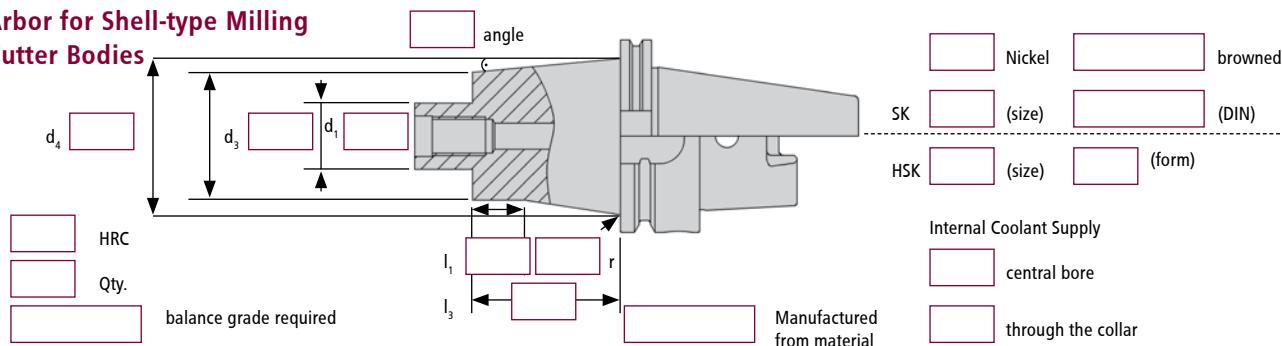
Fax:

Email:

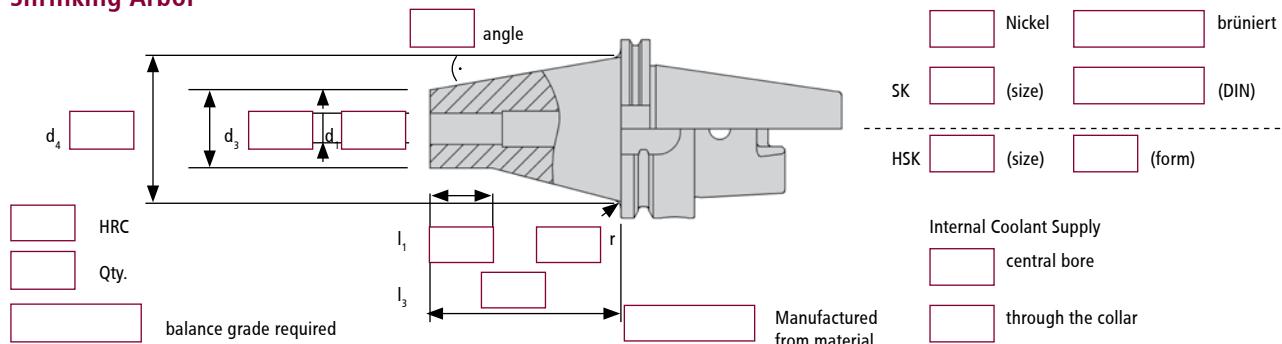
### Arbor for threaded shank end mill bodies



### Arbor for Shell-type Milling Cutter Bodies



### Shrinking Arbor



Note: For cylindrical design please fill in d3 and d4. 4 calendar weeks delivery time with browned surface.

Field service

indoor service

# PURCHASE/INQUIRY FORM

## Customized Adapters

(please copy prior to completion)



Please fax to:

**+49 5247 9361-99**

Inquiry No./P.O. No.:

Date:

Company:

Address:

Department:

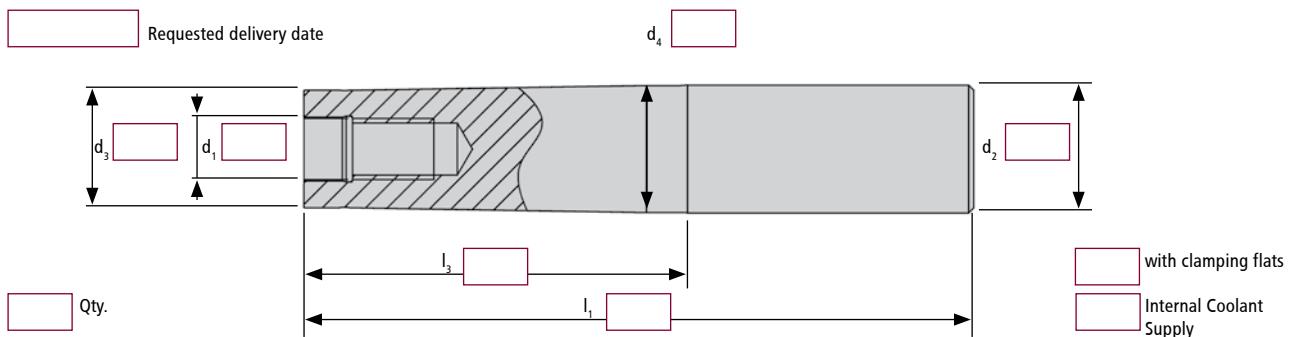
Person in charge:

Phone:

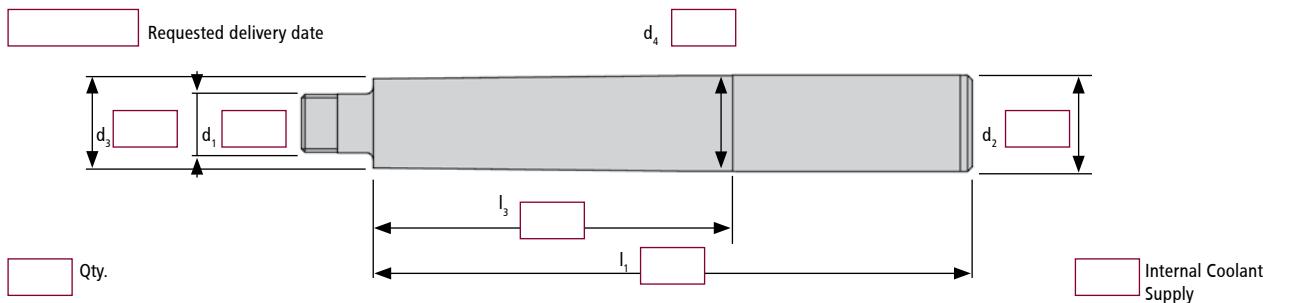
Fax:

Email:

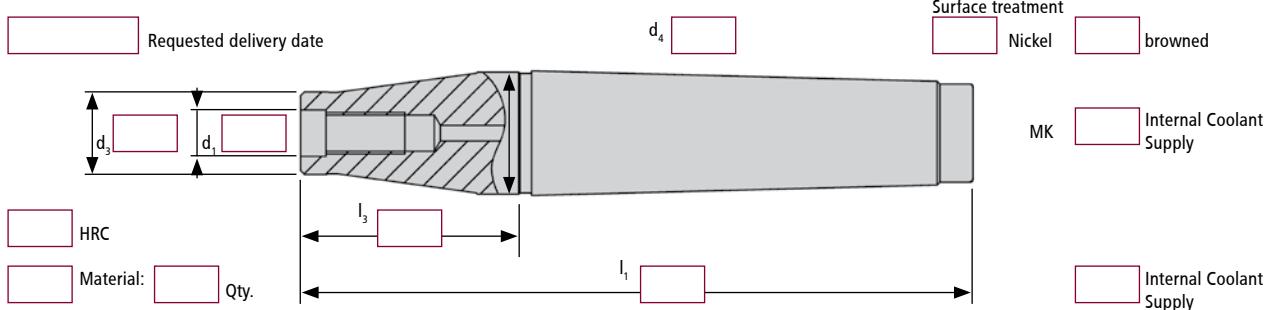
### Solid Carbide and Dense Antivibration Adapters for Threaded Shank End Mill Bodies



### Solid Carbide Adapters for DUOPLUG® System



### Morse Taper Adapters for Threaded Shank End Mill Bodies



Note: For cylindrical design please fill in d3 and d4. 4 Calendar weeks delivery time with browned surface.

Indoor service

Field service

# PURCHASE FORM

Your purchase order by fax  
(please copy prior to completion)



Please fax to:

**+49 5247 9361-99**

You can of course also place your order with one of  
our applications engineers.

Catalogue no.	Description of item	Quantity	Price per item	Total price
<b>Total</b>				

Address:

Different delivery address

Company:

customer number (if known)

Company:

Department:

street

street

name

zip code, city

zip code, city

Our terms of sale are valid for this faxed purchase order.

# HIGH-SPEED SPINDLE SYSTEMS

## MODERN SPINDLE UNITS FOR EFFECTIVE MILLINGS RESULTS

Many milling machines – both old and new – have a relatively low maximum speed. Low maximum speed does have advantages in roughing operations, but are a big drawback for achieving effective feed rates. Low speed also greatly limits the advantages of modern CNC applications. The results: much longer machining times and loss of valuable production capacities.

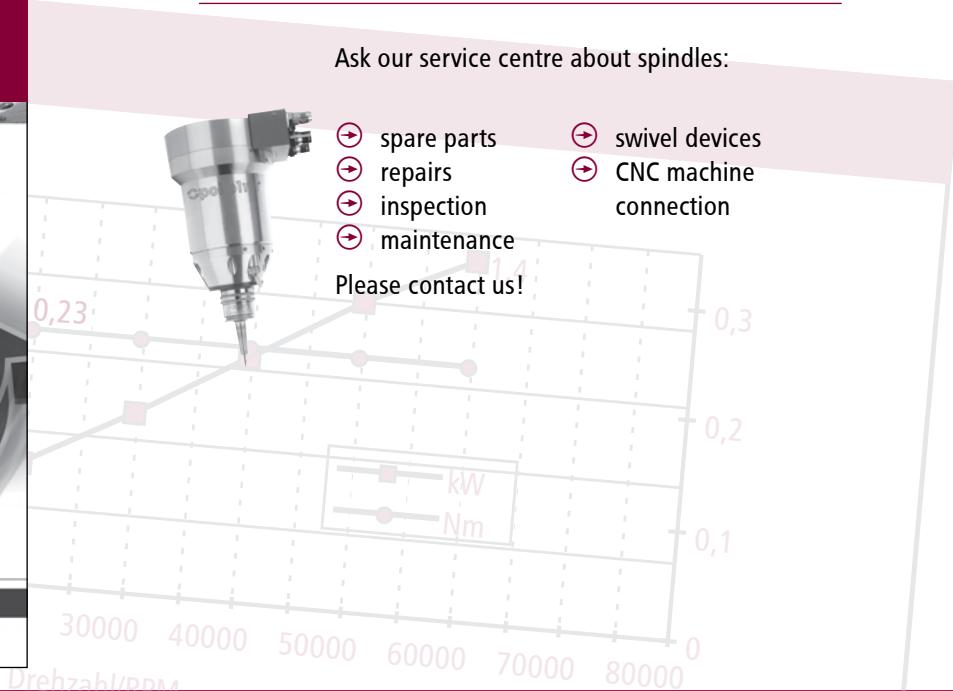
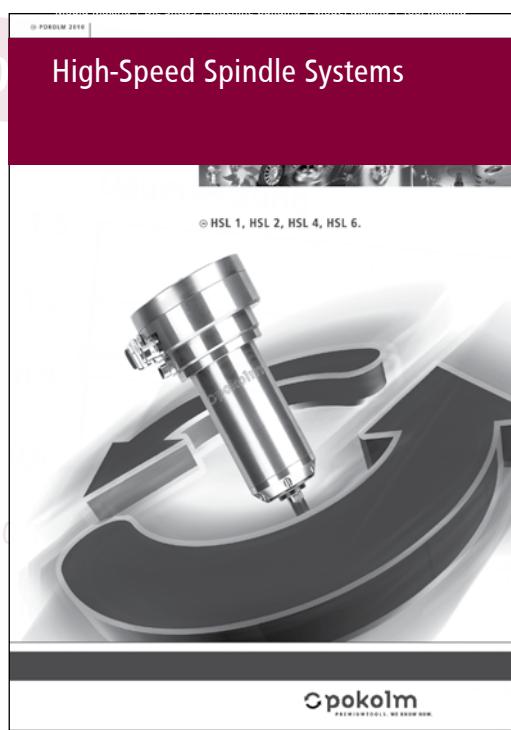
We offer a convincing solution for this situation: Pokolm high-speed spindle systems for the most profitable machining results.

## BETTER SURFACE FINISH RESULTS AND GREATLY IMPROVED CYCLE TIME

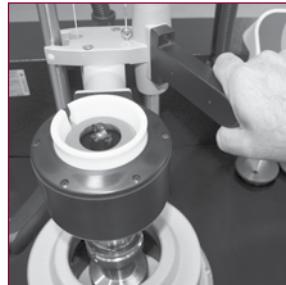
The advantages are impressive: higher cutting speeds, utilization of maximum feed rates – even with the smallest end mills – better surface finish and a great reduction in the need for EDM. Results: much shorter machining times and full utilization of the CNC advantages.

Pokolm provides various spindle systems for individual adaptation to existing machines and operation requirements. Operating with an approach angle of these spindles in A and C direction by using our swivel device, increases the variety of applications of your milling machine.

Get the maximum speed from your machines with Pokolm-spindle systems. The result: You save time!



# INDUCTIVE SHRINKING TECHNOLOGY



## SHRINKING TECHNOLOGY

Induction shrinking stations and accessories

**pokolm**  
PREMIUM TOOLS. WE KNOW HOW.

### FIRST OPERATION: SHRINKING, THEN MILLING

Shrinking Technology convinces everybody compared with conventional chucking methods from the past. What counts? Absolute concentricity and highest precision with extensive extended tool life. Shrinking technology offers a safe friction-locked connection between tool and tool holder and provides an increased transferable torque. And the qualification for maximum revolutions is the best precondition for an optimum surface finish and for reducing costs for expensive finishing processes.

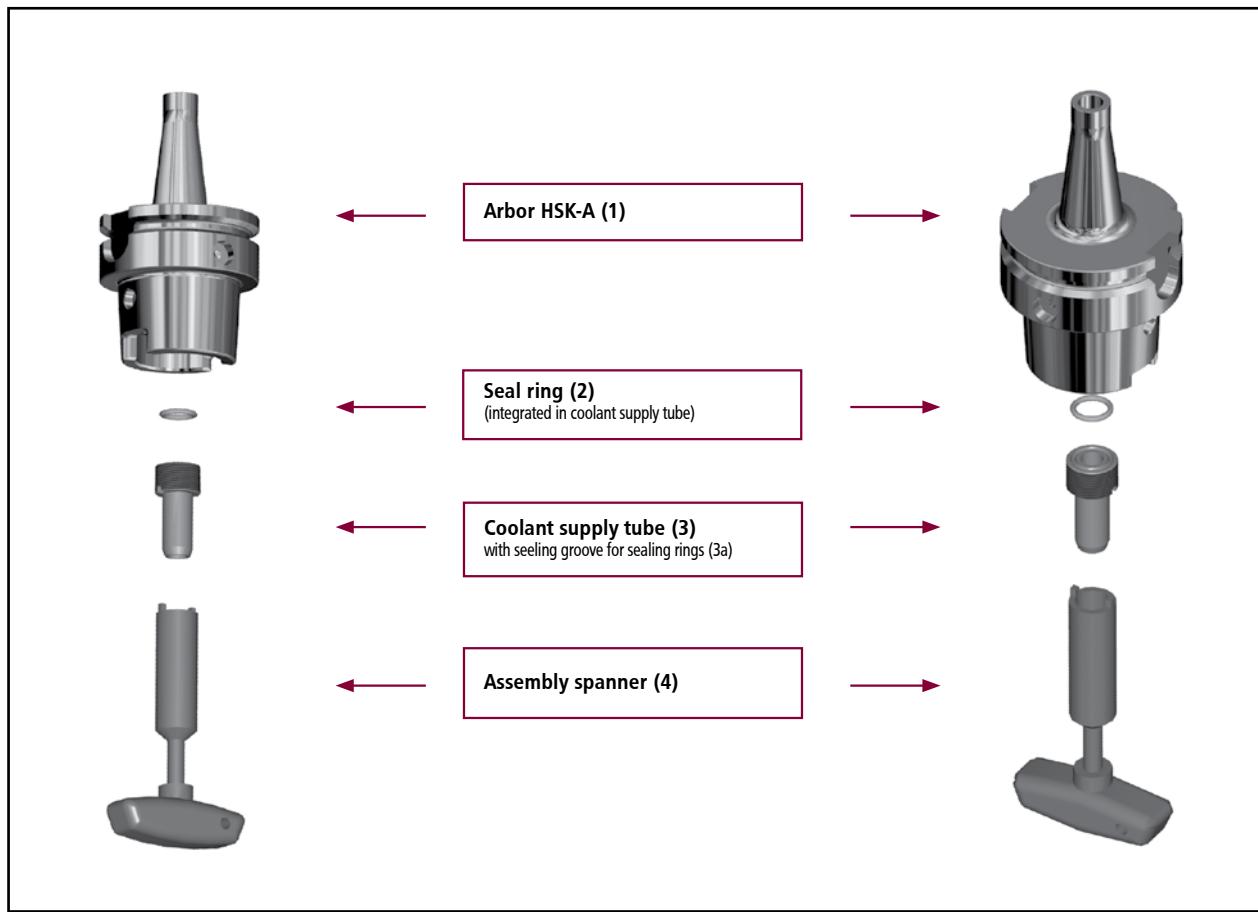
Compared to conventional milling chucks, shrinking arbors allow the use of distinctly slim adaptors for machining components with narrow situations, which would be unexecutable with other tool-holding systems.

Pokolm offers a substantial range of tooling for shrinking technology: several top-class Induction Shrinking Units, shrinking arbors for all possible machine connections and our patent-protected connection system **DUOPLUG®** in combination with our "zero-reach"-shrinking arbors. (Additional information about the Pokolm **DUOPLUG®** System can be found under chapter "Milling Cutter Bodies" of this catalogue.)

# ASSEMBLING INSTRUCTIONS

## for Coolant supply tubes for HSK Form A

When using HSK-A arbors with internal coolant supply, it is necessary to assemble these arbors with a coolant supply tube. To assemble, please follow the instructions below. The required accessories are mentioned for every arbor size.



### Step 1

Usually, the seal ring (2) is already assembled in the coolant supply tube (3). If it has come loose, please put it back to the sealing groove (3a) of the supply tube (3).

### Step 2

Insert the narrow end of the tube (3) into the spanner (4).

### Step 3

Screw the tube (3) into the arbor (1) from the bottom up and make sure that the seal ring (2) is not off-centre or squeezed. Otherwise it loses its sealing function.

# OUR POKOLM BAG OF TRICKS

## Shell-type Extensions

### Reduction adapters - shell type to thread connections

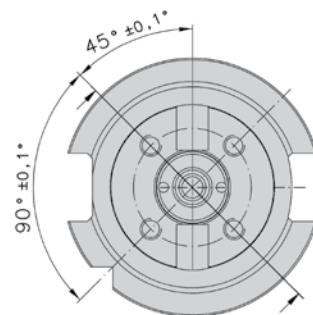
You have to machine an extensive deep component? The requested arbor-extension is not available as a standard item? The production of customized arbors is too expensive? There is no time left for any special action?

#### SPECIAL SITUATIONS REQUIRE SPECIAL SOLUTIONS.

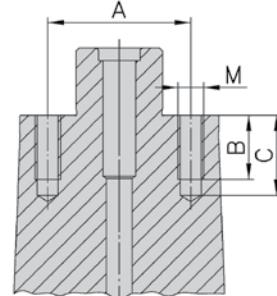
Our latest shell-type extensions and the thread-connections/shell-type combi adapters allow to achieve a possibility of assembling tool beyond our standard range.

1. an existing standard arbor has to be equipped with supplement bore holes according to our adjoining sketch.
2. screw on your selected adapter.
3. start your job.

THIS RESULTS IN EXTENSIONS BETWEEN 50 AND 100 MM



Extension - top view



Extension - side view

Catalogue No.	Tool	Diameter of Spigot	Extensions length	A	B	C	Screws*
							M length
60 22 Mxx 783	Thread connection – Shell-type Combi Adapters	Ø 22	60	Ø 35	20	25	M 6 x 25
100 22 Mxx 783	Thread connection – Shell-type Combi Adapters	Ø 22	100	Ø 35	20	25	M 6 x 25
60 27 Mxx 783	Thread connection – Shell-type Combi Adapters	Ø 27	60	Ø 44,5	20	25	M 8 x 25
100 27 Mxx 783	Thread connection – Shell-type Combi Adapters	Ø 27	100	Ø 44,5	20	25	M 8 x 25
50 22 782	Shell-type Extensions	Ø 22	50	Ø 35	20	25	M 6 x 55
100 22 782	Shell-type Extensions	Ø 22	100	Ø 35	20	25	M 6 x 55
50 27 782	Shell-type Extensions	Ø 27	50	Ø 44,5	20	25	M 8 x 55
100 27 782	Shell-type Extensions	Ø 27	100	Ø 44,5	20	25	M 8 x 55

\*for fixing an adapter, you need 4 screws each, included in extent of supply.

You are going to find all available sizes and designs in the catalogue about arbors and adapters.

# ASSEMBLING INSTRUCTIONS

## DUOPLUG®

To guarantee optimum results and safe operation of our **DUOPLUG®** system, please follow the instructions below carefully.

### Assembling:

#### Preparations

Get all the accessories and equipment ready at the workstation before starting heating procedure! (appropriate spanner, safety glasses, protective gloves)

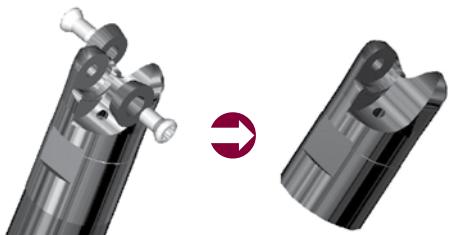
#### Step 4

Inductive heating expands the fitted bore in the cutter body. Only then can you totally screw the body onto the end face of your adaptor with the appropriate spanner. This step must be possible without using too much strength. If there is still some resistance, please heat the **DUOPLUG®** cutter body once more for a few seconds and try again.



#### Step 1

Remove inserts and their screws from the milling cutter body.



#### Step 5

Make sure that the body and adaptor fit together perfectly. There should be no gap.

**Perform these steps with only moderate strength.**



#### Step 2



**Attention:** All surfaces carrying special fits must be absolutely grease-free and dust-free. Please screw the **DUOPLUG®** milling cutter body onto the **DUOPLUG®** adaptor by hand up to the fit zone. Do not use a tool or too much strength.

#### Step 6

Do not shock cool your shrunk combination; use the cooling equipment of your Shrinking Unit to cool it evenly. During cooling, the **DUOPLUG®** cutter body contracts and you get a safe load transmission.



#### Step 3

Heat this connection now with the Pokolm Inductive Shrinking Unit for 6 to 15 seconds, depending on diameter, then start Step 4 immediately.



**Attention:** Adaptor and milling cutter body are very hot after this process! Danger of burning hands or fingers! Protective gloves MUST be worn!

#### Step 7

Mount the desired inserts onto the body with their screws. After checking the diameter and length of your tool, you can start your operation.



## Dismantling:

### Preparations

Get all the necessary accessories and equipment together at the workstation before starting heating procedure! (appropriate spanner, safety glasses, protective gloves)



**Attention:** You absolutely **MUST** wear your safety glasses when dismantling! Used tools carry swarf and cooling fluid residues which could spray out during operation!

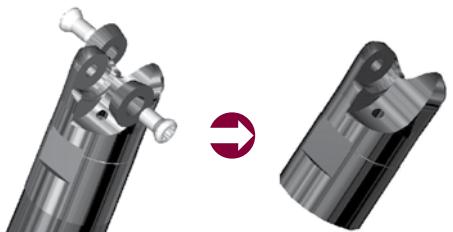
### Step 3

Inductive heating expands the fitted bore in your cutter body. Only after heating should you unscrew your cutter body from your adaptor using an appropriate spanner. This step must be possible to perform without strength. If there is still some resistance, please heat the cutter body once more for a few seconds and try again.



### Step 1

Remove inserts and screws from milling cutter body.



### Step 4

Do not shock cool your unshrunk dismantled parts; use the cooling equipment of your shrinking unit to cool it slowly, or use the deposit box.



**Attention:** Adaptor and milling cutter body are still very hot!  
Danger of burning hands or fingers!  
Protective gloves **MUST** be worn!



### Step 2

Heat your used combination with the Pokolm Inductive Shrinking Unit for 6 to 15 seconds, depending on diameter.



**Attention:** Adaptor and milling cutter body are still very hot!

Danger of burning hands or fingers!  
Protective gloves **MUST** be worn!

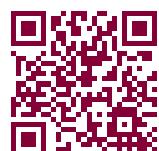


### Recommendation

For the shrinking process we recommend our comfortable Shrinking Station TSI11000WK with a great number of innovative attributes. Perfectly matched to POKOLM products, the semi-automatic shrinking and fluid-supported cooling process is run in a single position in the unit. The operation concept is especially user friendly.



For more information order the POKOLM brochure about Shrinking technology. You can also find it as PDF file at the download area of the POKOLM Website, or simply follow the QR Code:



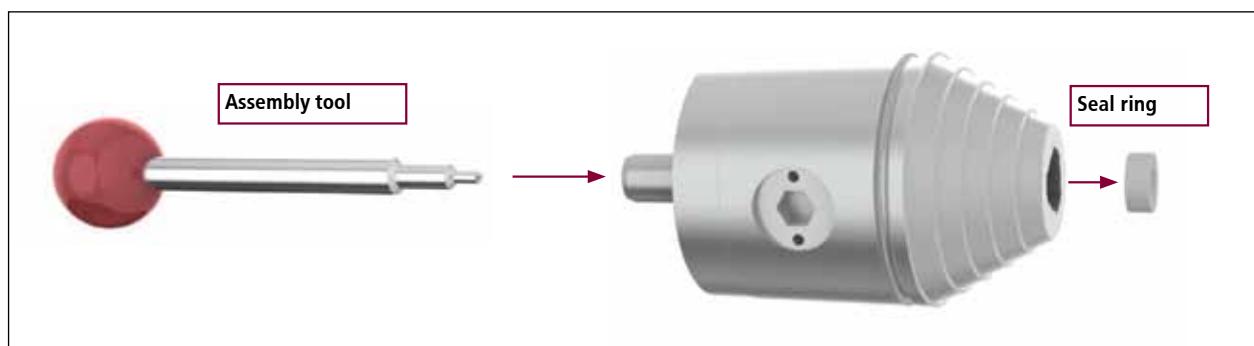
**For further inquiries concerning the DUOPLUG® system, please do not hesitate to contact us.**

# ASSEMBLING INSTRUCTIONS

## Seal ring for CNC precision drill chuck

Two seal rings for different drill diameters are generally included in the scope of delivery of all Pokolm CNC precision drill chucks. Please observe the instructions when exchanging the seal rings or replacing them with a corresponding spare part.

### Disassembly:



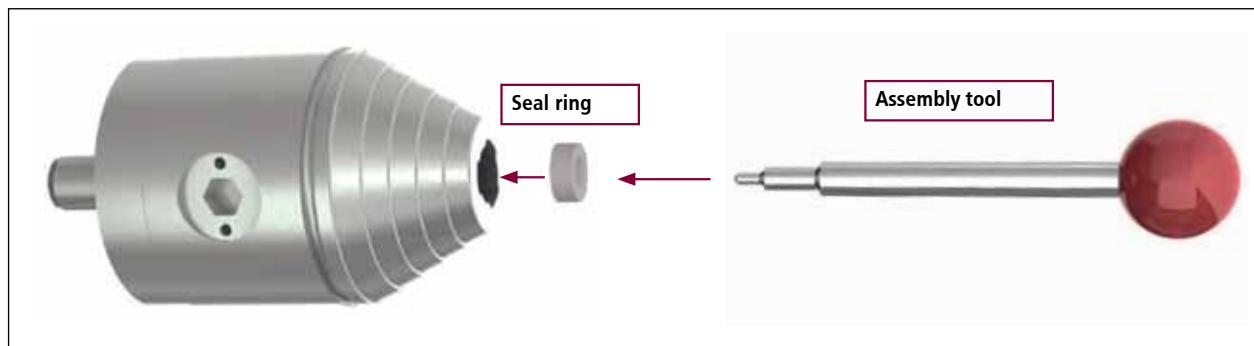
#### Step 1

Open the clamping jaws of the drill chuck with an Allen key. Dismantle the drill chuck on the machine side until the spindle can be freely accessed.

#### Step 2

Insert the assembly tool in the middle of the drill chuck on the side of the spindle until it meets resistance from the seal ring. By applying light pressure the seal ring can now be removed by pushing it forward and out through the clamping jaws.

### Assembly:



#### Step 1

Place the new seal ring with the hollow side facing the tool onto the assembly tool and insert from the front through the clamping jaw up to the seat of the seal ring. The seal ring is held in place with an O-ring.

#### Step 2

Push the seal ring into the seat with the assembly tool.

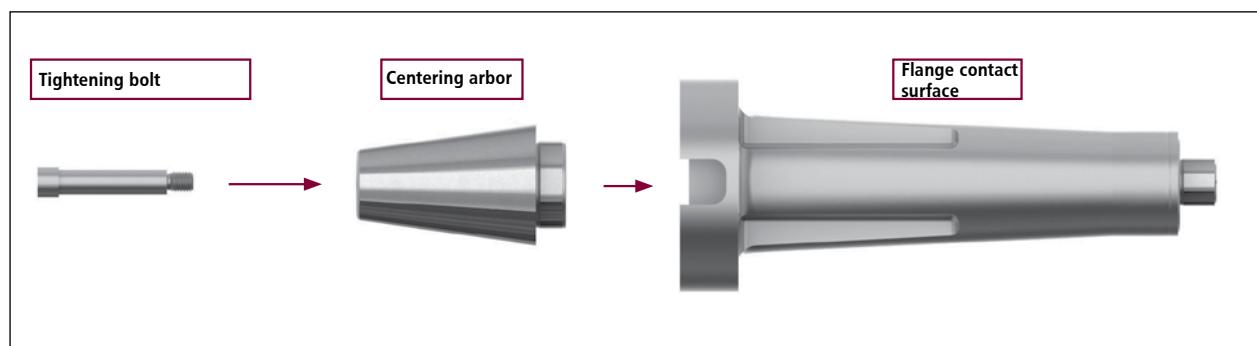
# ASSEMBLING INSTRUCTIONS

## Centering arbor and flange contact surface

In order to ensure a trouble-free insertion into the machine during centering and screwing-on the flange contact surface make sure that the centering arbor and the flange contact surface are not screwed together tightly. The fastening screw that is provided is constructed in such a way that it prevents the centering arbor and the flange contact surface from becoming tightly screwed together.

**Please observe the following instructions:**

### Assembly of the centering arbor:



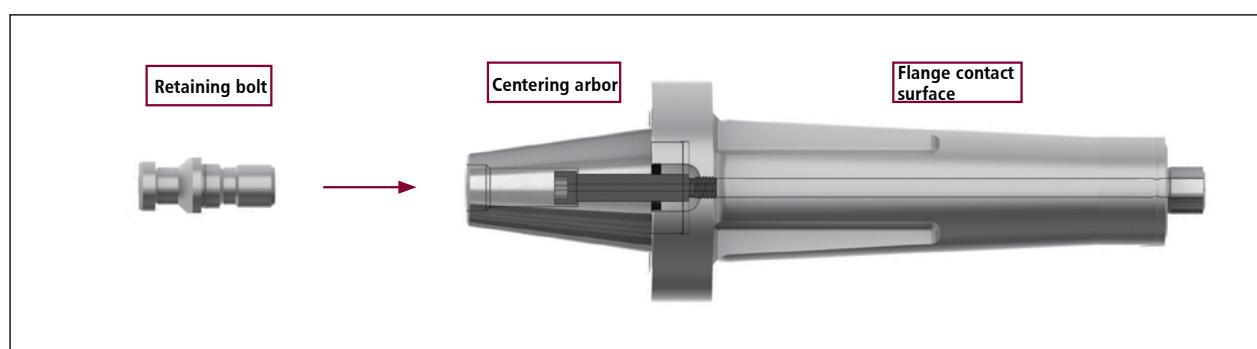
#### Step 1

Insert the centering arbor into the corresponding fitting of the flange contact surface.

#### Step 2

Insert the tightening bolt that is provided into the centering arbor and screw into the threading of the flange contact surface with an Allen key (10 mm) and then tighten by hand. Now the centering arbor and the flange contact surface are connected to each other.

### Assembly of the retaining bolt:



#### Step 1

Screw the retaining bolt into the inside thread of the centering arbor and tighten by hand.

The flange contact surface can now be inserted and screwed to the machine.

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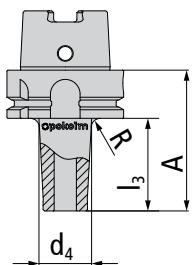
# QUICKFINDER

**Fit zone diam. of threaded shank end mill bodies:**

Thread size	M 5	M 6	M 8	M 10	M 12	M 16
Length fit zone in mm	5,5	6,5	8,5	10,5	12,5	17,0
Starting torque in Nm	7	10	15	30	50	100

**Thread sizes for Shell-type arbors:**

Pilot diameter in mm	16	22	27	32	40
Fixing screw	M 8	M 10	M 12	M 16	M 20

**Theoretical d4 and l3:**


The arbor dimensions d4 and l3 (see illustration at left) are calculated up to the theoretical point of intersection between arbor taper and collar.  
Please take the transition radius R (5-8 mm depending on arbor type) into account for practical use.

**Theoretical usable end mill length of Solid carbide end mills in mm\*:**

	diam. of shank (DIN 6535) $d_2 h_3$	2 - 5	6 + 8	10	12 + 14	16 + 18
	length of shank (DIN 6535) $l_2 {}^{+2}_{-0}$	28	36	40	45	48
	diam. of shank (DIN 6535) $d_2 h_5$	20	25	32 + 36		
	length of shank (DIN 6535) $l_2 {}^{+2}_{-0}$	50	56	60		

\*this usable length appears through deduction of the DIN-shank-length ( $l_2$  according to DIN 6535) from the overall length  $l_1$  of the end mill or of the solid carbide adapters. See table above.

**Features:**

	toric tool		incorporated insert		arbors with zero reach
	7° positive axial rake angle		clamping flat		DUOPLUG®
	stainless- acid- and heat resistant		concave moulding		shim
	dense antivibration material		working depth		internal coolant supply
	Solid Carbide		suitable for high-speed machining		especially suitable f. non-ferr. materials
	chamfer		wet machining possible		on request
	2-point contact milling		dry machining possible		stock item, subject to confirmation
	wet machining required		for direct spindle mounting		available as long as stock lasts
	dry machining required		long series		
	balance grade				



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