



**C A T A L O G U E**  
PARTS OF YOUR BUSINESS  
metal • wood



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For more than 50 years, **IMS** has been synonymous with high quality and efficiency. In particular, our company has gone through the last twenty years of the '1900's consolidating on the national market and perfecting the agreement with the most prominent figures of the Italian industrial scene.

With the advent of the 2000's, IMS presented itself on the international market with an unparalleled know-how, immediately establishing solid partnerships and expanding its product line to better serve countries with market stan-

## PARTS OF YOUR BUSINESS

dards other than European ones.

Presently, **IMS distributes its tool holders in 95 countries** around the world, boasting exclusive distributors in the **United States, Spain** and the **Czech Republic** and official representatives in another **24 countries**.

With a view to development aimed at improving service and aligning with the needs of industry 4.0, IMS has developed an innovative and functional concept for research and identification of the ideal product for every need. This catalog is an important step in this process made to bring together the manufacturer, retailer and user in a synergy based on the common interest: obtaining a final product that reflects the buyer's expectations.



# How to read the catalogue

The catalogue structure is designed to focus attention on every aspect of the Tool holder, to **get to the product definition** without neglecting any of its features. Following the instructions of the guide, the user is accompanied in the **creation of the code**

through the choice of the connection with the machine (pp. 6 and 72), the preferred tool holding systems (from page 6 for HSK and from page 72 for SK, BT and CAT), the optional features and finishes of the product. The catalog then provides special sections for the **selection**

1 Define the machine connection type

2 Define the tool connection type

3 Icons summary:

### Product features



### Recommended accessories/components

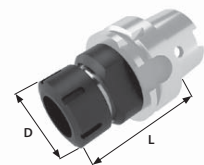


### Available options



## HSK HSK TOOL HOLDERS DIN 69893 Collet chucks LH with collet nut for ER collet DIN 6499/DIN 15488

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



| Part code | Description                   | ER    | D  | L    | Connection   | Balancing (RPM) |
|-----------|-------------------------------|-------|----|------|--------------|-----------------|
| AB03      | collet chuck with mini nut LH | ER 16 | 22 | 40   | HSK 25 E     | 70.000          |
| AB04      | collet chuck with mini nut LH | ER 16 | 22 | 50   | HSK 32 A-C-E | 50.000          |
| AB05      | collet chuck with mini nut LH | ER 16 | 22 | 60   | HSK 40 E     | 24.000          |
| AB05      | collet chuck with mini nut LH | ER 16 | 22 | 60   | HSK 63 A-E-F | 24.000          |
| AB06      | collet chuck with nut LH      | ER 16 | 32 | 60   | HSK 40 E     | 24.000          |
| AB06      | collet chuck with nut LH      | ER 16 | 32 | 60   | HSK 50 E     | 24.000          |
| AB06      | collet chuck with nut LH      | ER 16 | 32 | 60   | HSK 63 E-F   | 24.000          |
| AB07      | collet chuck with mini nut LH | ER 20 | 28 | 60   | HSK 32 A-C-E | 50.000          |
| AB07      | collet chuck with mini nut LH | ER 20 | 28 | 60   | HSK 40 A-E   | 24.000          |
| AB07      | collet chuck with mini nut LH | ER 20 | 28 | 60   | HSK 50 A-E   | 24.000          |
| AB07      | collet chuck with mini nut LH | ER 20 | 28 | 60   | HSK 63 A-E-F | 24.000          |
| AB08      | collet chuck with nut LH      | ER 20 | 34 | 60   | HSK 50 E     | 24.000          |
| AB08      | collet chuck with nut LH      | ER 20 | 34 | 60   | HSK 63 A-E-F | 24.000          |
| AB09      | collet chuck with mini nut LH | ER 25 | 35 | 72,5 | HSK 32 A-C-E | 50.000          |
| AB10      | collet chuck with mini nut LH | ER 25 | 35 | 60   | HSK 40 A-E   | 24.000          |
| AB09      | collet chuck with mini nut LH | ER 25 | 35 | 72,5 | HSK 50 A-E   | 24.000          |
| AB09      | collet chuck with mini nut LH | ER 25 | 35 | 72,5 | HSK 63 A-E-F | 24.000          |
| AB11      | collet chuck with nut LH      | ER 25 | 42 | 60   | HSK 40 A-E   | 24.000          |
| AB12      | collet chuck with nut LH      | ER 25 | 42 | 72,5 | HSK 50 A-E   | 24.000          |
| AB12      | collet chuck with nut LH      | ER 25 | 42 | 72,5 | HSK 63 A-E-F | 24.000          |
| AB13      | collet chuck with nut LH      | ER 32 | 50 | 60   | HSK 40 A-E   | 24.000          |
| AB14      | collet chuck with nut LH      | ER 32 | 50 | 72,5 | HSK 50 A-E-F | 24.000          |
| AB14      | collet chuck with nut LH      | ER 32 | 50 | 72,5 | HSK 63 A-E-F | 24.000          |
| AB15      | collet chuck with nut LH      | ER 32 | 50 | 100  | HSK 63 A-E-F | 24.000          |

**of accessories** (from page 152) **and components** (from page 180). In this approach to the customer, the objective of IMS is to undertake several other initiatives designed to better understand the characteristics of the product.

| Part code | Description              | ER    | D  | L    | Connection   | Balancing (RPM) |
|-----------|--------------------------|-------|----|------|--------------|-----------------|
| AB15      | collet chuck with nut LH | ER 32 | 50 | 100  | HSK 80 A     | 24.000          |
| AB15      | collet chuck with nut LH | ER 32 | 50 | 100  | HSK 100 A    | 18.000          |
| AB16      | collet chuck with nut LH | ER 32 | 50 | 120  | HSK 125 A    | 18.000          |
| AB17      | collet chuck with nut LH | ER 32 | 50 | 160  | HSK 63 A-E-F | 24.000          |
| AB17      | collet chuck with nut LH | ER 32 | 50 | 160  | HSK 80 A     | 24.000          |
| AB17      | collet chuck with nut LH | ER 32 | 50 | 160  | HSK 100 A    | 18.000          |
| AB18      | collet chuck with nut LH | ER 40 | 63 | 76,5 | HSK 50 A-E   | 24.000          |
| AB18      | collet chuck with nut LH | ER 40 | 63 | 76,5 | HSK 63 A-E-F | 24.000          |
| AB19      | collet chuck with nut LH | ER 40 | 63 | 100  | HSK 63 A-E-F | 24.000          |
| AB19      | collet chuck with nut LH | ER 40 | 63 | 100  | HSK 80 A     | 24.000          |
| AB19      | collet chuck with nut LH | ER 40 | 63 | 100  | HSK 100 A    | 18.000          |
| AB20      | collet chuck with nut LH | ER 40 | 63 | 120  | HSK 125 A    | 18.000          |
| AB21      | collet chuck with nut LH | ER 40 | 63 | 160  | HSK 63 A-E-F | 24.000          |
| AB21      | collet chuck with nut LH | ER 40 | 63 | 160  | HSK 80 A     | 24.000          |
| AB21      | collet chuck with nut LH | ER 40 | 63 | 160  | HSK 100 A    | 18.000          |
| AB22      | collet chuck with nut LH | ER 50 | 78 | 130  | HSK 125 A    | 18.000          |

MANUFACTURING MATERIAL

STEEL

OPTIONAL MATERIAL

STAINLESS STEEL  
Cod. M1

OPTIONAL FINISHES\*

ENDURANCE  
Cod. Z2

NICKEL  
Cod. Z3

\*By choosing optional materials, the specific hardness may vary.

4 Choose the necessary features

6 Choose optional finishes

5 Optional material (other than standard)

7 Combining codes obtained through the choices made, an IMS product code is created.  
e.g. HSK63 F + collet chuck ER32 L 72,5 mm left hand 1AN + AB14 = 1AN-AB14

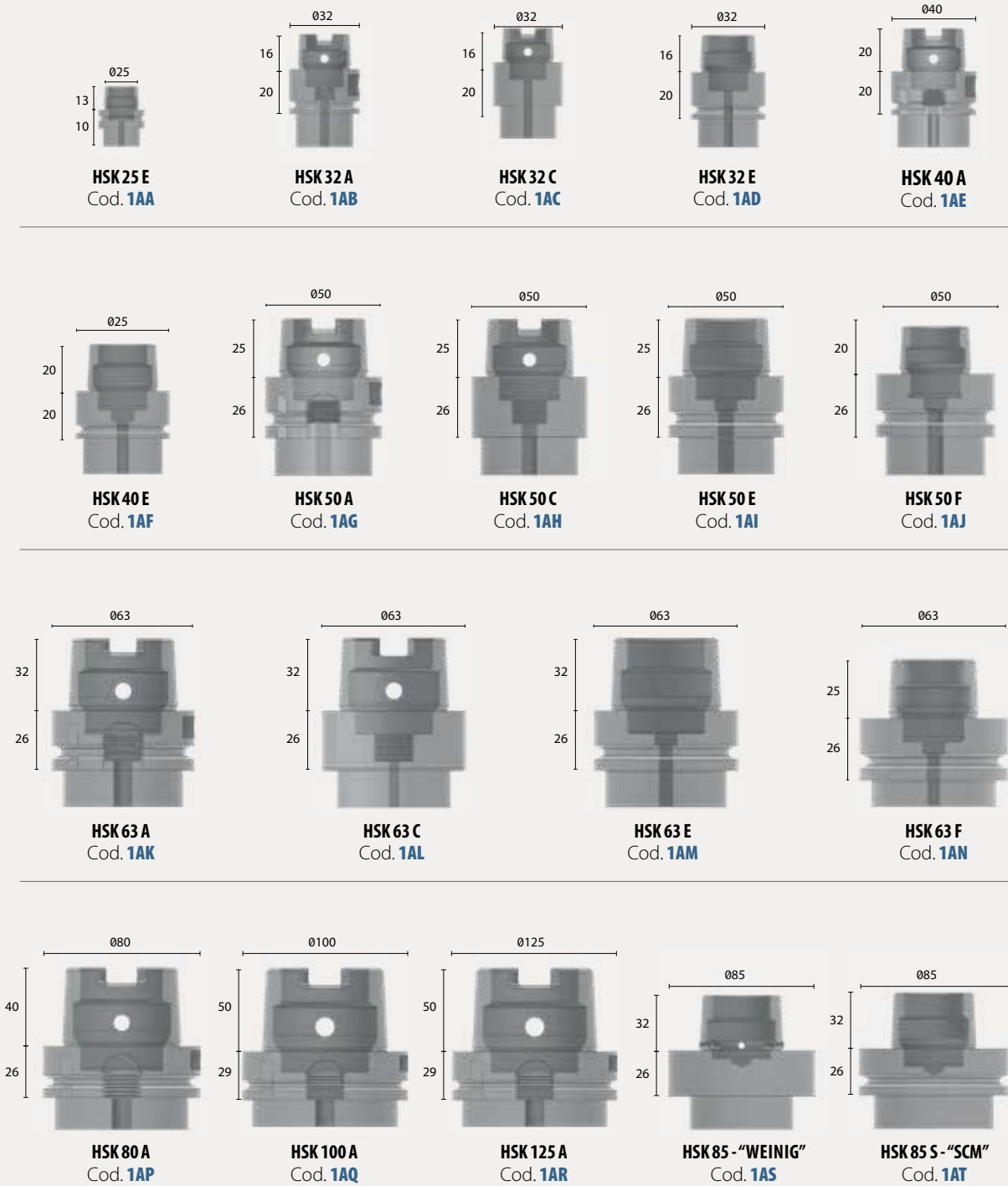
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Part codes for available HSK CONNECTIONS\*

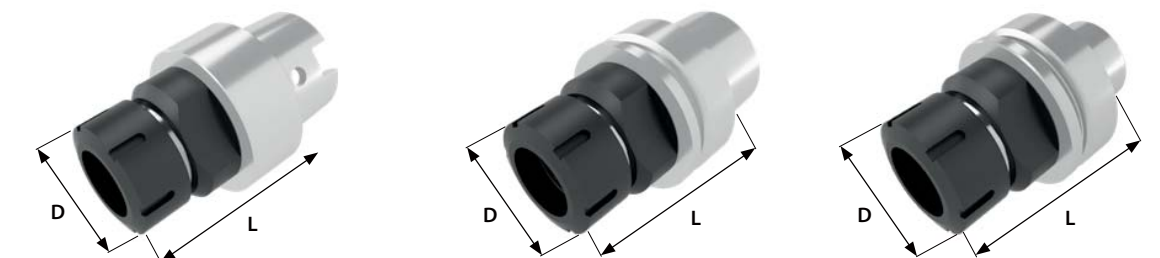
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



Collet chucks RH with collet nut for ER collet DIN 6499/DIN 15488

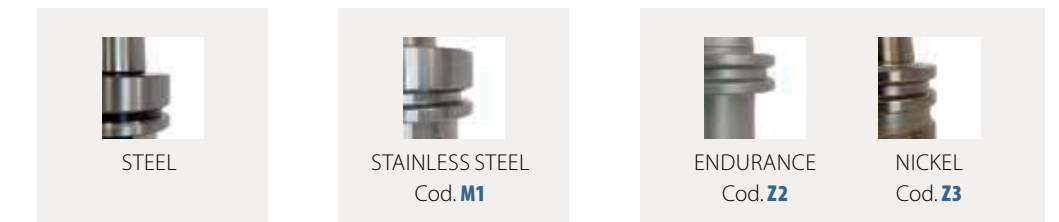
Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



| Part code | Description                   | ER    | D  | L1   | Connection   | Balancing (RPM) |
|-----------|-------------------------------|-------|----|------|--------------|-----------------|
| AA03      | collet chuck with mini nut RH | ER 16 | 22 | 45   | HSK 25 E     | 70.000          |
| AA04      | collet chuck with mini nut RH | ER 16 | 22 | 50   | HSK 32 A-C-E | 50.000          |
| AA05      | collet chuck with mini nut RH | ER 16 | 22 | 60   | HSK 40 E     | 24.000          |
| AA05      | collet chuck with mini nut RH | ER 16 | 22 | 60   | HSK 50 F     | 24.000          |
| AA30      | collet chuck with mini nut RH | ER 16 | 22 | 70   | HSK 63 A-E-F | 24.000          |
| AA06      | collet chuck with nut RH      | ER 16 | 32 | 60   | HSK 40 E     | 24.000          |
| AA06      | collet chuck with nut RH      | ER 16 | 32 | 60   | HSK 50 E-F   | 24.000          |
| AA31      | collet chuck with nut RH      | ER 16 | 32 | 70   | HSK 63 E-F   | 24.000          |
| AA26      | collet chuck with mini nut RH | ER 20 | 28 | 51   | HSK 25 E     | 70.000          |
| AA32      | collet chuck with mini nut RH | ER 20 | 28 | 61   | HSK 32 A-C-E | 50.000          |
| AA07      | collet chuck with mini nut RH | ER 20 | 28 | 60   | HSK 40 A-E   | 24.000          |
| AA07      | collet chuck with mini nut RH | ER 20 | 28 | 60   | HSK 50 A-E   | 24.000          |
| AA07      | collet chuck with mini nut RH | ER 20 | 28 | 60   | HSK 63 A-E-F | 24.000          |
| AA08      | collet chuck with nut RH      | ER 20 | 34 | 60   | HSK 50 E     | 24.000          |
| AA08      | collet chuck with nut RH      | ER 20 | 34 | 60   | HSK 63 A-E-F | 24.000          |
| AA33      | collet chuck with mini nut RH | ER 25 | 35 | 61,5 | HSK 32 A-C-E | 50.000          |
| AA10      | collet chuck with mini nut RH | ER 25 | 35 | 60   | HSK 40 A-E   | 24.000          |
| AA09      | collet chuck with mini nut RH | ER 25 | 35 | 72,5 | HSK 50 A-E   | 24.000          |
| AA09      | collet chuck with nut RH      | ER 25 | 35 | 72,5 | HSK 63 A-E-F | 24.000          |
| AA11      | collet chuck with nut RH      | ER 25 | 42 | 60   | HSK 40 A-E   | 24.000          |
| AA12      | collet chuck with nut RH      | ER 25 | 42 | 72,5 | HSK 50 A     | 24.000          |
| AA34      | collet chuck with nut RH      | ER 25 | 42 | 61,5 | HSK 50 E-F   | 24.000          |
| AA12      | collet chuck with nut RH      | ER 25 | 42 | 72,5 | HSK 63 A-E-F | 24.000          |
| AA13      | collet chuck with nut RH      | ER 32 | 50 | 70   | HSK 40 A-E   | 24.000          |
| AA35      | collet chuck with nut RH      | ER 32 | 50 | 62,5 | HSK 50 E-F   | 24.000          |
| AA13      | collet chuck with nut RH      | ER 32 | 50 | 70   | HSK 50 A     | 24.000          |
| AA14      | collet chuck with nut RH      | ER 32 | 50 | 72,5 | HSK 63 A-E-F | 24.000          |
| AA15      | collet chuck with nut RH      | ER 32 | 50 | 100  | HSK 63 A-E-F | 24.000          |
| AA15      | collet chuck with nut RH      | ER 32 | 50 | 100  | HSK 80 A     | 18.000          |

| Part code | Description              | ER    | D  | L1   | Connection   | Balancing (RPM) |
|-----------|--------------------------|-------|----|------|--------------|-----------------|
| AA15      | collet chuck with nut RH | ER 32 | 50 | 100  | HSK 100 A    | 18.000          |
| AA16      | collet chuck with nut RH | ER 32 | 50 | 120  | HSK 125 A    | 18.000          |
| AA17      | collet chuck with nut RH | ER 32 | 50 | 160  | HSK 63 A-E-F | 24.000          |
| AA17      | collet chuck with nut RH | ER 32 | 50 | 160  | HSK 80 A     | 18.000          |
| AA17      | collet chuck with nut RH | ER 32 | 50 | 160  | HSK 100 A    | 18.000          |
| AA18      | collet chuck with nut RH | ER 40 | 50 | 74,5 | HSK 50 A-E-F | 24.000          |
| AA18      | collet chuck with nut RH | ER 40 | 50 | 74,5 | HSK 63 A-E-F | 24.000          |
| AA19      | collet chuck with nut RH | ER 40 | 50 | 100  | HSK 63 A-E-F | 24.000          |
| AA19      | collet chuck with nut RH | ER 40 | 50 | 100  | HSK 80 A     | 18.000          |
| AA19      | collet chuck with nut RH | ER 40 | 50 | 100  | HSK 100 A    | 18.000          |
| AA20      | collet chuck with nut RH | ER 40 | 50 | 120  | HSK 125 A    | 18.000          |
| AA21      | collet chuck with nut RH | ER 40 | 50 | 160  | HSK 63 A-E-F | 24.000          |
| AA21      | collet chuck with nut RH | ER 40 | 50 | 160  | HSK 80 A     | 18.000          |
| AA21      | collet chuck with nut RH | ER 40 | 50 | 160  | HSK 100 A    | 18.000          |
| AA22      | collet chuck with nut RH | ER 50 | 68 | 130  | HSK 125 A    | 18.000          |

MANUFACTURING MATERIAL    OPTIONAL MATERIAL    OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

Part codes for available HSK CONNECTIONS\*

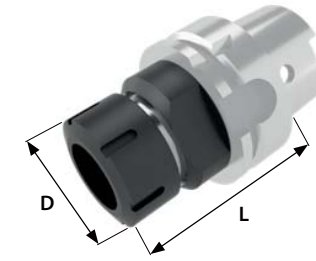
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

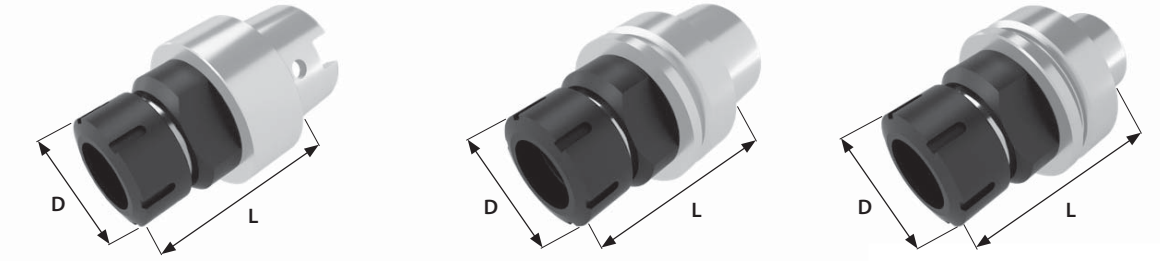


Collet chucks LH with collet nut for ER collet DIN 6499/DIN 15488

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



| Part code | Description                   | ER    | D  | L1   | Connection   | Balancing (RPM) |
|-----------|-------------------------------|-------|----|------|--------------|-----------------|
| AB03      | collet chuck with mini nut LH | ER 16 | 22 | 45   | HSK 25 E     | 70.000          |
| AB04      | collet chuck with mini nut LH | ER 16 | 22 | 50   | HSK 32 A-C-E | 50.000          |
| AB05      | collet chuck with mini nut LH | ER 16 | 22 | 60   | HSK 40 E     | 24.000          |
| AB05      | collet chuck with mini nut LH | ER 16 | 22 | 60   | HSK 50 F     | 24.000          |
| AB30      | collet chuck with mini nut LH | ER 16 | 22 | 70   | HSK 63 A-E-F | 24.000          |
| AB06      | collet chuck with nut LH      | ER 16 | 32 | 60   | HSK 40 E     | 24.000          |
| AB06      | collet chuck with nut LH      | ER 16 | 32 | 60   | HSK 50 E-F   | 24.000          |
| AB31      | collet chuck with nut LH      | ER 16 | 32 | 70   | HSK 63 E-F   | 24.000          |
| AB26      | collet chuck with mini nut LH | ER 20 | 28 | 51   | HSK 25 E     | 70.000          |
| AB32      | collet chuck with mini nut LH | ER 20 | 28 | 61   | HSK 32 A-C-E | 50.000          |
| AB07      | collet chuck with mini nut LH | ER 20 | 28 | 60   | HSK 40 A-E   | 24.000          |
| AB07      | collet chuck with mini nut LH | ER 20 | 28 | 60   | HSK 50 A-E   | 24.000          |
| AB07      | collet chuck with mini nut LH | ER 20 | 28 | 60   | HSK 63 A-E-F | 24.000          |
| AB08      | collet chuck with nut LH      | ER 20 | 34 | 60   | HSK 50 E     | 24.000          |
| AB08      | collet chuck with nut LH      | ER 20 | 34 | 60   | HSK 63 A-E-F | 24.000          |
| AB33      | collet chuck with mini nut LH | ER 25 | 35 | 61,5 | HSK 32 A-C-E | 50.000          |
| AB10      | collet chuck with mini nut LH | ER 25 | 35 | 60   | HSK 40 A-E   | 24.000          |
| AB09      | collet chuck with mini nut LH | ER 25 | 35 | 72,5 | HSK 50 A-E   | 24.000          |
| AB09      | collet chuck with nut LH      | ER 25 | 35 | 72,5 | HSK 63 A-E-F | 24.000          |
| AB11      | collet chuck with nut LH      | ER 25 | 42 | 60   | HSK 40 A-E   | 24.000          |
| AB12      | collet chuck with nut LH      | ER 25 | 42 | 72,5 | HSK 50 A     | 24.000          |
| AB34      | collet chuck with nut LH      | ER 25 | 42 | 61,5 | HSK 50 E-F   | 24.000          |
| AB12      | collet chuck with nut LH      | ER 25 | 42 | 72,5 | HSK 63 A-E-F | 24.000          |
| AB13      | collet chuck with nut LH      | ER 32 | 50 | 70   | HSK 40 A-E   | 24.000          |
| AB35      | collet chuck with nut LH      | ER 32 | 50 | 62,5 | HSK 50 E-F   | 24.000          |
| AB13      | collet chuck with nut LH      | ER 32 | 50 | 70   | HSK 50 A     | 24.000          |
| AB14      | collet chuck with nut LH      | ER 32 | 50 | 72,5 | HSK 63 A-E-F | 24.000          |
| AB15      | collet chuck with nut LH      | ER 32 | 50 | 100  | HSK 63 A-E-F | 24.000          |
| AB15      | collet chuck with nut LH      | ER 32 | 50 | 100  | HSK 80 A     | 18.000          |



| Part code | Description              | ER    | D  | L1   | Connection   | Balancing (RPM) |
|-----------|--------------------------|-------|----|------|--------------|-----------------|
| AB15      | collet chuck with nut LH | ER 32 | 50 | 100  | HSK 100 A    | 18.000          |
| AB16      | collet chuck with nut LH | ER 32 | 50 | 120  | HSK 125 A    | 18.000          |
| AB17      | collet chuck with nut LH | ER 32 | 50 | 160  | HSK 63 A-E-F | 24.000          |
| AB17      | collet chuck with nut LH | ER 32 | 50 | 160  | HSK 80 A     | 18.000          |
| AB17      | collet chuck with nut LH | ER 32 | 50 | 160  | HSK 100 A    | 18.000          |
| AB18      | collet chuck with nut LH | ER 40 | 50 | 74,5 | HSK 50 A-E-F | 24.000          |
| AB18      | collet chuck with nut LH | ER 40 | 50 | 74,5 | HSK 63 A-E-F | 24.000          |
| AB19      | collet chuck with nut LH | ER 40 | 50 | 100  | HSK 63 A-E-F | 24.000          |
| AB19      | collet chuck with nut LH | ER 40 | 50 | 100  | HSK 80 A     | 18.000          |
| AB19      | collet chuck with nut LH | ER 40 | 50 | 100  | HSK 100 A    | 18.000          |
| AB20      | collet chuck with nut LH | ER 40 | 50 | 120  | HSK 125 A    | 18.000          |
| AB21      | collet chuck with nut LH | ER 40 | 50 | 160  | HSK 63 A-E-F | 24.000          |
| AB21      | collet chuck with nut LH | ER 40 | 50 | 160  | HSK 80 A     | 18.000          |
| AB21      | collet chuck with nut LH | ER 40 | 50 | 160  | HSK 100 A    | 18.000          |
| AB22      | collet chuck with nut LH | ER 50 | 68 | 130  | HSK 125 A    | 18.000          |

MANUFACTURING MATERIAL    OPTIONAL MATERIAL    OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

Part codes for available HSK CONNECTIONS\*

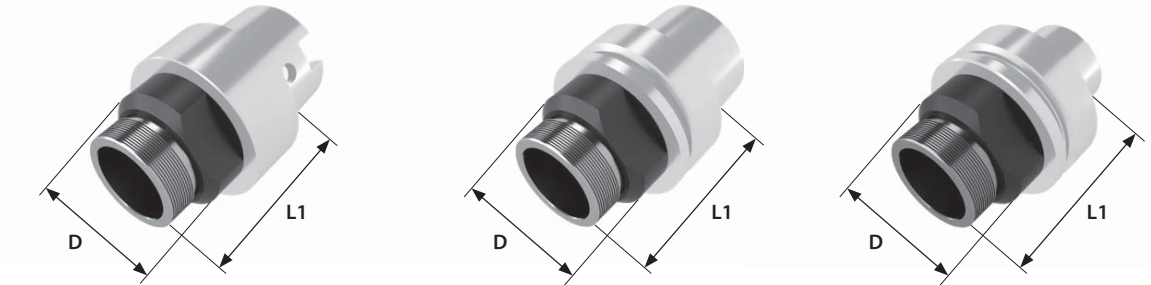
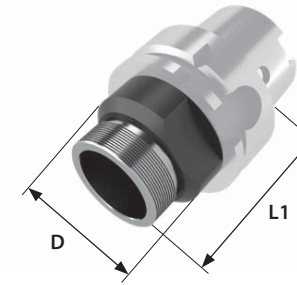
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



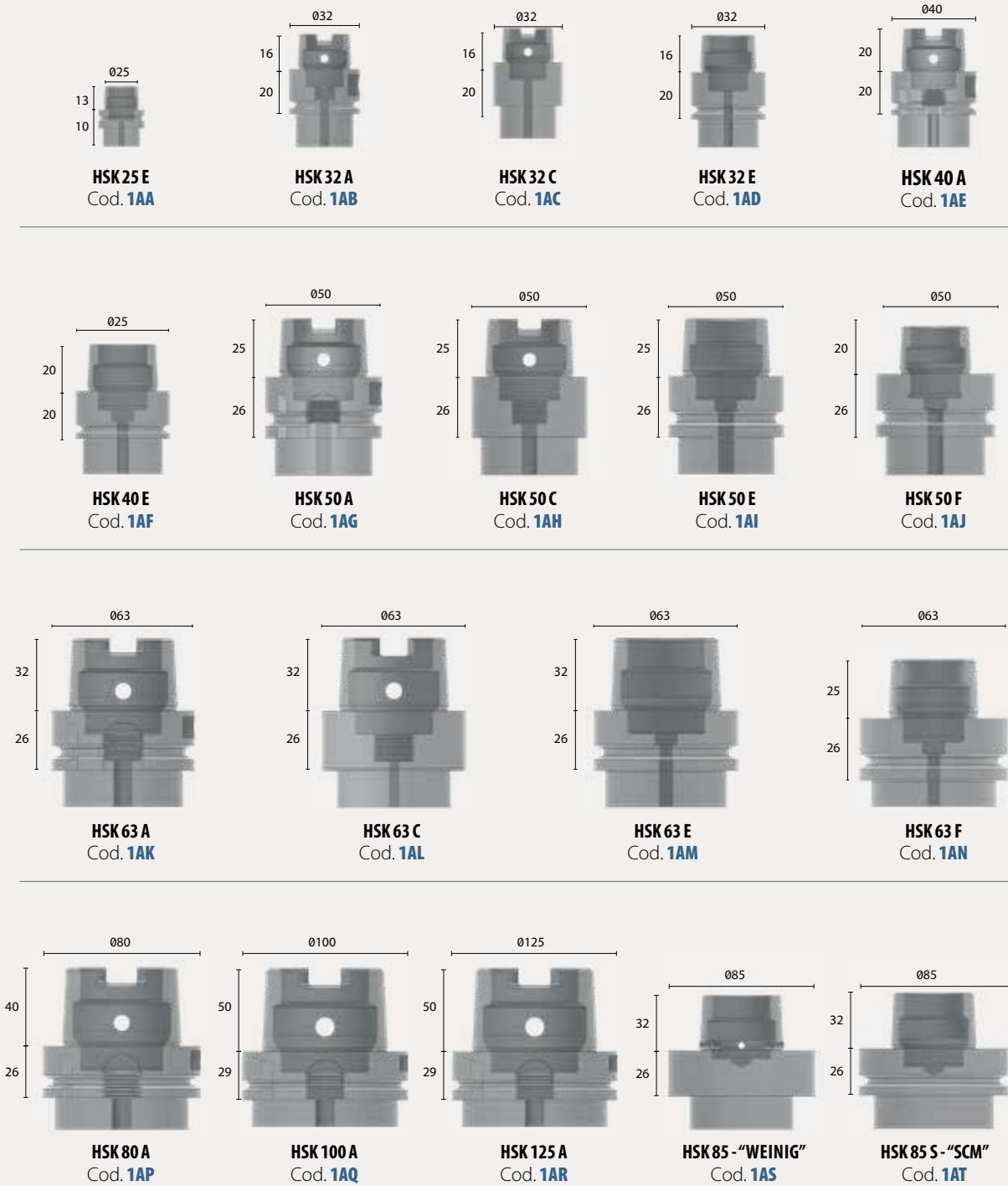
Collet chucks RH without collet nut for ER collet DIN 6499/DIN 15488

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



| Part code | Description                      | ER    | D  | L1   | Connection   | Balancing (RPM) |
|-----------|----------------------------------|-------|----|------|--------------|-----------------|
| AC03      | collet chuck without mini nut RH | ER 16 | 22 | 35   | HSK 25 E     | 70.000          |
| AC04      | collet chuck without mini nut RH | ER 16 | 22 | 40   | HSK 32 A-C-E | 50.000          |
| AC05      | collet chuck without mini nut RH | ER 16 | 22 | 50   | HSK 40 E     | 24.000          |
| AC05      | collet chuck without mini nut RH | ER 16 | 22 | 50   | HSK 50 F     | 24.000          |
| AC30      | collet chuck without mini nut RH | ER 16 | 22 | 60   | HSK 63 A-E-F | 24.000          |
| AC06      | collet chuck without nut RH      | ER 16 | 32 | 50   | HSK 40 E     | 24.000          |
| AC06      | collet chuck without nut RH      | ER 16 | 32 | 50   | HSK 50 E-F   | 24.000          |
| AC31      | collet chuck without nut RH      | ER 16 | 32 | 60   | HSK 63 E-F   | 24.000          |
| AC26      | collet chuck without mini nut RH | ER 20 | 28 | 40   | HSK 25 E     | 70.000          |
| AC32      | collet chuck without mini nut RH | ER 20 | 28 | 50   | HSK 32 A-C-E | 50.000          |
| AC07      | collet chuck without mini nut RH | ER 20 | 28 | 49   | HSK 40 A-E   | 24.000          |
| AC07      | collet chuck without mini nut RH | ER 20 | 28 | 49   | HSK 50 A-E   | 24.000          |
| AC07      | collet chuck without mini nut RH | ER 20 | 28 | 49   | HSK 63 A-E-F | 24.000          |
| AC08      | collet chuck without nut RH      | ER 20 | 34 | 49   | HSK 50 E     | 24.000          |
| AC08      | collet chuck without nut RH      | ER 20 | 34 | 49   | HSK 63 A-E-F | 24.000          |
| AC33      | collet chuck without mini nut RH | ER 25 | 35 | 50   | HSK 32 A-C-E | 50.000          |
| AC10      | collet chuck without mini nut RH | ER 25 | 35 | 48,5 | HSK 40 A-E   | 24.000          |
| AC09      | collet chuck without mini nut RH | ER 25 | 35 | 61   | HSK 50 A-E   | 24.000          |
| AC09      | collet chuck without mini nut RH | ER 25 | 35 | 61   | HSK 63 A-E-F | 24.000          |
| AC11      | collet chuck without nut RH      | ER 25 | 42 | 48,5 | HSK 40 A-E   | 24.000          |
| AC12      | collet chuck without nut RH      | ER 25 | 42 | 61   | HSK 50 A     | 24.000          |
| AC34      | collet chuck without nut RH      | ER 25 | 42 | 50   | HSK 50 E-F   | 24.000          |
| AC12      | collet chuck without nut RH      | ER 25 | 42 | 61   | HSK 63 A-E-F | 24.000          |
| AC13      | collet chuck without nut RH      | ER 32 | 50 | 57,5 | HSK 40 A-E   | 24.000          |
| AC35      | collet chuck without nut RH      | ER 32 | 50 | 50   | HSK 50 E-F   | 24.000          |
| AC13      | collet chuck without nut RH      | ER 32 | 50 | 57,5 | HSK 50 A     | 24.000          |
| AC14      | collet chuck without nut RH      | ER 32 | 50 | 60   | HSK 63 A-E-F | 24.000          |
| AC15      | collet chuck without nut RH      | ER 32 | 50 | 87,5 | HSK 63 A-E-F | 24.000          |
| AC15      | collet chuck without nut RH      | ER 32 | 50 | 87,5 | HSK 80 A     | 18.000          |

| Part code | Description                 | ER    | D  | L1    | Connection   | Balancing (RPM) |
|-----------|-----------------------------|-------|----|-------|--------------|-----------------|
| AC15      | collet chuck without nut RH | ER 32 | 50 | 87,5  | HSK 100 A    | 18.000          |
| AC16      | collet chuck without nut RH | ER 32 | 50 | 107,5 | HSK 125 A    | 18.000          |
| AC17      | collet chuck without nut RH | ER 32 | 50 | 147,5 | HSK 63 A-E-F | 24.000          |
| AC17      | collet chuck without nut RH | ER 32 | 50 | 147,5 | HSK 80 A     | 18.000          |
| AC17      | collet chuck without nut RH | ER 32 | 50 | 147,5 | HSK 100 A    | 18.000          |
| AC18      | collet chuck without nut RH | ER 40 | 50 | 60    | HSK 50 A-E-F | 24.000          |
| AC18      | collet chuck without nut RH | ER 40 | 50 | 60    | HSK 63 A-E-F | 24.000          |
| AC19      | collet chuck without nut RH | ER 40 | 50 | 85,5  | HSK 63 A-E-F | 24.000          |
| AC19      | collet chuck without nut RH | ER 40 | 50 | 85,5  | HSK 80 A     | 18.000          |
| AC19      | collet chuck without nut RH | ER 40 | 50 | 85,5  | HSK 100 A    | 18.000          |
| AC20      | collet chuck without nut RH | ER 40 | 50 | 105,5 | HSK 125 A    | 18.000          |
| AC21      | collet chuck without nut RH | ER 40 | 50 | 145,5 | HSK 63 A-E-F | 24.000          |
| AC21      | collet chuck without nut RH | ER 40 | 50 | 145,5 | HSK 80 A     | 18.000          |
| AC21      | collet chuck without nut RH | ER 40 | 50 | 145,5 | HSK 100 A    | 18.000          |
| AC22      | collet chuck without nut RH | ER 50 | 68 | 109   | HSK 125 A    | 18.000          |



● MANUFACTURING MATERIAL ● OPTIONAL MATERIAL ● OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

Part codes for available HSK CONNECTIONS\*

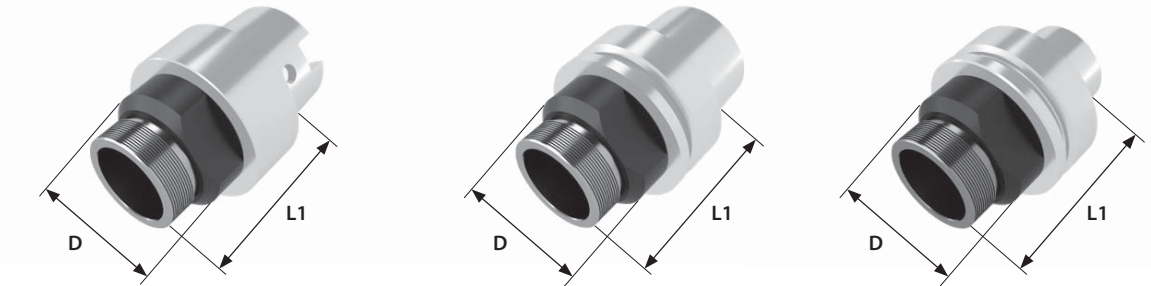
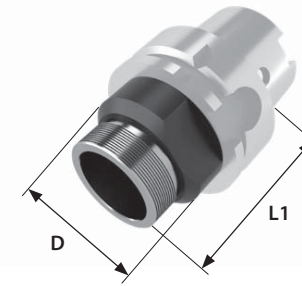
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

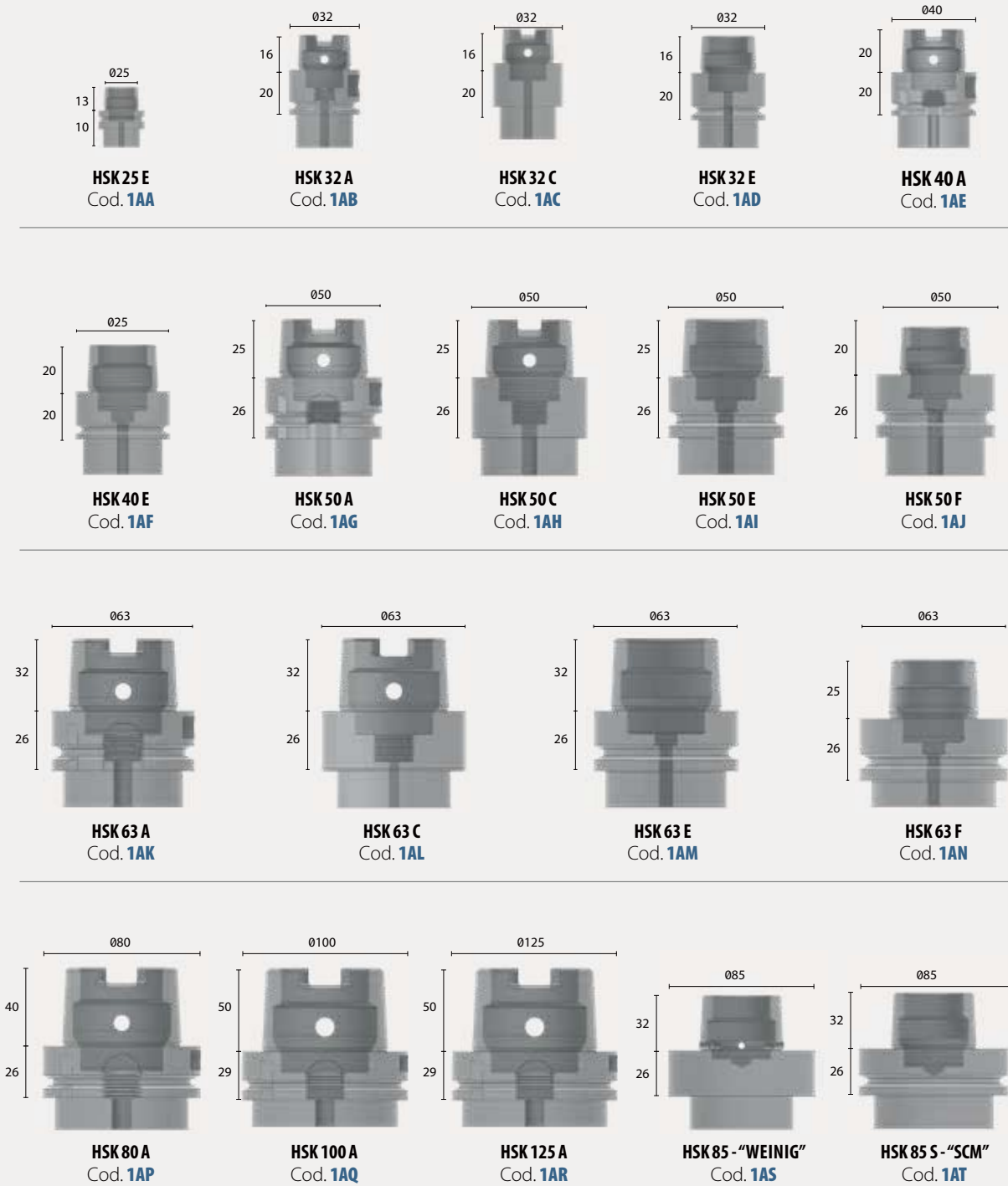


Collet chucks LH without collet nut for ER collet DIN 6499/DIN 15488

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



| Part code | Description                      | ER    | D  | L1   | Connection   | Balancing (RPM) |
|-----------|----------------------------------|-------|----|------|--------------|-----------------|
| AD03      | collet chuck without mini nut LH | ER 16 | 22 | 35   | HSK 25 E     | 70.000          |
| AD04      | collet chuck without mini nut LH | ER 16 | 22 | 40   | HSK 32 A-C-E | 50.000          |
| AD05      | collet chuck without mini nut LH | ER 16 | 22 | 50   | HSK 40 E     | 24.000          |
| AD05      | collet chuck without mini nut LH | ER 16 | 22 | 50   | HSK 50 F     | 24.000          |
| AD30      | collet chuck without mini nut LH | ER 16 | 22 | 60   | HSK 63 A-E-F | 24.000          |
| AD06      | collet chuck without nut LH      | ER 16 | 32 | 50   | HSK 40 E     | 24.000          |
| AD06      | collet chuck without nut LH      | ER 16 | 32 | 50   | HSK 50 E-F   | 24.000          |
| AD31      | collet chuck without nut LH      | ER 16 | 32 | 60   | HSK 63 E-F   | 24.000          |
| AC26      | collet chuck without mini nut LH | ER 20 | 28 | 40   | HSK 25 E     | 70.000          |
| AD32      | collet chuck without mini nut LH | ER 20 | 28 | 50   | HSK 32 A-C-E | 50.000          |
| AD07      | collet chuck without mini nut LH | ER 20 | 28 | 49   | HSK 40 A-E   | 24.000          |
| AD07      | collet chuck without mini nut LH | ER 20 | 28 | 49   | HSK 50 A-E   | 24.000          |
| AD07      | collet chuck without mini nut LH | ER 20 | 28 | 49   | HSK 63 A-E-F | 24.000          |
| AD08      | collet chuck without nut LH      | ER 20 | 34 | 49   | HSK 50 E     | 24.000          |
| AD08      | collet chuck without nut LH      | ER 20 | 34 | 49   | HSK 63 A-E-F | 24.000          |
| AD33      | collet chuck without mini nut LH | ER 25 | 35 | 50   | HSK 32 A-C-E | 50.000          |
| AD10      | collet chuck without mini nut LH | ER 25 | 35 | 48,5 | HSK 40 A-E   | 24.000          |
| AD09      | collet chuck without mini nut LH | ER 25 | 35 | 61   | HSK 50 A-E   | 24.000          |
| AD09      | collet chuck without nut LH      | ER 25 | 35 | 61   | HSK 63 A-E-F | 24.000          |
| AD11      | collet chuck without nut LH      | ER 25 | 42 | 48,5 | HSK 40 A-E   | 24.000          |
| AD12      | collet chuck without nut LH      | ER 25 | 42 | 61   | HSK 50 A     | 24.000          |
| AD34      | collet chuck without nut LH      | ER 25 | 42 | 50   | HSK 50 E-F   | 24.000          |
| AD12      | collet chuck without nut LH      | ER 25 | 42 | 61   | HSK 63 A-E-F | 24.000          |
| AD13      | collet chuck without nut LH      | ER 32 | 50 | 57,5 | HSK 40 A-E   | 24.000          |
| AD35      | collet chuck without nut LH      | ER 32 | 50 | 50   | HSK 50 E-F   | 24.000          |
| AD13      | collet chuck without nut LH      | ER 32 | 50 | 57,5 | HSK 50 A     | 24.000          |
| AD14      | collet chuck without nut LH      | ER 32 | 50 | 60   | HSK 63 A-E-F | 24.000          |
| AD15      | collet chuck without nut LH      | ER 32 | 50 | 87,5 | HSK 63 A-E-F | 24.000          |
| AD15      | collet chuck without nut LH      | ER 32 | 50 | 87,5 | HSK 80 A     | 18.000          |



| Part code | Description                 | ER    | D  | L1    | Connection   | Balancing (RPM) |
|-----------|-----------------------------|-------|----|-------|--------------|-----------------|
| AD15      | collet chuck without nut LH | ER 32 | 50 | 87,5  | HSK 100 A    | 18.000          |
| AD16      | collet chuck without nut LH | ER 32 | 50 | 107,5 | HSK 125 A    | 18.000          |
| AD17      | collet chuck without nut LH | ER 32 | 50 | 147,5 | HSK 63 A-E-F | 24.000          |
| AD17      | collet chuck without nut LH | ER 32 | 50 | 147,5 | HSK 80 A     | 18.000          |
| AD17      | collet chuck without nut LH | ER 32 | 50 | 147,5 | HSK 100 A    | 18.000          |
| AD18      | collet chuck without nut LH | ER 40 | 50 | 60    | HSK 50 A-E-F | 24.000          |
| AD18      | collet chuck without nut LH | ER 40 | 50 | 60    | HSK 63 A-E-F | 24.000          |
| AD19      | collet chuck without nut LH | ER 40 | 50 | 85,5  | HSK 63 A-E-F | 24.000          |
| AD19      | collet chuck without nut LH | ER 40 | 50 | 85,5  | HSK 80 A     | 18.000          |
| AD19      | collet chuck without nut LH | ER 40 | 50 | 85,5  | HSK 100 A    | 18.000          |
| AD20      | collet chuck without nut LH | ER 40 | 50 | 105,5 | HSK 125 A    | 18.000          |
| AD21      | collet chuck without nut LH | ER 40 | 50 | 145,5 | HSK 63 A-E-F | 24.000          |
| AD21      | collet chuck without nut LH | ER 40 | 50 | 145,5 | HSK 80 A     | 18.000          |
| AD21      | collet chuck without nut LH | ER 40 | 50 | 145,5 | HSK 100 A    | 18.000          |
| AD22      | collet chuck without nut LH | ER 50 | 68 | 109   | HSK 125 A    | 18.000          |

● MANUFACTURING MATERIAL   
 ● OPTIONAL MATERIAL   
 ● OPTIONAL FINISHES\*

STEEL

STAINLESS STEEL  
Cod. M1

ENDURANCE  
Cod. Z2

NICKEL  
Cod. Z3

\*By choosing optional materials, the specific hardness may vary.



Part codes for available HSK CONNECTIONS\*

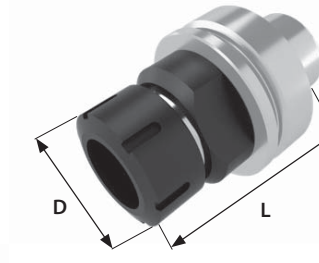
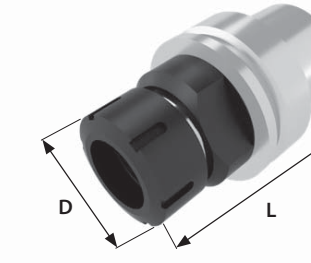
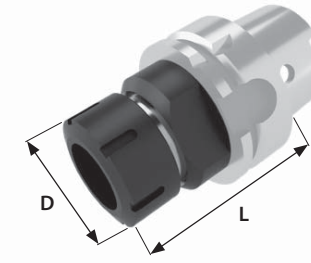
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



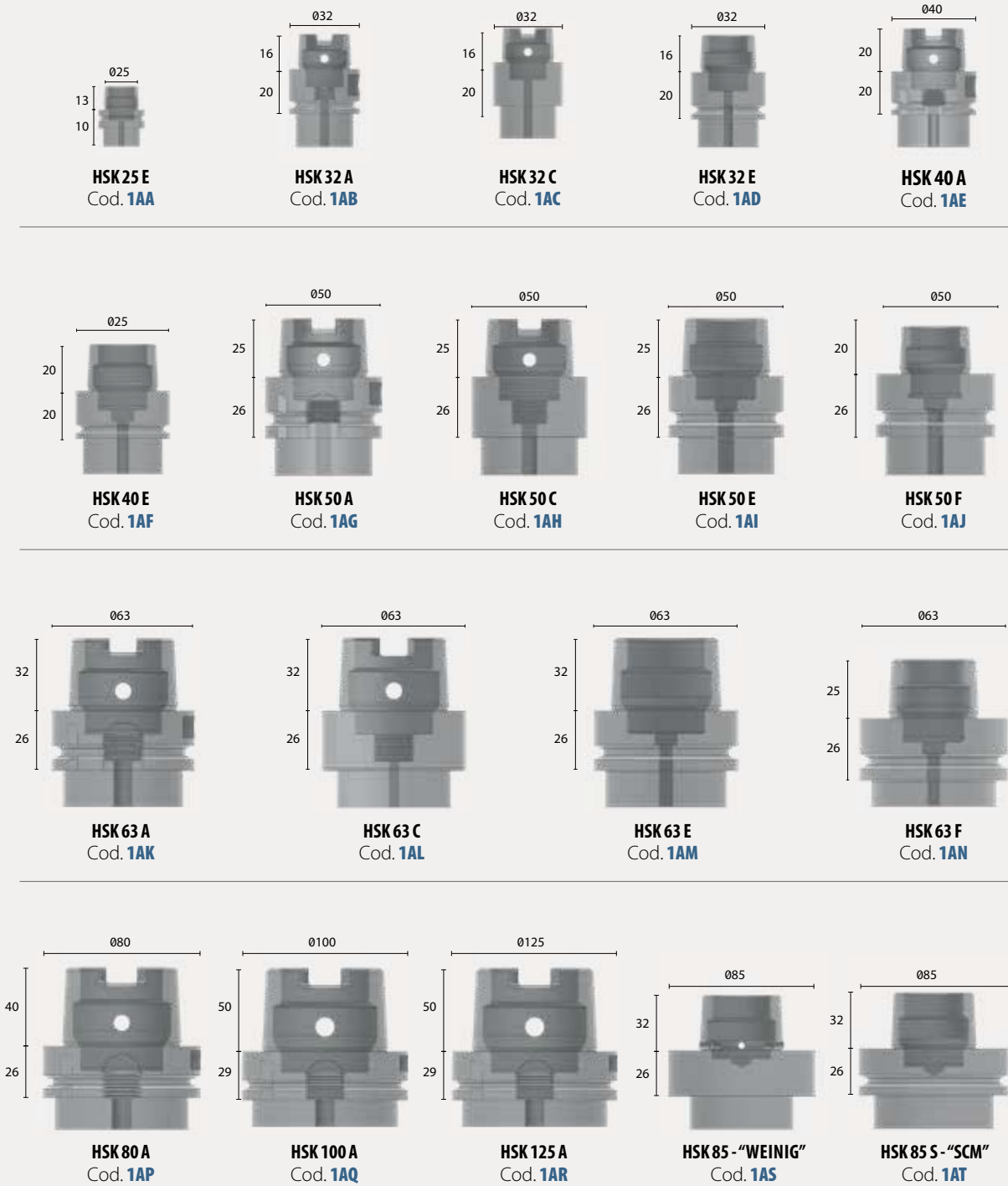
Collet chucks RH/LH with collet nut for collet EOC DIN 6388

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



| Part code   | Description              | EOC    | D  | L1   | Connection          | Balancing (RPM) |
|-------------|--------------------------|--------|----|------|---------------------|-----------------|
| <b>AE00</b> | collet chuck with nut RH | EOC 10 | 30 | 50   | <b>HSK 40 A-E</b>   | 24.000          |
| <b>AE01</b> | collet chuck with nut RH | EOC 12 | 35 | 50   | <b>HSK 50 A-E-F</b> | 24.000          |
| <b>AE02</b> | collet chuck with nut RH | EOC 16 | 43 | 50   | <b>HSK 50 A-E-F</b> | 24.000          |
| <b>AE02</b> | collet chuck with nut RH | EOC 16 | 43 | 50   | <b>HSK 63 A-E-F</b> | 24.000          |
| <b>AE03</b> | collet chuck with nut RH | EOC 20 | 50 | 60   | <b>HSK 50 A-E-F</b> | 24.000          |
| <b>AE03</b> | collet chuck with nut RH | EOC 20 | 50 | 60   | <b>HSK 63 A-E-F</b> | 24.000          |
| <b>AE04</b> | collet chuck with nut RH | EOC 25 | 60 | 76,5 | <b>HSK 63 A-E-F</b> | 24.000          |
| <b>AE05</b> | collet chuck with nut RH | EOC 25 | 60 | 115  | <b>HSK 63 A-E-F</b> | 24.000          |
| <b>AE06</b> | collet chuck with nut RH | EOC 32 | 72 | 80   | <b>HSK 63 E-F</b>   | 24.000          |
| <b>AE07</b> | collet chuck with nut RH | EOC 40 | 85 | 100  | <b>HSK 63 E-F</b>   | 24.000          |

| Part code   | Description              | EOC    | D  | L1   | Connection          | Balancing (RPM) |
|-------------|--------------------------|--------|----|------|---------------------|-----------------|
| <b>AF00</b> | collet chuck with nut LH | EOC 10 | 30 | 50   | <b>HSK 40 A-E</b>   | 24.000          |
| <b>AF01</b> | collet chuck with nut LH | EOC 12 | 35 | 50   | <b>HSK 50 A-E-F</b> | 24.000          |
| <b>AF02</b> | collet chuck with nut LH | EOC 16 | 43 | 50   | <b>HSK 50 A-E-F</b> | 24.000          |
| <b>AF02</b> | collet chuck with nut LH | EOC 16 | 43 | 50   | <b>HSK 63 A-E-F</b> | 24.000          |
| <b>AF03</b> | collet chuck with nut LH | EOC 20 | 50 | 60   | <b>HSK 50 A-E-F</b> | 24.000          |
| <b>AF03</b> | collet chuck with nut LH | EOC 20 | 50 | 60   | <b>HSK 63 A-E-F</b> | 24.000          |
| <b>AF04</b> | collet chuck with nut LH | EOC 25 | 60 | 76,5 | <b>HSK 63 A-E-F</b> | 24.000          |
| <b>AF05</b> | collet chuck with nut LH | EOC 25 | 60 | 115  | <b>HSK 63 A-E-F</b> | 24.000          |
| <b>AF06</b> | collet chuck with nut LH | EOC 32 | 72 | 80   | <b>HSK 63 E-F</b>   | 24.000          |
| <b>AF07</b> | collet chuck with nut LH | EOC 40 | 85 | 100  | <b>HSK 63 E-F</b>   | 24.000          |



MANUFACTURING MATERIAL    OPTIONAL MATERIAL    OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

Part codes for available HSK CONNECTIONS\*

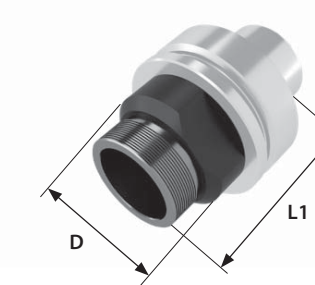
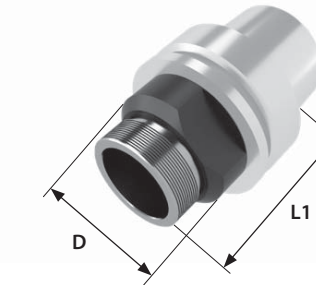
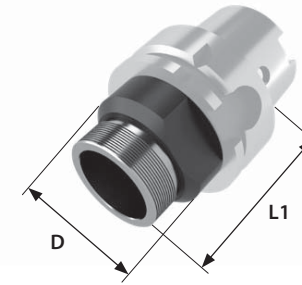
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



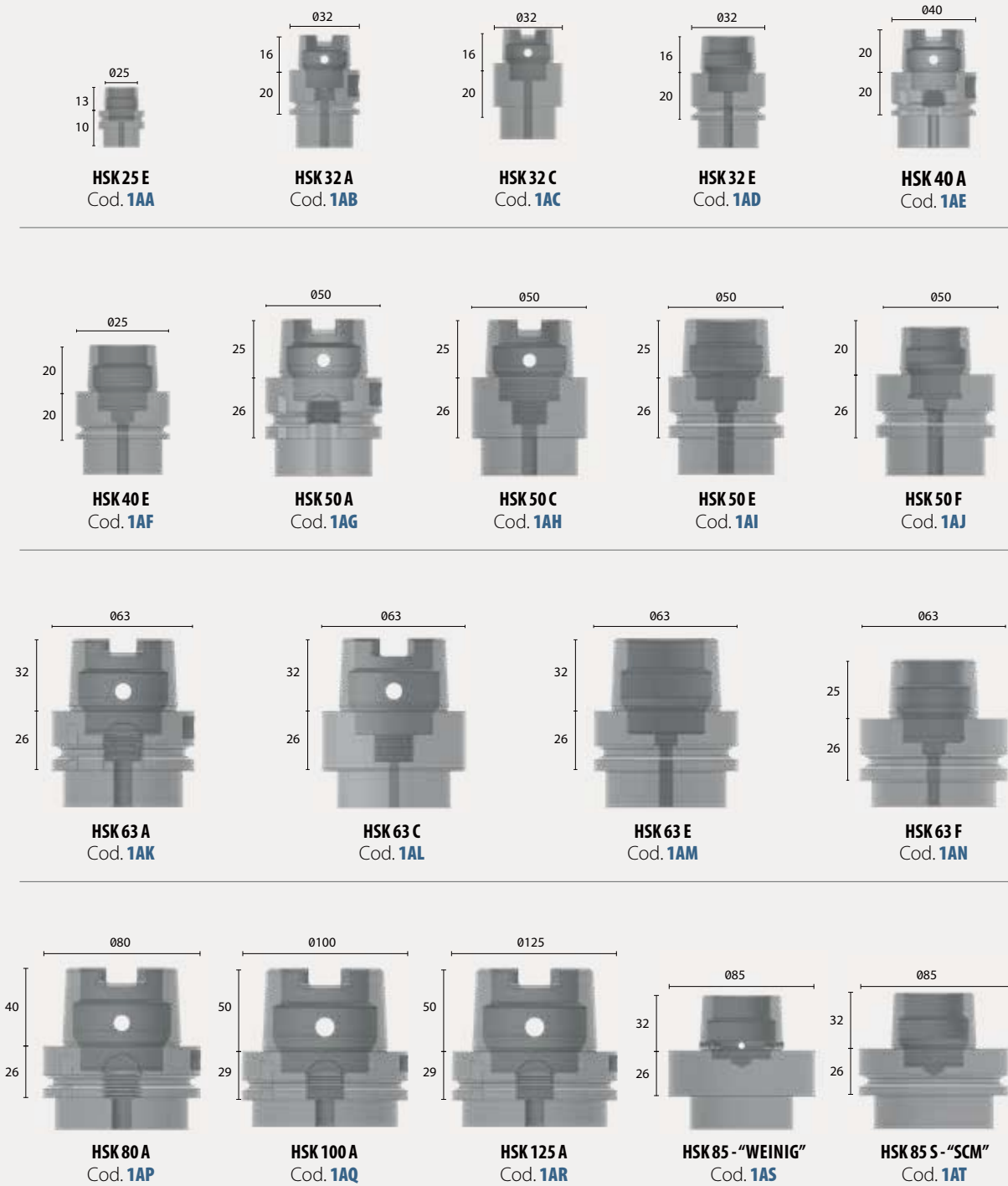
Collet chucks RH/LH without collet nut for collet EOC DIN 6388

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



| Part code | Description                 | EOC    | D  | L1   | Connection   | Balancing (RPM) |
|-----------|-----------------------------|--------|----|------|--------------|-----------------|
| AG00      | collet chuck without nut RH | EOC 10 | 30 | 41   | HSK 40 A-E   | 24.000          |
| AG01      | collet chuck without nut RH | EOC 12 | 35 | 40,5 | HSK 50 A-E-F | 24.000          |
| AG02      | collet chuck without nut RH | EOC 16 | 43 | 39   | HSK 50 A-E-F | 24.000          |
| AG02      | collet chuck without nut RH | EOC 16 | 43 | 39   | HSK 63 A-E-F | 24.000          |
| AG03      | collet chuck without nut RH | EOC 20 | 50 | 48   | HSK 50 A-E-F | 24.000          |
| AG03      | collet chuck without nut RH | EOC 20 | 50 | 48   | HSK 63 A-E-F | 24.000          |
| AG04      | collet chuck without nut RH | EOC 25 | 60 | 60   | HSK 63 A-E-F | 24.000          |
| AG05      | collet chuck without nut RH | EOC 25 | 60 | 98,5 | HSK 63 A-E-F | 24.000          |
| AG06      | collet chuck without nut RH | EOC 32 | 72 | 67   | HSK 63 E-F   | 24.000          |
| AG07      | collet chuck without nut RH | EOC 40 | 85 | 86   | HSK 63 E-F   | 24.000          |

| Part code | Description                 | EOC    | D  | L1   | Connection   | Balancing (RPM) |
|-----------|-----------------------------|--------|----|------|--------------|-----------------|
| AH00      | collet chuck without nut LH | EOC 10 | 30 | 41   | HSK 40 A-E   | 24.000          |
| AH01      | collet chuck without nut LH | EOC 12 | 35 | 40,5 | HSK 50 A-E-F | 24.000          |
| AH02      | collet chuck without nut LH | EOC 16 | 43 | 39   | HSK 50 A-E-F | 24.000          |
| AH02      | collet chuck without nut LH | EOC 16 | 43 | 39   | HSK 63 A-E-F | 24.000          |
| AH03      | collet chuck without nut LH | EOC 20 | 50 | 48   | HSK 50 A-E-F | 24.000          |
| AH03      | collet chuck without nut LH | EOC 20 | 50 | 48   | HSK 63 A-E-F | 24.000          |
| AH04      | collet chuck without nut LH | EOC 25 | 60 | 60   | HSK 63 A-E-F | 24.000          |
| AH05      | collet chuck without nut LH | EOC 25 | 60 | 98,5 | HSK 63 A-E-F | 24.000          |
| AH06      | collet chuck without nut LH | EOC 32 | 72 | 67   | HSK 63 E-F   | 24.000          |
| AH07      | collet chuck without nut LH | EOC 40 | 85 | 86   | HSK 63 E-F   | 24.000          |



MANUFACTURING MATERIAL • OPTIONAL MATERIAL • OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

Part codes for available HSK CONNECTIONS\*

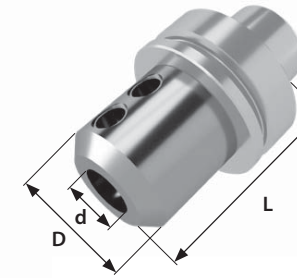
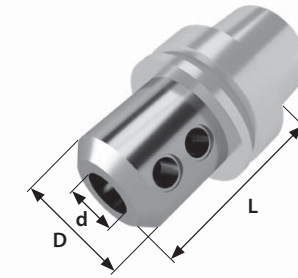
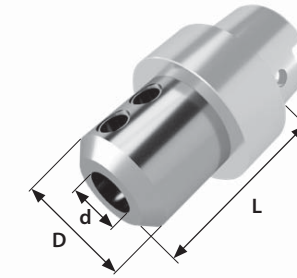
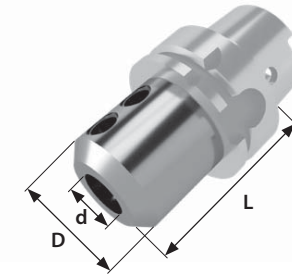
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



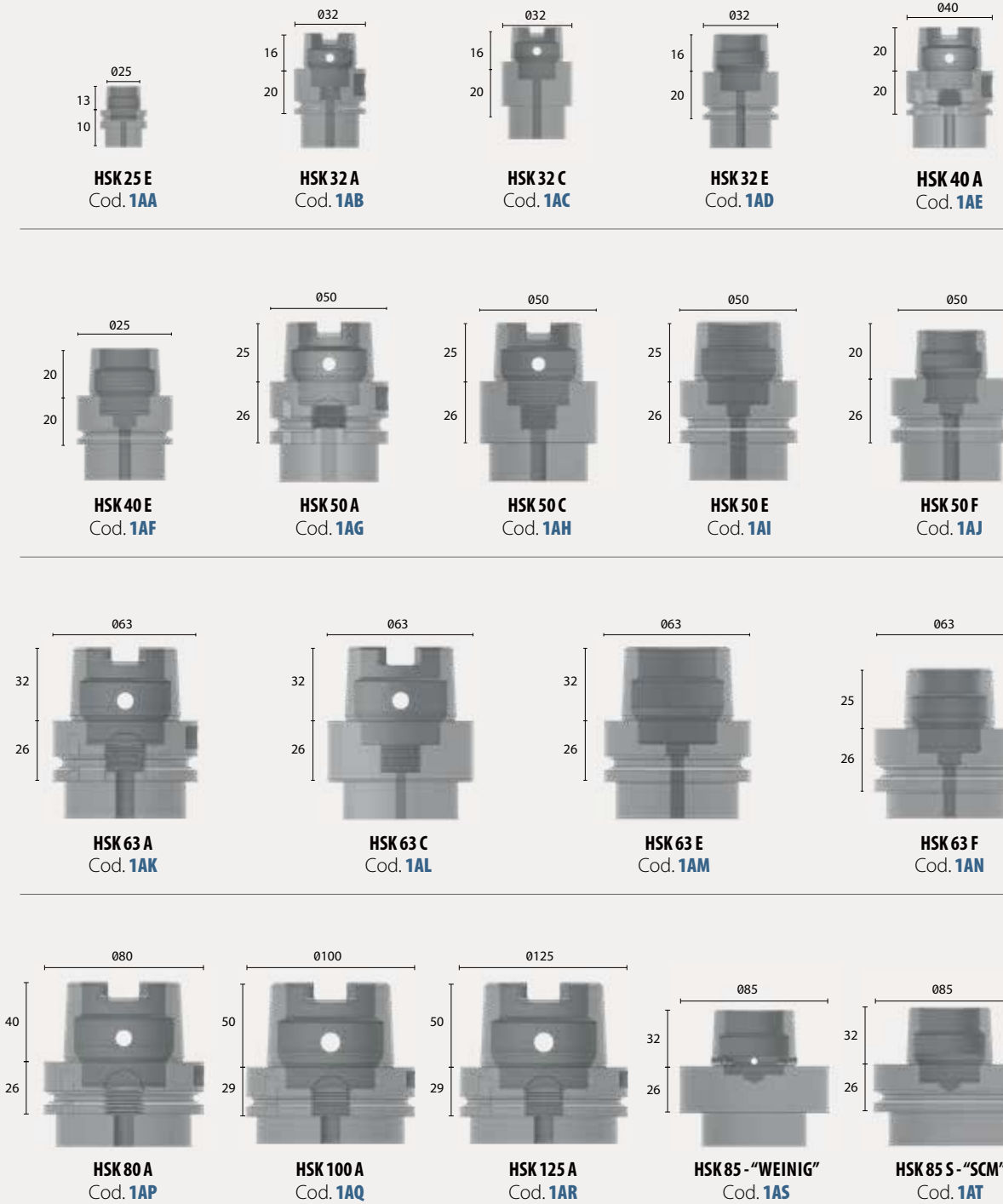
End mill holders DIN 1835/B

End Mill Holders are affordable, quick to install, and easy to use. An optimal choice for quality and price for lower speed operations.



| Part code | Description     | D  | d  | L   | Connection   | Balancing (RPM) |
|-----------|-----------------|----|----|-----|--------------|-----------------|
| AJ00      | end mill holder | 25 | 6  | 50  | HSK 32 A     | 50.000          |
| AJ01      | end mill holder | 25 | 6  | 70  | HSK 40 A-E   | 24.000          |
| AJ01      | end mill holder | 25 | 6  | 70  | HSK 50 A-E-F | 24.000          |
| AJ01      | end mill holder | 25 | 6  | 70  | HSK 63 A-E-F | 24.000          |
| AJ01      | end mill holder | 25 | 6  | 70  | HSK 80 A     | 18.000          |
| AJ01      | end mill holder | 25 | 6  | 70  | HSK 100 A    | 18.000          |
| AJ02      | end mill holder | 28 | 8  | 70  | HSK 40 A-E   | 24.000          |
| AJ02      | end mill holder | 28 | 8  | 70  | HSK 50 A-E-F | 24.000          |
| AJ02      | end mill holder | 28 | 8  | 70  | HSK 63 A-E-F | 24.000          |
| AJ02      | end mill holder | 28 | 8  | 70  | HSK 80 A     | 18.000          |
| AJ02      | end mill holder | 28 | 8  | 70  | HSK 100 A    | 18.000          |
| AJ03      | end mill holder | 35 | 10 | 70  | HSK 40 A-E   | 24.000          |
| AJ03      | end mill holder | 35 | 10 | 70  | HSK 50 A-E-F | 24.000          |
| AJ03      | end mill holder | 35 | 10 | 70  | HSK 63 A-E-F | 24.000          |
| AJ17      | end mill holder | 35 | 10 | 80  | HSK 80 A     | 18.000          |
| AJ17      | end mill holder | 35 | 10 | 80  | HSK 100 A    | 18.000          |
| AJ04      | end mill holder | 42 | 12 | 70  | HSK 50 A-E-F | 24.000          |
| AJ04      | end mill holder | 42 | 12 | 70  | HSK 63 A-E-F | 24.000          |
| AJ18      | end mill holder | 42 | 12 | 80  | HSK 80 A     | 18.000          |
| AJ18      | end mill holder | 42 | 12 | 80  | HSK 100 A    | 18.000          |
| AJ05      | end mill holder | 44 | 14 | 70  | HSK 50 A-E-F | 24.000          |
| AJ05      | end mill holder | 44 | 14 | 70  | HSK 63 A-E-F | 24.000          |
| AJ19      | end mill holder | 44 | 14 | 100 | HSK 80 A     | 18.000          |
| AJ19      | end mill holder | 44 | 14 | 100 | HSK 100 A    | 18.000          |
| AJ06      | end mill holder | 48 | 16 | 70  | HSK 50 A-E-F | 24.000          |
| AJ06      | end mill holder | 48 | 16 | 70  | HSK 63 A-E-F | 24.000          |
| AJ20      | end mill holder | 48 | 16 | 100 | HSK 80 A     | 18.000          |
| AJ20      | end mill holder | 48 | 16 | 100 | HSK 100 A    | 18.000          |

| Part code | Description     | D  | d  | L   | Connection   | Balancing (RPM) |
|-----------|-----------------|----|----|-----|--------------|-----------------|
| AJ08      | end mill holder | 50 | 18 | 70  | HSK 50 A-E-F | 24.000          |
| AJ08      | end mill holder | 50 | 18 | 70  | HSK 63 A-E-F | 24.000          |
| AJ21      | end mill holder | 50 | 18 | 100 | HSK 80 A     | 18.000          |
| AJ21      | end mill holder | 50 | 18 | 100 | HSK 100 A    | 18.000          |
| AJ10      | end mill holder | 52 | 20 | 70  | HSK 50 A-E-F | 24.000          |
| AJ10      | end mill holder | 52 | 20 | 70  | HSK 63 A-E-F | 24.000          |
| AJ11      | end mill holder | 52 | 20 | 100 | HSK 80 A     | 18.000          |
| AJ11      | end mill holder | 52 | 20 | 100 | HSK 100 A    | 18.000          |
| AJ12      | end mill holder | 65 | 25 | 110 | HSK 63 A-E-F | 24.000          |
| AJ12      | end mill holder | 65 | 25 | 110 | HSK 80 A     | 18.000          |
| AJ12      | end mill holder | 65 | 25 | 110 | HSK 100 A    | 18.000          |
| AJ13      | end mill holder | 72 | 32 | 110 | HSK 63 A-E-F | 24.000          |
| AJ14      | end mill holder | 72 | 32 | 120 | HSK 80 A     | 18.000          |
| AJ14      | end mill holder | 72 | 32 | 120 | HSK 100 A    | 18.000          |
| AJ15      | end mill holder | 80 | 40 | 120 | HSK 63 A-E-F | 24.000          |
| AJ15      | end mill holder | 80 | 40 | 120 | HSK 80 A     | 18.000          |
| AJ15      | end mill holder | 80 | 40 | 120 | HSK 100 A    | 18.000          |
| AJ15      | end mill holder | 80 | 40 | 120 | HSK 125 A    | 18.000          |
| AJ16      | end mill holder | 97 | 50 | 140 | HSK 80 A     | 18.000          |
| AJ16      | end mill holder | 97 | 50 | 140 | HSK 100 A    | 18.000          |
| AJ16      | end mill holder | 97 | 50 | 140 | HSK 125 A    | 18.000          |



MANUFACTURING MATERIAL



Part codes for available HSK CONNECTIONS\*

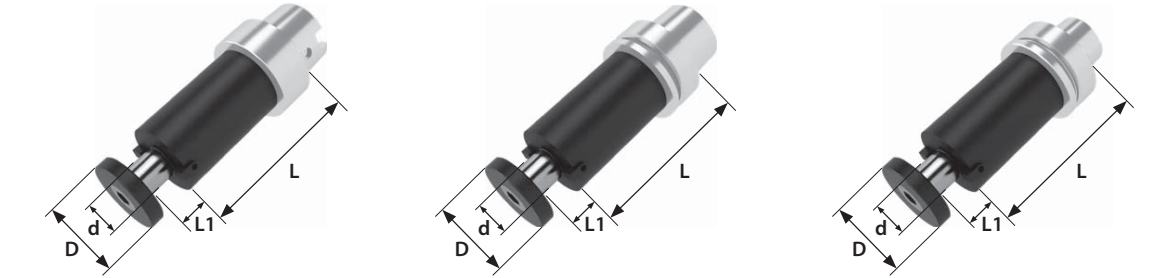
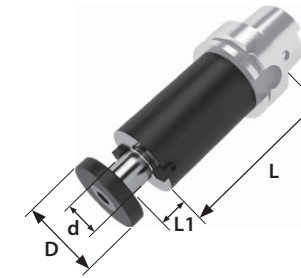
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



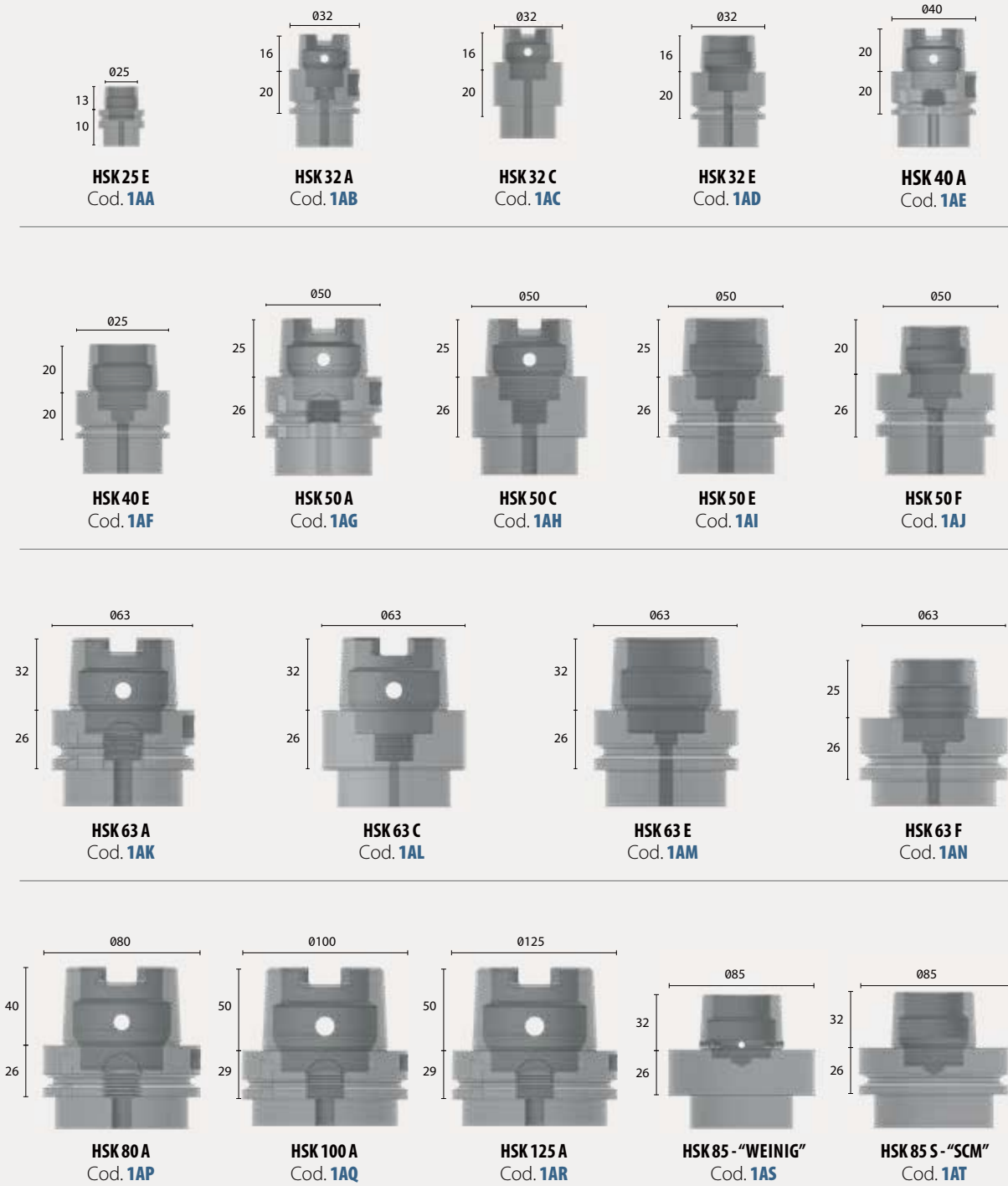
Face Mill holders DIN 6357

Traditional locking system for metalworking mills, the tool is held in place with spacer rings, closing washer and screw.



| Part code | Description      | D  | d  | L1 | L   | Connection   | Balancing (RPM) |
|-----------|------------------|----|----|----|-----|--------------|-----------------|
| AK00      | face mill holder | 39 | 16 | 17 | 50  | HSK 32 A     | 50.000          |
| AK00      | face mill holder | 39 | 16 | 17 | 50  | HSK 40 A-E   | 24.000          |
| AK00      | face mill holder | 39 | 16 | 17 | 50  | HSK 50 A-E-F | 24.000          |
| AK00      | face mill holder | 39 | 16 | 17 | 50  | HSK 63 A-E-F | 24.000          |
| AK01      | face mill holder | 48 | 22 | 19 | 50  | HSK 40 A-E   | 24.000          |
| AK01      | face mill holder | 48 | 22 | 19 | 50  | HSK 50 A-E-F | 24.000          |
| AK02      | face mill holder | 48 | 22 | 19 | 70  | HSK 63 A-E-F | 24.000          |
| AK03      | face mill holder | 48 | 22 | 19 | 100 | HSK 80 A     | 18.000          |
| AK03      | face mill holder | 48 | 22 | 19 | 100 | HSK 100 A    | 18.000          |
| AK04      | face mill holder | 55 | 27 | 21 | 70  | HSK 50 A-E-F | 24.000          |
| AK04      | face mill holder | 55 | 27 | 21 | 70  | HSK 63 A-E-F | 24.000          |
| AK05      | face mill holder | 55 | 27 | 21 | 90  | HSK 80 A     | 18.000          |
| AK06      | face mill holder | 55 | 27 | 21 | 100 | HSK 100 A    | 18.000          |

| Part code | Description      | D  | d  | L1 | L   | Connection   | Balancing (RPM) |
|-----------|------------------|----|----|----|-----|--------------|-----------------|
| AK07      | face mill holder | 63 | 32 | 24 | 70  | HSK 63 A-E-F | 24.000          |
| AK08      | face mill holder | 63 | 32 | 24 | 100 | HSK 80 A     | 18.000          |
| AK08      | face mill holder | 63 | 32 | 24 | 100 | HSK 100 A    | 18.000          |
| AK08      | face mill holder | 63 | 32 | 24 | 100 | HSK 125 A    | 18.000          |
| AK09      | face mill holder | 78 | 40 | 27 | 70  | HSK 63 A     | 24.000          |
| AK10      | face mill holder | 78 | 40 | 27 | 100 | HSK 80 A     | 18.000          |
| AK10      | face mill holder | 78 | 40 | 27 | 100 | HSK 100 A    | 18.000          |
| AK10      | face mill holder | 78 | 40 | 27 | 100 | HSK 125 A    | 18.000          |



MANUFACTURING MATERIAL



Part codes for available HSK CONNECTIONS\*

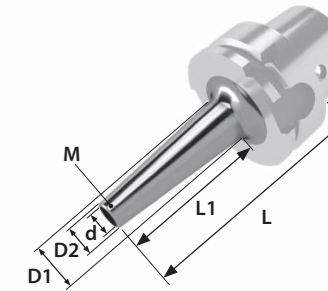
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

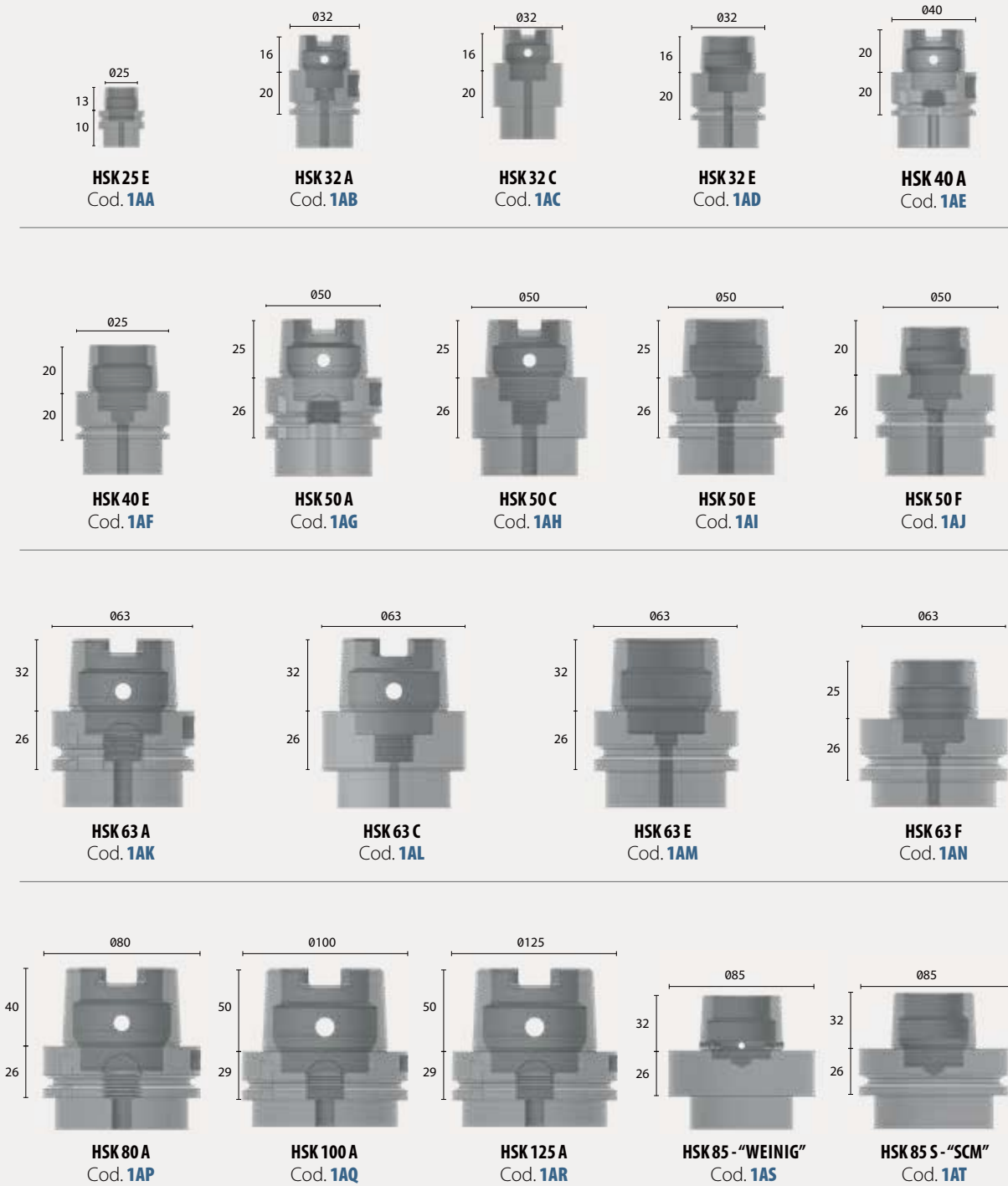
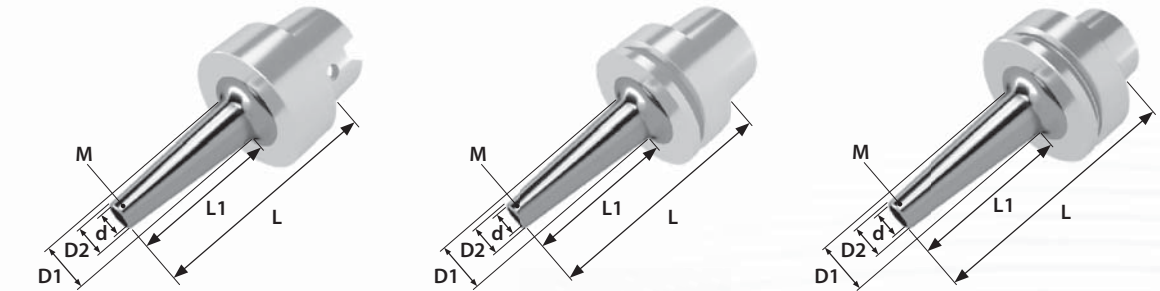


Modular tool holders

The modular tool holders are used in assembly with sharpening mills and drills with a threaded connection.



| Part code | Description         | d    | M   | L   | L1  | D1 | D2 | Connection   | Balancing (RPM) |
|-----------|---------------------|------|-----|-----|-----|----|----|--------------|-----------------|
| AL00      | modular tool holder | 8,5  | M8  | 70  | 50  | 23 | 13 | HSK 40 A-E   | 24.000          |
| AL00      | modular tool holder | 8,5  | M8  | 76  | 50  | 23 | 13 | HSK 50 A-E-F | 24.000          |
| AL01      | modular tool holder | 8,5  | M8  | 126 | 100 | 26 | 13 | HSK 63 A-E-F | 24.000          |
| AL02      | modular tool holder | 10,5 | M10 | 76  | 50  | 23 | 18 | HSK 50 A-E-F | 24.000          |
| AL03      | modular tool holder | 10,5 | M10 | 126 | 100 | 32 | 18 | HSK 63 A-E-F | 24.000          |
| AL04      | modular tool holder | 10,5 | M10 | 159 | 133 | 34 | 18 | HSK 63 A-E-F | 24.000          |
| AL05      | modular tool holder | 12,5 | M12 | 76  | 50  | 24 | 21 | HSK 63 A-E-F | 24.000          |
| AL06      | modular tool holder | 12,5 | M12 | 126 | 100 | 31 | 21 | HSK 80 A     | 18.000          |
| AL07      | modular tool holder | 12,5 | M12 | 194 | 155 | 39 | 21 | HSK 100 A    | 18.000          |
| AL08      | modular tool holder | 17   | M16 | 76  | 50  | 34 | 29 | HSK 63 A-E-F | 24.000          |
| AL09      | modular tool holder | 17   | M16 | 126 | 100 | 36 | 29 | HSK 80 A     | 18.000          |
| AL10      | modular tool holder | 17   | M16 | 194 | 155 | 39 | 29 | HSK 100 A    | 18.000          |
| AL10      | modular tool holder | 17   | M16 | 194 | 155 | 39 | 29 | HSK 125 A    | 18.000          |



MANUFACTURING MATERIAL



Part codes for available HSK CONNECTIONS\*

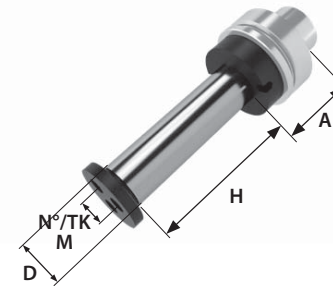
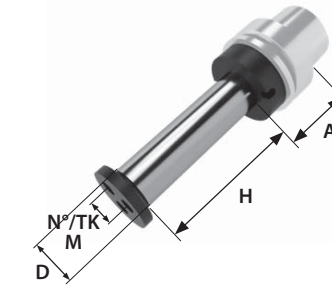
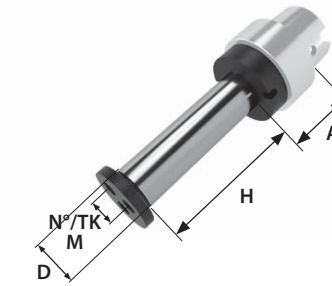
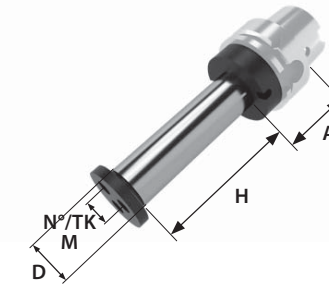
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



Milling arbors

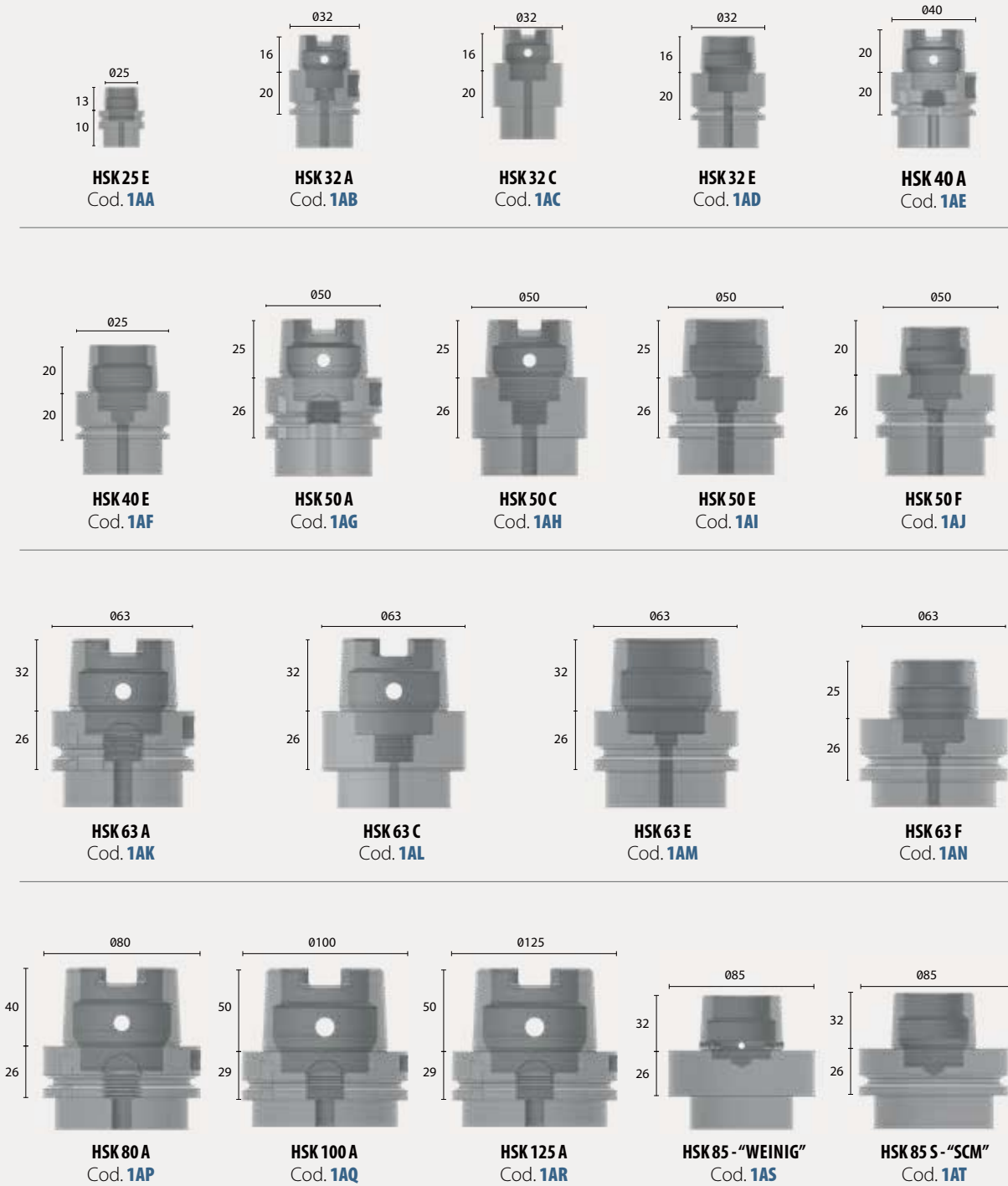
Traditional clamping system for woodworking mills. The tool is held in place by spacer rings, end cap and three locking screws.



| A33       |           | A42           |    |     |    |       |            |                 |  |  |
|-----------|-----------|---------------|----|-----|----|-------|------------|-----------------|--|--|
| Part code | Part code | Description   | D  | H   | M  | N°/TK | Connection | Balancing (RPM) |  |  |
| A000      | A200      | milling arbor | 20 | 70  | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A001      | A201      | milling arbor | 20 | 75  | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A002      | A202      | milling arbor | 20 | 80  | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A003      | A203      | milling arbor | 20 | 85  | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A004      | A204      | milling arbor | 20 | 90  | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A005      | A205      | milling arbor | 20 | 95  | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A006      | A206      | milling arbor | 20 | 100 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A007      | A207      | milling arbor | 20 | 105 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A008      | A208      | milling arbor | 20 | 110 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A009      | A209      | milling arbor | 20 | 115 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A010      | A210      | milling arbor | 20 | 120 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A011      | A211      | milling arbor | 20 | 125 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A012      | A212      | milling arbor | 20 | 130 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A013      | A213      | milling arbor | 20 | 135 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A014      | A214      | milling arbor | 20 | 140 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A015      | A215      | milling arbor | 20 | 145 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A016      | A216      | milling arbor | 20 | 150 | M5 | 3/12  | HSK 50 E-F | 24.000          |  |  |
| A017      | A217      | milling arbor | 20 | 70  | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A018      | A218      | milling arbor | 20 | 75  | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A019      | A219      | milling arbor | 20 | 80  | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A020      | A220      | milling arbor | 20 | 85  | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A021      | A221      | milling arbor | 20 | 90  | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A022      | A222      | milling arbor | 20 | 95  | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A023      | A223      | milling arbor | 20 | 100 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A024      | A224      | milling arbor | 20 | 105 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A025      | A225      | milling arbor | 20 | 110 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A026      | A226      | milling arbor | 20 | 115 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A027      | A227      | milling arbor | 20 | 120 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A028      | A228      | milling arbor | 20 | 125 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |

| A33       |           | A42           |    |     |    |       |            |                 |  |  |
|-----------|-----------|---------------|----|-----|----|-------|------------|-----------------|--|--|
| Part code | Part code | Description   | D  | H   | M  | N°/TK | Connection | Balancing (RPM) |  |  |
| A029      | A229      | milling arbor | 20 | 130 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A030      | A230      | milling arbor | 20 | 135 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A031      | A231      | milling arbor | 20 | 140 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A032      | A232      | milling arbor | 20 | 145 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A033      | A233      | milling arbor | 20 | 150 | M5 | 3/12  | HSK 63 E-F | 24.000          |  |  |
| A034      | A234      | milling arbor | 25 | 70  | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A035      | A235      | milling arbor | 25 | 75  | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A036      | A236      | milling arbor | 25 | 80  | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A037      | A237      | milling arbor | 25 | 85  | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A038      | A238      | milling arbor | 25 | 90  | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A039      | A239      | milling arbor | 25 | 95  | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A040      | A240      | milling arbor | 25 | 100 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A041      | A241      | milling arbor | 25 | 105 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A042      | A242      | milling arbor | 25 | 110 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A043      | A243      | milling arbor | 25 | 115 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A044      | A244      | milling arbor | 25 | 120 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A045      | A245      | milling arbor | 25 | 125 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A046      | A246      | milling arbor | 25 | 130 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A047      | A247      | milling arbor | 25 | 135 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A048      | A248      | milling arbor | 25 | 140 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A049      | A249      | milling arbor | 25 | 145 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |
| A050      | A250      | milling arbor | 25 | 150 | M6 | 3/16  | HSK 63 E-F | 24.000          |  |  |

MANUFACTURING MATERIAL



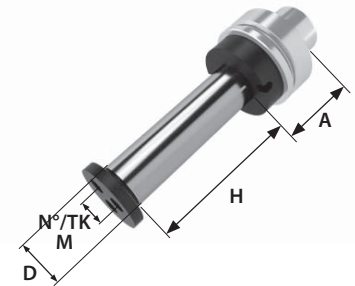
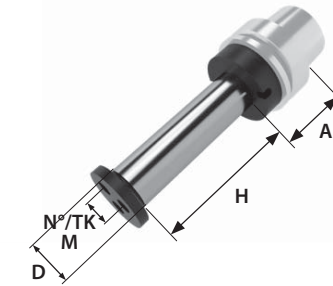
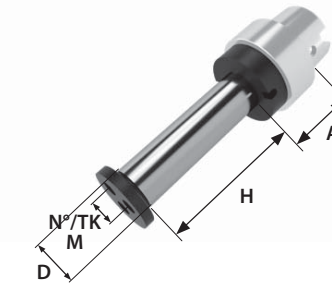
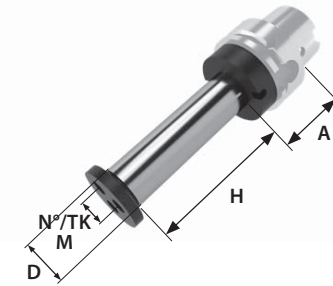
Part codes for available HSK CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

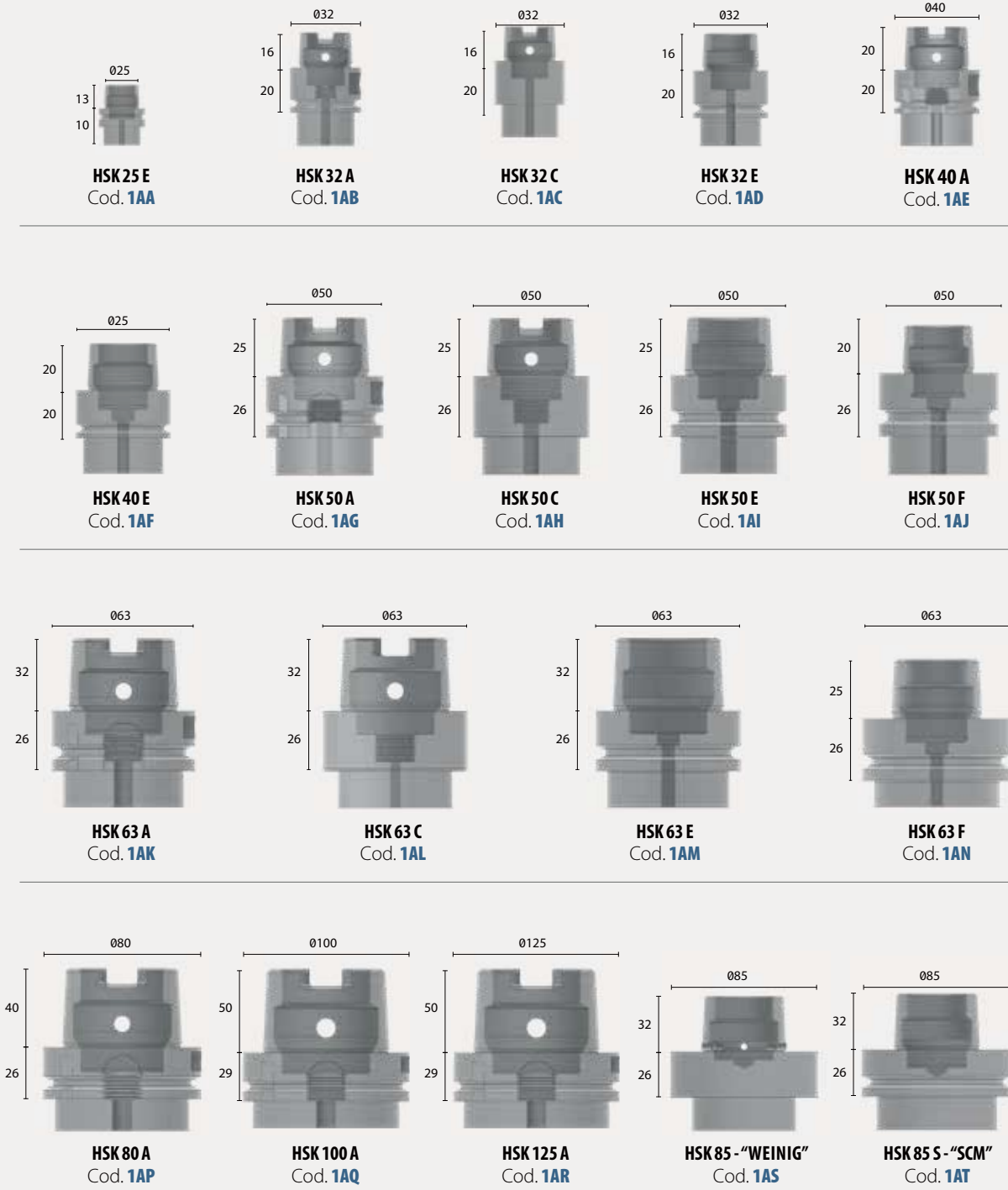


Milling arbors



| A33       |           | A42           |    |     |    |        |            |                 |  |
|-----------|-----------|---------------|----|-----|----|--------|------------|-----------------|--|
| Part code | Part code | Description   | D  | H   | M  | N°/TK  | Connection | Balancing (RPM) |  |
| A051      | A251      | milling arbor | 30 | 70  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A052      | A252      | milling arbor | 30 | 75  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A053      | A253      | milling arbor | 30 | 80  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A054      | A254      | milling arbor | 30 | 85  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A055      | A255      | milling arbor | 30 | 90  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A056      | A256      | milling arbor | 30 | 95  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A057      | A257      | milling arbor | 30 | 100 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A058      | A258      | milling arbor | 30 | 105 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A059      | A259      | milling arbor | 30 | 110 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A060      | A260      | milling arbor | 30 | 115 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A061      | A261      | milling arbor | 30 | 120 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A062      | A262      | milling arbor | 30 | 125 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A063      | A263      | milling arbor | 30 | 130 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A064      | A264      | milling arbor | 30 | 135 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A065      | A265      | milling arbor | 30 | 140 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A066      | A266      | milling arbor | 30 | 145 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A067      | A267      | milling arbor | 30 | 150 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A068      | A268      | milling arbor | 30 | 160 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A069      | A269      | milling arbor | 30 | 170 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A070      | A270      | milling arbor | 30 | 180 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A071      | A271      | milling arbor | 30 | 190 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A072      | A272      | milling arbor | 30 | 200 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A073      | A273      | milling arbor | 30 | 210 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A074      | A274      | milling arbor | 30 | 220 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A075      | A275      | milling arbor | 30 | 230 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A076      | A276      | milling arbor | 30 | 240 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A077      | A277      | milling arbor | 30 | 250 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A078      | A278      | milling arbor | 35 | 70  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A079      | A279      | milling arbor | 35 | 75  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A080      | A280      | milling arbor | 35 | 80  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A081      | A281      | milling arbor | 35 | 85  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A082      | A282      | milling arbor | 35 | 90  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A083      | A283      | milling arbor | 35 | 95  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |

| A33       |           | A42           |    |     |    |        |            |                 |  |
|-----------|-----------|---------------|----|-----|----|--------|------------|-----------------|--|
| Part code | Part code | Description   | D  | H   | M  | N°/TK  | Connection | Balancing (RPM) |  |
| A084      | A284      | milling arbor | 35 | 100 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A085      | A285      | milling arbor | 35 | 105 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A086      | A286      | milling arbor | 35 | 110 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A087      | A287      | milling arbor | 35 | 115 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A088      | A288      | milling arbor | 35 | 120 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A089      | A289      | milling arbor | 35 | 125 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A090      | A290      | milling arbor | 35 | 130 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A091      | A291      | milling arbor | 35 | 135 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A092      | A292      | milling arbor | 35 | 140 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A093      | A293      | milling arbor | 35 | 145 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A094      | A294      | milling arbor | 35 | 150 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A095      | A295      | milling arbor | 35 | 160 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A096      | A296      | milling arbor | 35 | 170 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A097      | A297      | milling arbor | 35 | 180 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A098      | A298      | milling arbor | 35 | 190 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A099      | A299      | milling arbor | 35 | 200 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A100      | A300      | milling arbor | 35 | 210 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A101      | A301      | milling arbor | 35 | 220 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A102      | A302      | milling arbor | 35 | 230 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A103      | A303      | milling arbor | 35 | 240 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A104      | A304      | milling arbor | 35 | 250 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A105      | A305      | milling arbor | 40 | 70  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A106      | A306      | milling arbor | 40 | 75  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A107      | A307      | milling arbor | 40 | 80  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A108      | A308      | milling arbor | 40 | 85  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A109      | A309      | milling arbor | 40 | 90  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A110      | A310      | milling arbor | 40 | 95  | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A111      | A311      | milling arbor | 40 | 100 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A112      | A312      | milling arbor | 40 | 105 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A113      | A313      | milling arbor | 40 | 110 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A114      | A314      | milling arbor | 40 | 115 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A115      | A315      | milling arbor | 40 | 120 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A116      | A316      | milling arbor | 40 | 125 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |

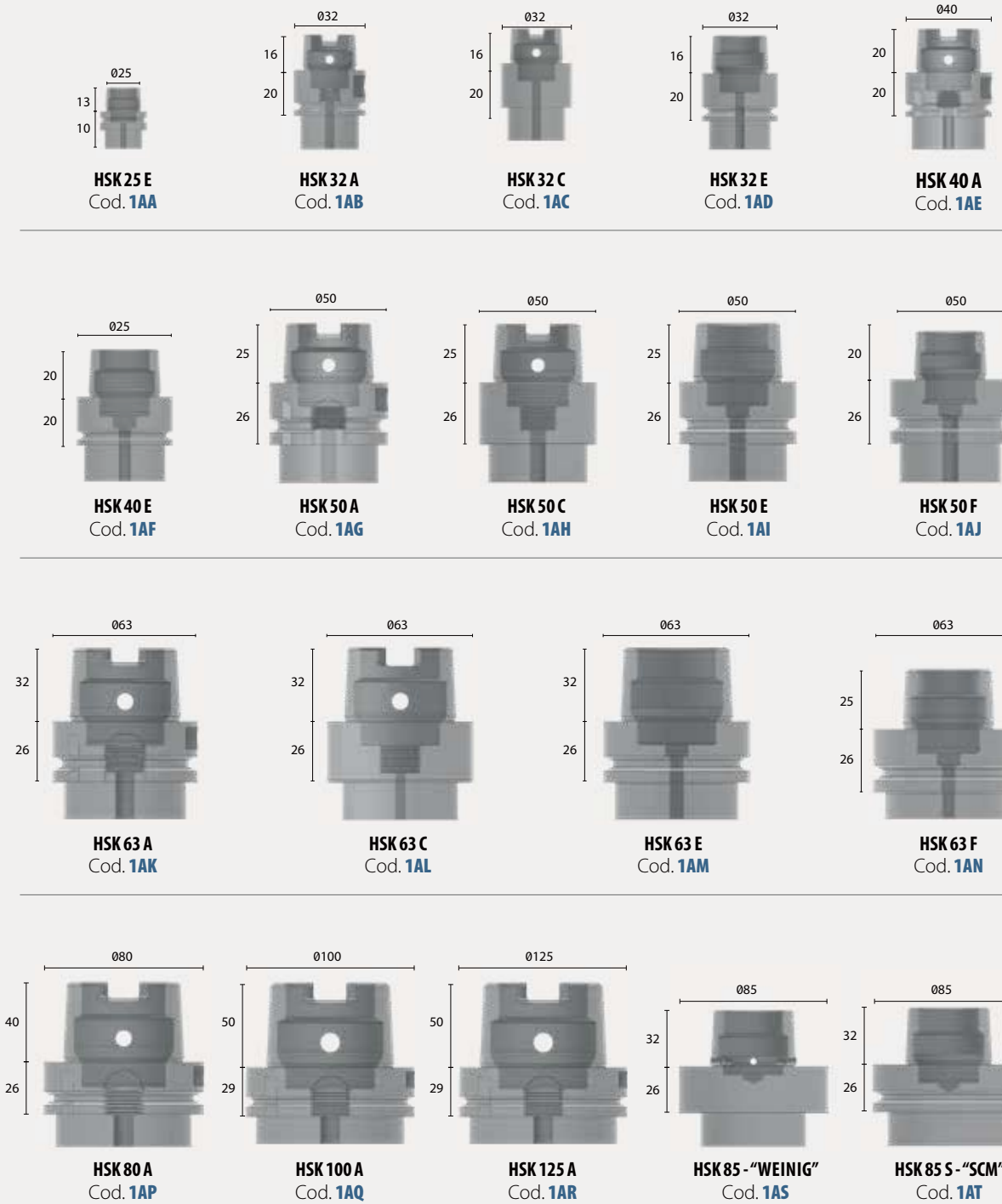


Part codes for available HSK CONNECTIONS\*

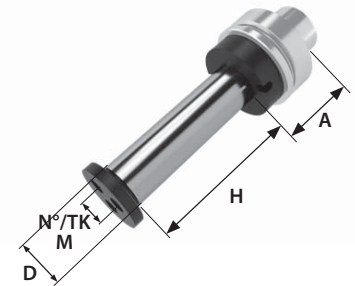
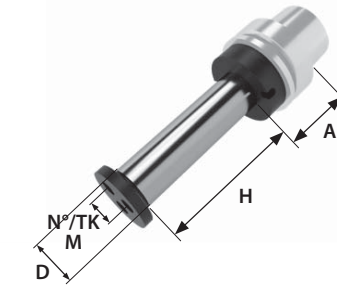
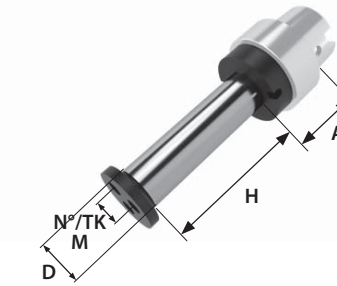
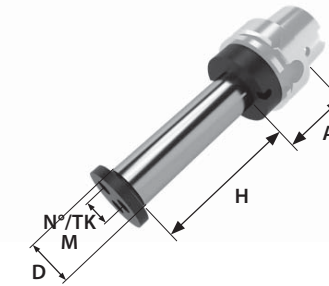
To configure your toolholder you need to choose one of the following connections first.



\*See page 69 for the complete list of DIN manufacturing rules.



Milling arbors



| A33       |           | A42           |    |     |    |        |            |                 |  |
|-----------|-----------|---------------|----|-----|----|--------|------------|-----------------|--|
| Part code | Part code | Description   | D  | H   | M  | N°/TK  | Connection | Balancing (RPM) |  |
| A117      | A317      | milling arbor | 40 | 130 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A118      | A318      | milling arbor | 40 | 135 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A119      | A319      | milling arbor | 40 | 140 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A120      | A320      | milling arbor | 40 | 145 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A121      | A321      | milling arbor | 40 | 150 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A122      | A322      | milling arbor | 40 | 160 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A123      | A323      | milling arbor | 40 | 170 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A124      | A324      | milling arbor | 40 | 180 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A125      | A325      | milling arbor | 40 | 190 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A126      | A326      | milling arbor | 40 | 200 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A127      | A327      | milling arbor | 40 | 210 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A128      | A328      | milling arbor | 40 | 220 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A129      | A329      | milling arbor | 40 | 230 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A130      | A330      | milling arbor | 40 | 240 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A131      | A331      | milling arbor | 40 | 250 | M6 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A132      | A332      | milling arbor | 50 | 70  | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A133      | A333      | milling arbor | 50 | 75  | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A134      | A334      | milling arbor | 50 | 80  | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A135      | A335      | milling arbor | 50 | 85  | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A136      | A336      | milling arbor | 50 | 90  | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A137      | A337      | milling arbor | 50 | 95  | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A138      | A338      | milling arbor | 50 | 100 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A139      | A339      | milling arbor | 50 | 105 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A140      | A340      | milling arbor | 50 | 110 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A141      | A341      | milling arbor | 50 | 115 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A142      | A342      | milling arbor | 50 | 120 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A143      | A343      | milling arbor | 50 | 125 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A144      | A344      | milling arbor | 50 | 130 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A145      | A345      | milling arbor | 50 | 135 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A146      | A346      | milling arbor | 50 | 140 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A147      | A347      | milling arbor | 50 | 145 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A148      | A348      | milling arbor | 50 | 150 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A149      | A349      | milling arbor | 50 | 160 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A150      | A350      | milling arbor | 50 | 170 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |

| A33       |           | A42           |         |     |    |        |            |                 |  |
|-----------|-----------|---------------|---------|-----|----|--------|------------|-----------------|--|
| Part code | Part code | Description   | D       | H   | M  | N°/TK  | Connection | Balancing (RPM) |  |
| A151      | A351      | milling arbor | 50      | 180 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A152      | A352      | milling arbor | 50      | 190 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A153      | A353      | milling arbor | 50      | 200 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A154      | A354      | milling arbor | 50      | 210 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A155      | A355      | milling arbor | 50      | 220 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A156      | A356      | milling arbor | 50      | 230 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A157      | A357      | milling arbor | 50      | 240 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A158      | A358      | milling arbor | 50      | 250 | M8 | 3 x 25 | HSK 63 E-F | 24.000          |  |
| A159      | A359      | milling arbor | 1 - 1/4 | 80  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A160      | A360      | milling arbor | 1 - 1/4 | 85  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A161      | A361      | milling arbor | 1 - 1/4 | 90  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A162      | A362      | milling arbor | 1 - 1/4 | 95  | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A163      | A363      | milling arbor | 1 - 1/4 | 100 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A164      | A364      | milling arbor | 1 - 1/4 | 105 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A165      | A365      | milling arbor | 1 - 1/4 | 110 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A166      | A366      | milling arbor | 1 - 1/4 | 115 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A167      | A367      | milling arbor | 1 - 1/4 | 120 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A168      | A368      | milling arbor | 1 - 1/4 | 125 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A169      | A369      | milling arbor | 1 - 1/4 | 130 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A170      | A370      | milling arbor | 1 - 1/4 | 135 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A171      | A371      | milling arbor | 1 - 1/4 | 140 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A172      | A372      | milling arbor | 1 - 1/4 | 145 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A173      | A373      | milling arbor | 1 - 1/4 | 150 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A174      | A374      | milling arbor | 1 - 1/4 | 160 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A175      | A375      | milling arbor | 1 - 1/4 | 170 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A176      | A376      | milling arbor | 1 - 1/4 | 180 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A177      | A377      | milling arbor | 1 - 1/4 | 190 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A178      | A378      | milling arbor | 1 - 1/4 | 200 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A179      | A379      | milling arbor | 1 - 1/4 | 210 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A180      | A380      | milling arbor | 1 - 1/4 | 220 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A181      | A381      | milling arbor | 1 - 1/4 | 230 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A182      | A382      | milling arbor | 1 - 1/4 | 240 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |
| A183      | A383      | milling arbor | 1 - 1/4 | 250 | M6 | 3 x 20 | HSK 63 E-F | 24.000          |  |



Part codes for available HSK CONNECTIONS\*

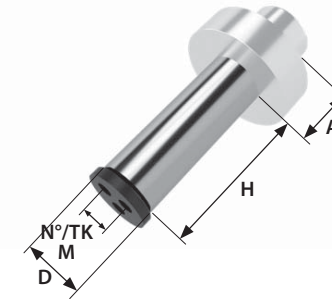
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



Milling arbors for "Weinig"

Traditional clamping system for woodworking mills. The tool is held in place by spacer rings, end cap and three locking screws.



| Part code | A  | Description   | D  | H   | M  | N°/TK | Connection | Balancing (RPM) |
|-----------|----|---------------|----|-----|----|-------|------------|-----------------|
| A400      | 26 | milling arbor | 30 | 70  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A401      | 26 | milling arbor | 30 | 75  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A402      | 26 | milling arbor | 30 | 80  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A403      | 26 | milling arbor | 30 | 85  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A404      | 26 | milling arbor | 30 | 90  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A405      | 26 | milling arbor | 30 | 95  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A406      | 26 | milling arbor | 30 | 100 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A407      | 26 | milling arbor | 30 | 105 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A408      | 26 | milling arbor | 30 | 110 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A409      | 26 | milling arbor | 30 | 115 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A410      | 26 | milling arbor | 30 | 120 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A411      | 26 | milling arbor | 30 | 125 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A412      | 26 | milling arbor | 30 | 130 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A413      | 26 | milling arbor | 30 | 135 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A414      | 26 | milling arbor | 30 | 140 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A415      | 26 | milling arbor | 30 | 145 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A416      | 26 | milling arbor | 30 | 150 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A417      | 26 | milling arbor | 30 | 160 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A418      | 26 | milling arbor | 30 | 170 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A419      | 26 | milling arbor | 30 | 180 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A420      | 26 | milling arbor | 30 | 190 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A421      | 26 | milling arbor | 30 | 200 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A422      | 26 | milling arbor | 30 | 210 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A423      | 26 | milling arbor | 30 | 220 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A424      | 26 | milling arbor | 30 | 230 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A425      | 26 | milling arbor | 30 | 240 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A426      | 26 | milling arbor | 30 | 250 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A427      | 26 | milling arbor | 35 | 70  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A428      | 26 | milling arbor | 35 | 75  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A429      | 26 | milling arbor | 35 | 80  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A430      | 26 | milling arbor | 35 | 85  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A431      | 26 | milling arbor | 35 | 90  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A432      | 26 | milling arbor | 35 | 95  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A433      | 26 | milling arbor | 35 | 100 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A434      | 26 | milling arbor | 35 | 105 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A435      | 26 | milling arbor | 35 | 110 | M6 | 3x25  | HSK 85 W   | 18.000          |

| Part code | A  | Description   | D  | H   | M  | N°/TK | Connection | Balancing (RPM) |
|-----------|----|---------------|----|-----|----|-------|------------|-----------------|
| A436      | 26 | milling arbor | 35 | 115 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A437      | 26 | milling arbor | 35 | 120 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A438      | 26 | milling arbor | 35 | 125 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A439      | 26 | milling arbor | 35 | 130 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A440      | 26 | milling arbor | 35 | 135 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A441      | 26 | milling arbor | 35 | 140 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A442      | 26 | milling arbor | 35 | 145 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A443      | 26 | milling arbor | 35 | 150 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A444      | 26 | milling arbor | 35 | 160 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A445      | 26 | milling arbor | 35 | 170 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A446      | 26 | milling arbor | 35 | 180 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A447      | 26 | milling arbor | 35 | 190 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A448      | 26 | milling arbor | 35 | 200 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A449      | 26 | milling arbor | 35 | 210 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A450      | 26 | milling arbor | 35 | 220 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A451      | 26 | milling arbor | 35 | 230 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A452      | 26 | milling arbor | 35 | 240 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A453      | 26 | milling arbor | 35 | 250 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A454      | 26 | milling arbor | 40 | 70  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A455      | 26 | milling arbor | 40 | 75  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A456      | 26 | milling arbor | 40 | 80  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A457      | 26 | milling arbor | 40 | 85  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A458      | 26 | milling arbor | 40 | 90  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A459      | 26 | milling arbor | 40 | 95  | M6 | 3x25  | HSK 85 W   | 18.000          |
| A460      | 26 | milling arbor | 40 | 100 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A461      | 26 | milling arbor | 40 | 105 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A462      | 26 | milling arbor | 40 | 110 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A463      | 26 | milling arbor | 40 | 115 | M6 | 3x25  | HSK 85 W   | 18.000          |

MANUFACTURING MATERIAL

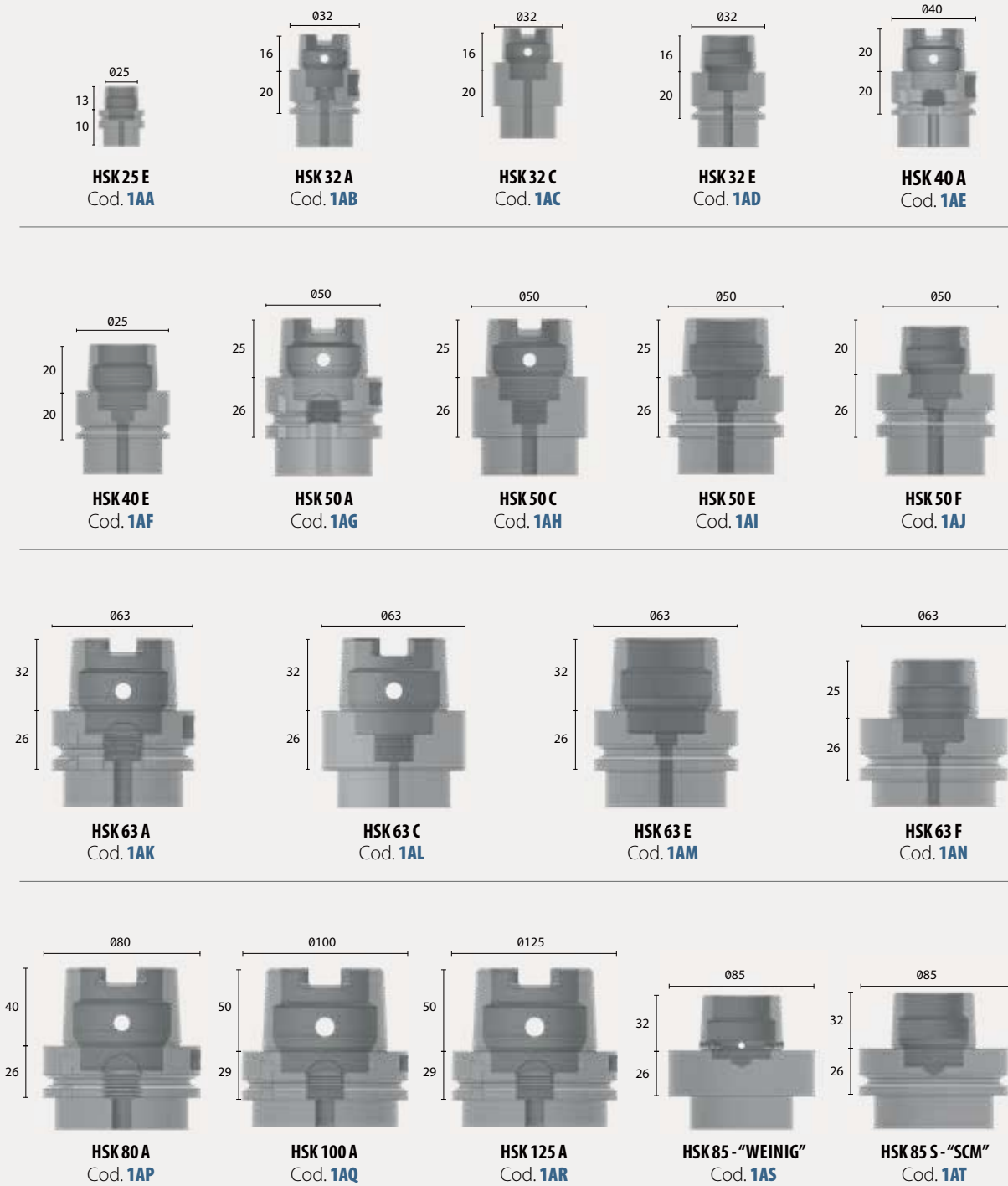


Part codes for available HSK CONNECTIONS\*

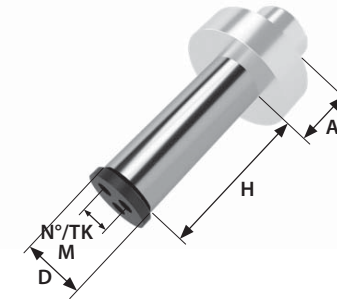
To configure your toolholder you need to choose one of the following connections first.



\*See page 69 for the complete list of DIN manufacturing rules.



Milling arbors for "Weinig"



| Part code | A  | Description   | D  | H   | M  | N°/TK | Connection | Balancing (RPM) |
|-----------|----|---------------|----|-----|----|-------|------------|-----------------|
| A464      | 26 | milling arbor | 40 | 120 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A465      | 26 | milling arbor | 40 | 125 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A466      | 26 | milling arbor | 40 | 130 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A467      | 26 | milling arbor | 40 | 135 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A468      | 26 | milling arbor | 40 | 140 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A469      | 26 | milling arbor | 40 | 145 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A470      | 26 | milling arbor | 40 | 150 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A471      | 26 | milling arbor | 40 | 160 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A472      | 26 | milling arbor | 40 | 170 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A473      | 26 | milling arbor | 40 | 180 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A474      | 26 | milling arbor | 40 | 190 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A475      | 26 | milling arbor | 40 | 200 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A476      | 26 | milling arbor | 40 | 210 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A477      | 26 | milling arbor | 40 | 220 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A478      | 26 | milling arbor | 40 | 230 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A479      | 26 | milling arbor | 40 | 240 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A480      | 26 | milling arbor | 40 | 250 | M6 | 3x25  | HSK 85 W   | 18.000          |
| A481      | 26 | milling arbor | 50 | 70  | M8 | 3x25  | HSK 85 W   | 18.000          |
| A482      | 26 | milling arbor | 50 | 75  | M8 | 3x25  | HSK 85 W   | 18.000          |
| A483      | 26 | milling arbor | 50 | 80  | M8 | 3x25  | HSK 85 W   | 18.000          |
| A484      | 26 | milling arbor | 50 | 85  | M8 | 3x25  | HSK 85 W   | 18.000          |
| A485      | 26 | milling arbor | 50 | 90  | M8 | 3x25  | HSK 85 W   | 18.000          |
| A486      | 26 | milling arbor | 50 | 95  | M8 | 3x25  | HSK 85 W   | 18.000          |
| A487      | 26 | milling arbor | 50 | 100 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A488      | 26 | milling arbor | 50 | 105 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A489      | 26 | milling arbor | 50 | 110 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A490      | 26 | milling arbor | 50 | 115 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A491      | 26 | milling arbor | 50 | 120 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A492      | 26 | milling arbor | 50 | 125 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A493      | 26 | milling arbor | 50 | 130 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A494      | 26 | milling arbor | 50 | 135 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A495      | 26 | milling arbor | 50 | 140 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A496      | 26 | milling arbor | 50 | 145 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A497      | 26 | milling arbor | 50 | 150 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A498      | 26 | milling arbor | 50 | 160 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A499      | 26 | milling arbor | 50 | 170 | M8 | 3x25  | HSK 85 W   | 18.000          |

| Part code | A  | Description   | D     | H   | M  | N°/TK | Connection | Balancing (RPM) |
|-----------|----|---------------|-------|-----|----|-------|------------|-----------------|
| A500      | 26 | milling arbor | 50    | 180 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A501      | 26 | milling arbor | 50    | 190 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A502      | 26 | milling arbor | 50    | 200 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A503      | 26 | milling arbor | 50    | 210 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A504      | 26 | milling arbor | 50    | 220 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A505      | 26 | milling arbor | 50    | 230 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A506      | 26 | milling arbor | 50    | 240 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A507      | 26 | milling arbor | 50    | 250 | M8 | 3x25  | HSK 85 W   | 18.000          |
| A508      | 26 | milling arbor | 1-1/4 | 80  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A509      | 26 | milling arbor | 1-1/4 | 85  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A510      | 26 | milling arbor | 1-1/4 | 90  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A511      | 26 | milling arbor | 1-1/4 | 95  | M6 | 3x20  | HSK 85 W   | 18.000          |
| A512      | 26 | milling arbor | 1-1/4 | 100 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A513      | 26 | milling arbor | 1-1/4 | 105 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A514      | 26 | milling arbor | 1-1/4 | 110 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A515      | 26 | milling arbor | 1-1/4 | 115 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A516      | 26 | milling arbor | 1-1/4 | 120 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A517      | 26 | milling arbor | 1-1/4 | 125 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A518      | 26 | milling arbor | 1-1/4 | 130 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A519      | 26 | milling arbor | 1-1/4 | 135 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A520      | 26 | milling arbor | 1-1/4 | 140 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A521      | 26 | milling arbor | 1-1/4 | 145 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A522      | 26 | milling arbor | 1-1/4 | 150 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A523      | 26 | milling arbor | 1-1/4 | 160 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A524      | 26 | milling arbor | 1-1/4 | 170 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A525      | 26 | milling arbor | 1-1/4 | 180 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A526      | 26 | milling arbor | 1-1/4 | 190 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A527      | 26 | milling arbor | 1-1/4 | 200 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A528      | 26 | milling arbor | 1-1/4 | 210 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A529      | 26 | milling arbor | 1-1/4 | 220 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A530      | 26 | milling arbor | 1-1/4 | 230 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A531      | 26 | milling arbor | 1-1/4 | 240 | M6 | 3x20  | HSK 85 W   | 18.000          |
| A532      | 26 | milling arbor | 1-1/4 | 250 | M6 | 3x20  | HSK 85 W   | 18.000          |

Part codes for available HSK CONNECTIONS\*

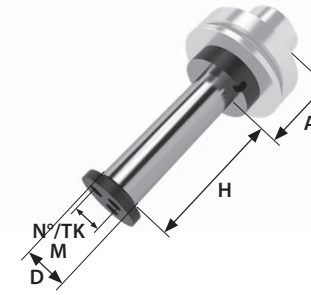
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



Milling arbor for "SCM"

Traditional clamping system for woodworking mills. The tool is held in place by spacer rings, end cap and three locking screws.



| Part code | A  | Description   | D  | H   | M  | N°/TK | Connection | Balancing (RPM) |
|-----------|----|---------------|----|-----|----|-------|------------|-----------------|
| A600      | 26 | milling arbor | 40 | 70  | M6 | 3x25  | HSK 85 S   | 18.000          |
| A601      | 26 | milling arbor | 40 | 75  | M6 | 3x25  | HSK 85 S   | 18.000          |
| A602      | 26 | milling arbor | 40 | 80  | M6 | 3x25  | HSK 85 S   | 18.000          |
| A603      | 26 | milling arbor | 40 | 85  | M6 | 3x25  | HSK 85 S   | 18.000          |
| A604      | 26 | milling arbor | 40 | 90  | M6 | 3x25  | HSK 85 S   | 18.000          |
| A605      | 26 | milling arbor | 40 | 95  | M6 | 3x25  | HSK 85 S   | 18.000          |
| A606      | 26 | milling arbor | 40 | 100 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A607      | 26 | milling arbor | 40 | 105 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A608      | 26 | milling arbor | 40 | 110 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A609      | 26 | milling arbor | 40 | 115 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A610      | 26 | milling arbor | 40 | 120 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A611      | 26 | milling arbor | 40 | 125 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A612      | 26 | milling arbor | 40 | 130 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A613      | 26 | milling arbor | 40 | 135 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A614      | 26 | milling arbor | 40 | 140 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A615      | 26 | milling arbor | 40 | 145 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A616      | 26 | milling arbor | 40 | 150 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A617      | 26 | milling arbor | 40 | 160 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A618      | 26 | milling arbor | 40 | 170 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A619      | 26 | milling arbor | 40 | 180 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A620      | 26 | milling arbor | 40 | 190 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A621      | 26 | milling arbor | 40 | 200 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A622      | 26 | milling arbor | 40 | 210 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A623      | 26 | milling arbor | 40 | 220 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A624      | 26 | milling arbor | 40 | 230 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A625      | 26 | milling arbor | 40 | 240 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A626      | 26 | milling arbor | 40 | 250 | M6 | 3x25  | HSK 85 S   | 18.000          |
| A627      | 26 | milling arbor | 50 | 70  | M8 | 3x25  | HSK 85 S   | 18.000          |
| A628      | 26 | milling arbor | 50 | 75  | M8 | 3x25  | HSK 85 S   | 18.000          |
| A629      | 26 | milling arbor | 50 | 80  | M8 | 3x25  | HSK 85 S   | 18.000          |
| A630      | 26 | milling arbor | 50 | 85  | M8 | 3x25  | HSK 85 S   | 18.000          |
| A631      | 26 | milling arbor | 50 | 90  | M8 | 3x25  | HSK 85 S   | 18.000          |
| A632      | 26 | milling arbor | 50 | 95  | M8 | 3x25  | HSK 85 S   | 18.000          |

| Part code | A  | Description   | D  | H   | M  | N°/TK | Connection | Balancing (RPM) |
|-----------|----|---------------|----|-----|----|-------|------------|-----------------|
| A633      | 26 | milling arbor | 50 | 100 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A634      | 26 | milling arbor | 50 | 105 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A635      | 26 | milling arbor | 50 | 110 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A636      | 26 | milling arbor | 50 | 115 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A637      | 26 | milling arbor | 50 | 120 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A638      | 26 | milling arbor | 50 | 125 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A639      | 26 | milling arbor | 50 | 130 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A640      | 26 | milling arbor | 50 | 135 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A641      | 26 | milling arbor | 50 | 140 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A642      | 26 | milling arbor | 50 | 145 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A643      | 26 | milling arbor | 50 | 150 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A644      | 26 | milling arbor | 50 | 160 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A645      | 26 | milling arbor | 50 | 170 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A646      | 26 | milling arbor | 50 | 180 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A647      | 26 | milling arbor | 50 | 190 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A648      | 26 | milling arbor | 50 | 200 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A649      | 26 | milling arbor | 50 | 210 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A650      | 26 | milling arbor | 50 | 220 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A651      | 26 | milling arbor | 50 | 230 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A652      | 26 | milling arbor | 50 | 240 | M8 | 3x25  | HSK 85 S   | 18.000          |
| A653      | 26 | milling arbor | 50 | 250 | M8 | 3x25  | HSK 85 S   | 18.000          |

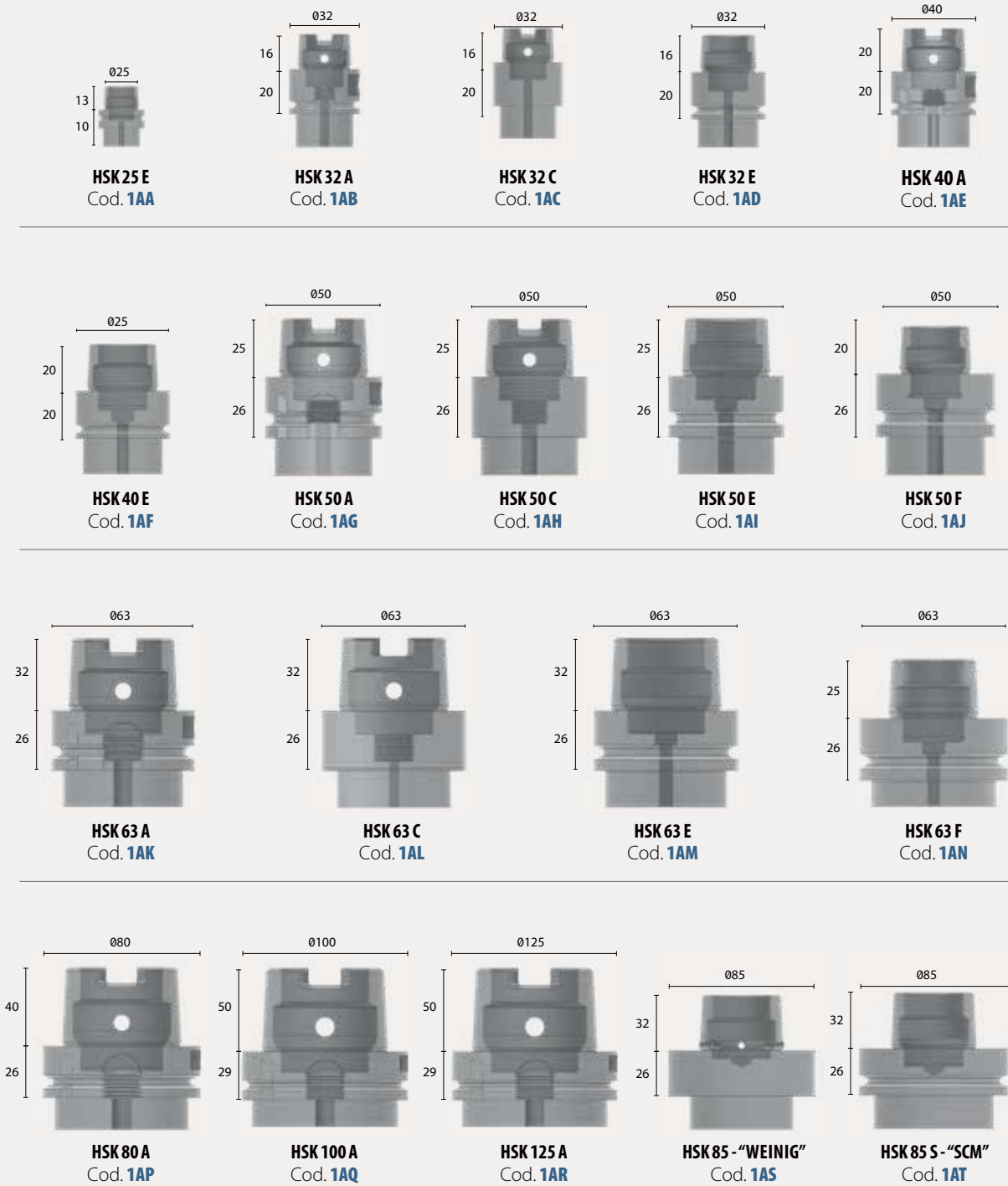
MANUFACTURING MATERIAL



Part codes for available HSK CONNECTIONS\*

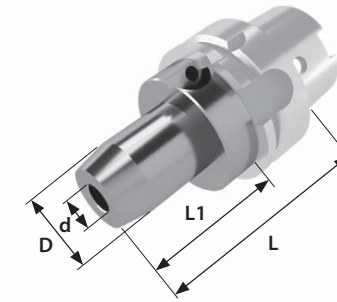
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

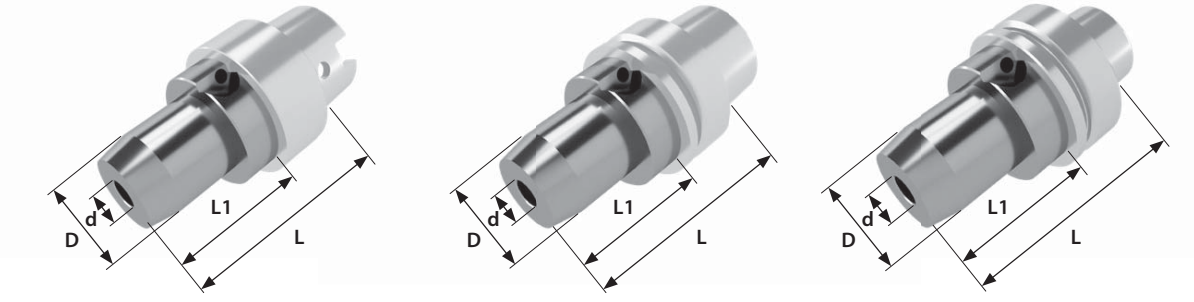


Hydro Chucks

Ideal for detailing, milling and drilling operations. Hydro chucks combine the best of all high range clamping systems, providing exceptional concentricity features and ease of set up.



| Part code | Description | D  | d    | L   | L1 | Connection     | Balancing (RPM) |
|-----------|-------------|----|------|-----|----|----------------|-----------------|
| AM00      | hydro chuck | 30 | 10   | 90  | 65 | HSK 32 A-E     | 50.000          |
| AM00      | hydro chuck | 30 | 10   | 90  | 65 | HSK 40 A-E     | 24.000          |
| AM22      | hydro chuck | 30 | 10   | 85  | 59 | HSK 63 E-F     | 24.000          |
| AM01      | hydro chuck | 32 | 12   | 95  | 70 | HSK 40 A-E     | 24.000          |
| AM02      | hydro chuck | 32 | 12   | 100 | 74 | HSK 50 A-E-F   | 24.000          |
| AM03      | hydro chuck | 32 | 12   | 85  | 59 | HSK 63 A-E-F   | 24.000          |
| AM04      | hydro chuck | 38 | 16   | 95  | 69 | HSK 50 A-E-F   | 24.000          |
| AM04      | hydro chuck | 38 | 16   | 95  | 69 | HSK 63 A-E-F   | 24.000          |
| AM04      | hydro chuck | 38 | 16   | 95  | 69 | HSK 80 A       | 18.000          |
| AM05      | hydro chuck | 38 | 16   | 95  | 66 | HSK 100 A      | 18.000          |
| AM06      | hydro chuck | 42 | 20   | 95  | 69 | HSK 63 A-C-E-F | 18.000          |
| AM07      | hydro chuck | 42 | 20   | 95  | 66 | HSK 80 A       | 18.000          |
| AM07      | hydro chuck | 42 | 20   | 95  | 66 | HSK 100 A      | 18.000          |
| AM08      | hydro chuck | 52 | 25   | 120 | 94 | HSK 63 A-C-E-F | 24.000          |
| AM08      | hydro chuck | 52 | 25   | 120 | 94 | HSK 80 A       | 18.000          |
| AM09      | hydro chuck | 52 | 25   | 120 | 91 | HSK 100 A      | 18.000          |
| AM10      | hydro chuck | 60 | 32   | 120 | 94 | HSK 63 A-C-E-F | 24.000          |
| AM10      | hydro chuck | 60 | 32   | 120 | 94 | HSK 80 A       | 18.000          |
| AM11      | hydro chuck | 60 | 32   | 120 | 91 | HSK 100 A      | 18.000          |
| AM11      | hydro chuck | 60 | 32   | 120 | 91 | HSK 125 A      | 18.000          |
| AM12      | hydro chuck | 30 | 3/8" | 100 | 59 | HSK 50 A-E-F   | 24.000          |
| AM13      | hydro chuck | 30 | 3/8" | 80  | 59 | HSK 63 A-E-F   | 24.000          |



| Part code | Description | D  | d    | L   | L1 | Connection   | Balancing (RPM) |
|-----------|-------------|----|------|-----|----|--------------|-----------------|
| AM15      | hydro chuck | 32 | 1/2" | 90  | 64 | HSK 80 A     | 18.000          |
| AM16      | hydro chuck | 32 | 1/2" | 90  | 61 | HSK 100 A    | 18.000          |
| AM17      | hydro chuck | 42 | 3/4" | 95  | 69 | HSK 63 A-E-F | 24.000          |
| AM18      | hydro chuck | 42 | 3/4" | 95  | 70 | HSK 80 A     | 18.000          |
| AM19      | hydro chuck | 42 | 3/4" | 95  | 68 | HSK 100 A    | 18.000          |
| AM20      | hydro chuck | 52 | 1"   | 120 | 94 | HSK 63 A-E-F | 24.000          |
| AM20      | hydro chuck | 52 | 1"   | 120 | 94 | HSK 80 A     | 18.000          |
| AM21      | hydro chuck | 52 | 1"   | 120 | 91 | HSK 100 A    | 18.000          |

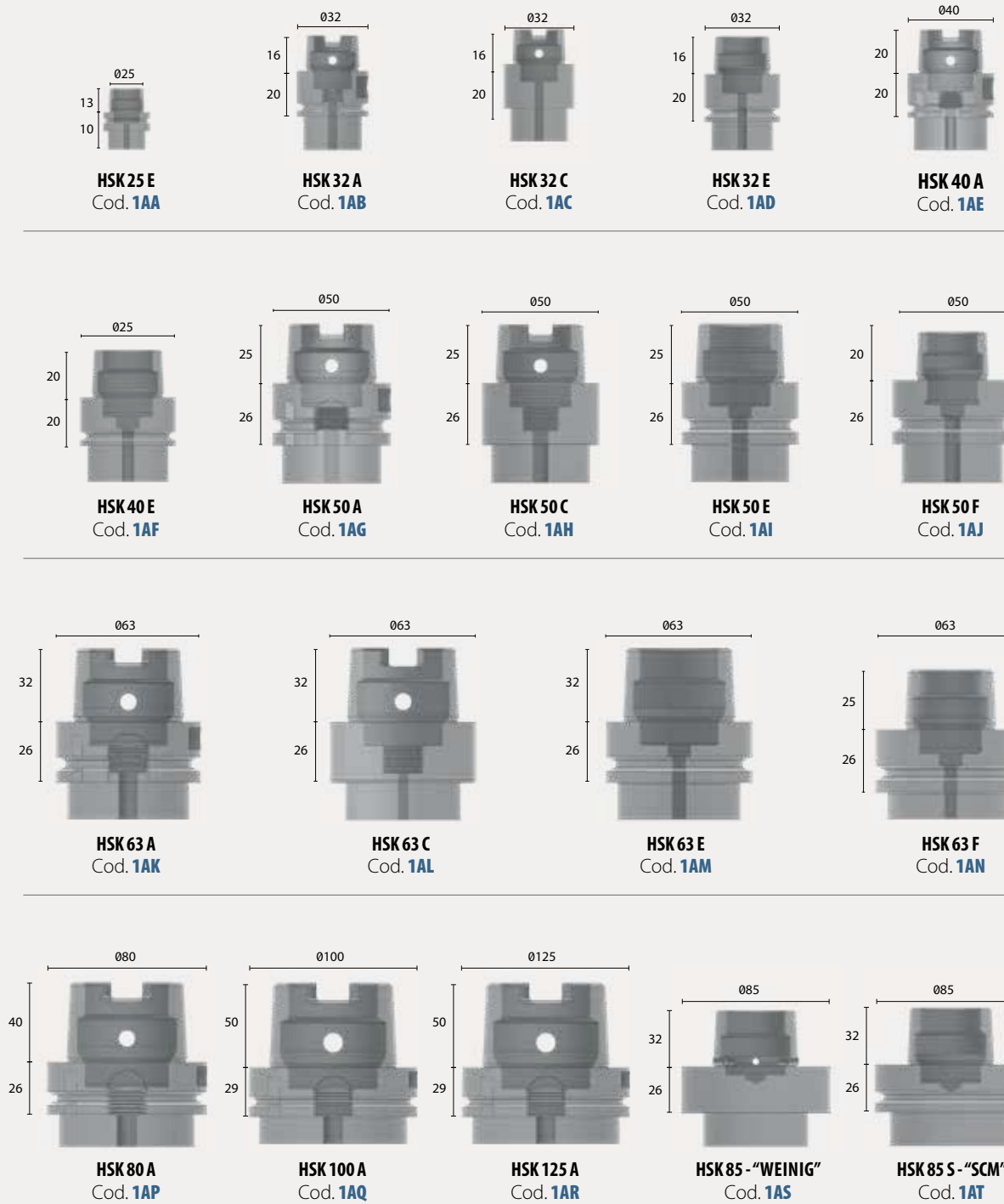
MANUFACTURING MATERIAL



Part codes for available HSK CONNECTIONS\*

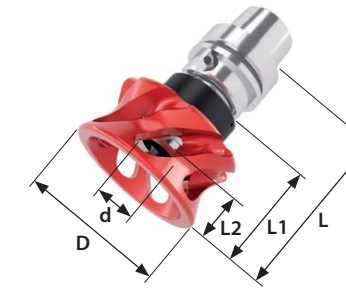
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



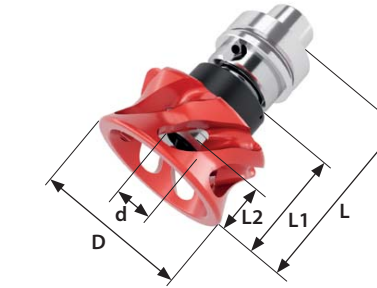
Twister Hydro with adjustable height

Twister technology combines with the hydraulic clamping system for effective wood chip suction and excellent cutting precision.



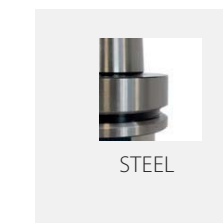
| Part code | Description      | D  | d    | L   | L1 | L2 | Connection | Balancing (RPM) |
|-----------|------------------|----|------|-----|----|----|------------|-----------------|
| AN00      | Twister hydro RH | 98 | 10   | 101 | 65 | 21 | HSK 63 E-F | 24.000          |
| AN01      | Twister hydro RH | 98 | 12   | 106 | 65 | 21 | HSK 63 E-F | 24.000          |
| AN02      | Twister hydro RH | 98 | 16   | 116 | 59 | 21 | HSK 63 E-F | 24.000          |
| AN03      | Twister hydro RH | 98 | 20   | 116 | 59 | 21 | HSK 63 E-F | 24.000          |
| AN04      | Twister hydro RH | 98 | 25   | 141 | 70 | 21 | HSK 63 E-F | 24.000          |
| AN05      | Twister hydro RH | 98 | 32   | 141 | 64 | 21 | HSK 63 E-F | 24.000          |
| AN06      | Twister hydro RH | 98 | 3/8" | 101 | 65 | 21 | HSK 63 E-F | 24.000          |
| AN07      | Twister hydro RH | 98 | 1/2" | 106 | 65 | 21 | HSK 63 E-F | 24.000          |
| AN08      | Twister hydro RH | 98 | 3/4" | 116 | 59 | 21 | HSK 63 E-F | 24.000          |

MANUFACTURING MATERIAL



| Part code | Description      | D  | d    | L   | L1 | L2 | Connection | Balancing (RPM) |
|-----------|------------------|----|------|-----|----|----|------------|-----------------|
| AP00      | Twister hydro LH | 98 | 10   | 101 | 65 | 21 | HSK 63 E-F | 24.000          |
| AP01      | Twister hydro LH | 98 | 12   | 106 | 65 | 21 | HSK 63 E-F | 24.000          |
| AP02      | Twister hydro LH | 98 | 16   | 116 | 59 | 21 | HSK 63 E-F | 24.000          |
| AP03      | Twister hydro LH | 98 | 20   | 116 | 59 | 21 | HSK 63 E-F | 24.000          |
| AP04      | Twister hydro LH | 98 | 25   | 141 | 70 | 21 | HSK 63 E-F | 24.000          |
| AP05      | Twister hydro LH | 98 | 32   | 141 | 64 | 21 | HSK 63 E-F | 24.000          |
| AP06      | Twister hydro LH | 98 | 3/8" | 101 | 65 | 21 | HSK 63 E-F | 24.000          |
| AP07      | Twister hydro LH | 98 | 1/2" | 106 | 65 | 21 | HSK 63 E-F | 24.000          |
| AP08      | Twister hydro LH | 98 | 3/4" | 116 | 59 | 21 | HSK 63 E-F | 24.000          |

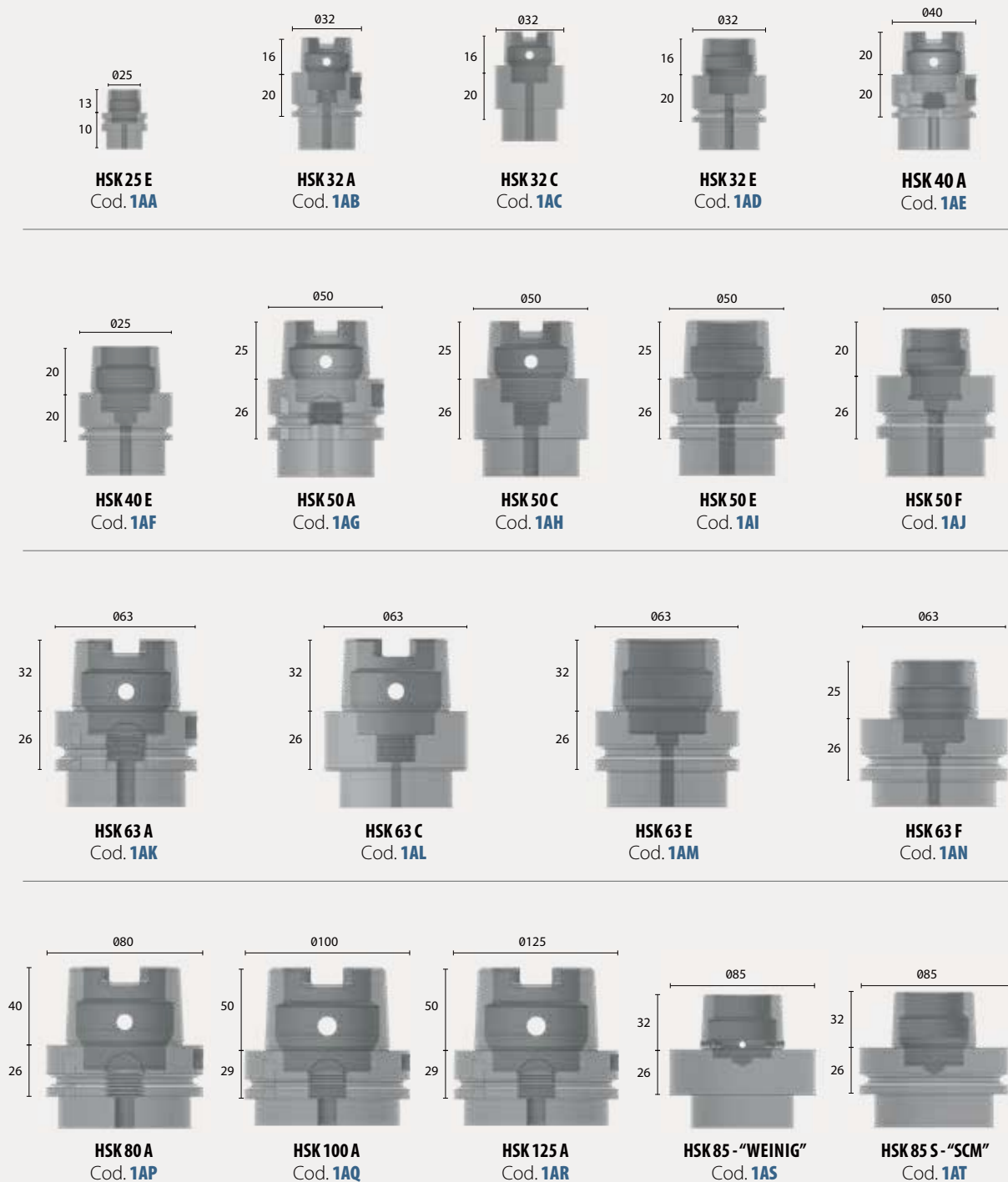
MANUFACTURING MATERIAL



## Part codes for available HSK CONNECTIONS\*

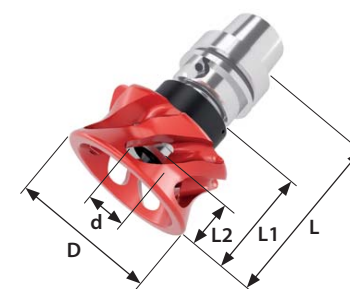
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



## Tool holder with Twister Heat

Twister technology combines with the hydraulic clamping system for effective wood chip suction and excellent cutting precision.



| Part code   | Description                            | D  | d  | L   | Connection      | Balancing (RPM) |
|-------------|--|----|----|-----|-----------------|-----------------|
| <b>AN30</b> | shrink fit d12 L75 with twister D98 RH | 98 | 12 | 96  | <b>HSK 63 F</b> | 24.000          |
| <b>AN31</b> | shrink fit d12 L75 with twister D98 RH | 98 | 16 | 96  | <b>HSK 63 F</b> | 24.000          |
| <b>AN32</b> | shrink fit d12 L75 with twister D98 RH | 98 | 20 | 96  | <b>HSK 63 F</b> | 24.000          |
| <b>AN33</b> | shrink fit d12 L75 with twister D98 RH | 98 | 12 | 111 | <b>HSK 63 F</b> | 24.000          |
| <b>AN34</b> | shrink fit d12 L75 with twister D98 RH | 98 | 16 | 111 | <b>HSK 63 F</b> | 24.000          |
| <b>AN35</b> | shrink fit d12 L75 with twister D98 RH | 98 | 20 | 111 | <b>HSK 63 F</b> | 24.000          |
| <b>AN36</b> | shrink fit d12 L75 with twister D98 RH | 80 | 12 | 96  | <b>HSK 63 F</b> | 24.000          |
| <b>AN37</b> | shrink fit d12 L75 with twister D98 RH | 80 | 16 | 96  | <b>HSK 63 F</b> | 24.000          |
| <b>AN38</b> | shrink fit d12 L75 with twister D98 RH | 80 | 20 | 96  | <b>HSK 63 F</b> | 24.000          |
| <b>AN39</b> | shrink fit d12 L75 with twister D98 RH | 80 | 12 | 111 | <b>HSK 63 F</b> | 24.000          |
| <b>AN40</b> | shrink fit d12 L75 with twister D98 RH | 80 | 16 | 111 | <b>HSK 63 F</b> | 24.000          |
| <b>AN41</b> | shrink fit d12 L75 with twister D98 RH | 80 | 20 | 111 | <b>HSK 63 F</b> | 24.000          |

MANUFACTURING MATERIAL



MANUFACTURING MATERIAL



## Part codes for available HSK CONNECTIONS\*

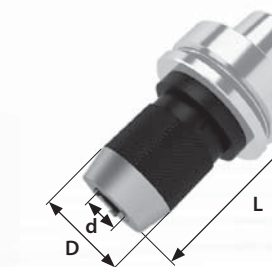
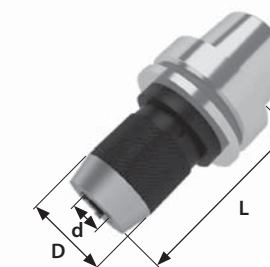
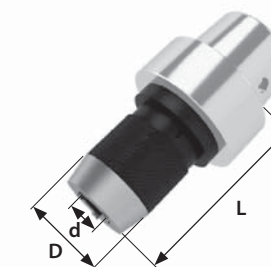
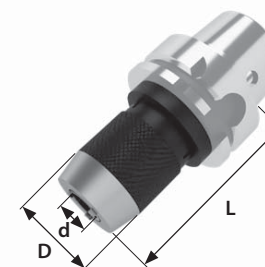
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

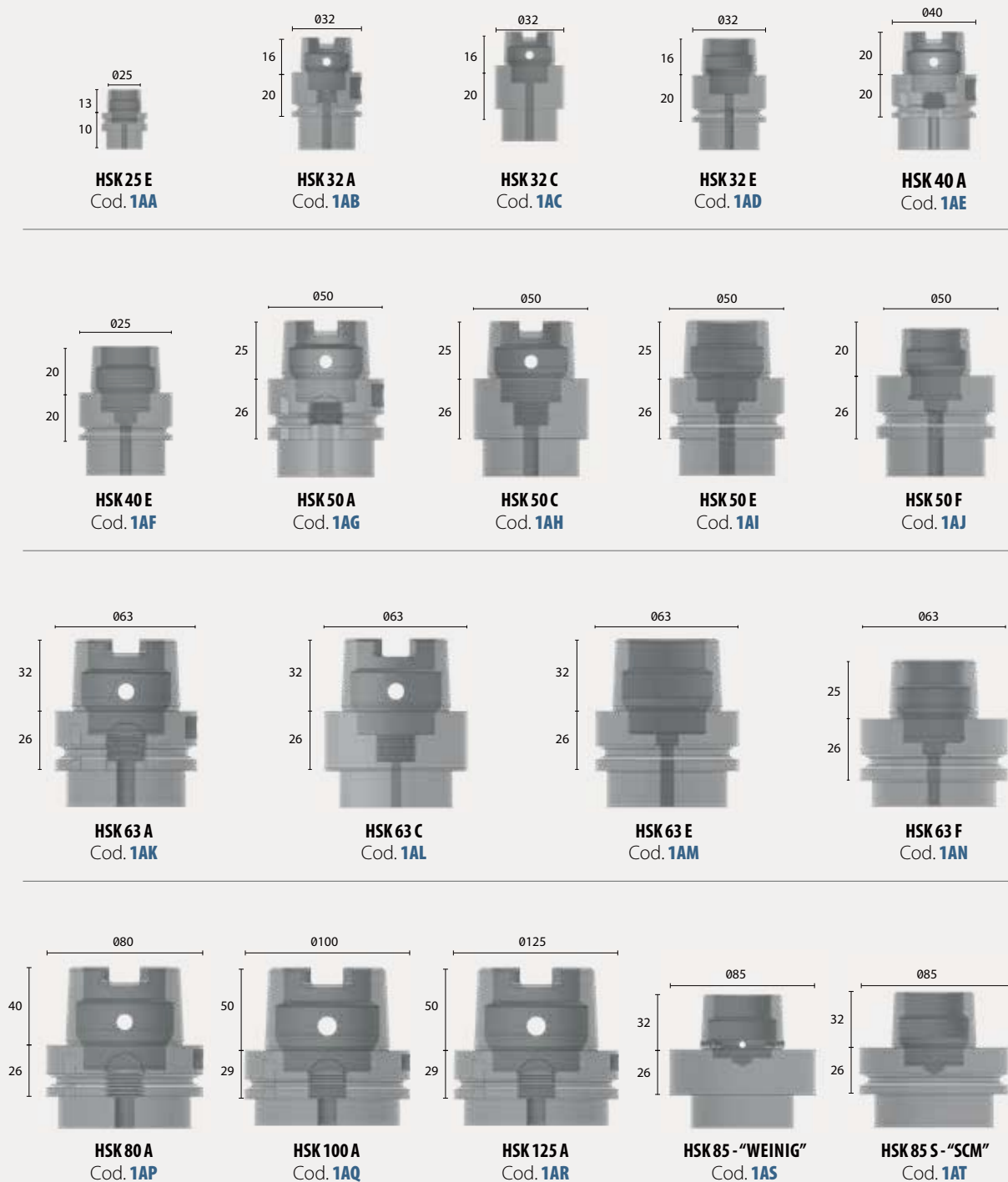


## Drill Chucks

Drill chucks are an effective system for low speed boring, milling and generic cut operations.



| Part code | Description | d    | D  | L   | Connection   | Balancing (RPM) |
|-----------|-------------|------|----|-----|--------------|-----------------|
| AQ00      | drill chuck | 0÷13 | 50 | 130 | HSK 50 A-E-F | 24.000          |
| AQ00      | drill chuck | 0÷13 | 50 | 130 | HSK 63 A-E-F | 24.000          |
| AQ00      | drill chuck | 0÷13 | 50 | 130 | HSK 80 A     | 18.000          |
| AQ00      | drill chuck | 0÷13 | 50 | 155 | HSK 100 A    | 18.000          |
| AQ01      | drill chuck | 0÷16 | 57 | 155 | HSK 63 A-E-F | 24.000          |
| AQ01      | drill chuck | 0÷16 | 57 | 155 | HSK 80 A     | 18.000          |
| AQ01      | drill chuck | 0÷16 | 57 | 155 | HSK 100 A    | 18.000          |
| AQ01      | drill chuck | 0÷16 | 57 | 155 | HSK 125 A    | 18.000          |



MANUFACTURING MATERIAL



Part codes for available HSK CONNECTIONS\*

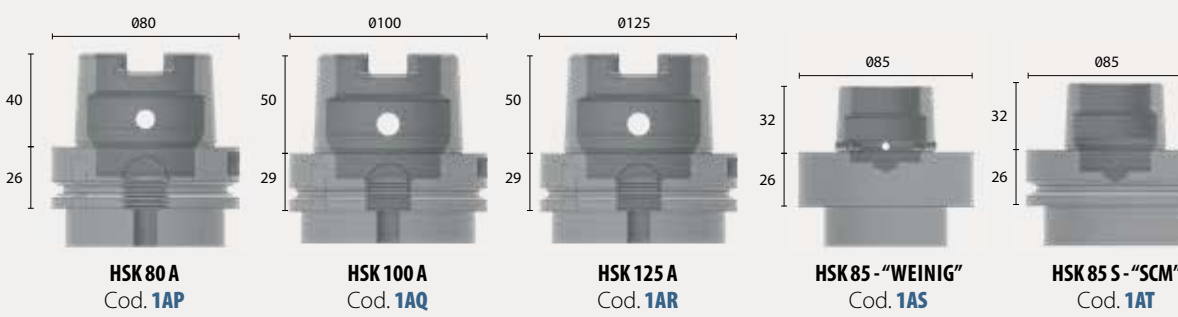
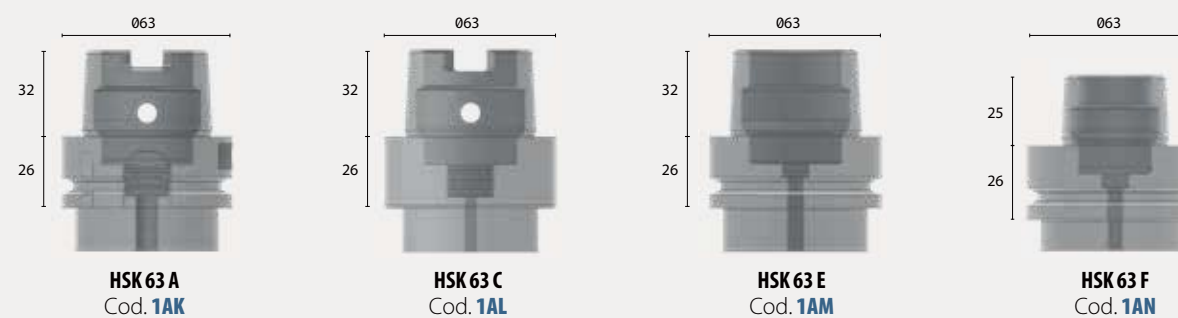
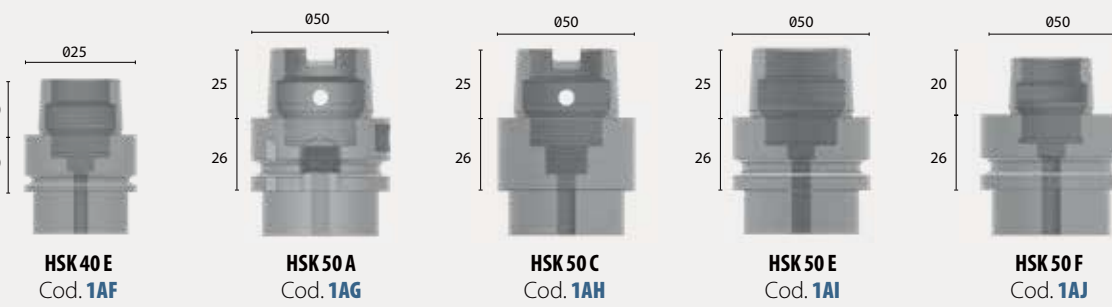
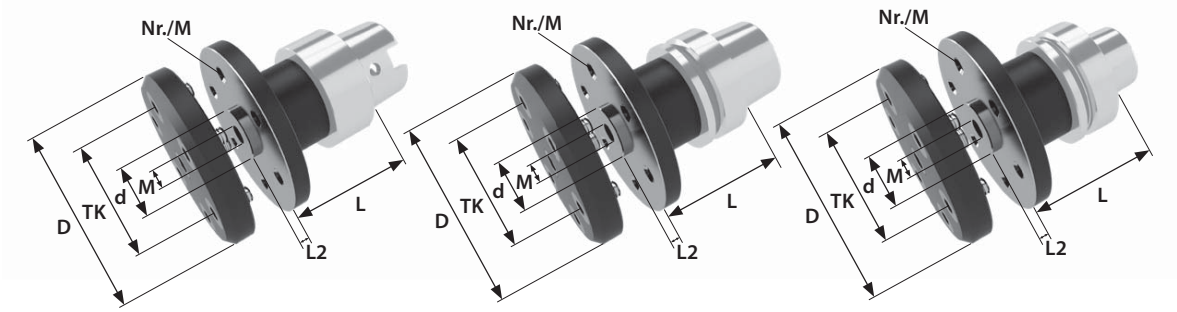
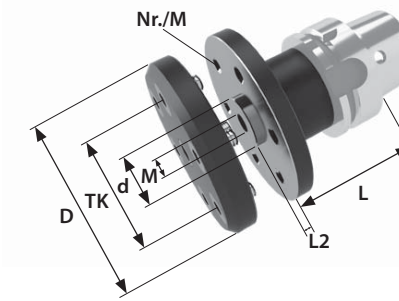
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



Saw Blade Holders with/without Counterflange

Saw Blade Holders are used for circular saws clamping. The tool is locked in place with six screws and (optionally) with a safety counterflange.



| Part code | Description                            | D   | d        | L  | L2  | Nr./M    | TK | M   | Connection     | Balancing (RPM) |
|-----------|--|-----|----------|----|-----|----------|----|-----|----------------|-----------------|
| AS00      | saw blade holder without counterflange | 90  | 30       | 60 | 3   | 6/M5/vts | 60 | M12 | HSK 40 E       | 24.000          |
| AS00      | saw blade holder with counterflange    | 90  | 30       | 60 | 3   | 6/M5/vts | 60 | M12 | HSK 50 A-C-E-F | 24.000          |
| AS01      | saw blade holder without counterflange | 100 | 1 - 1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | HSK 50 A-C-E-F | 24.000          |
| AS02      | saw blade holder with counterflange    | 80  | 1"       | 60 | 3   | 6/M5/vts | 50 | M10 | HSK 63 A-C-E-F | 24.000          |
| AS03      | saw blade holder without counterflange | 90  | 30       | 60 | 2,5 | 6/M5/vts | 60 | M12 | HSK 63 A-C-E-F | 24.000          |
| AS04      | saw blade holder with counterflange    | 100 | 1 - 1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | HSK 63 A-C-E-F | 24.000          |
| AS05      | saw blade holder without counterflange | 100 | 32       | 60 | 4   | 8/M6/vts | 75 | M12 | HSK 63 A-C-E-F | 24.000          |
| AS06      | saw blade holder with counterflange    | 120 | 40       | 80 | 5   | 8/M8/vts | 80 | M16 | HSK 63 A-C-E-F | 24.000          |
| AS07      | saw blade holder without counterflange | 130 | 50       | 80 | 5   | 8/M8/vts | 90 | M16 | HSK 63 A-C-E-F | 24.000          |

Screws not included.

| Part code | Description                            | D   | d        | L  | L2  | Nr./M    | TK | M   | Connection     | Balancing (RPM) |
|-----------|--|-----|----------|----|-----|----------|----|-----|----------------|-----------------|
| AR00      | saw blade holder with counterflange    | 90  | 30       | 60 | 3   | 6/M5/vts | 60 | M12 | HSK 40 E       | 24.000          |
| AR00      | saw blade holder without counterflange | 90  | 30       | 60 | 3   | 6/M5/vts | 60 | M12 | HSK 50 A-C-E-F | 24.000          |
| AR01      | saw blade holder with counterflange    | 100 | 1 - 1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | HSK 50 A-C-E-F | 24.000          |
| AR02      | saw blade holder with counterflange    | 80  | 1"       | 60 | 3   | 6/M5/vts | 50 | M10 | HSK 63 A-C-E-F | 24.000          |
| AR03      | saw blade holder with counterflange    | 90  | 30       | 60 | 2,5 | 6/M5/vts | 60 | M12 | HSK 63 A-C-E-F | 24.000          |
| AR04      | saw blade holder with counterflange    | 100 | 1 - 1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | HSK 63 A-C-E-F | 24.000          |
| AR05      | saw blade holder with counterflange    | 100 | 32       | 60 | 4   | 8/M6/vts | 75 | M12 | HSK 63 A-C-E-F | 24.000          |
| AR06      | saw blade holder with counterflange    | 120 | 40       | 80 | 5   | 8/M8/vts | 80 | M16 | HSK 63 A-C-E-F | 24.000          |
| AR07      | saw blade holder with counterflange    | 130 | 50       | 80 | 5   | 8/M8/vts | 90 | M16 | HSK 63 A-C-E-F | 24.000          |

When the sawblade holder is used with a counterflange, the tool is locked with a central M12 or M16 screw in addition to the standard M5 or M6 ones. The counterflange is recommended for saws with an external diameter wider than 25cm (10")

Product provided with flat screws and central screw.

MANUFACTURING MATERIAL





## Part codes for available HSK CONNECTIONS\*

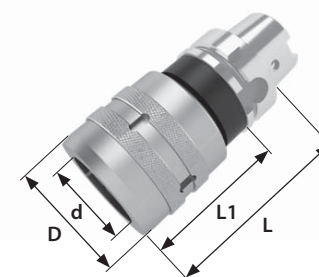
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

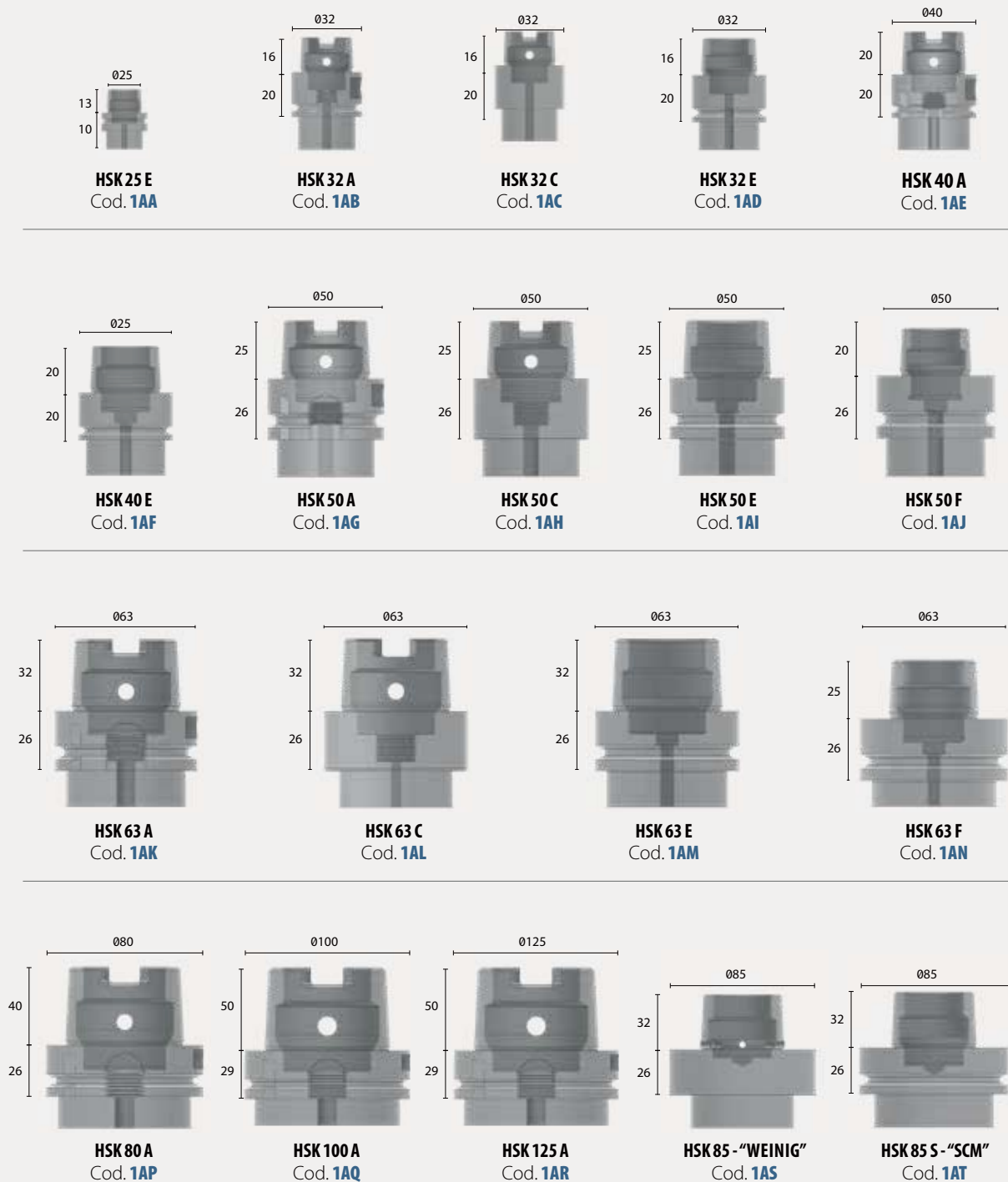
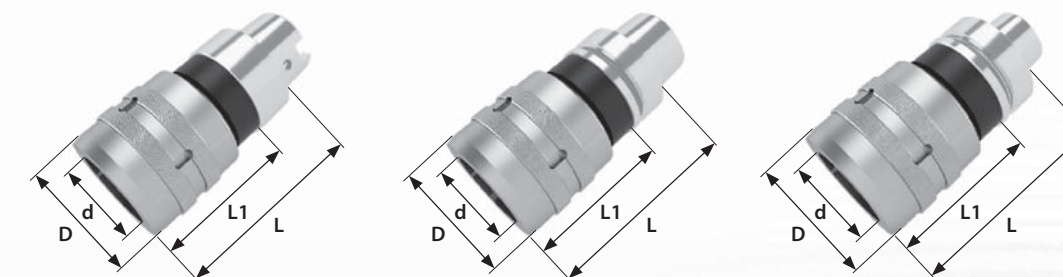


## Milling chucks

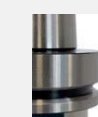
The high clamping force, combined with the ease of use, makes milling chucks ideal for generic cut and milling operations.



| Part code | Description   | D  | d  | L   | L1  | Connection   | Balancing (RPM) |
|-----------|---------------|----|----|-----|-----|--------------|-----------------|
| AT00      | milling chuck | 54 | 20 | 95  | 69  | HSK 50 A-E   | 24.000          |
| AT01      | milling chuck | 64 | 25 | 95  | 69  | HSK 50 A-E   | 24.000          |
| AT01      | milling chuck | 64 | 25 | 95  | 69  | HSK 63 A-E-F | 20.000          |
| AT02      | milling chuck | 74 | 32 | 120 | 69  | HSK 63 A-E-F | 20.000          |
| AT03      | milling chuck | 74 | 32 | 105 | 79  | HSK 80 A     | 18.000          |
| AT04      | milling chuck | 74 | 32 | 105 | 66  | HSK 100 A    | 18.000          |
| AT05      | milling chuck | 74 | 32 | 130 | 101 | HSK 125 A    | 18.000          |



MANUFACTURING MATERIAL

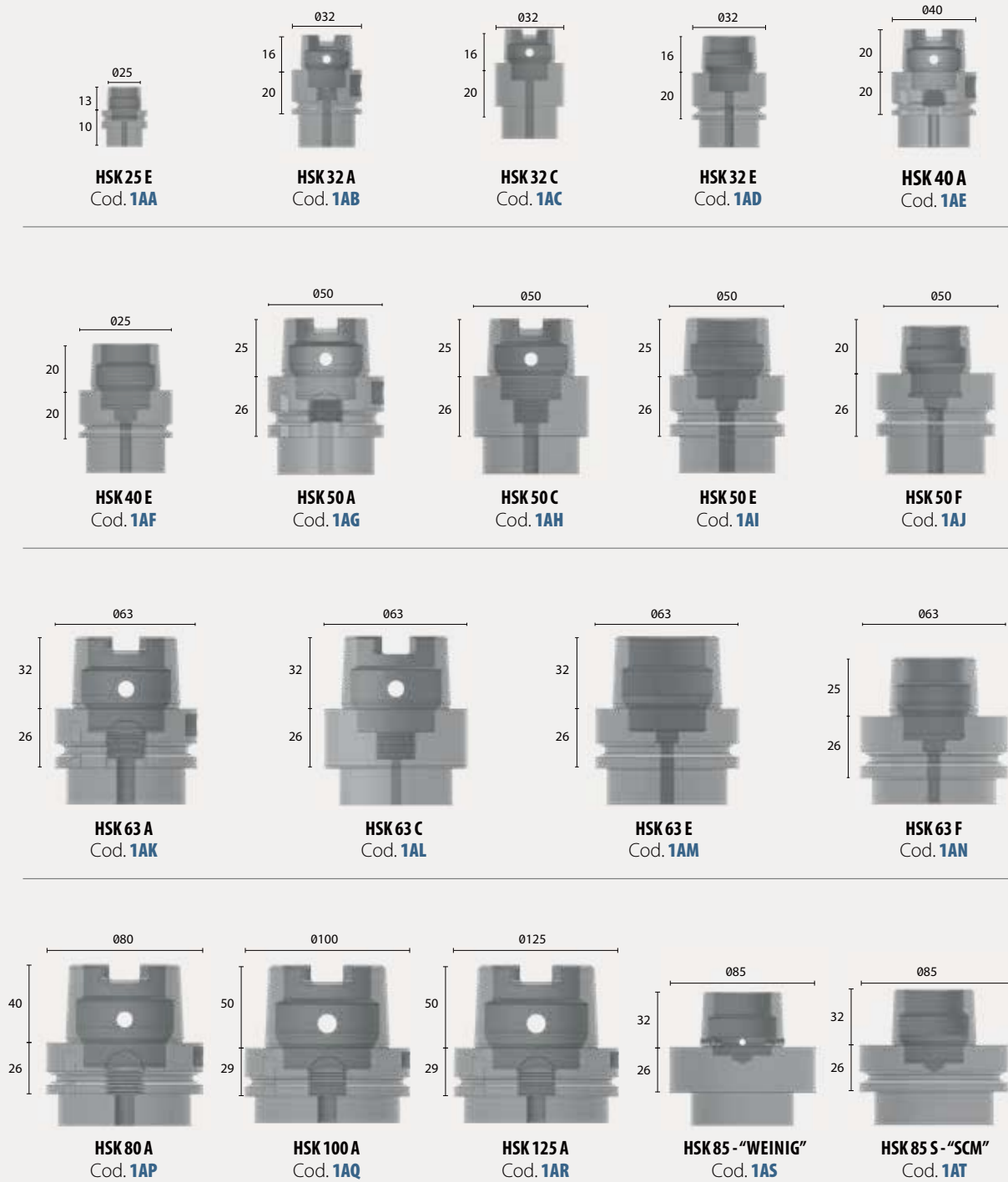


STEEL

## Part codes for available HSK CONNECTIONS\*

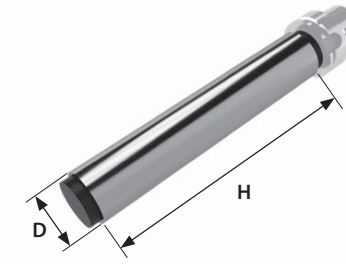
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

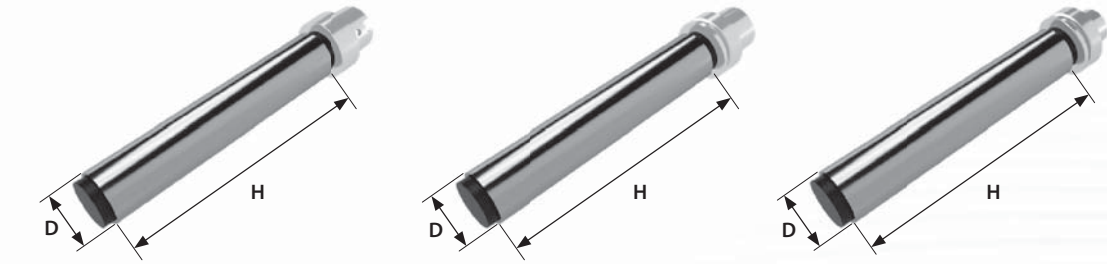


## Test Bars

Test bars provide the maximum precision when performing centering inspections on the electrospindle.



| Part code | Description | D  | H   | Connection          |
|-----------|-------------|----|-----|---------------------|
| AU00      | test bar    | 20 | 200 | HSK 25 E            |
| AU01      | test bar    | 25 | 200 | HSK 32 A-E          |
| AU02      | test bar    | 25 | 300 | HSK 32 A-E          |
| AU03      | test bar    | 30 | 200 | HSK 40 A-E          |
| AU04      | test bar    | 30 | 300 | HSK 40 A-E          |
| AU05      | test bar    | 40 | 200 | HSK 50 A-E-F        |
| AU06      | test bar    | 40 | 300 | HSK 50 A-E-F        |
| AU05      | test bar    | 40 | 200 | HSK 63 A-E-F        |
| AU06      | test bar    | 40 | 300 | HSK 63 A-E-F        |
| AU07      | test bar    | 50 | 200 | HSK 80 A            |
| AU08      | test bar    | 50 | 300 | HSK 80 A            |
| AU07      | test bar    | 50 | 200 | HSK 100 A           |
| AU08      | test bar    | 50 | 300 | HSK 100 A           |
| AU08      | test bar    | 50 | 300 | HSK 125 A           |
| AU08      | test bar    | 50 | 300 | HSK 85 S - HSK 85 W |



MANUFACTURING MATERIAL



## Part codes for available HSK CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

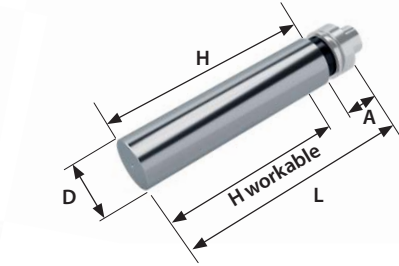
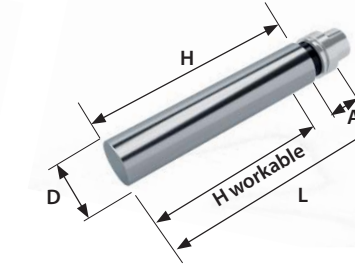
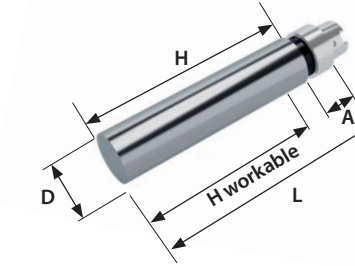
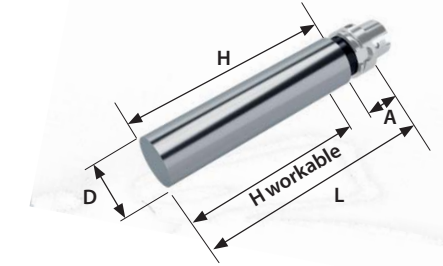


## Blank Bars

Tool holders with finished machine connection and untempered bodies, for the manufacturing of mono-block tools.



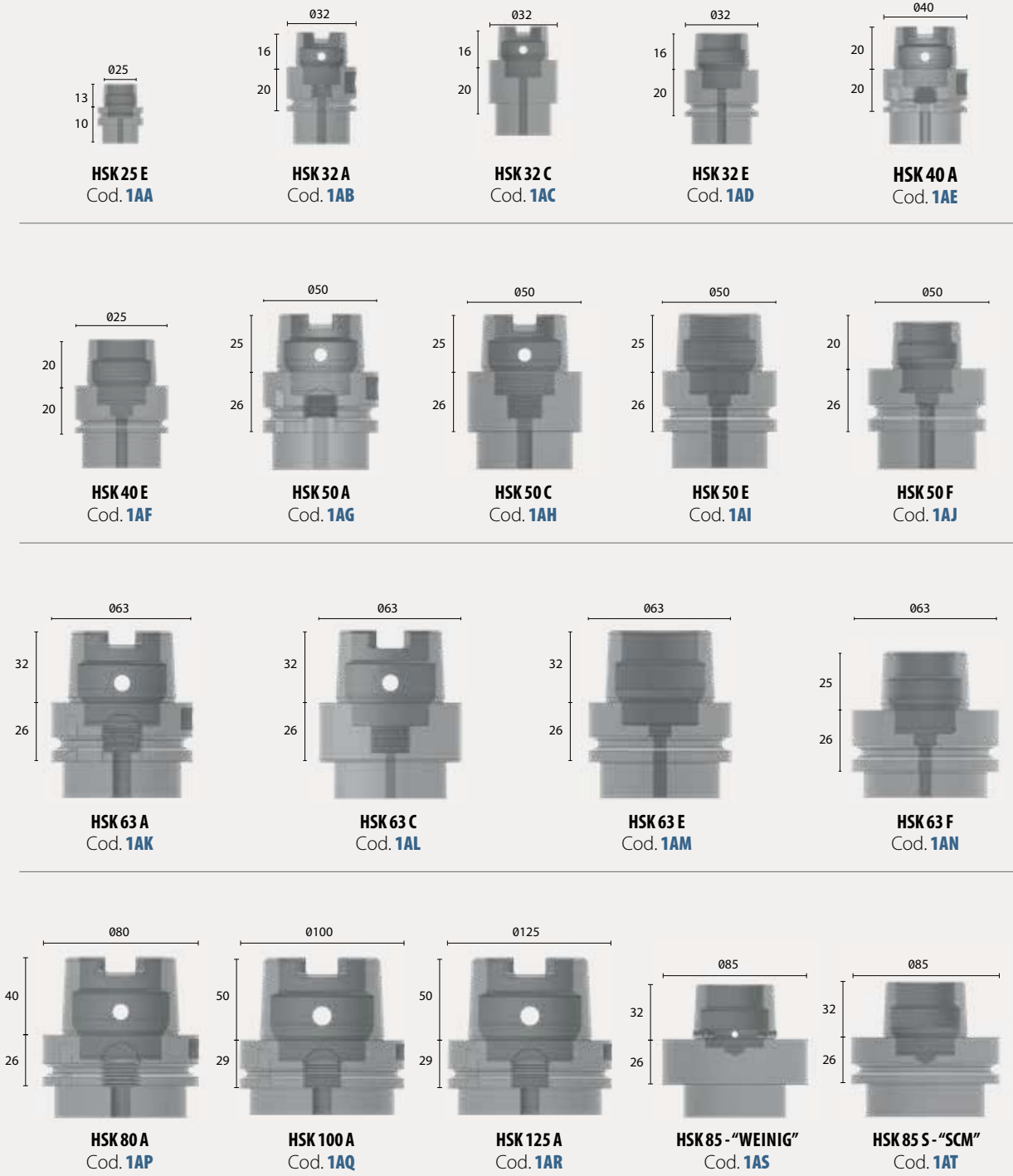
page 167 page 227



| Part code | Description | D      | A  | H workable* | H   | L   | Connection     |
|-----------|-------------|--------|----|-------------|-----|-----|----------------|
| AV00      | blank bar   | 40     | 35 | 165         | 200 | 235 | HSK 40 A-E     |
| AV01      | blank bar   | 50     | 42 | 165         | 200 | 242 | HSK 50 A-C-E-F |
| AV16      | blank bar   | 50     | 33 | 165         | 200 | 233 | HSK 50 A-C-E-F |
| AV02      | blank bar   | 50     | 42 | 265         | 300 | 342 | HSK 50 A-C-E-F |
| AV36      | blank bar   | 50     | 33 | 265         | 300 | 333 | HSK 50 A-C-E-F |
| AV03      | blank bar   | 20     | 42 | 165         | 200 | 242 | HSK 63 A-C-E-F |
| AV37      | blank bar   | 20     | 33 | 165         | 200 | 233 | HSK 63 A-C-E-F |
| AV04      | blank bar   | 25     | 42 | 165         | 200 | 242 | HSK 63 A-C-E-F |
| AV38      | blank bar   | 25     | 33 | 165         | 200 | 233 | HSK 63 A-C-E-F |
| AV10      | blank bar   | 30     | 42 | 207         | 242 | 284 | HSK 63 A-C-E-F |
| AV05      | blank bar   | 30     | 33 | 198         | 233 | 266 | HSK 63 A-C-E-F |
| AV11      | blank bar   | 35     | 42 | 207         | 242 | 284 | HSK 63 A-C-E-F |
| AV06      | blank bar   | 35     | 33 | 198         | 233 | 266 | HSK 63 A-C-E-F |
| AV12      | blank bar   | 1-1/4" | 42 | 207         | 242 | 284 | HSK 63 A-C-E-F |
| AV07      | blank bar   | 1-1/4" | 33 | 198         | 233 | 266 | HSK 63 A-C-E-F |
| AV13      | blank bar   | 1"     | 42 | 207         | 242 | 284 | HSK 63 A-C-E-F |
| AV08      | blank bar   | 1"     | 33 | 198         | 233 | 266 | HSK 63 A-C-E-F |
| AV14      | blank bar   | 40     | 42 | 207         | 242 | 284 | HSK 63 A-C-E-F |
| AV09      | blank bar   | 40     | 33 | 198         | 233 | 266 | HSK 63 A-C-E-F |
| AV39      | blank bar   | 40     | 42 | 165         | 200 | 242 | HSK 63 A-C-E-F |
| AV15      | blank bar   | 40     | 33 | 165         | 200 | 233 | HSK 63 A-C-E-F |
| AV01      | blank bar   | 50     | 42 | 165         | 200 | 242 | HSK 63 A-C-E-F |
| AV16      | blank bar   | 50     | 33 | 165         | 200 | 233 | HSK 63 A-C-E-F |
| AV40      | blank bar   | 63     | 42 | 165         | 200 | 242 | HSK 63 A-C-E-F |
| AV17      | blank bar   | 63     | 33 | 165         | 200 | 233 | HSK 63 A-C-E-F |
| AV41      | blank bar   | 63     | 42 | 265         | 300 | 342 | HSK 63A-C-E-F  |
| AV18      | blank bar   | 63     | 33 | 265         | 300 | 333 | HSK 63 A-C-E-F |
| AV19      | blank bar   | 80     | 42 | 165         | 200 | 242 | HSK 80 A       |
| AV20      | blank bar   | 80     | 42 | 265         | 300 | 342 | HSK 80 A       |
| AV21      | blank bar   | 100    | 45 | 165         | 200 | 245 | HSK 100 A      |

| Part code | Description | D   | A  | H workable* | H   | L   | Connection          |
|-----------|-------------|-----|----|-------------|-----|-----|---------------------|
| AV22      | blank bar   | 100 | 45 | 265         | 300 | 345 | HSK 100 A           |
| AV23      | blank bar   | 125 | 45 | 165         | 200 | 245 | HSK 125 A           |
| AV24      | blank bar   | 125 | 45 | 265         | 300 | 345 | HSK 125 A           |
| AV25      | blank bar   | 90  | 26 | 65          | 100 | 126 | HSK 85 W            |
| AV26      | blank bar   | 90  | 26 | 115         | 150 | 176 | HSK 85 W            |
| AV27      | blank bar   | 90  | 26 | 165         | 200 | 226 | HSK 85 W            |
| AV28      | blank bar   | 90  | 26 | 215         | 250 | 276 | HSK 85 W            |
| AV29      | blank bar   | 90  | 26 | 265         | 300 | 326 | HSK 85 W            |
| AV30      | blank bar   | 40  | 26 | 265         | 300 | 326 | HSK 85 S            |
| AV31      | blank bar   | 40  | 26 | 65          | 100 | 126 | HSK 85 S            |
| AV32      | blank bar   | 40  | 26 | 115         | 150 | 176 | HSK 85 S - HSK 85 W |
| AV33      | blank bar   | 50  | 26 | 165         | 200 | 226 | HSK 85 S - HSK 85 W |
| AV34      | blank bar   | 50  | 26 | 215         | 250 | 276 | HSK 85 S            |
| AV35      | blank bar   | 50  | 26 | 265         | 300 | 326 | HSK 85 S            |

\*indicative measure calculated on the diffusion area of the heat treatment



MANUFACTURING MATERIAL



Part codes for available HSK CONNECTIONS\*

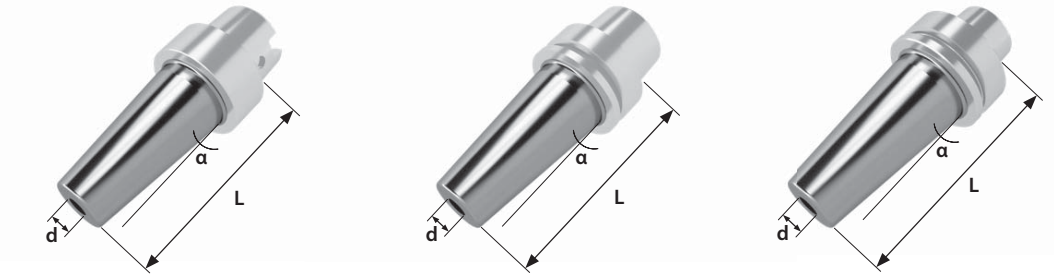
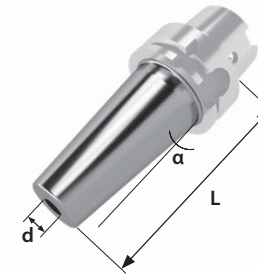
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



Shrink Fit Tool Holders

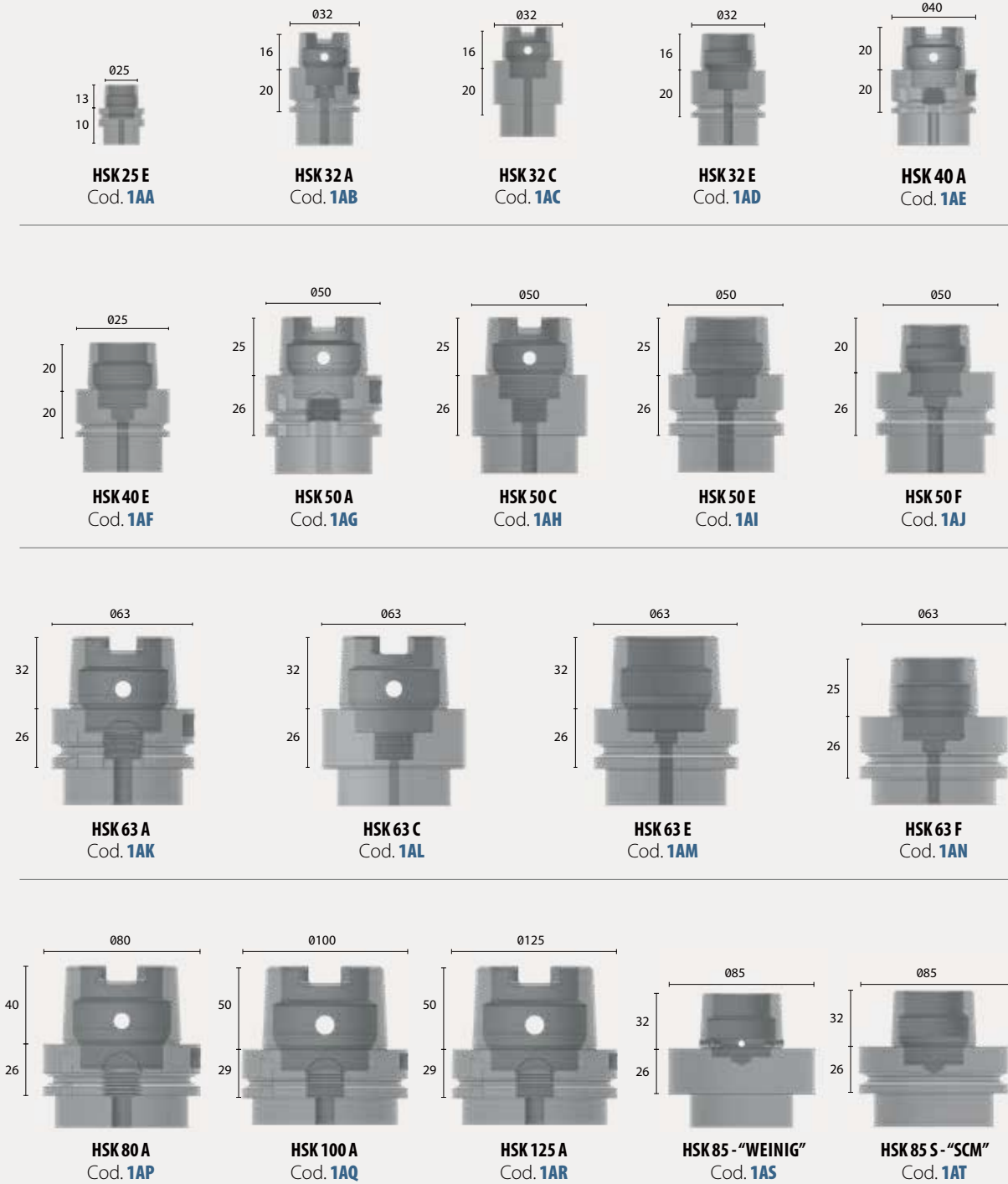
With run out specs up to ten times better than the collet chucks, the Shrink Fit Tool Holders are the most precise and the most reliable holding systems for high speed operations.



| Part code | Description            | d  | L  | Angle (α) | Connection     | Balancing (RPM) |
|-----------|------------------------|----|----|-----------|----------------|-----------------|
| B000      | shrink fit tool holder | 3  | 75 | 4°30'     | HSK 25 E       | 70.000          |
| B000      | shrink fit tool holder | 3  | 75 | 4°30'     | HSK 32 A-E     | 50.000          |
| B001      | shrink fit tool holder | 4  | 75 | 4°30'     | HSK 25 E       | 70.000          |
| B001      | shrink fit tool holder | 4  | 75 | 4°30'     | HSK 32 A-E     | 50.000          |
| B001      | shrink fit tool holder | 4  | 75 | 4°30'     | HSK 40 A-E     | 24.000          |
| B001      | shrink fit tool holder | 4  | 75 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B001      | shrink fit tool holder | 4  | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B002      | shrink fit tool holder | 6  | 75 | 4°30'     | HSK 25 E       | 70.000          |
| B002      | shrink fit tool holder | 6  | 75 | 4°30'     | HSK 32 A-E     | 50.000          |
| B002      | shrink fit tool holder | 6  | 75 | 4°30'     | HSK 40 A-E     | 24.000          |
| B002      | shrink fit tool holder | 6  | 75 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B002      | shrink fit tool holder | 6  | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B002      | shrink fit tool holder | 6  | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B002      | shrink fit tool holder | 6  | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B003      | shrink fit tool holder | 8  | 75 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B003      | shrink fit tool holder | 8  | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B003      | shrink fit tool holder | 8  | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B003      | shrink fit tool holder | 8  | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B004      | shrink fit tool holder | 10 | 75 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B004      | shrink fit tool holder | 10 | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B004      | shrink fit tool holder | 10 | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B004      | shrink fit tool holder | 10 | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B005      | shrink fit tool holder | 12 | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B005      | shrink fit tool holder | 12 | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B005      | shrink fit tool holder | 12 | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B006      | shrink fit tool holder | 14 | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B006      | shrink fit tool holder | 14 | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B006      | shrink fit tool holder | 14 | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B007      | shrink fit tool holder | 16 | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B007      | shrink fit tool holder | 16 | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B007      | shrink fit tool holder | 16 | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B008      | shrink fit tool holder | 18 | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B008      | shrink fit tool holder | 18 | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B008      | shrink fit tool holder | 18 | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B009      | shrink fit tool holder | 20 | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B009      | shrink fit tool holder | 20 | 75 | 4°30'     | HSK 80 A       | 18.000          |

| Part code | Description            | d    | L  | Angle (α) | Connection     | Balancing (RPM) |
|-----------|------------------------|------|----|-----------|----------------|-----------------|
| B009      | shrink fit tool holder | 20   | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B009      | shrink fit tool holder | 20   | 75 | 4°30'     | HSK 125 A      | 18.000          |
| B010      | shrink fit tool holder | 1/4" | 75 | 4°30'     | HSK 25 E       | 70.000          |
| B010      | shrink fit tool holder | 1/4" | 75 | 4°30'     | HSK 32 A-E     | 50.000          |
| B010      | shrink fit tool holder | 1/4" | 75 | 4°30'     | HSK 40 A-E     | 24.000          |
| B010      | shrink fit tool holder | 1/4" | 75 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B010      | shrink fit tool holder | 1/4" | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B010      | shrink fit tool holder | 1/4" | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B010      | shrink fit tool holder | 1/4" | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B011      | shrink fit tool holder | 3/8" | 75 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B011      | shrink fit tool holder | 3/8" | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B011      | shrink fit tool holder | 3/8" | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B011      | shrink fit tool holder | 3/8" | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B012      | shrink fit tool holder | 1/2" | 75 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B012      | shrink fit tool holder | 1/2" | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B012      | shrink fit tool holder | 1/2" | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B012      | shrink fit tool holder | 1/2" | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B013      | shrink fit tool holder | 5/8" | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B013      | shrink fit tool holder | 5/8" | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B013      | shrink fit tool holder | 5/8" | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B014      | shrink fit tool holder | 3/4" | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B014      | shrink fit tool holder | 3/4" | 75 | 4°30'     | HSK 80 A       | 18.000          |
| B014      | shrink fit tool holder | 3/4" | 75 | 4°30'     | HSK 100 A      | 18.000          |
| B014      | shrink fit tool holder | 3/4" | 75 | 4°30'     | HSK 125 A      | 18.000          |
| B015      | shrink fit tool holder | 3    | 90 | 4°30'     | HSK 25 E       | 70.000          |
| B015      | shrink fit tool holder | 3    | 90 | 4°30'     | HSK 32 A-E     | 50.000          |
| B016      | shrink fit tool holder | 4    | 90 | 4°30'     | HSK 25 E       | 70.000          |

MANUFACTURING MATERIAL



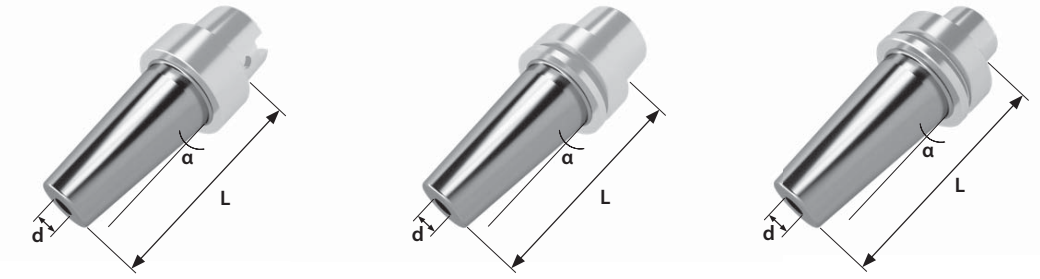
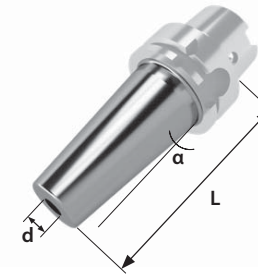
Part codes for available HSK CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

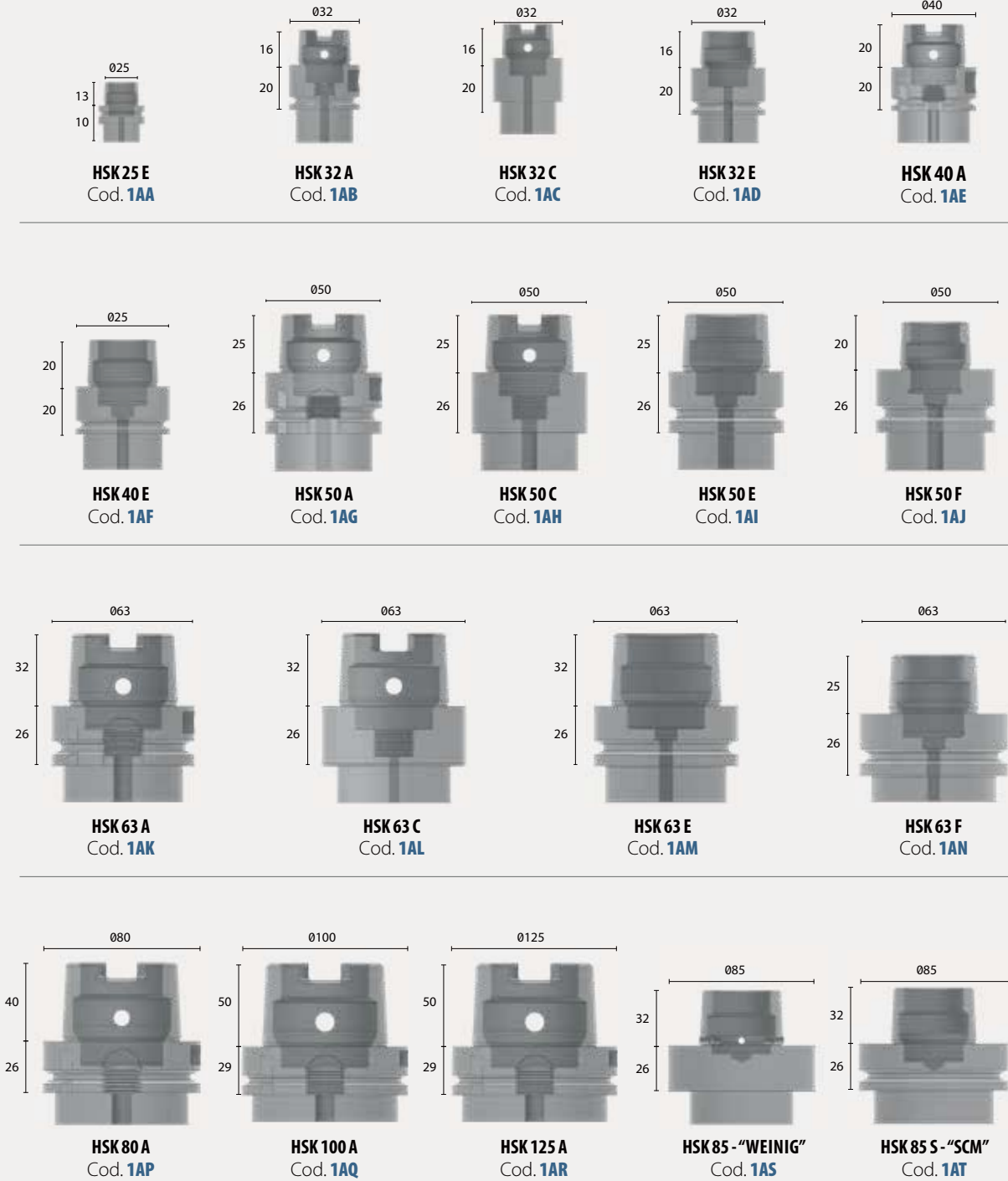


Shrink Fit Tool Holders



| Part code | Description            | d  | L  | Angle (α) | Connection     | Balancing (RPM) |
|-----------|------------------------|----|----|-----------|----------------|-----------------|
| B016      | shrink fit tool holder | 4  | 90 | 4°30'     | HSK 32 A-E     | 50.000          |
| B016      | shrink fit tool holder | 4  | 90 | 4°30'     | HSK 40 A-E     | 24.000          |
| B016      | shrink fit tool holder | 4  | 90 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B016      | shrink fit tool holder | 4  | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B017      | shrink fit tool holder | 6  | 90 | 4°30'     | HSK 25 E       | 70.000          |
| B017      | shrink fit tool holder | 6  | 90 | 4°30'     | HSK 32 A-E     | 50.000          |
| B017      | shrink fit tool holder | 6  | 90 | 4°30'     | HSK 40 A-E     | 24.000          |
| B017      | shrink fit tool holder | 6  | 90 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B017      | shrink fit tool holder | 6  | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B017      | shrink fit tool holder | 6  | 90 | 4°30'     | HSK 80 A       | 24.000          |
| B017      | shrink fit tool holder | 6  | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B018      | shrink fit tool holder | 8  | 90 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B018      | shrink fit tool holder | 8  | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B018      | shrink fit tool holder | 8  | 90 | 4°30'     | HSK 80 A       | 24.000          |
| B018      | shrink fit tool holder | 8  | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B019      | shrink fit tool holder | 10 | 90 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B019      | shrink fit tool holder | 10 | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B019      | shrink fit tool holder | 10 | 90 | 4°30'     | HSK 80 A       | 24.000          |
| B019      | shrink fit tool holder | 10 | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B020      | shrink fit tool holder | 12 | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B020      | shrink fit tool holder | 12 | 90 | 4°30'     | HSK 80 A       | 24.000          |
| B020      | shrink fit tool holder | 12 | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B021      | shrink fit tool holder | 14 | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B021      | shrink fit tool holder | 14 | 90 | 4°30'     | HSK 80 A       | 24.000          |
| B021      | shrink fit tool holder | 14 | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B022      | shrink fit tool holder | 16 | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B022      | shrink fit tool holder | 16 | 90 | 4°30'     | HSK 80 A       | 24.000          |
| B022      | shrink fit tool holder | 16 | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B023      | shrink fit tool holder | 18 | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B023      | shrink fit tool holder | 18 | 90 | 4°30'     | HSK 80 A       | 24.000          |
| B023      | shrink fit tool holder | 18 | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B024      | shrink fit tool holder | 20 | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B024      | shrink fit tool holder | 20 | 90 | 4°30'     | HSK 80 A       | 24.000          |
| B024      | shrink fit tool holder | 20 | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B024      | shrink fit tool holder | 20 | 90 | 4°30'     | HSK 125 A      | 18.000          |
| B025      | shrink fit tool holder | 25 | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |

| Part code | Description            | d    | L  | Angle (α) | Connection     | Balancing (RPM) |
|-----------|------------------------|------|----|-----------|----------------|-----------------|
| B025      | shrink fit tool holder | 25   | 90 | 4°30'     | HSK 80 A       | 18.000          |
| B025      | shrink fit tool holder | 25   | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B025      | shrink fit tool holder | 25   | 90 | 4°30'     | HSK 125 A      | 18.000          |
| B026      | shrink fit tool holder | 32   | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B026      | shrink fit tool holder | 32   | 90 | 4°30'     | HSK 80 A       | 18.000          |
| B026      | shrink fit tool holder | 32   | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B026      | shrink fit tool holder | 32   | 90 | 4°30'     | HSK 125 A      | 18.000          |
| B027      | shrink fit tool holder | 1/4" | 90 | 4°30'     | HSK 25 E       | 70.000          |
| B027      | shrink fit tool holder | 1/4" | 90 | 4°30'     | HSK 32 A-E     | 50.000          |
| B027      | shrink fit tool holder | 1/4" | 90 | 4°30'     | HSK 40 A-E     | 24.000          |
| B027      | shrink fit tool holder | 1/4" | 90 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B027      | shrink fit tool holder | 1/4" | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B027      | shrink fit tool holder | 1/4" | 90 | 4°30'     | HSK 80 A       | 18.000          |
| B027      | shrink fit tool holder | 1/4" | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B028      | shrink fit tool holder | 3/8" | 90 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| B028      | shrink fit tool holder | 3/8" | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B028      | shrink fit tool holder | 3/8" | 90 | 4°30'     | HSK 80 A       | 18.000          |
| B028      | shrink fit tool holder | 3/8" | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B029      | shrink fit tool holder | 1/2" | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B029      | shrink fit tool holder | 1/2" | 90 | 4°30'     | HSK 80 A       | 18.000          |
| B029      | shrink fit tool holder | 1/2" | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B029      | shrink fit tool holder | 1/2" | 90 | 4°30'     | HSK 125 A      | 18.000          |
| B030      | shrink fit tool holder | 5/8" | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B030      | shrink fit tool holder | 5/8" | 90 | 4°30'     | HSK 80 A       | 18.000          |
| B030      | shrink fit tool holder | 5/8" | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B031      | shrink fit tool holder | 3/4" | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B031      | shrink fit tool holder | 3/4" | 90 | 4°30'     | HSK 80 A       | 18.000          |
| B031      | shrink fit tool holder | 3/4" | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B031      | shrink fit tool holder | 3/4" | 90 | 4°30'     | HSK 125 A      | 18.000          |
| B032      | shrink fit tool holder | 1"   | 90 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| B032      | shrink fit tool holder | 1"   | 90 | 4°30'     | HSK 80 A       | 18.000          |
| B032      | shrink fit tool holder | 1"   | 90 | 4°30'     | HSK 100 A      | 18.000          |
| B032      | shrink fit tool holder | 1"   | 90 | 4°30'     | HSK 125 A      | 18.000          |
| B033      | shrink fit tool holder | 25   | 75 | 4°30'     | HSK 63 A-C-E-F | 24.000          |



Part codes for available HSK CONNECTIONS\*

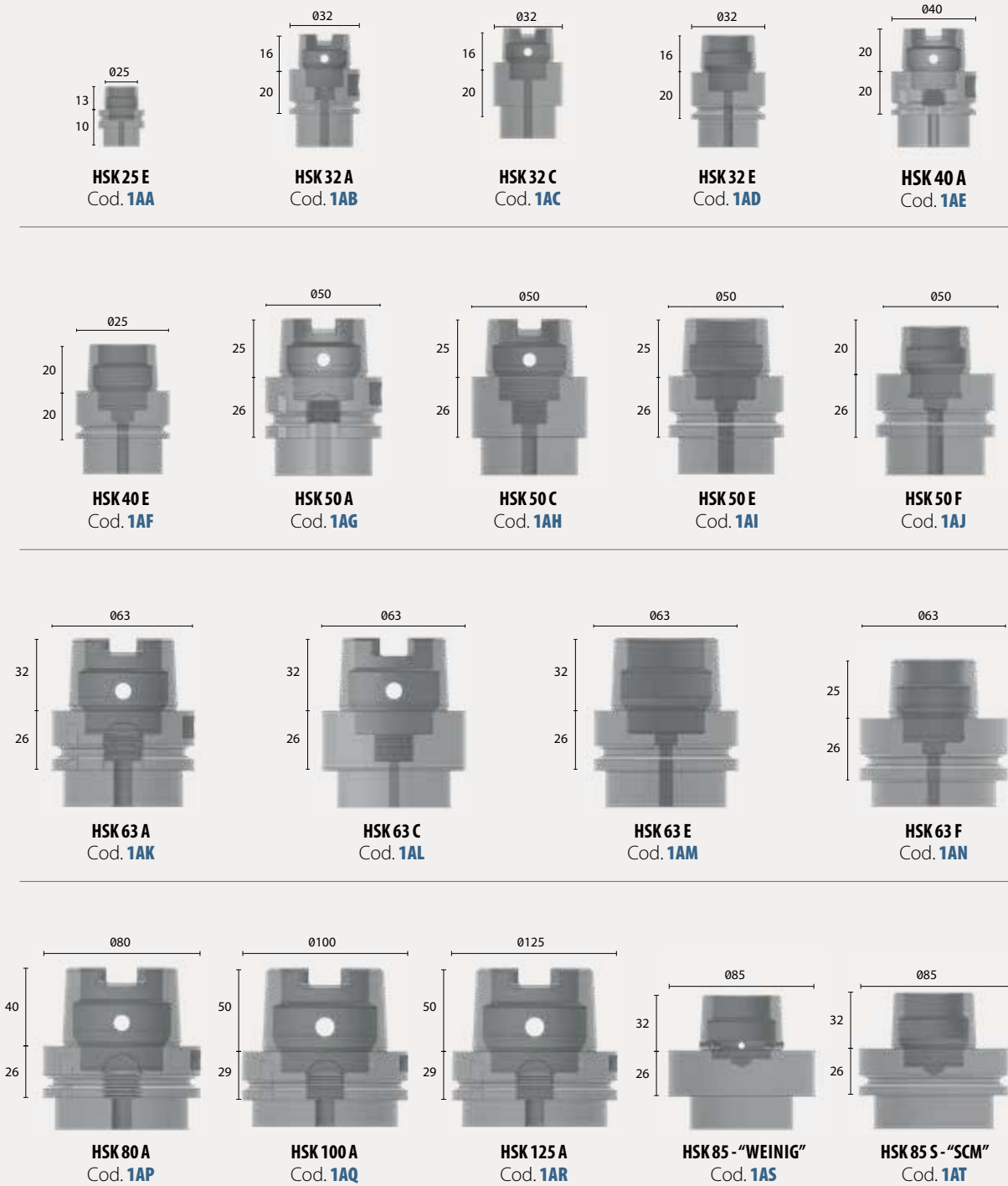
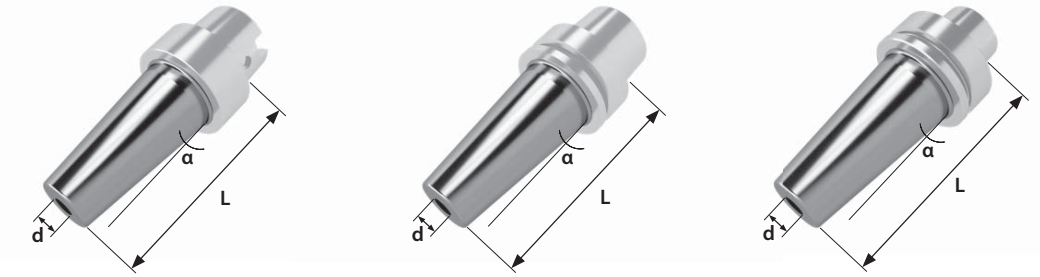
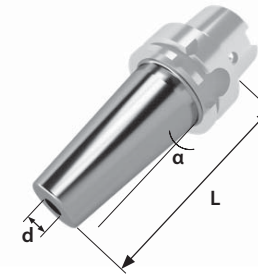
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



Shrink Fit Tool Holders - Extended version

With run out specs up to ten times better than the collet chucks, the Shrink Fit Tool Holders are the most precise and the most reliable holding systems for high speed operations.



| Part code | Description            | d  | L   | Angle (α) | Connection     | Balancing (RPM) |
|-----------|------------------------|----|-----|-----------|----------------|-----------------|
| C000      | shrink fit tool holder | 3  | 120 | 4°30'     | HSK 25 E       | 70.000          |
| C000      | shrink fit tool holder | 3  | 120 | 4°30'     | HSK 32 A-E     | 50.000          |
| C001      | shrink fit tool holder | 4  | 120 | 4°30'     | HSK 32 A-E     | 50.000          |
| C001      | shrink fit tool holder | 4  | 120 | 4°30'     | HSK 40 A-E     | 24.000          |
| C001      | shrink fit tool holder | 4  | 120 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C001      | shrink fit tool holder | 4  | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C002      | shrink fit tool holder | 6  | 120 | 4°30'     | HSK 25 E       | 70.000          |
| C002      | shrink fit tool holder | 6  | 120 | 4°30'     | HSK 32 A-E     | 50.000          |
| C002      | shrink fit tool holder | 6  | 120 | 4°30'     | HSK 40 A-E     | 24.000          |
| C002      | shrink fit tool holder | 6  | 120 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C002      | shrink fit tool holder | 6  | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C002      | shrink fit tool holder | 6  | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C002      | shrink fit tool holder | 6  | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C003      | shrink fit tool holder | 8  | 120 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C003      | shrink fit tool holder | 8  | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C003      | shrink fit tool holder | 8  | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C003      | shrink fit tool holder | 8  | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C004      | shrink fit tool holder | 10 | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C004      | shrink fit tool holder | 10 | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C004      | shrink fit tool holder | 10 | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C005      | shrink fit tool holder | 12 | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C005      | shrink fit tool holder | 12 | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C005      | shrink fit tool holder | 12 | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C006      | shrink fit tool holder | 14 | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C006      | shrink fit tool holder | 14 | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C006      | shrink fit tool holder | 14 | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C007      | shrink fit tool holder | 16 | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C007      | shrink fit tool holder | 16 | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C007      | shrink fit tool holder | 16 | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C008      | shrink fit tool holder | 18 | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C008      | shrink fit tool holder | 18 | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C008      | shrink fit tool holder | 18 | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C009      | shrink fit tool holder | 20 | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C009      | shrink fit tool holder | 20 | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C009      | shrink fit tool holder | 20 | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C009      | shrink fit tool holder | 20 | 120 | 4°30'     | HSK 125 A      | 18.000          |

| Part code | Description            | d    | L   | Angle (α) | Connection     | Balancing (RPM) |
|-----------|------------------------|------|-----|-----------|----------------|-----------------|
| C010      | shrink fit tool holder | 25   | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C010      | shrink fit tool holder | 25   | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C010      | shrink fit tool holder | 25   | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C010      | shrink fit tool holder | 25   | 120 | 4°30'     | HSK 125 A      | 18.000          |
| C011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | HSK 25 E       | 70.000          |
| C011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | HSK 32 A-E     | 50.000          |
| C011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | HSK 40 A-E     | 24.000          |
| C011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | HSK 125 A      | 18.000          |
| C014      | shrink fit tool holder | 5/8" | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C014      | shrink fit tool holder | 5/8" | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C014      | shrink fit tool holder | 5/8" | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C015      | shrink fit tool holder | 3/4" | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C015      | shrink fit tool holder | 3/4" | 120 | 4°30'     | HSK 80 A       | 18.000          |
| C015      | shrink fit tool holder | 3/4" | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C015      | shrink fit tool holder | 3/4" | 120 | 4°30'     | HSK 125 A      | 18.000          |
| C016      | shrink fit tool holder | 1"   | 120 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C016      | shrink fit tool holder | 1"   | 120 | 4°30'     | HSK 80 A       | 18.000          |

MANUFACTURING MATERIAL



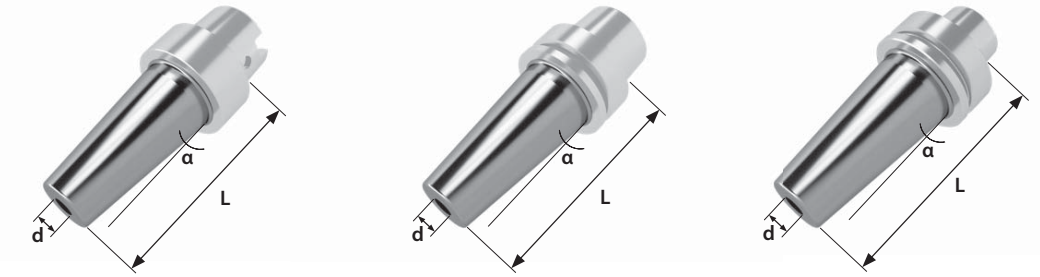
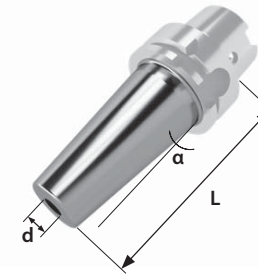
Part codes for available HSK CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

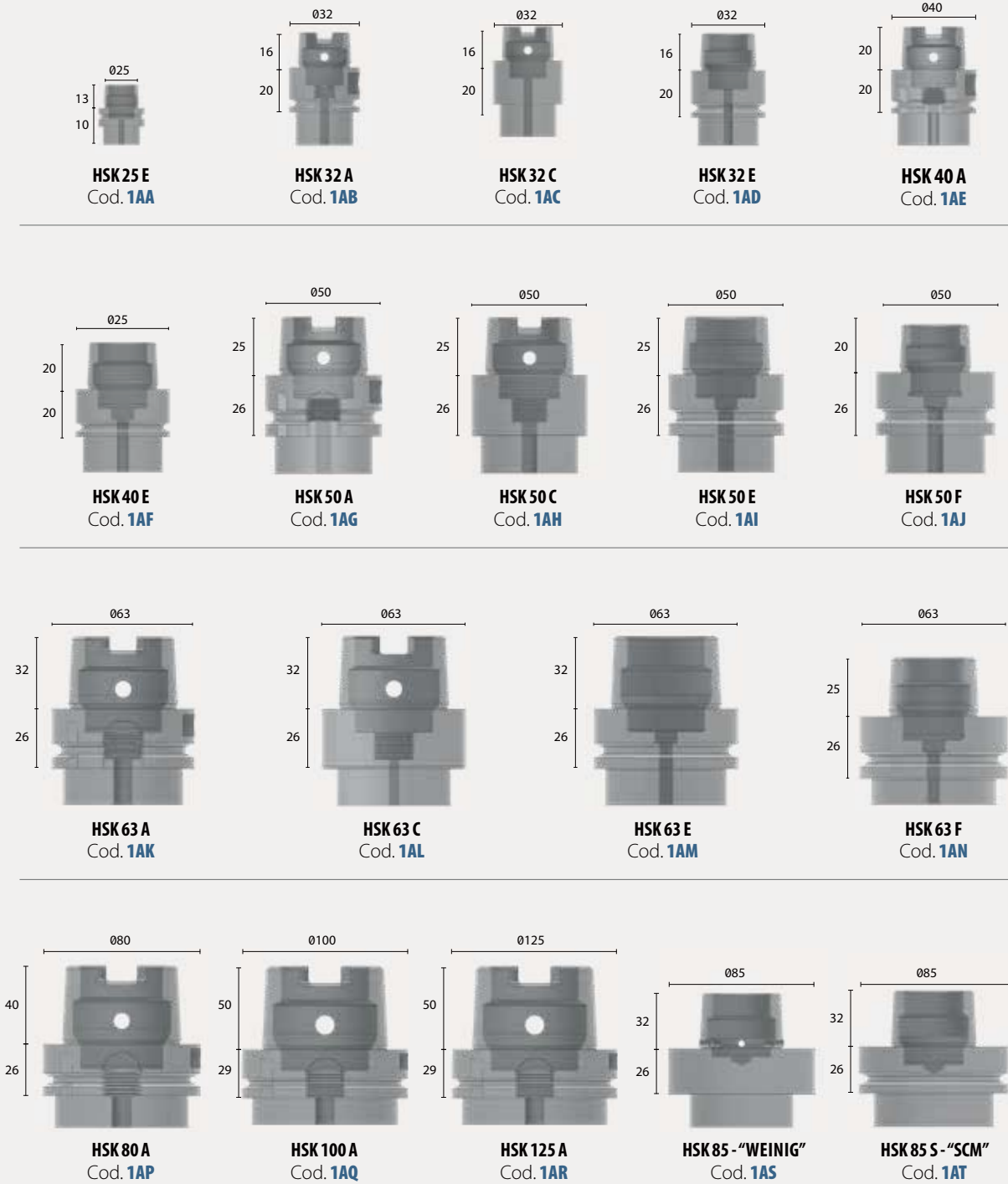


Shrink Fit Tool Holders - Extended version



| Part code | Description            | d  | L   | Angle (α) | Connection     | Balancing (RPM) |
|-----------|------------------------|----|-----|-----------|----------------|-----------------|
| C016      | shrink fit tool holder | 1" | 120 | 4°30'     | HSK 100 A      | 18.000          |
| C016      | shrink fit tool holder | 1" | 120 | 4°30'     | HSK 125 A      | 18.000          |
| C017      | shrink fit tool holder | 3  | 160 | 4°30'     | HSK 25 E       | 70.000          |
| C017      | shrink fit tool holder | 3  | 160 | 4°30'     | HSK 32 A-E     | 50.000          |
| C018      | shrink fit tool holder | 4  | 160 | 4°30'     | HSK 32 A-E     | 50.000          |
| C018      | shrink fit tool holder | 4  | 160 | 4°30'     | HSK 40 A-E     | 24.000          |
| C018      | shrink fit tool holder | 4  | 160 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C018      | shrink fit tool holder | 4  | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C019      | shrink fit tool holder | 6  | 160 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C019      | shrink fit tool holder | 6  | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C019      | shrink fit tool holder | 6  | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C019      | shrink fit tool holder | 6  | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C020      | shrink fit tool holder | 8  | 160 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C020      | shrink fit tool holder | 8  | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C020      | shrink fit tool holder | 8  | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C020      | shrink fit tool holder | 8  | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C021      | shrink fit tool holder | 10 | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C021      | shrink fit tool holder | 10 | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C021      | shrink fit tool holder | 10 | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C022      | shrink fit tool holder | 12 | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C022      | shrink fit tool holder | 12 | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C022      | shrink fit tool holder | 12 | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C023      | shrink fit tool holder | 14 | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C023      | shrink fit tool holder | 14 | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C023      | shrink fit tool holder | 14 | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C024      | shrink fit tool holder | 16 | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C024      | shrink fit tool holder | 16 | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C024      | shrink fit tool holder | 16 | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C025      | shrink fit tool holder | 18 | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C025      | shrink fit tool holder | 18 | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C025      | shrink fit tool holder | 18 | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C026      | shrink fit tool holder | 20 | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C026      | shrink fit tool holder | 20 | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C026      | shrink fit tool holder | 20 | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C027      | shrink fit tool holder | 25 | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C027      | shrink fit tool holder | 25 | 160 | 4°30'     | HSK 80 A       | 18.000          |

| Part code | Description            | d    | L   | Angle (α) | Connection     | Balancing (RPM) |
|-----------|------------------------|------|-----|-----------|----------------|-----------------|
| C027      | shrink fit tool holder | 25   | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C028      | shrink fit tool holder | 1/4" | 160 | 4°30'     | HSK 25 E       | 70.000          |
| C028      | shrink fit tool holder | 1/4" | 160 | 4°30'     | HSK 32 A-E     | 50.000          |
| C028      | shrink fit tool holder | 1/4" | 160 | 4°30'     | HSK 40 A-E     | 24.000          |
| C028      | shrink fit tool holder | 1/4" | 160 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C028      | shrink fit tool holder | 1/4" | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C028      | shrink fit tool holder | 1/4" | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C028      | shrink fit tool holder | 1/4" | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C029      | shrink fit tool holder | 3/8" | 160 | 4°30'     | HSK 50 A-C-E-F | 24.000          |
| C029      | shrink fit tool holder | 3/8" | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C029      | shrink fit tool holder | 3/8" | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C029      | shrink fit tool holder | 3/8" | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C030      | shrink fit tool holder | 1/2" | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C030      | shrink fit tool holder | 1/2" | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C030      | shrink fit tool holder | 1/2" | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C031      | shrink fit tool holder | 5/8" | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C031      | shrink fit tool holder | 5/8" | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C031      | shrink fit tool holder | 5/8" | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C032      | shrink fit tool holder | 3/4" | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C032      | shrink fit tool holder | 3/4" | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C032      | shrink fit tool holder | 3/4" | 160 | 4°30'     | HSK 100 A      | 18.000          |
| C033      | shrink fit tool holder | 1"   | 160 | 4°30'     | HSK 63 A-C-E-F | 24.000          |
| C033      | shrink fit tool holder | 1"   | 160 | 4°30'     | HSK 80 A       | 18.000          |
| C033      | shrink fit tool holder | 1"   | 160 | 4°30'     | HSK 100 A      | 18.000          |



Part codes for available HSK CONNECTIONS\*

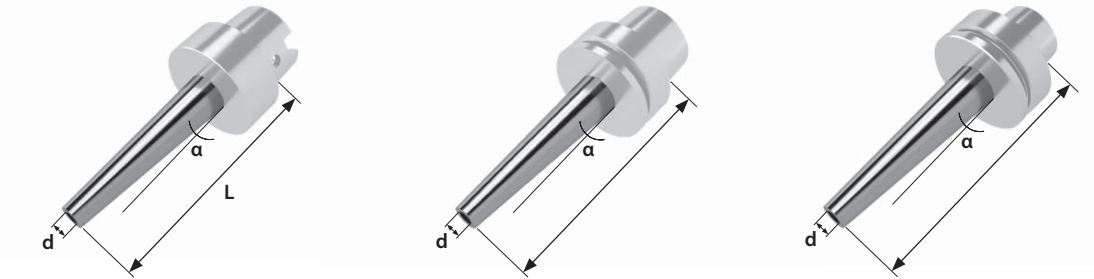
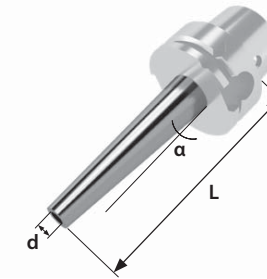
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.



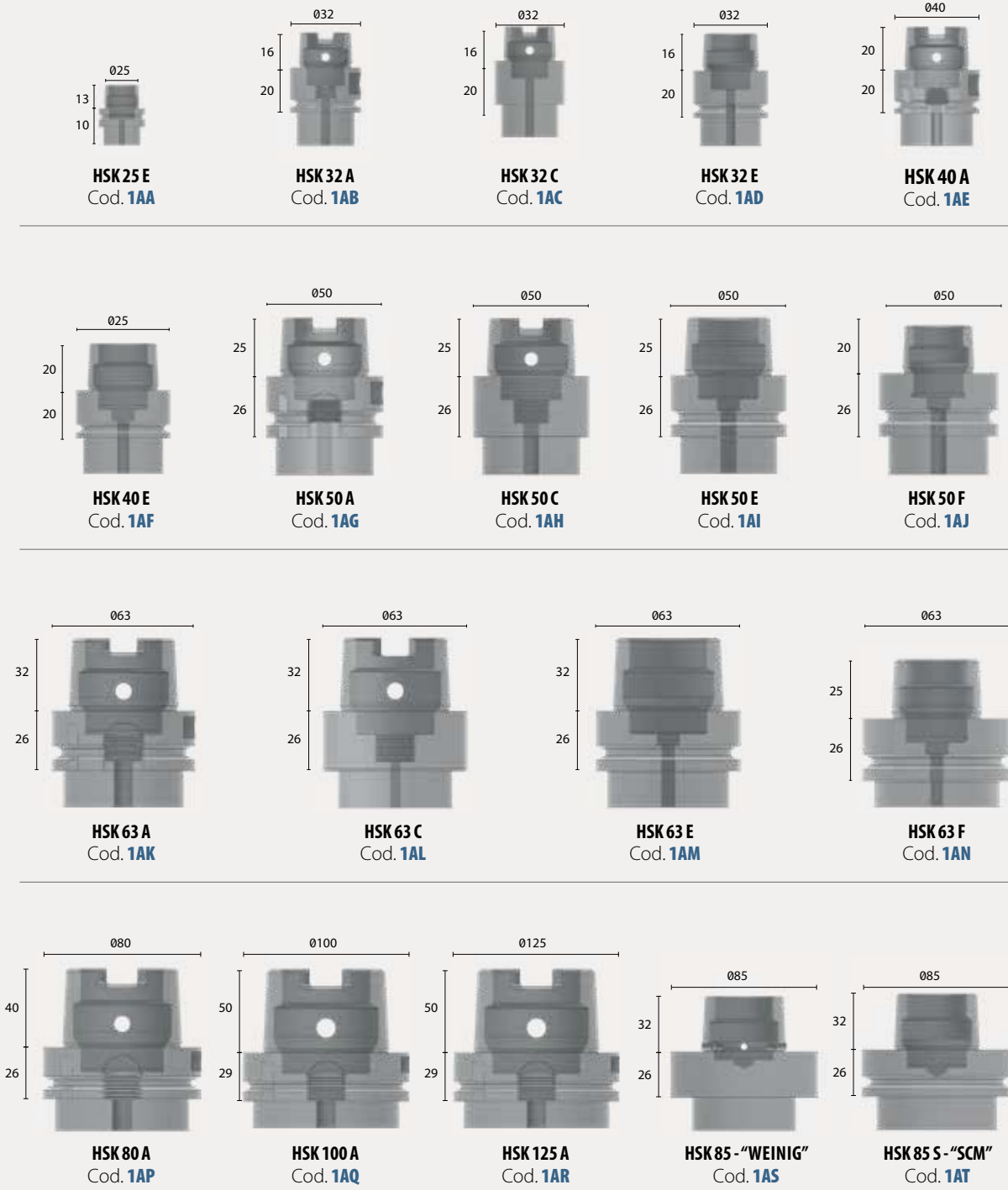
Shrink Fit Tool Holders - Slim version

The narrow body of the shrink fit tool holder "Slim" are ideal for deep precision milling operations.



| Part code | Description                           | d | L   | Angle (α) | Connection   | Balancing (RPM) |
|-----------|---------------------------------------|---|-----|-----------|--------------|-----------------|
| D000      | shrink fit tool holder - slim version | 3 | 75  | 3°        | HSK 25 E     | 70.000          |
| D000      | shrink fit tool holder - slim version | 3 | 75  | 3°        | HSK 32 A-E   | 50.000          |
| D001      | shrink fit tool holder - slim version | 4 | 75  | 3°        | HSK 25 E     | 70.000          |
| D001      | shrink fit tool holder - slim version | 4 | 75  | 3°        | HSK 32 A-E   | 50.000          |
| D001      | shrink fit tool holder - slim version | 4 | 75  | 3°        | HSK 40 A-E   | 24.000          |
| D001      | shrink fit tool holder - slim version | 4 | 75  | 3°        | HSK 50 A-E-F | 24.000          |
| D001      | shrink fit tool holder - slim version | 4 | 75  | 3°        | HSK 63 A-E-F | 24.000          |
| D002      | shrink fit tool holder - slim version | 6 | 75  | 3°        | HSK 25 E     | 70.000          |
| D002      | shrink fit tool holder - slim version | 6 | 75  | 3°        | HSK 32 A-E   | 50.000          |
| D002      | shrink fit tool holder - slim version | 6 | 75  | 3°        | HSK 40 A-E   | 24.000          |
| D002      | shrink fit tool holder - slim version | 6 | 75  | 3°        | HSK 50 A-E-F | 24.000          |
| D002      | shrink fit tool holder - slim version | 6 | 75  | 3°        | HSK 63 A-E-F | 24.000          |
| D002      | shrink fit tool holder - slim version | 6 | 75  | 3°        | HSK 80 A     | 18.000          |
| D002      | shrink fit tool holder - slim version | 6 | 75  | 3°        | HSK 100 A    | 18.000          |
| D003      | shrink fit tool holder - slim version | 3 | 90  | 3°        | HSK 25 E     | 70.000          |
| D003      | shrink fit tool holder - slim version | 3 | 90  | 3°        | HSK 32 A-E   | 50.000          |
| D004      | shrink fit tool holder - slim version | 4 | 90  | 3°        | HSK 25 E     | 70.000          |
| D004      | shrink fit tool holder - slim version | 4 | 90  | 3°        | HSK 32 A-E   | 50.000          |
| D004      | shrink fit tool holder - slim version | 4 | 90  | 3°        | HSK 40 A-E   | 24.000          |
| D004      | shrink fit tool holder - slim version | 4 | 90  | 3°        | HSK 50 A-E-F | 24.000          |
| D004      | shrink fit tool holder - slim version | 4 | 90  | 3°        | HSK 63 A-E-F | 24.000          |
| D005      | shrink fit tool holder - slim version | 6 | 90  | 3°        | HSK 25 E     | 70.000          |
| D005      | shrink fit tool holder - slim version | 6 | 90  | 3°        | HSK 32 A-E   | 50.000          |
| D005      | shrink fit tool holder - slim version | 6 | 90  | 3°        | HSK 40 A-E   | 24.000          |
| D005      | shrink fit tool holder - slim version | 6 | 90  | 3°        | HSK 50 A-E-F | 24.000          |
| D005      | shrink fit tool holder - slim version | 6 | 90  | 3°        | HSK 63 A-E-F | 24.000          |
| D005      | shrink fit tool holder - slim version | 6 | 90  | 3°        | HSK 80 A     | 18.000          |
| D005      | shrink fit tool holder - slim version | 6 | 90  | 3°        | HSK 100 A    | 18.000          |
| D006      | shrink fit tool holder - slim version | 3 | 120 | 3°        | HSK 25 E     | 70.000          |
| D006      | shrink fit tool holder - slim version | 3 | 120 | 3°        | HSK 32 A-E   | 50.000          |

| Part code | Description                           | d  | L   | Angle (α) | Connection     | Balancing (RPM) |
|-----------|---------------------------------------|----|-----|-----------|----------------|-----------------|
| D007      | shrink fit tool holder - slim version | 4  | 120 | 3°        | HSK 32 A-E     | 50.000          |
| D007      | shrink fit tool holder - slim version | 4  | 120 | 3°        | HSK 40 A-E     | 24.000          |
| D007      | shrink fit tool holder - slim version | 4  | 120 | 3°        | HSK 50 A-E-F   | 24.000          |
| D007      | shrink fit tool holder - slim version | 4  | 120 | 3°        | HSK 63 A-E-F   | 24.000          |
| D008      | shrink fit tool holder - slim version | 6  | 120 | 3°        | HSK 25 E       | 70.000          |
| D008      | shrink fit tool holder - slim version | 6  | 120 | 3°        | HSK 32 A-E     | 50.000          |
| D008      | shrink fit tool holder - slim version | 6  | 120 | 3°        | HSK 40 A-E     | 24.000          |
| D008      | shrink fit tool holder - slim version | 6  | 120 | 3°        | HSK 50 A-C-E-F | 24.000          |
| D008      | shrink fit tool holder - slim version | 6  | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D008      | shrink fit tool holder - slim version | 6  | 120 | 3°        | HSK 80 A       | 18.000          |
| D008      | shrink fit tool holder - slim version | 6  | 120 | 3°        | HSK 100 A      | 18.000          |
| D009      | shrink fit tool holder - slim version | 8  | 120 | 3°        | HSK 50 A-C-E-F | 24.000          |
| D009      | shrink fit tool holder - slim version | 8  | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D009      | shrink fit tool holder - slim version | 8  | 120 | 3°        | HSK 80 A       | 18.000          |
| D009      | shrink fit tool holder - slim version | 8  | 120 | 3°        | HSK 100 A      | 18.000          |
| D010      | shrink fit tool holder - slim version | 10 | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D010      | shrink fit tool holder - slim version | 10 | 120 | 3°        | HSK 80 A       | 18.000          |
| D010      | shrink fit tool holder - slim version | 10 | 120 | 3°        | HSK 100 A      | 18.000          |
| D011      | shrink fit tool holder - slim version | 12 | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D011      | shrink fit tool holder - slim version | 12 | 120 | 3°        | HSK 80 A       | 18.000          |
| D011      | shrink fit tool holder - slim version | 12 | 120 | 3°        | HSK 100 A      | 18.000          |
| D012      | shrink fit tool holder - slim version | 14 | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D012      | shrink fit tool holder - slim version | 14 | 120 | 3°        | HSK 80 A       | 18.000          |



MANUFACTURING MATERIAL





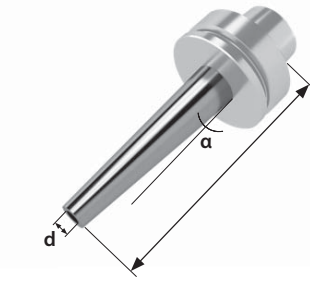
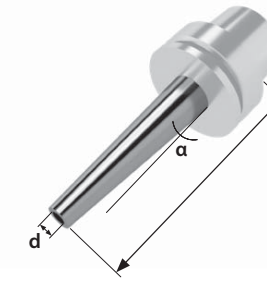
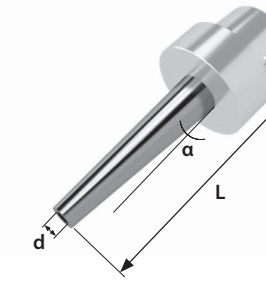
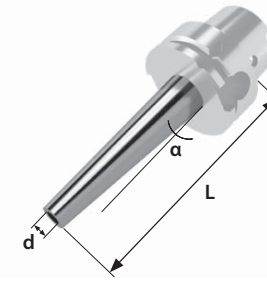
Part codes for available HSK CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

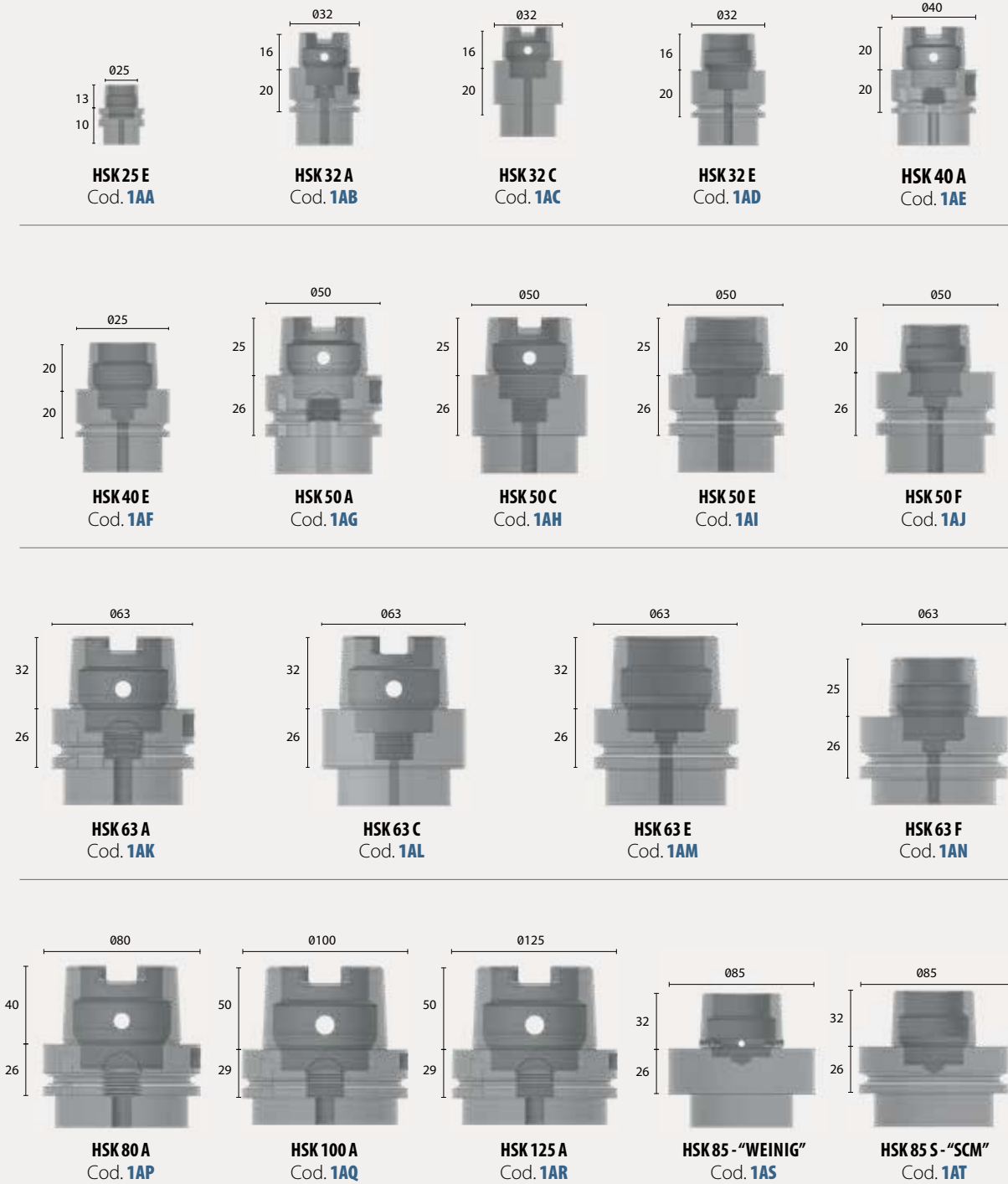


Shrink Fit Tool Holders - Slim version



| Part code | Description                           | d    | L   | Angle (α) | Connection     | Balancing (RPM) |
|-----------|---------------------------------------|------|-----|-----------|----------------|-----------------|
| D012      | shrink fit tool holder - slim version | 14   | 120 | 3°        | HSK 100 A      | 18.000          |
| D013      | shrink fit tool holder - slim version | 16   | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D013      | shrink fit tool holder - slim version | 16   | 120 | 3°        | HSK 80 A       | 18.000          |
| D013      | shrink fit tool holder - slim version | 16   | 120 | 3°        | HSK 100 A      | 18.000          |
| D014      | shrink fit tool holder - slim version | 18   | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D014      | shrink fit tool holder - slim version | 18   | 120 | 3°        | HSK 80 A       | 18.000          |
| D014      | shrink fit tool holder - slim version | 18   | 120 | 3°        | HSK 100 A      | 18.000          |
| D015      | shrink fit tool holder - slim version | 20   | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D015      | shrink fit tool holder - slim version | 20   | 120 | 3°        | HSK 80 A       | 18.000          |
| D015      | shrink fit tool holder - slim version | 20   | 120 | 3°        | HSK 100 A      | 18.000          |
| D016      | shrink fit tool holder - slim version | 25   | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D016      | shrink fit tool holder - slim version | 25   | 120 | 3°        | HSK 80 A       | 18.000          |
| D016      | shrink fit tool holder - slim version | 25   | 120 | 3°        | HSK 100 A      | 18.000          |
| D017      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | HSK 25 E       | 70.000          |
| D017      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | HSK 32 A-E     | 50.000          |
| D017      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | HSK 40 A-E     | 24.000          |
| D017      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | HSK 50 A-E-F   | 24.000          |
| D017      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D017      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | HSK 80 A       | 18.000          |
| D017      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | HSK 100 A      | 18.000          |
| D018      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | HSK 50 A-C-E-F | 24.000          |
| D018      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D018      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | HSK 80 A       | 18.000          |
| D018      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | HSK 100 A      | 18.000          |
| D019      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D019      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | HSK 80 A       | 18.000          |
| D019      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | HSK 100 A      | 18.000          |
| D020      | shrink fit tool holder - slim version | 5/8" | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D020      | shrink fit tool holder - slim version | 5/8" | 120 | 3°        | HSK 80 A       | 18.000          |
| D020      | shrink fit tool holder - slim version | 5/8" | 120 | 3°        | HSK 100 A      | 18.000          |

| Part code | Description                           | d    | L   | Angle (α) | Connection     | Balancing (RPM) |
|-----------|---------------------------------------|------|-----|-----------|----------------|-----------------|
| D021      | shrink fit tool holder - slim version | 3/4" | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D021      | shrink fit tool holder - slim version | 3/4" | 120 | 3°        | HSK 80 A       | 18.000          |
| D021      | shrink fit tool holder - slim version | 3/4" | 120 | 3°        | HSK 100 A      | 18.000          |
| D021      | shrink fit tool holder - slim version | 3/4" | 120 | 3°        | HSK 125 A      | 18.000          |
| D022      | shrink fit tool holder - slim version | 1"   | 120 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D022      | shrink fit tool holder - slim version | 1"   | 120 | 3°        | HSK 80 A       | 18.000          |
| D022      | shrink fit tool holder - slim version | 1"   | 120 | 3°        | HSK 100 A      | 18.000          |
| D023      | shrink fit tool holder - slim version | 3    | 160 | 3°        | HSK 25 E       | 70.000          |
| D023      | shrink fit tool holder - slim version | 3    | 160 | 3°        | HSK 32 A-E     | 50.000          |
| D024      | shrink fit tool holder - slim version | 4    | 160 | 3°        | HSK 32 A-E     | 50.000          |
| D024      | shrink fit tool holder - slim version | 4    | 160 | 3°        | HSK 40 A-E     | 24.000          |
| D024      | shrink fit tool holder - slim version | 4    | 160 | 3°        | HSK 50 A-C-E-F | 24.000          |
| D024      | shrink fit tool holder - slim version | 4    | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D025      | shrink fit tool holder - slim version | 6    | 160 | 3°        | HSK 50 A-C-E-F | 24.000          |
| D025      | shrink fit tool holder - slim version | 6    | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D025      | shrink fit tool holder - slim version | 6    | 160 | 3°        | HSK 80 A       | 18.000          |
| D025      | shrink fit tool holder - slim version | 6    | 160 | 3°        | HSK 100 A      | 18.000          |
| D026      | shrink fit tool holder - slim version | 8    | 160 | 3°        | HSK 50 A-C-E-F | 24.000          |
| D026      | shrink fit tool holder - slim version | 8    | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D026      | shrink fit tool holder - slim version | 8    | 160 | 3°        | HSK 80 A       | 18.000          |
| D026      | shrink fit tool holder - slim version | 8    | 160 | 3°        | HSK 100 A      | 18.000          |
| D027      | shrink fit tool holder - slim version | 10   | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D027      | shrink fit tool holder - slim version | 10   | 160 | 3°        | HSK 80 A       | 18.000          |
| D027      | shrink fit tool holder - slim version | 10   | 160 | 3°        | HSK 100 A      | 18.000          |
| D028      | shrink fit tool holder - slim version | 12   | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D028      | shrink fit tool holder - slim version | 12   | 160 | 3°        | HSK 80 A       | 18.000          |
| D028      | shrink fit tool holder - slim version | 12   | 160 | 3°        | HSK 100 A      | 18.000          |
| D029      | shrink fit tool holder - slim version | 14   | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D029      | shrink fit tool holder - slim version | 14   | 160 | 3°        | HSK 80 A       | 18.000          |
| D029      | shrink fit tool holder - slim version | 14   | 160 | 3°        | HSK 100 A      | 18.000          |



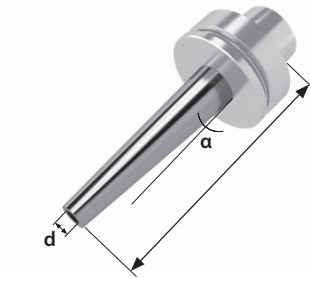
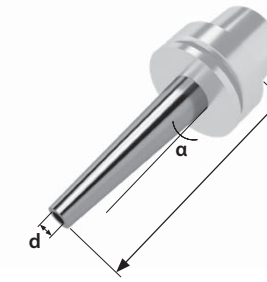
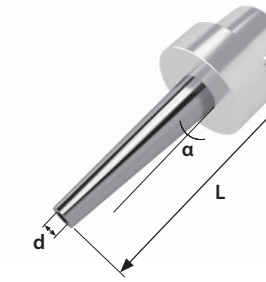
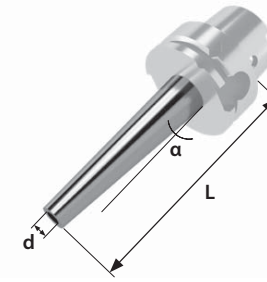
Part codes for available HSK CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

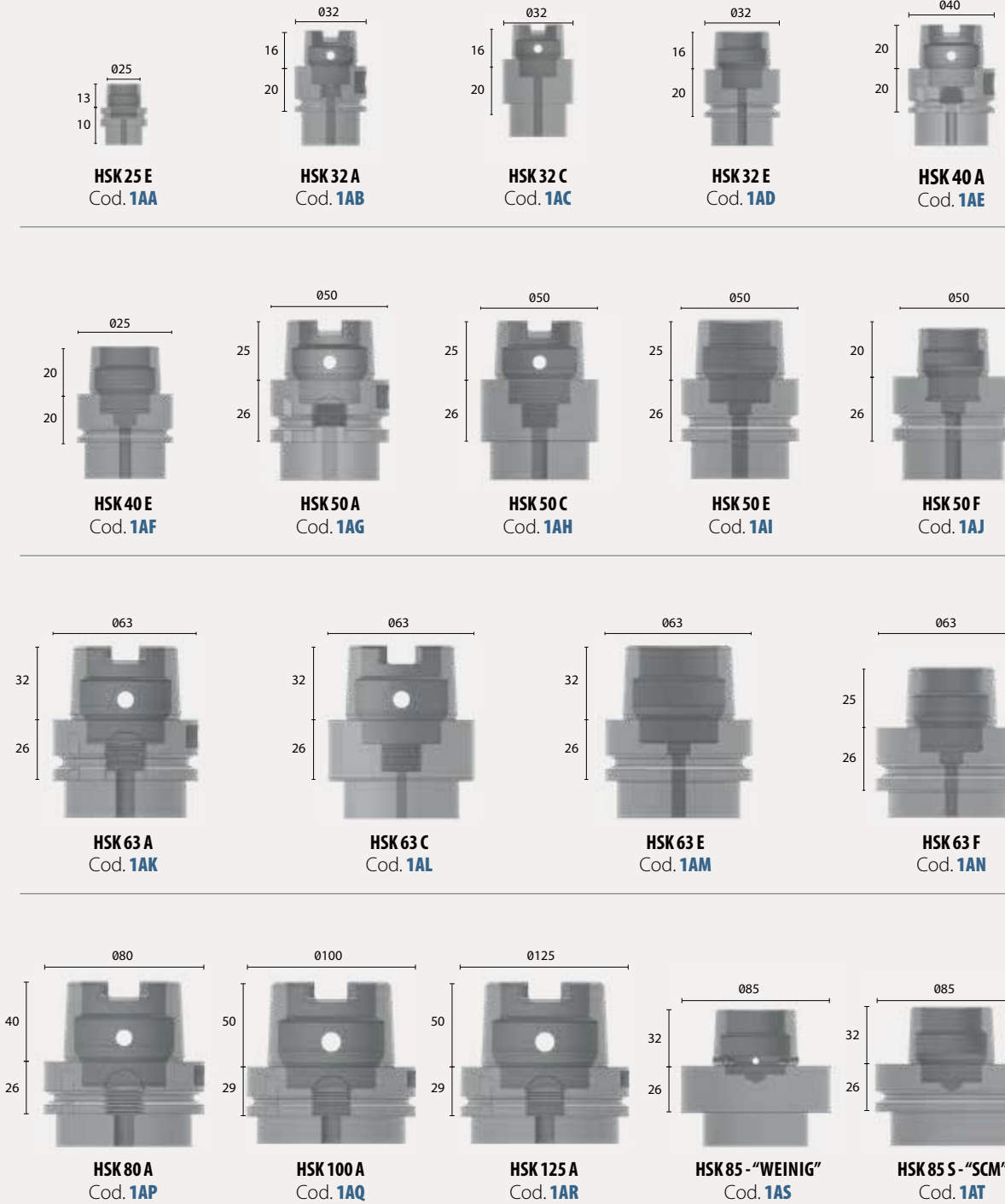


Shrink Fit Tool Holders - Slim version



| Part code | Description                           | d    | D   | L   | Angle (α) | Connection     | Balancing (RPM) |
|-----------|---------------------------------------|------|-----|-----|-----------|----------------|-----------------|
| D030      | shrink fit tool holder - slim version | 16   | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D030      | shrink fit tool holder - slim version | 16   | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D030      | shrink fit tool holder - slim version | 16   | 160 | 160 | 3°        | HSK 100 A      | 18.000          |
| D031      | shrink fit tool holder - slim version | 18   | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D031      | shrink fit tool holder - slim version | 18   | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D031      | shrink fit tool holder - slim version | 18   | 160 | 160 | 3°        | HSK 100 A      | 18.000          |
| D032      | shrink fit tool holder - slim version | 20   | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D032      | shrink fit tool holder - slim version | 20   | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D032      | shrink fit tool holder - slim version | 20   | 160 | 160 | 3°        | HSK 100 A      | 18.000          |
| D033      | shrink fit tool holder - slim version | 25   | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D033      | shrink fit tool holder - slim version | 25   | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D033      | shrink fit tool holder - slim version | 25   | 160 | 160 | 3°        | HSK 100 A      | 18.000          |
| D034      | shrink fit tool holder - slim version | 1/4" | 160 | 160 | 3°        | HSK 25 E       | 70.000          |
| D034      | shrink fit tool holder - slim version | 1/4" | 160 | 160 | 3°        | HSK 32 A-E     | 50.000          |
| D034      | shrink fit tool holder - slim version | 1/4" | 160 | 160 | 3°        | HSK 40 A-E     | 24.000          |
| D034      | shrink fit tool holder - slim version | 1/4" | 160 | 160 | 3°        | HSK 50 A-C-E-F | 24.000          |
| D034      | shrink fit tool holder - slim version | 1/4" | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D034      | shrink fit tool holder - slim version | 1/4" | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D034      | shrink fit tool holder - slim version | 1/4" | 160 | 160 | 3°        | HSK 100 A      | 18.000          |
| D035      | shrink fit tool holder - slim version | 3/8" | 160 | 160 | 3°        | HSK 50 A-C-E-F | 24.000          |
| D035      | shrink fit tool holder - slim version | 3/8" | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D035      | shrink fit tool holder - slim version | 3/8" | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D035      | shrink fit tool holder - slim version | 3/8" | 160 | 160 | 3°        | HSK 100 A      | 18.000          |
| D036      | shrink fit tool holder - slim version | 1/2" | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D036      | shrink fit tool holder - slim version | 1/2" | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D036      | shrink fit tool holder - slim version | 1/2" | 160 | 160 | 3°        | HSK 100 A      | 18.000          |
| D037      | shrink fit tool holder - slim version | 5/8" | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D037      | shrink fit tool holder - slim version | 5/8" | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D037      | shrink fit tool holder - slim version | 5/8" | 160 | 160 | 3°        | HSK 100 A      | 18.000          |
| D038      | shrink fit tool holder - slim version | 3/4" | 160 | 160 | 3°        | HSK 25 E       | 70.000          |

| Part code | Description                           | d    | D   | L   | Angle (α) | Connection     | Balancing (RPM) |
|-----------|---------------------------------------|------|-----|-----|-----------|----------------|-----------------|
| D038      | shrink fit tool holder - slim version | 3/4" | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D038      | shrink fit tool holder - slim version | 3/4" | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D038      | shrink fit tool holder - slim version | 3/4" | 160 | 160 | 3°        | HSK 100 A      | 18.000          |
| D039      | shrink fit tool holder - slim version | 1"   | 160 | 160 | 3°        | HSK 63 A-C-E-F | 24.000          |
| D039      | shrink fit tool holder - slim version | 1"   | 160 | 160 | 3°        | HSK 80 A       | 18.000          |
| D039      | shrink fit tool holder - slim version | 1"   | 160 | 160 | 3°        | HSK 100 A      | 18.000          |

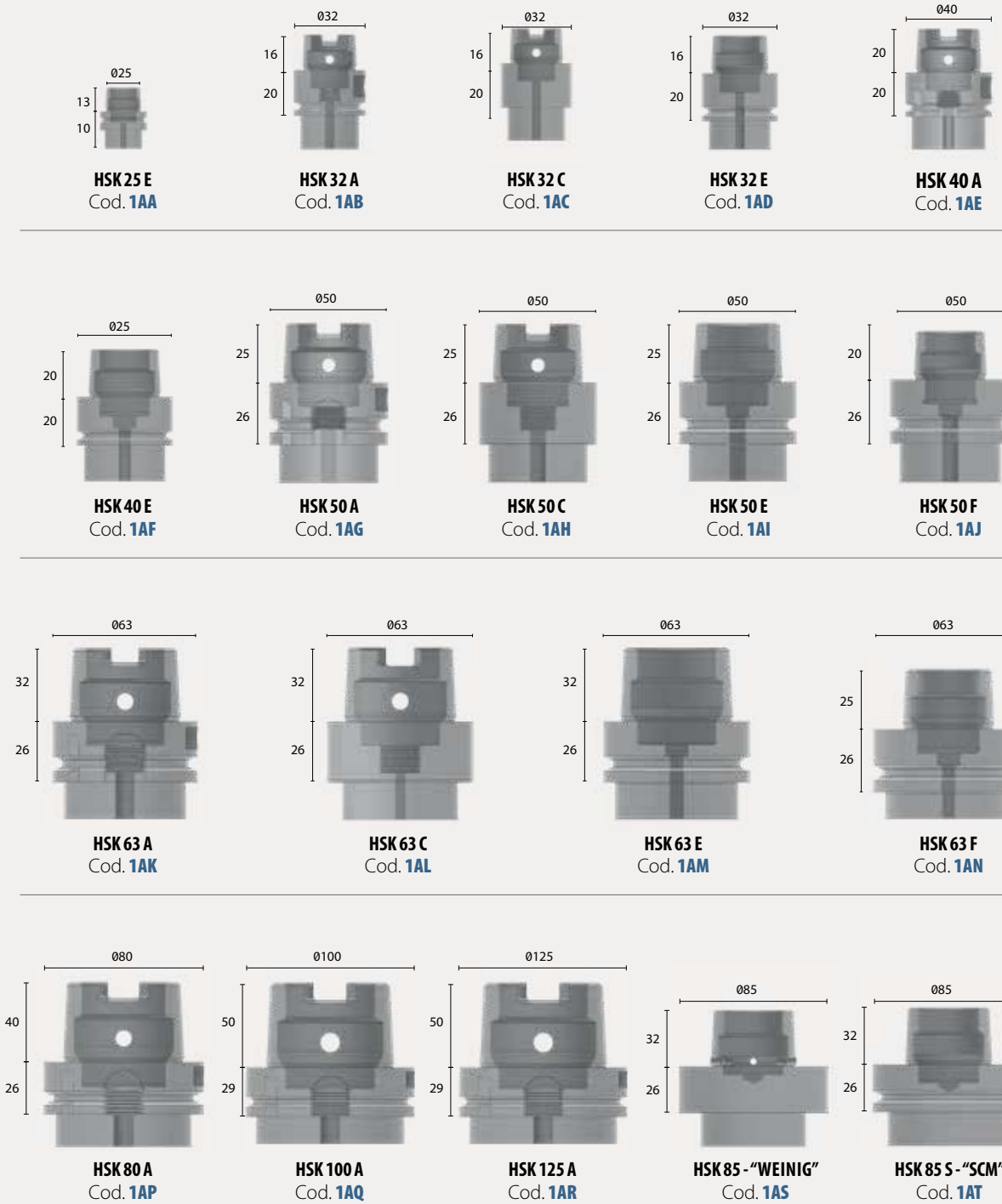


Part codes for available HSK CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.

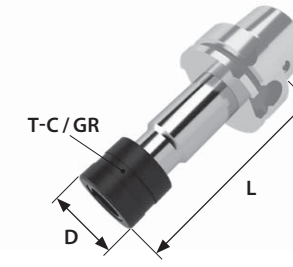


\*See page 69 for the complete list of DIN manufacturing rules.



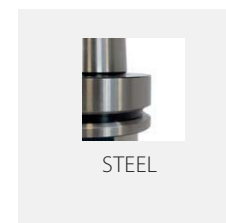
Tap holders

Tap tools preferred clamping systems, for precise threading operations.

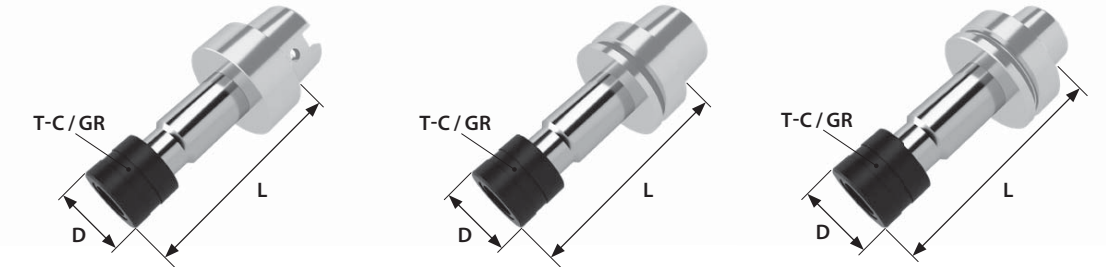


| Part code | Description                    | D  | L   | T-C   | GR  | Connection     | Balancing (RPM) |
|-----------|--------------------------------|----|-----|-------|-----|----------------|-----------------|
| AX00      | tap holder double compensation | 32 | 90  | 7-5   | GR1 | HSK 40 A-E     | 24.000          |
| AX00      | tap holder double compensation | 32 | 90  | 7-5   | GR1 | HSK 50 A-C-E   | 24.000          |
| AX00      | tap holder double compensation | 32 | 117 | 7-5   | GR1 | HSK 63 A-C-E-F | 24.000          |
| AX02      | tap holder double compensation | 50 | 120 | 15-8  | GR2 | HSK 63 A-C-E-F | 24.000          |
| AX01      | tap holder double compensation | 32 | 117 | 7-5   | GR1 | HSK 80 A       | 18.000          |
| AX02      | tap holder double compensation | 50 | 120 | 15-8  | GR2 | HSK 80 A       | 18.000          |
| AX03      | tap holder double compensation | 72 | 120 | 25-10 | GR3 | HSK 80 A       | 18.000          |
| AX02      | tap holder double compensation | 50 | 110 | 15-8  | GR2 | HSK 100 A      | 18.000          |
| AX03      | tap holder double compensation | 72 | 120 | 25-10 | GR3 | HSK 100 A      | 18.000          |
| AX04      | tap holder double compensation | 92 | 200 | 25-10 | GR4 | HSK 100 A      | 18.000          |

MANUFACTURING MATERIAL



Tapping specs



| Tool Shaft  | Standard DIN 352 | Incr. DIN 371 | Standard DIN 376 | Standard ISO | Increased ISO | Tap Collet style |
|-------------|------------------|---------------|------------------|--------------|---------------|------------------|
| 3.00x2.40   | -                | -             | -                | M 4.0        | M 3.30        | 0                |
| 3.50x2.80   | -                | -             | -                | M 4.5        | M 3.5         | 0-1              |
| 4.00x3.15   | M 3.5            | M 3.5         | -                | M 5.0        | M 4.4         | 0-1              |
| 4.50x3.40   | M 4.0            | M 4.0         | M 6.0            | -            | -             | 0-1              |
| 6.00x4.90   | M 5.0            | M 5.0         | -                | -            | -             | 0-1-2            |
| 6.00x4.90   | M 6.0            | M 6.0         | -                | -            | -             | 0-1-2            |
| 6.00x4.90   | M 8.0            | -             | M 8.0            | -            | -             | 0-1-2            |
| 7.00x5.50   | M 10.0           | -             | M 10.0           | -            | -             | 0-1-2            |
| 8.00x6.20   | -                | M 8.0         | -                | M 10.0       | M 8.0         | 0-1-2            |
| 9.00x7.00   | M 12.0           | -             | M 12.0           | M 12.0       | -             | 1-2              |
| 10.00x8.00  | -                | M 10.0        | -                | -            | M 10.0        | 1-2              |
| 11.00x9.00  | M 14.0           | -             | M 14.0           | -            | -             | 1-2-3            |
| 12.00x9.00  | M 16.0           | -             | M 16.0           | -            | -             | 1-2-3            |
| 14.00x11.00 | M 18.0           | -             | M 18.0           | -            | -             | 2-3              |
| 16.00x12.00 | M 20.0           | -             | M 20.0           | -            | -             | 2-3              |
| 16.00x12.50 | -                | -             | -                | M 22.0       | -             | 2-3              |
| 18.00x14.00 | -                | -             | -                | M 24.0       | -             | 2-3              |
| 18.00x14.50 | M 22.0           | -             | M 22.0           | -            | -             | 2-3              |
| 18.00x14.50 | M 24.0           | -             | M 24.0           | -            | -             | 2-3              |
| 20.00x16.00 | M 27.0           | -             | M 27.0           | M 27.0       | -             | 2-3              |
| 20.00x16.00 | -                | -             | -                | M 30.0       | -             | 2-3              |
| 22.00x18.00 | M 30.0           | -             | M 30.0           | -            | -             | 2-3              |
| 25.00x20.00 | M 33.0           | -             | M 33.0           | M 36.0       | -             | 3                |
| 28.00x22.00 | M 36.0           | -             | M 36.0           | -            | -             | 3                |
| 32.00x24.00 | M 39.0           | -             | M 39.0           | -            | -             | 3                |
| 32.00x24.00 | M 42.0           | -             | M 42.0           | -            | -             | 3                |
| 36.00x29.00 | M 45.0           | -             | M 45.0           | -            | -             | 3                |
| 36.00x29.00 | M 48.0           | -             | M 48.0           | -            | -             | 3                |

## Part codes for available HSK CONNECTIONS\*

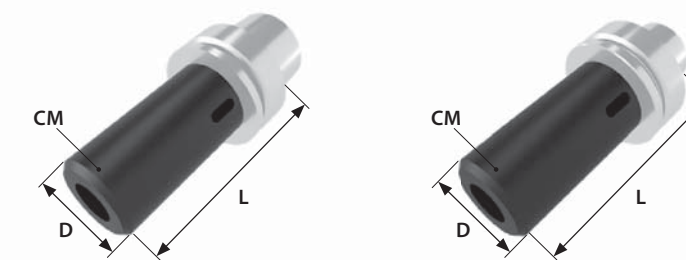
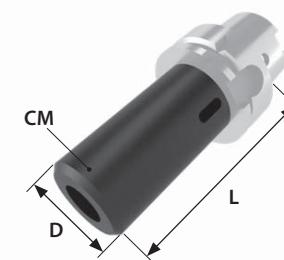
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

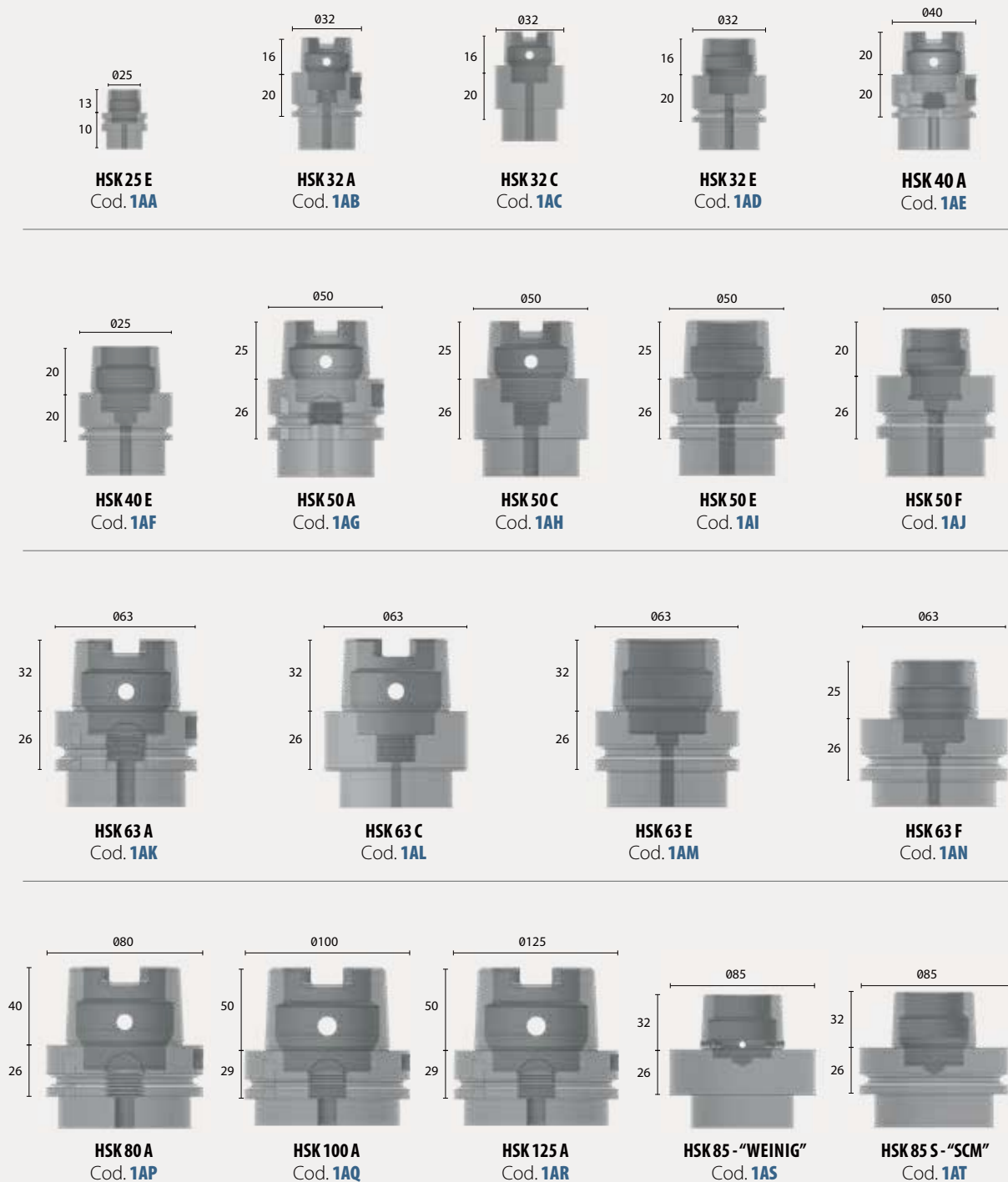


## Morse Cone Reductions DIN 228

Reduction system for the use of bits and mills in lathes and machines equipped with morse cones.



| Part code | Description          | D  | L   | CM    | Connection   | Balancing (RPM) |
|-----------|----------------------|----|-----|-------|--------------|-----------------|
| AY00      | morse cone reduction | 35 | 110 | 1 P+F | HSK 40 A-E   | 24.000          |
| AY01      | morse cone reduction | 35 | 110 | 2 P+F | HSK 40 A-E   | 24.000          |
| AY02      | morse cone reduction | 35 | 90  | 1 P+F | HSK 50 A-F   | 24.000          |
| AY01      | morse cone reduction | 35 | 110 | 2 P+F | HSK 63 A-E-F | 24.000          |
| AY01      | morse cone reduction | 35 | 110 | 2 P+F | HSK 50 A-F   | 24.000          |
| AY03      | morse cone reduction | 42 | 140 | 3 P+F | HSK 80 A     | 18.000          |
| AY03      | morse cone reduction | 42 | 140 | 3 P+F | HSK 100 A    | 18.000          |
| AY04      | morse cone reduction | 42 | 160 | 3 P+F | HSK 63 A-E-F | 24.000          |
| AY05      | morse cone reduction | 52 | 160 | 4 P+F | HSK 80 A     | 18.000          |
| AY05      | morse cone reduction | 52 | 160 | 4 P+F | HSK 100 A    | 18.000          |
| AY06      | morse cone reduction | 70 | 200 | 5 P+F | HSK 100 A    | 18.000          |
| AY06      | morse cone reduction | 70 | 200 | 5 P+F | HSK 125 A    | 18.000          |



MANUFACTURING MATERIAL



Part codes for available HSK CONNECTIONS\*

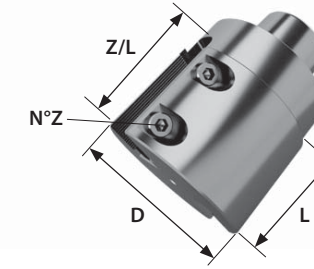
To configure your toolholder you need to choose one of the following connections first.

\*See page 69 for the complete list of DIN manufacturing rules.

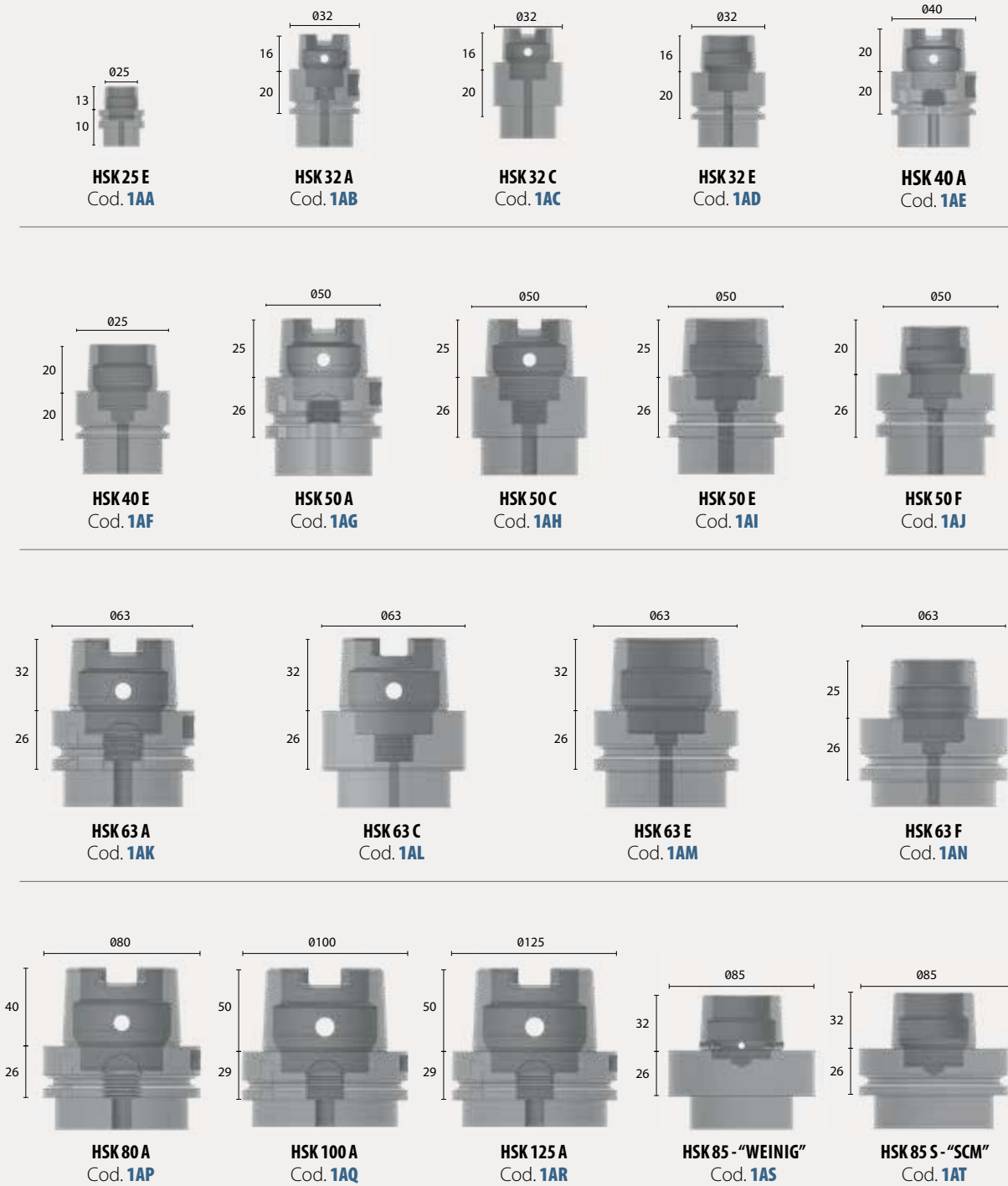


Knives Arbors for "Weinig"

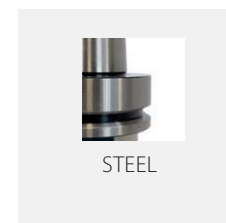
Two or four knives holding system for grinding of soft materials.



| Part code | Description               | D  | N°Z | L   | Z/L     | M  | Connection | Balancing (RPM) |
|-----------|---------------------------|----|-----|-----|---------|----|------------|-----------------|
| AW00      | knives arbor for "Weinig" | 90 | 2   | 100 | 8 x 90  | M8 | HSK 85 W   | 18.000          |
| AW01      | knives arbor for "Weinig" | 90 | 2   | 150 | 8 x 140 | M8 | HSK 85 W   | 18.000          |
| AW02      | knives arbor for "Weinig" | 90 | 4   | 150 | 8 x 140 | M8 | HSK 85 W   | 18.000          |
| AW03      | knives arbor for "Weinig" | 90 | 4   | 200 | 8 x 180 | M8 | HSK 85 W   | 18.000          |



MANUFACTURING MATERIAL



Manufacturing International Standards

Summary of manufacturing standards observed for the production of the tool holders included in this catalogue.

MACHINE CONNECTION STANDARDS

| Machine connection | Standards                               |
|--------------------|---|
| HSK                | DIN 69893 (style A C E F)               |
| SK                 | DIN 69871/A - DIN 69871/A/B - DIN 69871 |
| SK dual contact    | ISO 7388.1 - DIN 69871                  |
| BT                 | MAS 403/A - MAS/BT 403 (style A/B)      |
| BT dual contact    | MAS/BT 403                              |
| CAT                | B 5.50                                  |

TOOL HOLDING STANDARDS

| Tool holding system      | Standards            |
|--------------------------|----------------------|
| ER Collet Chucks         | DIN 6499 - DIN 15488 |
| EOC Collet Chucks        | DIN 6388             |
| End Mill Holders         | DIN 1835/B           |
| Face Mill Holders        | DIN 6357             |
| Morse Cone Reductions    | DIN 228              |
| Collet Chucks Extensions | DIN 1835/A           |

PULL STUDS STANDARDS

DIN 69872/B - DIN 7388/A - DIN 7388/B - ANSI - MAS 403 BT - JIS - B - 6339

MACHINE CONNECTION STANDARDS NOT INCLUDED IN THIS CATALOGUE BUT AVAILABLE UPON REQUEST

DIN 2080 - HSK DIN 69893 B/D/R/T - VDI 2814

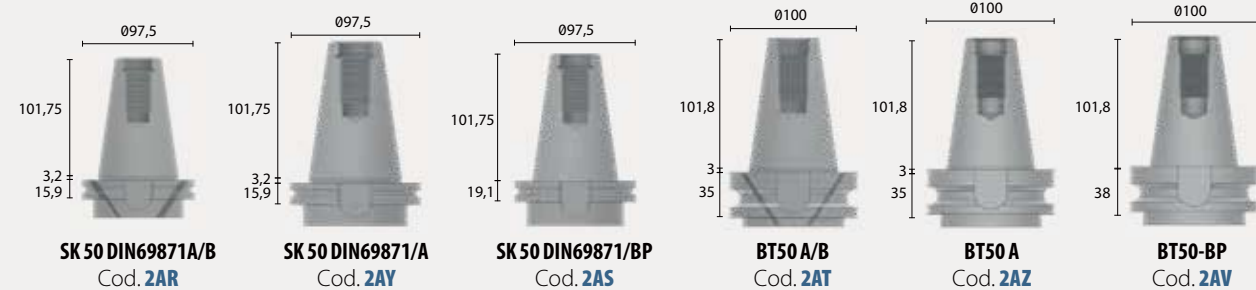
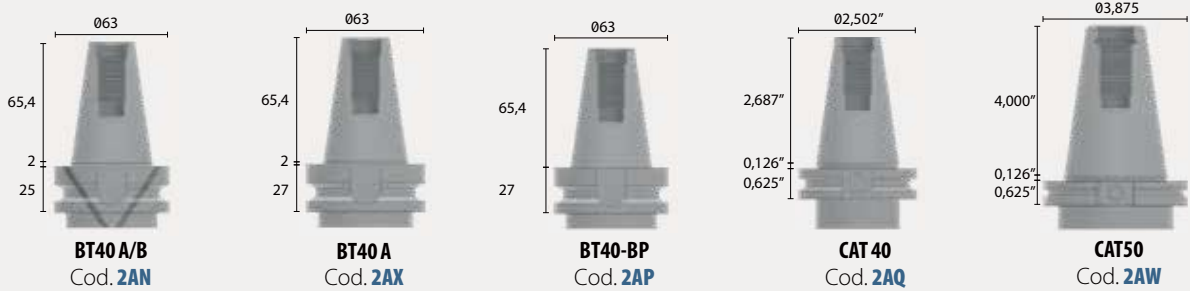
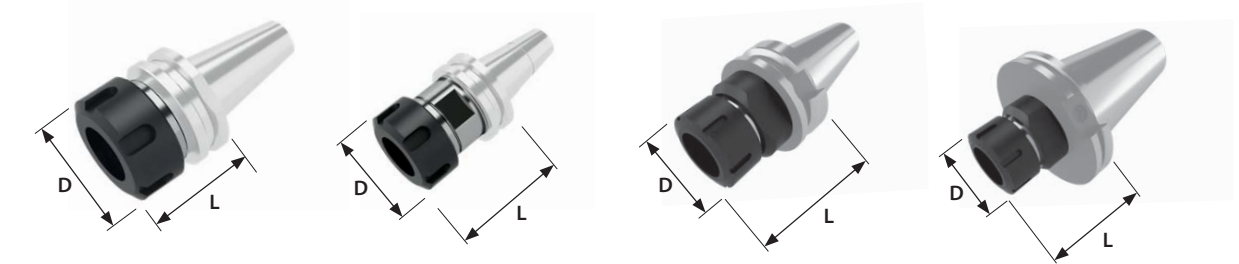
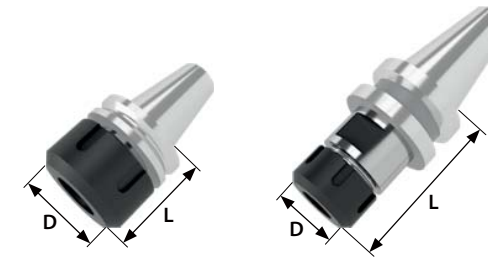
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Collet chucks RH with collet nut for ER collet DIN 6499/DIN 15488



| Part code   | Description              | ER    | D     | L    | Connection                           | Balancing (RPM) |
|-------------|--------------------------|-------|-------|------|--------------------------------------|-----------------|
| <b>KA27</b> | collet chuck with nut RH | ER 32 | 50    | 70   | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KA27</b> | collet chuck with nut RH | ER 32 | 50    | 70   | <b>SK 40 DIN 69871/A SENZA TAGLI</b> | 15.000          |
| <b>KA27</b> | collet chuck with nut RH | ER 32 | 50    | 70   | <b>SK 40 DIN 69871/BP</b>            | 15.000          |
| <b>KA27</b> | collet chuck with nut RH | ER 32 | 50    | 70   | <b>BT 40/A-A/B</b>                   | 15.000          |
| <b>KA27</b> | collet chuck with nut RH | ER 32 | 50    | 70   | <b>BT 40/BP</b>                      | 15.000          |
| <b>KA27</b> | collet chuck with nut RH | ER 32 | 50    | 70   | <b>SK 50 DIN 69871/A-A/B</b>         | 12.000          |
| <b>KA27</b> | collet chuck with nut RH | ER 32 | 50    | 70   | <b>SK 50 DIN 69871/BP</b>            | 12.000          |
| <b>KA27</b> | collet chuck with nut RH | ER 32 | 50    | 70   | <b>BT 50/A-A/B</b>                   | 12.000          |
| <b>KA27</b> | collet chuck with nut RH | ER 32 | 50    | 70   | <b>BT 50/BP</b>                      | 12.000          |
| <b>KA28</b> | collet chuck with nut RH | ER 32 | 50    | 100  | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KA28</b> | collet chuck with nut RH | ER 32 | 50    | 100  | <b>SK 40 DIN 69871/A SENZA TAGLI</b> | 15.000          |
| <b>KA28</b> | collet chuck with nut RH | ER 32 | 50    | 100  | <b>BT 40/A-A/B</b>                   | 15.000          |
| <b>KA28</b> | collet chuck with nut RH | ER 32 | 50    | 100  | <b>SK 50 DIN 69871/A-A/B</b>         | 12.000          |
| <b>KA28</b> | collet chuck with nut RH | ER 32 | 50    | 100  | <b>BT 50/A-A/B</b>                   | 12.000          |
| <b>KA29</b> | collet chuck with nut RH | ER 32 | 1.97" | 4"   | <b>CAT 40</b>                        | 15.000          |
| <b>KA29</b> | collet chuck with nut RH | ER 32 | 1.97" | 4"   | <b>CAT 50</b>                        | 12.000          |
| <b>KA30</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>SK 30 DIN 69871A-A/B</b>          | 15.000          |
| <b>KA30</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>SK 30 DIN 69871/A SENZA TAGLI</b> | 15.000          |
| <b>KA31</b> | collet chuck with nut RH | ER 40 | 63    | 56,5 | <b>SK 30 "HSD"/"HITECO"</b>          | 15.000          |
| <b>KA32</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KA32</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>SK 40 DIN 69871/A SENZA TAGLI</b> | 15.000          |
| <b>KA32</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>SK 40 DIN 69871/BP</b>            | 15.000          |
| <b>KA32</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>BT 40/A-A/B</b>                   | 15.000          |
| <b>KA32</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>BT 40/BP</b>                      | 15.000          |
| <b>KA32</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>SK 50 DIN 69871/A-A/B</b>         | 12.000          |
| <b>KA32</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>SK 50 DIN 69871/BP</b>            | 12.000          |
| <b>KA32</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>BT 50/A-A/B</b>                   | 12.000          |
| <b>KA32</b> | collet chuck with nut RH | ER 40 | 63    | 70   | <b>BT 50/BP</b>                      | 12.000          |
| <b>KA33</b> | collet chuck with nut RH | ER 40 | 63    | 100  | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KA33</b> | collet chuck with nut RH | ER 40 | 63    | 100  | <b>SK 40 DIN 69871/A SENZA TAGLI</b> | 15.000          |

| Part code   | Description              | ER    | D     | L   | Connection                               | Balancing (RPM) |
|-------------|--------------------------|-------|-------|-----|--|-----------------|
| <b>KA33</b> | collet chuck with nut RH | ER 40 | 63    | 100 | <b>BT 40/A-A/B</b>                       | 15.000          |
| <b>KA33</b> | collet chuck with nut RH | ER 40 | 63    | 100 | <b>SK 50 DIN 69871/A-A/B</b>             | 12.000          |
| <b>KA33</b> | collet chuck with nut RH | ER 40 | 63    | 100 | <b>BT 50/A-A/B</b>                       | 12.000          |
| <b>KA34</b> | collet chuck with nut RH | ER 40 | 2.48" | 4"  | <b>CAT 40</b>                            | 15.000          |
| <b>KA34</b> | collet chuck with nut RH | ER 40 | 2.48" | 4"  | <b>CAT 50</b>                            | 12.000          |
| <b>KA35</b> | collet chuck with nut RH | ER 50 | 78    | 100 | <b>SK 40 DIN 69871/A W/O FLANGE CUTS</b> | 15.000          |
| <b>KA35</b> | collet chuck with nut RH | ER 50 | 78    | 100 | <b>BT 40/A-A/B</b>                       | 15.000          |
| <b>KA35</b> | collet chuck with nut RH | ER 50 | 78    | 100 | <b>SK 50 DIN 69871/A-A/B</b>             | 12.000          |
| <b>KA35</b> | collet chuck with nut RH | ER 50 | 78    | 100 | <b>BT 50/A-A/B</b>                       | 12.000          |
| <b>KA36</b> | collet chuck with nut RH | ER 50 | 3.07" | 4"  | <b>CAT 40</b>                            | 15.000          |
| <b>KA36</b> | collet chuck with nut RH | ER 50 | 3.07" | 4"  | <b>CAT 50</b>                            | 12.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

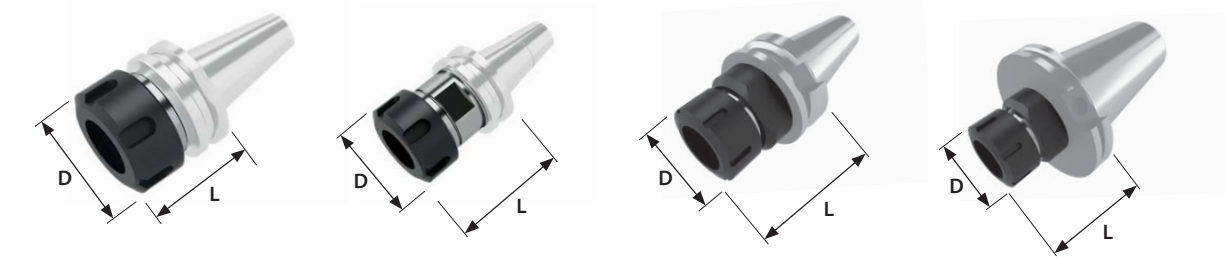
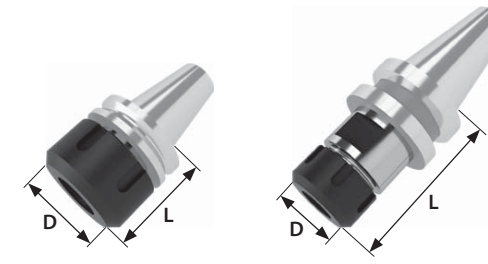
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Collet chucks LH with collet nut for ER collet DIN 6499/DIN 15488

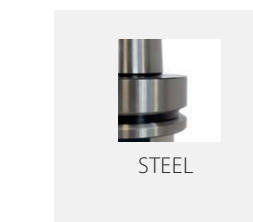
Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



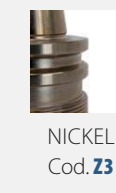
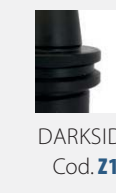
| Part code   | Description                   | ER    | D     | L    | Connection                           | Balancing (RPM) |
|-------------|-------------------------------|-------|-------|------|--------------------------------------|-----------------|
| <b>KB00</b> | collet chuck with mini nut LH | ER 8  | 12    | 20   | <b>SK 10</b>                         | 70.000          |
| <b>KB01</b> | collet chuck with mini nut LH | ER 11 | EX17  | 20,3 | <b>SK 10</b>                         | 70.000          |
| <b>KB02</b> | collet chuck with hex nut LH  | ER 11 | EX17  | 42,8 | <b>SK 15</b>                         | 70.000          |
| <b>KB03</b> | collet chuck with mini nut LH | ER 11 | 16    | 47,1 | <b>SK 20 "C&amp;G"</b>               | 50.000          |
| <b>KB03</b> | collet chuck with mini nut LH | ER 11 | 16    | 47,1 | <b>SK 20 "ELTE"</b>                  | 50.000          |
| <b>KB04</b> | collet chuck with mini nut LH | ER 16 | 22    | 29,8 | <b>SK 10</b>                         | 70.000          |
| <b>KB05</b> | collet chuck with mini nut LH | ER 16 | 22    | 61,2 | <b>SK 15</b>                         | 70.000          |
| <b>KB06</b> | collet chuck with mini nut LH | ER 16 | 22    | 50,9 | <b>SK 20 "C&amp;G"</b>               | 50.000          |
| <b>KB37</b> | collet chuck with mini nut LH | ER 16 | 22    | 48,9 | <b>SK 20 "ELTE"</b>                  | 50.000          |
| <b>KB07</b> | collet chuck with mini nut LH | ER 16 | 22    | 45,8 | <b>SK 30 "CMS"</b>                   | 15.000          |
| <b>KB08</b> | collet chuck with mini nut LH | ER 16 | 22    | 48,3 | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b> | 15.000          |
| <b>KB09</b> | collet chuck with mini nut LH | ER 16 | 22    | 70   | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KB38</b> | collet chuck with mini nut LH | ER 16 | 22    | 69   | <b>SK 40 DIN 69871/BP</b>            | 15.000          |
| <b>KB09</b> | collet chuck with mini nut LH | ER 16 | 22    | 70   | <b>BT 40/A-A/B</b>                   | 15.000          |
| <b>KB38</b> | collet chuck with mini nut LH | ER 16 | 22    | 69   | <b>BT 40/BP</b>                      | 15.000          |
| <b>KB10</b> | collet chuck with nut LH      | ER 16 | 32    | 100  | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KB10</b> | collet chuck with nut LH      | ER 16 | 32    | 100  | <b>BT 40/A-A/B</b>                   | 15.000          |
| <b>KB10</b> | collet chuck with nut LH      | ER 16 | 32    | 100  | <b>SK 50 DIN 69871/A-A/B</b>         | 12.000          |
| <b>KB10</b> | collet chuck with nut LH      | ER 16 | 32    | 100  | <b>BT 50/A-A/B</b>                   | 15.000          |
| <b>KB11</b> | collet chuck with nut LH      | ER 16 | 1,25" | 4"   | <b>CAT 40</b>                        | 15.000          |
| <b>KB11</b> | collet chuck with nut LH      | ER 16 | 1,25" | 4"   | <b>CAT 50</b>                        | 12.000          |
| <b>KB12</b> | collet chuck with mini nut LH | ER 20 | 28    | 55   | <b>SK 20 "C&amp;G"</b>               | 50.000          |
| <b>KB13</b> | collet chuck with mini nut LH | ER 20 | 28    | 51   | <b>SK 20 "ELTE"</b>                  | 50.000          |
| <b>KB14</b> | collet chuck with mini nut LH | ER 20 | 28    | 48   | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b> | 15.000          |
| <b>KB39</b> | collet chuck with mini nut LH | ER 20 | 28    | 61   | <b>SK 30 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KB15</b> | collet chuck with mini nut LH | ER 20 | 28    | 70   | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KB15</b> | collet chuck with mini nut LH | ER 20 | 28    | 70   | <b>SK 40 DIN 69871/BP</b>            | 15.000          |
| <b>KB15</b> | collet chuck with mini nut LH | ER 20 | 28    | 70   | <b>BT 40/A-A/B</b>                   | 15.000          |
| <b>KB15</b> | collet chuck with mini nut LH | ER 20 | 28    | 70   | <b>BT 40/BP</b>                      | 15.000          |
| <b>KB16</b> | collet chuck with nut LH      | ER 20 | 35    | 70   | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |

| Part code   | Description                   | ER    | D     | L    | Connection                               | Balancing (RPM) |
|-------------|-------------------------------|-------|-------|------|--|-----------------|
| <b>KB16</b> | collet chuck with nut LH      | ER 20 | 35    | 70   | <b>BT 40/A-A/B</b>                       | 15.000          |
| <b>KB17</b> | collet chuck with nut LH      | ER 20 | 1,34" | 4"   | <b>CAT 40</b>                            | 15.000          |
| <b>KB17</b> | collet chuck with nut LH      | ER 20 | 1,34" | 4"   | <b>CAT 50</b>                            | 12.000          |
| <b>KB18</b> | collet chuck with mini nut LH | ER 25 | 42    | 54,5 | <b>SK 25 "C&amp;G"</b>                   | 50.000          |
| <b>KB19</b> | collet chuck with mini nut LH | ER 25 | 35    | 70   | <b>SK 30 DIN 69871/A-A/B</b>             | 15.000          |
| <b>KB20</b> | collet chuck with mini nut LH | ER 25 | 35    | 48,5 | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b>     | 15.000          |
| <b>KB21</b> | collet chuck with nut LH      | ER 25 | 42    | 48,5 | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b>     | 15.000          |
| <b>KB22</b> | collet chuck with nut LH      | ER 25 | 42    | 70   | <b>SK 40 DIN 69871/A-A/B</b>             | 15.000          |
| <b>KB22</b> | collet chuck with nut LH      | ER 25 | 42    | 70   | <b>SK 40 DIN 69871/BP</b>                | 15.000          |
| <b>KB22</b> | collet chuck with nut LH      | ER 25 | 42    | 70   | <b>BT 40/A-A/B</b>                       | 15.000          |
| <b>KB22</b> | collet chuck with nut LH      | ER 25 | 42    | 70   | <b>BT 40/BP</b>                          | 15.000          |
| <b>KB22</b> | collet chuck with nut LH      | ER 25 | 42    | 70   | <b>SK 50 DIN 69871/A-A/B</b>             | 12.000          |
| <b>KB22</b> | collet chuck with nut LH      | ER 25 | 42    | 70   | <b>SK 50 DIN 69871/BP</b>                | 12.000          |
| <b>KB22</b> | collet chuck with nut LH      | ER 25 | 42    | 70   | <b>BT 50/A-A/B</b>                       | 12.000          |
| <b>KB22</b> | collet chuck with nut LH      | ER 25 | 42    | 70   | <b>BT 50/BP</b>                          | 12.000          |
| <b>KB23</b> | collet chuck with nut LH      | ER 25 | 1,65" | 4"   | <b>CAT 40</b>                            | 15.000          |
| <b>KB23</b> | collet chuck with nut LH      | ER 25 | 1,65" | 4"   | <b>CAT 50</b>                            | 12.000          |
| <b>KB24</b> | collet chuck with nut LH      | ER 32 | 50    | 70   | <b>SK 30 DIN 69871/A-A/B</b>             | 15.000          |
| <b>KB40</b> | collet chuck with nut LH      | ER 32 | 50    | 66,7 | <b>SK 30 DIN 69871/A/W/O FLANGE CUTS</b> | 15.000          |
| <b>KB25</b> | collet chuck with nut LH      | ER 32 | 50    | 49,1 | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b>     | 15.000          |
| <b>KB26</b> | collet chuck with nut LH      | ER 32 | 50    | 55,5 | <b>SK 30 "CMS"</b>                       | 15.000          |

● MANUFACTURING MATERIAL ● OPTIONAL MATERIAL



● OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

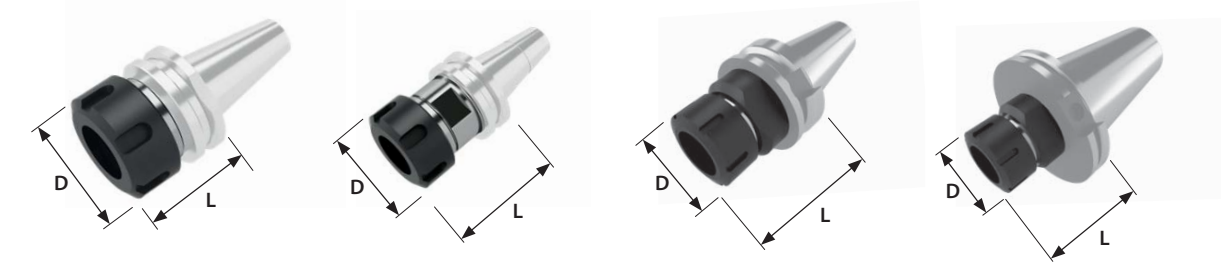
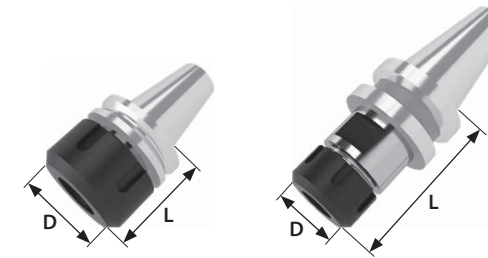
Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



TOOL HOLDERS SK/BT/CAT

Collet chucks LH with collet nut for ER collet DIN 6499/DIN 15488



| Part code   | Description              | ER    | D     | L    | Connection                        | Balancing (RPM) |
|-------------|--------------------------|-------|-------|------|-----------------------------------|-----------------|
| <b>KB27</b> | collet chuck with nut LH | ER 32 | 50    | 70   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KB27</b> | collet chuck with nut LH | ER 32 | 50    | 70   | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KB27</b> | collet chuck with nut LH | ER 32 | 50    | 70   | SK 40 DIN 69871/BP                | 15.000          |
| <b>KB27</b> | collet chuck with nut LH | ER 32 | 50    | 70   | BT 40/A-A/B                       | 15.000          |
| <b>KB27</b> | collet chuck with nut LH | ER 32 | 50    | 70   | BT 40/BP                          | 15.000          |
| <b>KB27</b> | collet chuck with nut LH | ER 32 | 50    | 70   | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KB27</b> | collet chuck with nut LH | ER 32 | 50    | 70   | SK 50 DIN 69871/BP                | 12.000          |
| <b>KB27</b> | collet chuck with nut LH | ER 32 | 50    | 70   | BT 50/A-A/B                       | 12.000          |
| <b>KB27</b> | collet chuck with nut LH | ER 32 | 50    | 70   | BT 50/BP                          | 12.000          |
| <b>KB28</b> | collet chuck with nut LH | ER 32 | 50    | 100  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KB28</b> | collet chuck with nut LH | ER 32 | 50    | 100  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KB28</b> | collet chuck with nut LH | ER 32 | 50    | 100  | BT 40/A-A/B                       | 15.000          |
| <b>KB28</b> | collet chuck with nut LH | ER 32 | 50    | 100  | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KB28</b> | collet chuck with nut LH | ER 32 | 50    | 100  | BT 50/A-A/B                       | 12.000          |
| <b>KB29</b> | collet chuck with nut LH | ER 32 | 1.97" | 4"   | CAT 40                            | 15.000          |
| <b>KB29</b> | collet chuck with nut LH | ER 32 | 1.97" | 4"   | CAT 50                            | 12.000          |
| <b>KB30</b> | collet chuck with nut LH | ER 40 | 63    | 70   | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KB30</b> | collet chuck with nut LH | ER 40 | 63    | 70   | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KB31</b> | collet chuck with nut LH | ER 40 | 63    | 56,5 | SK 30 "HSD"/"HITECO"              | 15.000          |
| <b>KB32</b> | collet chuck with nut LH | ER 40 | 63    | 70   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KB32</b> | collet chuck with nut LH | ER 40 | 63    | 70   | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KB32</b> | collet chuck with nut LH | ER 40 | 63    | 70   | SK 40 DIN 69871/BP                | 15.000          |
| <b>KB32</b> | collet chuck with nut LH | ER 40 | 63    | 70   | BT 40/A-A/B                       | 15.000          |
| <b>KB32</b> | collet chuck with nut LH | ER 40 | 63    | 70   | BT 40/BP                          | 15.000          |
| <b>KB32</b> | collet chuck with nut LH | ER 40 | 63    | 70   | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KB32</b> | collet chuck with nut LH | ER 40 | 63    | 70   | SK 50 DIN 69871/BP                | 12.000          |
| <b>KB32</b> | collet chuck with nut LH | ER 40 | 63    | 70   | BT 50/A-A/B                       | 12.000          |
| <b>KB32</b> | collet chuck with nut LH | ER 40 | 63    | 70   | BT 50/BP                          | 12.000          |
| <b>KB33</b> | collet chuck with nut LH | ER 40 | 63    | 100  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KB33</b> | collet chuck with nut LH | ER 40 | 63    | 100  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |

| Part code   | Description              | ER    | D     | L   | Connection                        | Balancing (RPM) |
|-------------|--------------------------|-------|-------|-----|-----------------------------------|-----------------|
| <b>KB33</b> | collet chuck with nut LH | ER 40 | 63    | 100 | BT 40/A-A/B                       | 15.000          |
| <b>KB33</b> | collet chuck with nut LH | ER 40 | 63    | 100 | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KB33</b> | collet chuck with nut LH | ER 40 | 63    | 100 | BT 50/A-A/B                       | 12.000          |
| <b>KB34</b> | collet chuck with nut LH | ER 40 | 2.48" | 4"  | CAT 40                            | 15.000          |
| <b>KB34</b> | collet chuck with nut LH | ER 40 | 2.48" | 4"  | CAT 50                            | 12.000          |
| <b>KB35</b> | collet chuck with nut LH | ER 50 | 78    | 100 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KB35</b> | collet chuck with nut LH | ER 50 | 78    | 100 | BT 40/A-A/B                       | 15.000          |
| <b>KB35</b> | collet chuck with nut LH | ER 50 | 78    | 100 | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KB35</b> | collet chuck with nut LH | ER 50 | 78    | 100 | BT 50/A-A/B                       | 12.000          |
| <b>KB36</b> | collet chuck with nut LH | ER 50 | 3.07" | 4"  | CAT 40                            | 15.000          |
| <b>KB36</b> | collet chuck with nut LH | ER 50 | 3.07" | 4"  | CAT 50                            | 12.000          |



## Part codes for available SK/BT/CAT CONNECTIONS\*

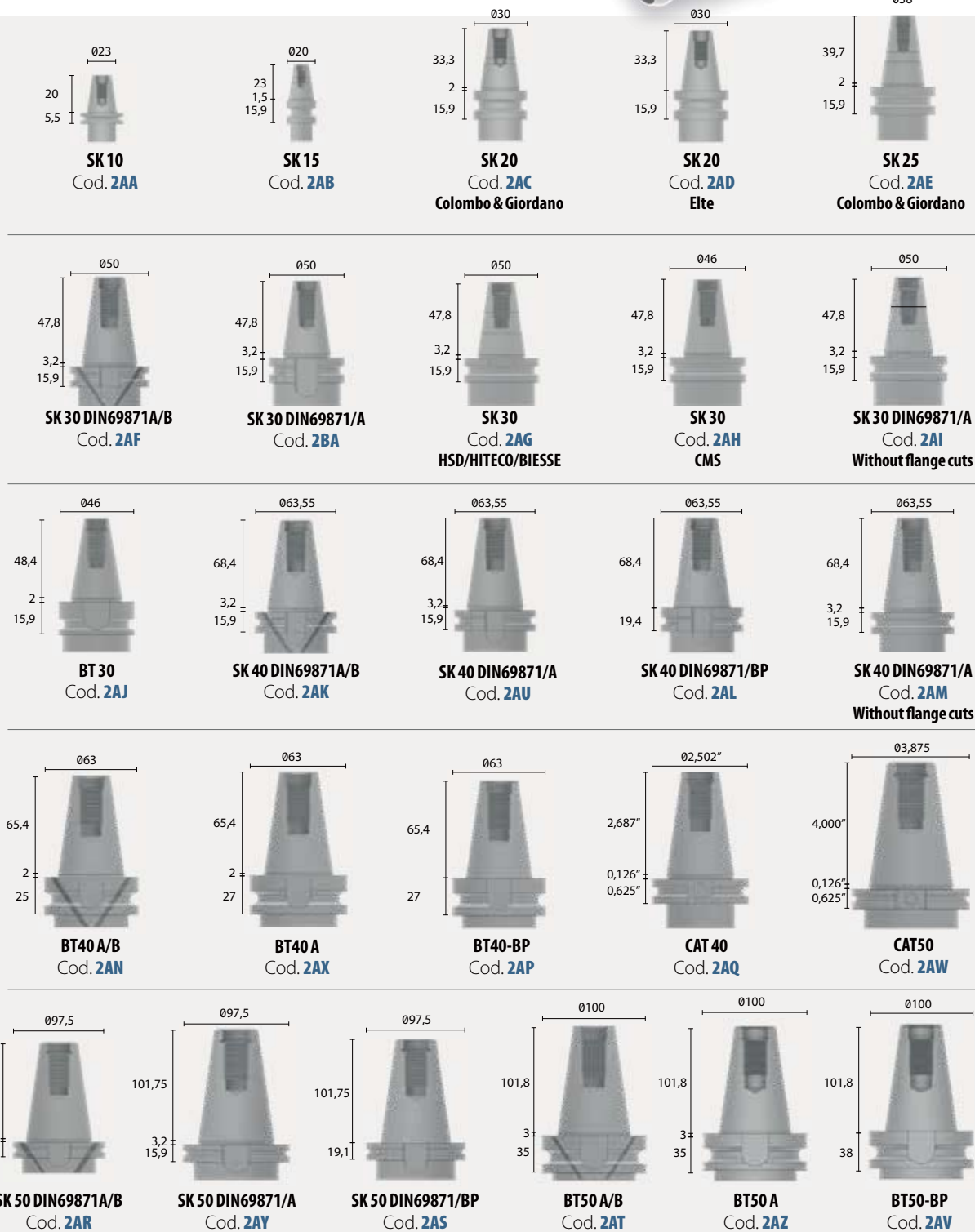
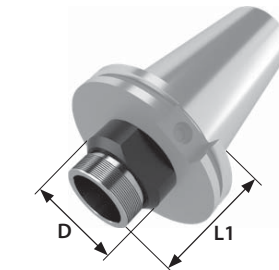
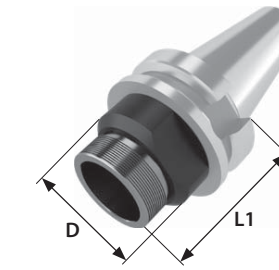
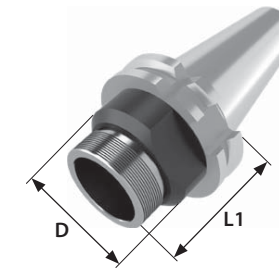
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Collet chucks RH without collet nut for ER collet DIN 6499/DIN 15488

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



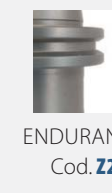
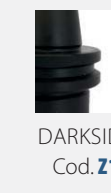
| Part code | Description                      | ER    | D     | L1    | Connection                    | Balancing (RPM) |
|-----------|----------------------------------|-------|-------|-------|-------------------------------|-----------------|
| KC00      | collet chuck without mini nut RH | ER 8  | 12    | 15    | SK 10                         | 70.000          |
| KC01      | collet chuck without hex nut RH  | ER 11 | EX17  | 13    | SK 10                         | 70.000          |
| KC02      | collet chuck without hex nut RH  | ER 11 | EX17  | 35,5  | SK 15                         | 70.000          |
| KC03      | collet chuck without mini nut RH | ER 11 | 16    | 39,7  | SK 20 "C&G"                   | 50.000          |
| KC03      | collet chuck without mini nut RH | ER 11 | 16    | 39,7  | SK 20 "ELTE"                  | 50.000          |
| KC04      | collet chuck without mini nut RH | ER 16 | 22    | 19,8  | SK 10                         | 70.000          |
| KC05      | collet chuck without mini nut RH | ER 16 | 22    | 51,2  | SK 15                         | 70.000          |
| KC06      | collet chuck without mini nut RH | ER 16 | 22    | 40,9  | SK 20 "C&G"                   | 50.000          |
| KC37      | collet chuck without mini nut RH | ER 16 | 22    | 38,9  | SK 20 "ELTE"                  | 50.000          |
| KC07      | collet chuck without mini nut RH | ER 16 | 22    | 35,8  | SK 30 "CMS"                   | 15.000          |
| KC08      | collet chuck without mini nut RH | ER 16 | 22    | 37,3  | SK 30 "HSD"/"HITECO"/"BIESSE" | 15.000          |
| KC09      | collet chuck without mini nut RH | ER 16 | 22    | 60    | SK 40 DIN 69871/A-A/B         | 15.000          |
| KC38      | collet chuck without mini nut RH | ER 16 | 22    | 59    | SK 40 DIN 69871/BP            | 15.000          |
| KC09      | collet chuck without mini nut RH | ER 16 | 22    | 60    | BT 40/A-A/B                   | 15.000          |
| KC38      | collet chuck without mini nut RH | ER 16 | 22    | 59    | BT 40/BP                      | 15.000          |
| KC10      | collet chuck without nut RH      | ER 16 | 32    | 90    | SK 40 DIN 69871/A-A/B         | 15.000          |
| KC10      | collet chuck without nut RH      | ER 16 | 32    | 90    | BT 40/A-A/B                   | 15.000          |
| KC10      | collet chuck without nut RH      | ER 16 | 32    | 90    | SK 50 DIN 69871/A-A/B         | 12.000          |
| KC10      | collet chuck without nut RH      | ER 16 | 32    | 90    | BT 50/A-A/B                   | 12.000          |
| KC11      | collet chuck without nut RH      | ER 16 | 1.25" | 3.59" | CAT 40                        | 15.000          |
| KC11      | collet chuck without nut RH      | ER 16 | 1.25" | 3.59" | CAT 50                        | 12.000          |
| KC12      | collet chuck without mini nut RH | ER 20 | 28    | 44    | SK 20 "C&G"                   | 50.000          |
| KC13      | collet chuck without mini nut RH | ER 20 | 28    | 40    | SK 20 "ELTE"                  | 50.000          |
| KC14      | collet chuck without mini nut RH | ER 20 | 28    | 37    | SK 30 "HSD"/"HITECO"/"BIESSE" | 15.000          |
| KC39      | collet chuck without mini nut RH | ER 20 | 28    | 50    | SK 30 DIN 69871/A-A/B         | 15.000          |
| KC15      | collet chuck without mini nut RH | ER 20 | 28    | 59    | SK 40 DIN 69871/A-A/B         | 15.000          |
| KC15      | collet chuck without mini nut RH | ER 20 | 28    | 59    | SK 40 DIN 69871/BP            | 15.000          |
| KC15      | collet chuck without mini nut RH | ER 20 | 28    | 59    | BT 40/A-A/B                   | 15.000          |
| KC15      | collet chuck without mini nut RH | ER 20 | 28    | 59    | BT 40/BP                      | 15.000          |
| KC16      | collet chuck without nut RH      | ER 20 | 35    | 59    | SK 40 DIN 69871/A-A/B         | 15.000          |

| Part code | Description                      | ER    | D     | L1    | Connection                        | Balancing (RPM) |
|-----------|----------------------------------|-------|-------|-------|-----------------------------------|-----------------|
| KC16      | collet chuck without nut RH      | ER 20 | 35    | 59    | BT 40/A-A/B                       | 15.000          |
| KC17      | collet chuck without nut RH      | ER 20 | 1.34" | 3.56" | CAT 40                            | 15.000          |
| KC17      | collet chuck without nut RH      | ER 20 | 1.34" | 3.56" | CAT 50                            | 12.000          |
| KC18      | collet chuck without mini nut RH | ER 25 | 42    | 53    | SK 25 "C&G"                       | 50.000          |
| KC19      | collet chuck without mini nut RH | ER 25 | 35    | 58,5  | SK 30 DIN 69871/A-A/B             | 15.000          |
| KC20      | collet chuck without mini nut RH | ER 25 | 35    | 37    | SK 30 "HSD"/"HITECO"/"BIESSE"     | 15.000          |
| KC21      | collet chuck without nut RH      | ER 25 | 42    | 37    | SK 30 "HSD"/"HITECO"/"BIESSE"     | 15.000          |
| KC22      | collet chuck without nut RH      | ER 25 | 42    | 58,5  | SK 40 DIN 69871/A-A/B             | 15.000          |
| KC22      | collet chuck without nut RH      | ER 25 | 42    | 58,5  | SK 40 DIN 69871/BP                | 15.000          |
| KC22      | collet chuck without nut RH      | ER 25 | 42    | 58,5  | BT 40/A-A/B                       | 15.000          |
| KC22      | collet chuck without nut RH      | ER 25 | 42    | 58,5  | BT 40/BP                          | 15.000          |
| KC22      | collet chuck without nut RH      | ER 25 | 42    | 58,5  | SK 50 DIN 69871/A-A/B             | 12.000          |
| KC22      | collet chuck without nut RH      | ER 25 | 42    | 58,5  | SK 50 DIN 69871/BP                | 12.000          |
| KC22      | collet chuck without nut RH      | ER 25 | 42    | 58,5  | BT 50/A-A/B                       | 12.000          |
| KC22      | collet chuck without nut RH      | ER 25 | 42    | 58,5  | BT 50/BP                          | 12.000          |
| KC23      | collet chuck without nut RH      | ER 25 | 1.65" | 3.54" | CAT 40                            | 15.000          |
| KC23      | collet chuck without nut RH      | ER 25 | 1.65" | 3.54" | CAT 50                            | 12.000          |
| KC24      | collet chuck without nut RH      | ER 32 | 50    | 57,5  | SK 30 DIN 69871/A-A/B             | 15.000          |
| KC24      | collet chuck without nut RH      | ER 32 | 50    | 54,2  | SK 30 DIN 69871/A/W/O FLANGE CUTS | 15.000          |
| KC25      | collet chuck without nut RH      | ER 32 | 50    | 36,6  | SK 30 "HSD"/"HITECO"/"BIESSE"     | 15.000          |
| KC26      | collet chuck without nut RH      | ER 32 | 50    | 43    | SK 30 "CMS"                       | 15.000          |

● MANUFACTURING MATERIAL ● OPTIONAL MATERIAL



● OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

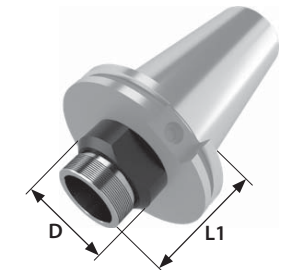
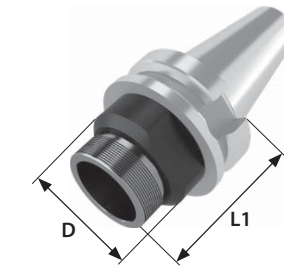
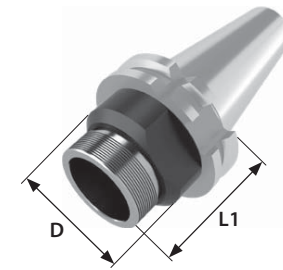
Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



TOOL HOLDERS SK/BT/CAT

Collet chucks RH without collet nut for ER collet DIN 6499/DIN 15488



| Part code   | Description                 | ER    | D     | L1   | Connection                        | Balancing (RPM) |
|-------------|-----------------------------|-------|-------|------|-----------------------------------|-----------------|
| <b>KC27</b> | collet chuck without nut RH | ER 32 | 50    | 57,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KC27</b> | collet chuck without nut RH | ER 32 | 50    | 57,5 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KC27</b> | collet chuck without nut RH | ER 32 | 50    | 57,5 | SK 40 DIN 69871/BP                | 15.000          |
| <b>KC27</b> | collet chuck without nut RH | ER 32 | 50    | 57,5 | BT 40/A-A/B                       | 15.000          |
| <b>KC27</b> | collet chuck without nut RH | ER 32 | 50    | 57,5 | BT 40/BP                          | 15.000          |
| <b>KC27</b> | collet chuck without nut RH | ER 32 | 50    | 57,5 | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KC27</b> | collet chuck without nut RH | ER 32 | 50    | 57,5 | SK 50 DIN 69871/BP                | 12.000          |
| <b>KC27</b> | collet chuck without nut RH | ER 32 | 50    | 57,5 | BT 50/A-A/B                       | 12.000          |
| <b>KC27</b> | collet chuck without nut RH | ER 32 | 50    | 57,5 | BT 50/BP                          | 12.000          |
| <b>KC28</b> | collet chuck without nut RH | ER 32 | 50    | 87,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KC28</b> | collet chuck without nut RH | ER 32 | 50    | 87,5 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KC28</b> | collet chuck without nut RH | ER 32 | 50    | 87,5 | BT 40/A-A/B                       | 15.000          |
| <b>KC28</b> | collet chuck without nut RH | ER 32 | 50    | 87,5 | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KC28</b> | collet chuck without nut RH | ER 32 | 50    | 87,5 | BT 50/A-A/B                       | 12.000          |
| <b>KC29</b> | collet chuck without nut RH | ER 32 | 1.97" | 3.5" | CAT 40                            | 15.000          |
| <b>KC29</b> | collet chuck without nut RH | ER 32 | 1.97" | 3.5" | CAT 50                            | 12.000          |
| <b>KC30</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KC30</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KC31</b> | collet chuck without nut RH | ER 40 | 50    | 42   | SK 30 "HSD"/"HITECO"              | 15.000          |
| <b>KC32</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KC32</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KC32</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | SK 40 DIN 69871/BP                | 15.000          |
| <b>KC32</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | BT 40/A-A/B                       | 15.000          |
| <b>KC32</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | BT 40/BP                          | 15.000          |
| <b>KC32</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KC32</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | SK 50 DIN 69871/BP                | 12.000          |
| <b>KC32</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | BT 50/A-A/B                       | 12.000          |
| <b>KC32</b> | collet chuck without nut RH | ER 40 | 50    | 55,5 | BT 50/BP                          | 12.000          |
| <b>KC33</b> | collet chuck without nut RH | ER 40 | 50    | 85,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KC33</b> | collet chuck without nut RH | ER 40 | 50    | 85,5 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |

| Part code   | Description                 | ER    | D     | L1    | Connection                        | Balancing (RPM) |
|-------------|-----------------------------|-------|-------|-------|-----------------------------------|-----------------|
| <b>KC33</b> | collet chuck without nut RH | ER 40 | 50    | 85,5  | BT 40/A-A/B                       | 15.000          |
| <b>KC33</b> | collet chuck without nut RH | ER 40 | 50    | 85,5  | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KC33</b> | collet chuck without nut RH | ER 40 | 50    | 85,5  | BT 50/A-A/B                       | 12.000          |
| <b>KC34</b> | collet chuck without nut RH | ER 40 | 2.48" | 3.4"  | CAT 40                            | 15.000          |
| <b>KC34</b> | collet chuck without nut RH | ER 40 | 2.48" | 3.4"  | CAT 50                            | 12.000          |
| <b>KC35</b> | collet chuck without nut RH | ER 50 | 68    | 78,5  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KC35</b> | collet chuck without nut RH | ER 50 | 68    | 78,5  | BT 40/A-A/B                       | 15.000          |
| <b>KC35</b> | collet chuck without nut RH | ER 50 | 68    | 78,5  | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KC35</b> | collet chuck without nut RH | ER 50 | 68    | 78,5  | BT 50/A-A/B                       | 12.000          |
| <b>KC36</b> | collet chuck without nut RH | ER 50 | 3.07" | 3.15" | CAT 40                            | 15.000          |
| <b>KC36</b> | collet chuck without nut RH | ER 50 | 3.07" | 3.15" | CAT 50                            | 12.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

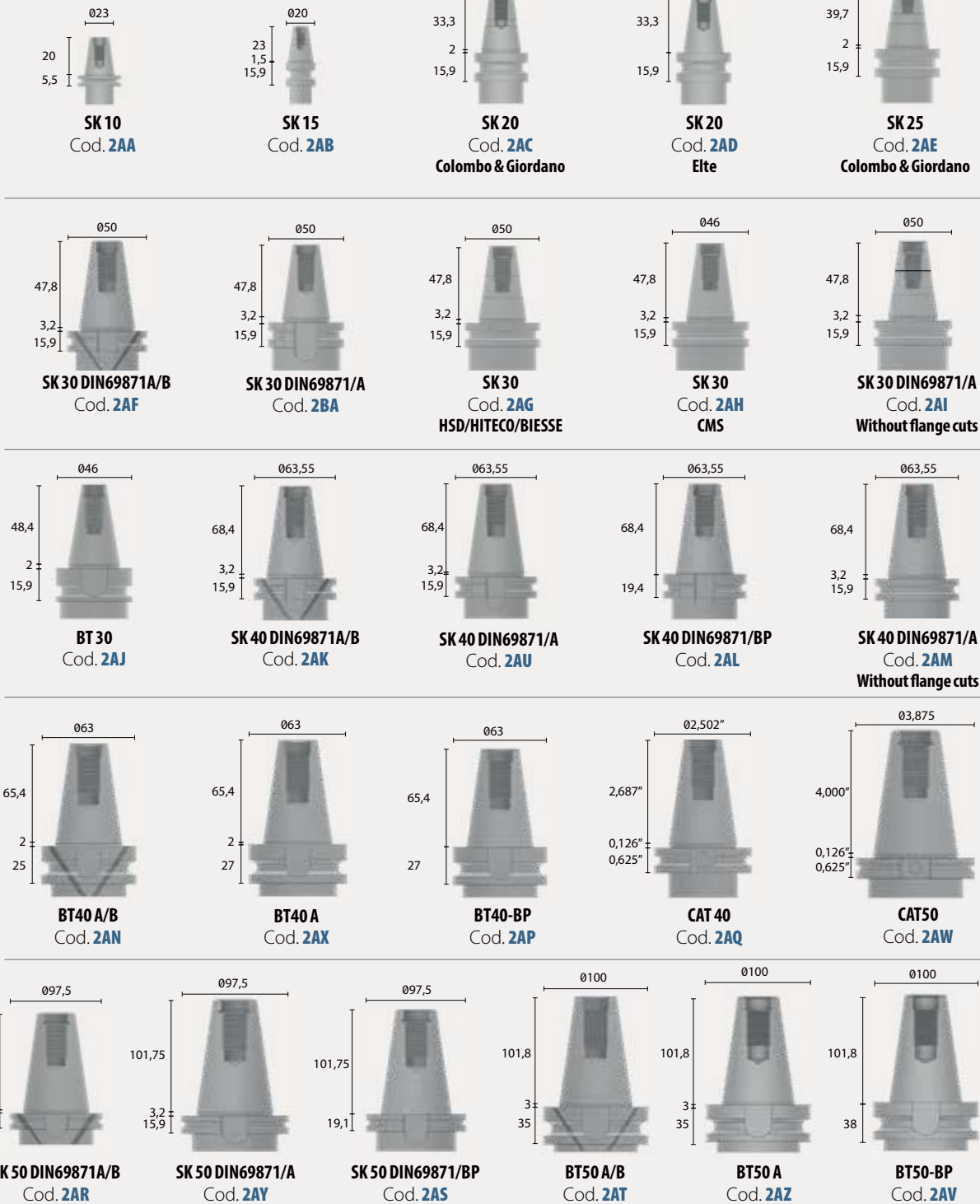
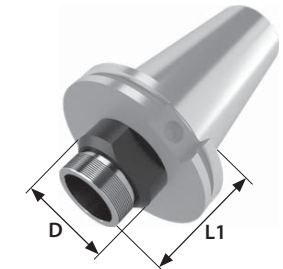
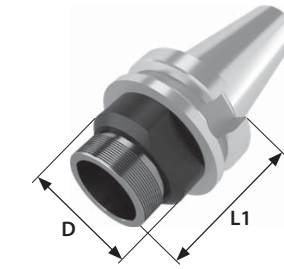
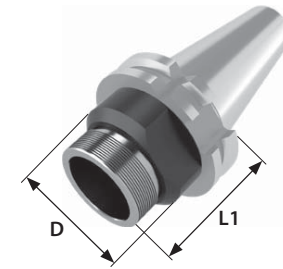
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Collet chucks LH without collet nut for ER collet DIN 6499/DIN 15488

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



| Part code   | Description                      | ER    | D     | L1    | Connection                           | Balancing (RPM) |
|-------------|----------------------------------|-------|-------|-------|--------------------------------------|-----------------|
| <b>KD00</b> | collet chuck without mini nut LH | ER 8  | 12    | 15    | <b>SK 10</b>                         | 70.000          |
| <b>KD01</b> | collet chuck without hex nut LH  | ER 11 | EX17  | 13    | <b>SK 10</b>                         | 70.000          |
| <b>KD02</b> | collet chuck without hex nut LH  | ER 11 | EX17  | 35,5  | <b>SK 15</b>                         | 70.000          |
| <b>KD03</b> | collet chuck without mini nut LH | ER 11 | 16    | 39,7  | <b>SK 20 "C&amp;G"</b>               | 50.000          |
| <b>KD03</b> | collet chuck without mini nut LH | ER 11 | 16    | 39,7  | <b>SK 20 "ELTE"</b>                  | 50.000          |
| <b>KD04</b> | collet chuck without mini nut LH | ER 16 | 22    | 19,8  | <b>SK 10</b>                         | 70.000          |
| <b>KD05</b> | collet chuck without mini nut LH | ER 16 | 22    | 51,2  | <b>SK 15</b>                         | 70.000          |
| <b>KD06</b> | collet chuck without mini nut LH | ER 16 | 22    | 40,9  | <b>SK 20 "C&amp;G"</b>               | 50.000          |
| <b>KD37</b> | collet chuck without mini nut LH | ER 16 | 22    | 38,9  | <b>SK 20 "ELTE"</b>                  | 50.000          |
| <b>KD07</b> | collet chuck without mini nut LH | ER 16 | 22    | 35,8  | <b>SK 30 "CMS"</b>                   | 15.000          |
| <b>KD08</b> | collet chuck without mini nut LH | ER 16 | 22    | 37,3  | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b> | 15.000          |
| <b>KD09</b> | collet chuck without mini nut LH | ER 16 | 22    | 60    | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KD38</b> | collet chuck without mini nut LH | ER 16 | 22    | 59    | <b>SK 40 DIN 69871/BP</b>            | 15.000          |
| <b>KD09</b> | collet chuck without mini nut LH | ER 16 | 22    | 60    | <b>BT 40/A-A/B</b>                   | 15.000          |
| <b>KD38</b> | collet chuck without mini nut LH | ER 16 | 22    | 59    | <b>BT 40/BP</b>                      | 15.000          |
| <b>KD10</b> | collet chuck without nut LH      | ER 16 | 32    | 90    | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KD10</b> | collet chuck without nut LH      | ER 16 | 32    | 90    | <b>BT 40/A-A/B</b>                   | 15.000          |
| <b>KD10</b> | collet chuck without nut LH      | ER 16 | 32    | 90    | <b>SK 50 DIN 69871/A-A/B</b>         | 12.000          |
| <b>KD10</b> | collet chuck without nut LH      | ER 16 | 32    | 90    | <b>BT 50/A-A/B</b>                   | 12.000          |
| <b>KD11</b> | collet chuck without nut LH      | ER 16 | 1.25" | 3.59" | <b>CAT 40</b>                        | 15.000          |
| <b>KD11</b> | collet chuck without nut LH      | ER 16 | 1.25" | 3.59" | <b>CAT 50</b>                        | 12.000          |
| <b>KD12</b> | collet chuck without mini nut LH | ER 20 | 28    | 44    | <b>SK 20 "C&amp;G"</b>               | 50.000          |
| <b>KD13</b> | collet chuck without mini nut LH | ER 20 | 28    | 40    | <b>SK 20 "ELTE"</b>                  | 50.000          |
| <b>KD14</b> | collet chuck without mini nut LH | ER 20 | 28    | 37    | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b> | 15.000          |
| <b>KD39</b> | collet chuck without mini nut LH | ER 20 | 28    | 50    | <b>SK 30 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KD15</b> | collet chuck without mini nut LH | ER 20 | 28    | 59    | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |
| <b>KD15</b> | collet chuck without mini nut LH | ER 20 | 28    | 59    | <b>SK 40 DIN 69871/BP</b>            | 15.000          |
| <b>KD15</b> | collet chuck without mini nut LH | ER 20 | 28    | 59    | <b>BT 40/A-A/B</b>                   | 15.000          |
| <b>KD15</b> | collet chuck without mini nut LH | ER 20 | 28    | 59    | <b>BT 40/BP</b>                      | 15.000          |
| <b>KD16</b> | collet chuck without nut LH      | ER 20 | 35    | 59    | <b>SK 40 DIN 69871/A-A/B</b>         | 15.000          |

| Part code   | Description                      | ER    | D     | L1    | Connection                               | Balancing (RPM) |
|-------------|----------------------------------|-------|-------|-------|--|-----------------|
| <b>KD16</b> | collet chuck without nut LH      | ER 20 | 35    | 59    | <b>BT 40/A-A/B</b>                       | 15.000          |
| <b>KD17</b> | collet chuck without nut LH      | ER 20 | 1.34" | 3.56" | <b>CAT 40</b>                            | 15.000          |
| <b>KD17</b> | collet chuck without nut LH      | ER 20 | 1.34" | 3.56" | <b>CAT 50</b>                            | 12.000          |
| <b>KD18</b> | collet chuck without mini nut LH | ER 25 | 42    | 53    | <b>SK 25 "C&amp;G"</b>                   | 50.000          |
| <b>KD19</b> | collet chuck without mini nut LH | ER 25 | 35    | 58,5  | <b>SK 30 DIN 69871/A-A/B</b>             | 15.000          |
| <b>KD20</b> | collet chuck without mini nut LH | ER 25 | 35    | 37    | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b>     | 15.000          |
| <b>KD21</b> | collet chuck without nut LH      | ER 25 | 42    | 37    | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b>     | 15.000          |
| <b>KD22</b> | collet chuck without nut LH      | ER 25 | 42    | 58,5  | <b>SK 40 DIN 69871/A-A/B</b>             | 15.000          |
| <b>KD22</b> | collet chuck without nut LH      | ER 25 | 42    | 58,5  | <b>SK 40 DIN 69871/BP</b>                | 15.000          |
| <b>KD22</b> | collet chuck without nut LH      | ER 25 | 42    | 58,5  | <b>BT 40/A-A/B</b>                       | 15.000          |
| <b>KD22</b> | collet chuck without nut LH      | ER 25 | 42    | 58,5  | <b>BT 40/BP</b>                          | 15.000          |
| <b>KD22</b> | collet chuck without nut LH      | ER 25 | 42    | 58,5  | <b>SK 50 DIN 69871/A-A/B</b>             | 12.000          |
| <b>KD22</b> | collet chuck without nut LH      | ER 25 | 42    | 58,5  | <b>SK 50 DIN 69871/BP</b>                | 12.000          |
| <b>KD22</b> | collet chuck without nut LH      | ER 25 | 42    | 58,5  | <b>BT 50/A-A/B</b>                       | 12.000          |
| <b>KD22</b> | collet chuck without nut LH      | ER 25 | 42    | 58,5  | <b>BT 50/BP</b>                          | 12.000          |
| <b>KD23</b> | collet chuck without nut LH      | ER 25 | 1.65" | 3.54" | <b>CAT 40</b>                            | 15.000          |
| <b>KD23</b> | collet chuck without nut LH      | ER 25 | 1.65" | 3.54" | <b>CAT 50</b>                            | 12.000          |
| <b>KD24</b> | collet chuck without nut LH      | ER 32 | 50    | 57,5  | <b>SK 30 DIN 69871/A-A/B</b>             | 15.000          |
| <b>KD40</b> | collet chuck without nut LH      | ER 32 | 50    | 54,2  | <b>SK 30 DIN 69871/A/W/O FLANGE CUTS</b> | 15.000          |
| <b>KD25</b> | collet chuck without nut LH      | ER 32 | 50    | 36,6  | <b>SK 30 "HSD"/"HITECO"/"BIESSE"</b>     | 15.000          |
| <b>KD26</b> | collet chuck without nut LH      | ER 32 | 50    | 43    | <b>SK 30 "CMS"</b>                       | 15.000          |

● MANUFACTURING MATERIAL ● OPTIONAL MATERIAL



● OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

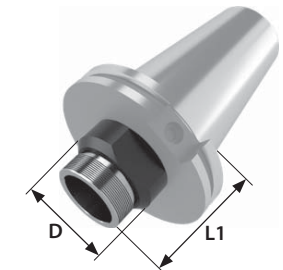
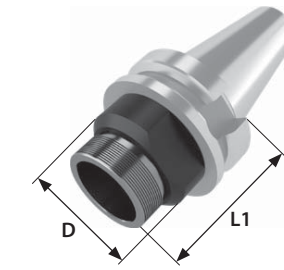
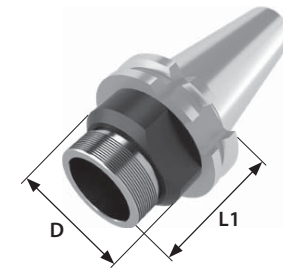
Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



TOOL HOLDERS SK/BT/CAT

Collet chucks LH without collet nut for ER collet DIN 6499/DIN 15488



| Part code   | Description                 | ER    | D     | L1   | Connection                        | Balancing (RPM) |
|-------------|-----------------------------|-------|-------|------|-----------------------------------|-----------------|
| <b>KD27</b> | collet chuck without nut LH | ER 32 | 50    | 57,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KD27</b> | collet chuck without nut LH | ER 32 | 50    | 57,5 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KD27</b> | collet chuck without nut LH | ER 32 | 50    | 57,5 | SK 40 DIN 69871/BP                | 15.000          |
| <b>KD27</b> | collet chuck without nut LH | ER 32 | 50    | 57,5 | BT 40/A-A/B                       | 15.000          |
| <b>KD27</b> | collet chuck without nut LH | ER 32 | 50    | 57,5 | BT 40/BP                          | 15.000          |
| <b>KD27</b> | collet chuck without nut LH | ER 32 | 50    | 57,5 | SK 50 DIN 69871/A-A/B             | 15.000          |
| <b>KD27</b> | collet chuck without nut LH | ER 32 | 50    | 57,5 | SK 50 DIN 69871/BP                | 12.000          |
| <b>KD27</b> | collet chuck without nut LH | ER 32 | 50    | 57,5 | BT 50/A-A/B                       | 12.000          |
| <b>KD27</b> | collet chuck without nut LH | ER 32 | 50    | 57,5 | BT 50/BP                          | 12.000          |
| <b>KD28</b> | collet chuck without nut LH | ER 32 | 50    | 87,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KD28</b> | collet chuck without nut LH | ER 32 | 50    | 87,5 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KD28</b> | collet chuck without nut LH | ER 32 | 50    | 87,5 | BT 40/A-A/B                       | 15.000          |
| <b>KD28</b> | collet chuck without nut LH | ER 32 | 50    | 87,5 | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KD28</b> | collet chuck without nut LH | ER 32 | 50    | 87,5 | BT 50/A-A/B                       | 12.000          |
| <b>KD29</b> | collet chuck without nut LH | ER 32 | 1.97" | 3.5" | CAT 40                            | 15.000          |
| <b>KD29</b> | collet chuck without nut LH | ER 32 | 1.97" | 3.5" | CAT 50                            | 12.000          |
| <b>KD30</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KD30</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KD31</b> | collet chuck without nut LH | ER 40 | 50    | 42   | SK 30 "HSD"/"HITECO"              | 15.000          |
| <b>KD32</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KD32</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KD32</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | SK 40 DIN 69871/BP                | 15.000          |
| <b>KD32</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | BT 40/A-A/B                       | 15.000          |
| <b>KD32</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | BT 40/BP                          | 15.000          |
| <b>KD32</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KD32</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | SK 50 DIN 69871/BP                | 12.000          |
| <b>KD32</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | BT 50/A-A/B                       | 12.000          |
| <b>KD32</b> | collet chuck without nut LH | ER 40 | 50    | 55,5 | BT 50/BP                          | 12.000          |
| <b>KD33</b> | collet chuck without nut LH | ER 40 | 50    | 85,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KD33</b> | collet chuck without nut LH | ER 40 | 50    | 85,5 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |

| Part code   | Description                 | ER    | D     | L1    | Connection                        | Balancing (RPM) |
|-------------|-----------------------------|-------|-------|-------|-----------------------------------|-----------------|
| <b>KD33</b> | collet chuck without nut LH | ER 40 | 50    | 85,5  | BT 40/A-A/B                       | 15.000          |
| <b>KD33</b> | collet chuck without nut LH | ER 40 | 50    | 85,5  | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KD33</b> | collet chuck without nut LH | ER 40 | 50    | 85,5  | BT 50/A-A/B                       | 12.000          |
| <b>KD34</b> | collet chuck without nut LH | ER 40 | 2.48" | 3.4"  | CAT 40                            | 15.000          |
| <b>KD34</b> | collet chuck without nut LH | ER 40 | 2.48" | 3.4"  | CAT 50                            | 12.000          |
| <b>KD35</b> | collet chuck without nut LH | ER 50 | 68    | 78,5  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KD35</b> | collet chuck without nut LH | ER 50 | 68    | 78,5  | BT 40/A-A/B                       | 15.000          |
| <b>KD35</b> | collet chuck without nut LH | ER 50 | 68    | 78,5  | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KD35</b> | collet chuck without nut LH | ER 50 | 68    | 78,5  | BT 50/A-A/B                       | 12.000          |
| <b>KD36</b> | collet chuck without nut LH | ER 50 | 3.07" | 3.15" | CAT 40                            | 15.000          |
| <b>KD36</b> | collet chuck without nut LH | ER 50 | 3.07" | 3.15" | CAT 50                            | 12.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

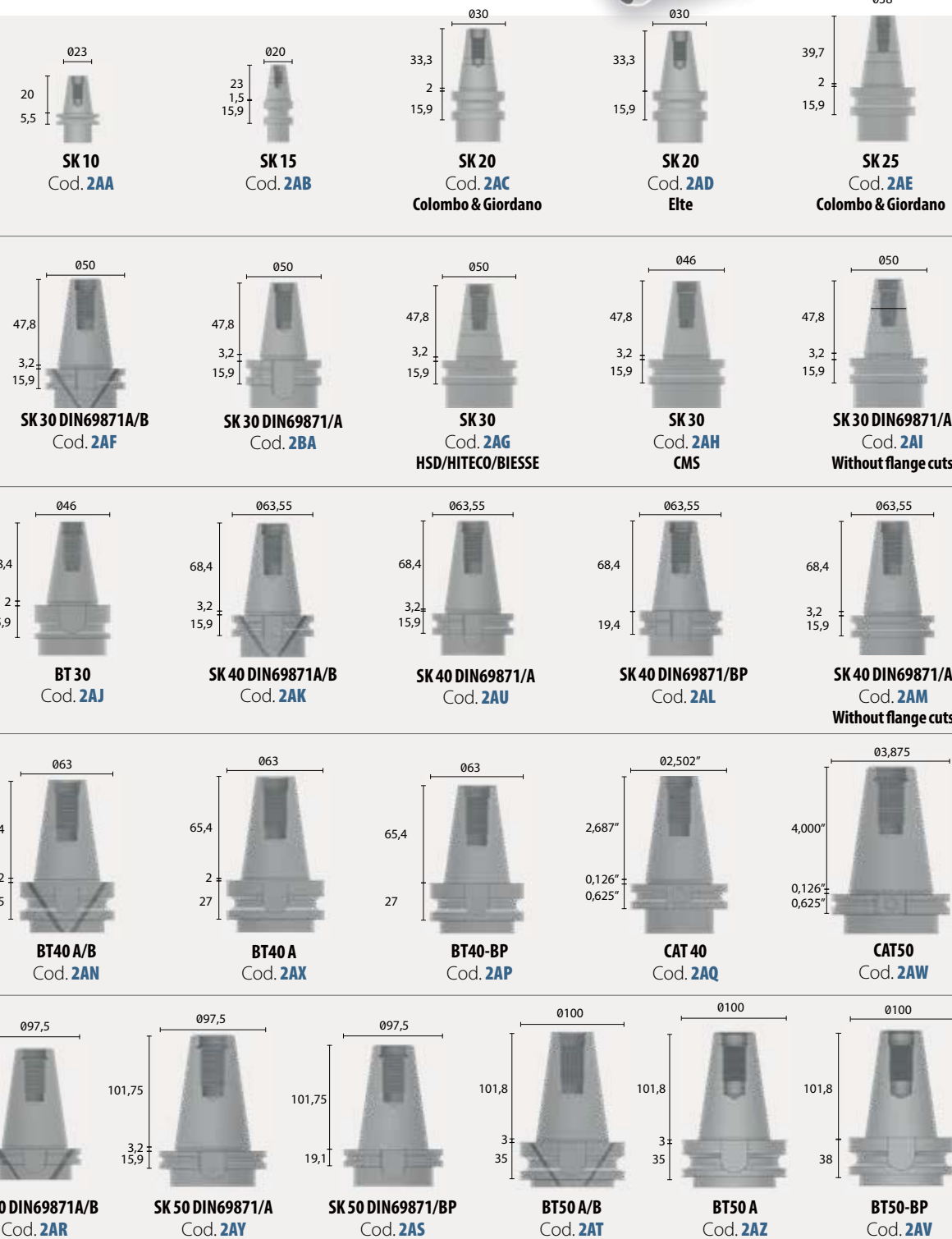
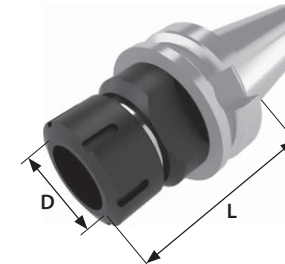
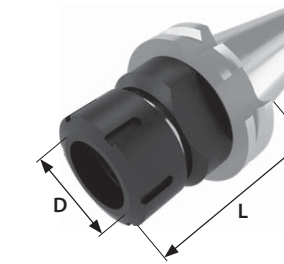
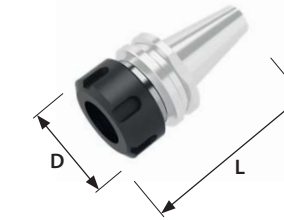
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Collet chucks RH/LH with collet nut for collet EOC DIN 6388

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



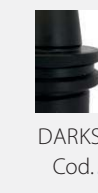
| Part code   | Description              | EOC    | D  | L   | Connection                        | Balancing (RPM) |
|-------------|--------------------------|--------|----|-----|-----------------------------------|-----------------|
| <b>KE00</b> | collet chuck with nut RH | EOC 10 | 30 | 45  | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KE00</b> | collet chuck with nut RH | EOC 10 | 30 | 45  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KE01</b> | collet chuck with nut RH | EOC 12 | 35 | 60  | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KE01</b> | collet chuck with nut RH | EOC 12 | 35 | 60  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KE02</b> | collet chuck with nut RH | EOC 16 | 43 | 60  | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KE02</b> | collet chuck with nut RH | EOC 16 | 43 | 60  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KE03</b> | collet chuck with nut RH | EOC 20 | 50 | 70  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KE03</b> | collet chuck with nut RH | EOC 20 | 50 | 70  | BT 40/A-A/B                       | 15.000          |
| <b>KE04</b> | collet chuck with nut RH | EOC 25 | 60 | 70  | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KE04</b> | collet chuck with nut RH | EOC 25 | 60 | 70  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KE04</b> | collet chuck with nut RH | EOC 25 | 60 | 70  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KE04</b> | collet chuck with nut RH | EOC 25 | 60 | 70  | BT 40/A-A/B                       | 15.000          |
| <b>KE05</b> | collet chuck with nut RH | EOC 25 | 60 | 100 | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KE05</b> | collet chuck with nut RH | EOC 25 | 60 | 100 | BT 50/A-A/B                       | 12.000          |

| Part code   | Description              | EOC    | D  | L   | Connection                        | Balancing (RPM) |
|-------------|--------------------------|--------|----|-----|-----------------------------------|-----------------|
| <b>KF00</b> | collet chuck with nut LH | EOC 10 | 30 | 45  | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KF00</b> | collet chuck with nut LH | EOC 10 | 30 | 45  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KF01</b> | collet chuck with nut LH | EOC 12 | 35 | 60  | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KF01</b> | collet chuck with nut LH | EOC 12 | 35 | 60  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KF02</b> | collet chuck with nut LH | EOC 16 | 43 | 60  | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KF02</b> | collet chuck with nut LH | EOC 16 | 43 | 60  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KF03</b> | collet chuck with nut LH | EOC 20 | 50 | 70  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KF03</b> | collet chuck with nut LH | EOC 20 | 50 | 70  | BT 40/A-A/B                       | 15.000          |
| <b>KF04</b> | collet chuck with nut LH | EOC 25 | 60 | 70  | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KF04</b> | collet chuck with nut LH | EOC 25 | 60 | 70  | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KF04</b> | collet chuck with nut LH | EOC 25 | 60 | 70  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KF04</b> | collet chuck with nut LH | EOC 25 | 60 | 70  | BT 40/A-A/B                       | 15.000          |
| <b>KF05</b> | collet chuck with nut LH | EOC 25 | 60 | 100 | SK 50 DIN 69871/A-A/B             | 12.000          |
| <b>KF05</b> | collet chuck with nut LH | EOC 25 | 60 | 100 | BT 50/A-A/B                       | 12.000          |

● MANUFACTURING MATERIAL ● OPTIONAL MATERIAL



● OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

## Part codes for available SK/BT/CAT CONNECTIONS\*

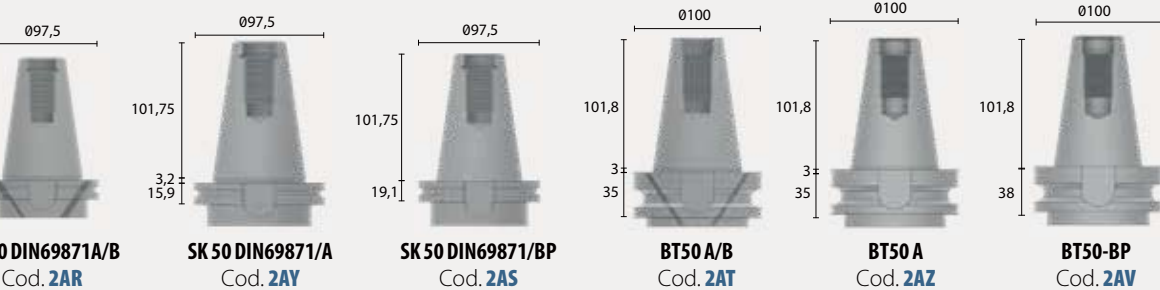
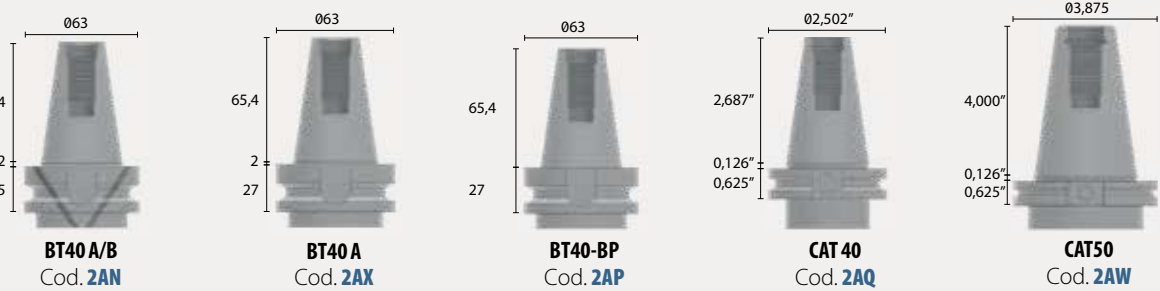
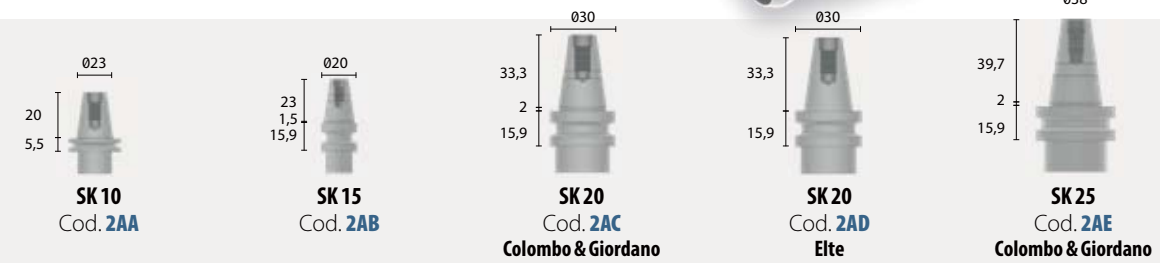
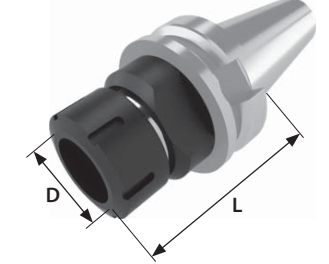
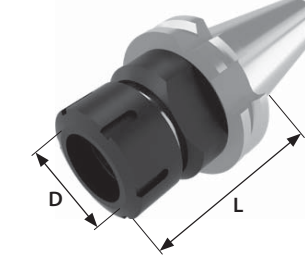
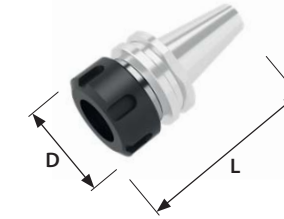
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Collet chucks RH/LH without collet nut for collet EOC DIN 6388

Thanks to its setting versatility, the collet chuck is the most popular solution for milling operations at high speed.



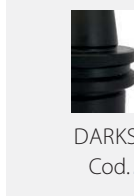
| Part code   | Description                 | EOC    | D  | L1   | Connection                        | Balancing (RPM) |
|-------------|-----------------------------|--------|----|------|-----------------------------------|-----------------|
| <b>KG00</b> | collet chuck without nut RH | EOC 10 | 30 | 36   | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KG00</b> | collet chuck without nut RH | EOC 10 | 30 | 36   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KG01</b> | collet chuck without nut RH | EOC 12 | 35 | 50,5 | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KG01</b> | collet chuck without nut RH | EOC 12 | 35 | 50,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KG02</b> | collet chuck without nut RH | EOC 16 | 43 | 49   | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KG02</b> | collet chuck without nut RH | EOC 16 | 43 | 49   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KG03</b> | collet chuck without nut RH | EOC 20 | 50 | 58   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KG03</b> | collet chuck without nut RH | EOC 20 | 50 | 58   | BT 40/A-A/B                       | 15.000          |
| <b>KG04</b> | collet chuck without nut RH | EOC 25 | 60 | 58   | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KG04</b> | collet chuck without nut RH | EOC 25 | 60 | 58   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KG04</b> | collet chuck without nut RH | EOC 25 | 60 | 58   | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KG04</b> | collet chuck without nut RH | EOC 25 | 60 | 58   | BT 40/A-A/B                       | 15.000          |
| <b>KG05</b> | collet chuck without nut RH | EOC 25 | 60 | 88   | BT 50/A-A/B                       | 12.000          |
| <b>KG05</b> | collet chuck without nut RH | EOC 25 | 60 | 88   | SK 50 DIN 69871/A-A/B             | 12.000          |

| Part code   | Description                 | EOC    | D  | L1   | Connection                        | Balancing (RPM) |
|-------------|-----------------------------|--------|----|------|-----------------------------------|-----------------|
| <b>KH00</b> | collet chuck without nut LH | EOC 10 | 30 | 36   | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KH00</b> | collet chuck without nut LH | EOC 10 | 30 | 36   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KH01</b> | collet chuck without nut LH | EOC 12 | 35 | 50,5 | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KH01</b> | collet chuck without nut LH | EOC 12 | 35 | 50,5 | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KH02</b> | collet chuck without nut LH | EOC 16 | 43 | 49   | SK 30 DIN 69871/A-A/B             | 15.000          |
| <b>KH02</b> | collet chuck without nut LH | EOC 16 | 43 | 49   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KH03</b> | collet chuck without nut LH | EOC 20 | 50 | 58   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KH03</b> | collet chuck without nut LH | EOC 20 | 50 | 58   | BT 40/A-A/B                       | 15.000          |
| <b>KH04</b> | collet chuck without nut LH | EOC 25 | 60 | 58   | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KH04</b> | collet chuck without nut LH | EOC 25 | 60 | 58   | SK 40 DIN 69871/A-A/B             | 15.000          |
| <b>KH04</b> | collet chuck without nut LH | EOC 25 | 60 | 58   | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KH04</b> | collet chuck without nut LH | EOC 25 | 60 | 58   | BT 40/A-A/B                       | 15.000          |
| <b>KH05</b> | collet chuck without nut LH | EOC 25 | 60 | 88   | BT 50/A-A/B                       | 12.000          |
| <b>KH05</b> | collet chuck without nut LH | EOC 25 | 60 | 88   | SK 50 DIN 69871/A-A/B             | 12.000          |

● MANUFACTURING MATERIAL ● OPTIONAL MATERIAL



● OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

## Part codes for available SK/BT/CAT CONNECTIONS\*

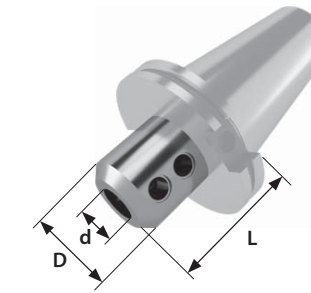
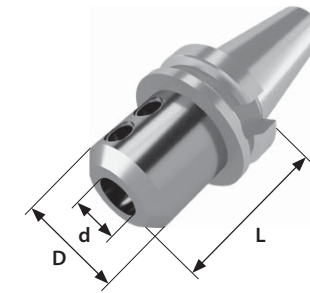
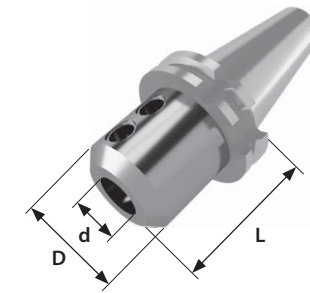
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### End mill holders DIN 1835/B

End Mill Holders are affordable, quick to install, and easy to use. An optimal choice for quality and price for lower speed operations.



| Part code | Description     | D  | d  | L  | Connection                        | Balancing (RPM) |
|-----------|-----------------|----|----|----|-----------------------------------|-----------------|
| KJ00      | end mill holder | 25 | 6  | 70 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KJ00      | end mill holder | 25 | 6  | 70 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ00      | end mill holder | 25 | 6  | 70 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ00      | end mill holder | 25 | 6  | 70 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ00      | end mill holder | 25 | 6  | 70 | BT 30 - BT 40/A-A/B               | 15.000          |
| KJ01      | end mill holder | 28 | 8  | 70 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KJ01      | end mill holder | 28 | 8  | 70 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ01      | end mill holder | 28 | 8  | 70 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ01      | end mill holder | 28 | 8  | 70 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ01      | end mill holder | 28 | 8  | 70 | BT 30 - BT 40/A-A/B               | 15.000          |
| KJ02      | end mill holder | 35 | 10 | 70 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KJ02      | end mill holder | 35 | 10 | 70 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ02      | end mill holder | 35 | 10 | 70 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ02      | end mill holder | 35 | 10 | 70 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ02      | end mill holder | 35 | 10 | 70 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KJ02      | end mill holder | 35 | 10 | 70 | BT 30 - BT 40/A-A/B - BT 50/A-A/B | 15.000          |
| KJ03      | end mill holder | 42 | 12 | 70 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KJ03      | end mill holder | 42 | 12 | 70 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ03      | end mill holder | 42 | 12 | 70 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ03      | end mill holder | 42 | 12 | 70 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ03      | end mill holder | 42 | 12 | 70 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KJ03      | end mill holder | 42 | 12 | 70 | BT 30 - BT 40/A-A/B - BT 50/A-A/B | 15.000          |
| KJ04      | end mill holder | 44 | 14 | 70 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KJ04      | end mill holder | 44 | 14 | 70 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ04      | end mill holder | 44 | 14 | 70 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ04      | end mill holder | 44 | 14 | 70 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ04      | end mill holder | 44 | 14 | 70 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KJ04      | end mill holder | 44 | 14 | 70 | BT 40/A-A/B - BT 50/A-A/B         | 15.000          |
| KJ05      | end mill holder | 48 | 16 | 70 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KJ05      | end mill holder | 48 | 16 | 70 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ05      | end mill holder | 48 | 16 | 70 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ05      | end mill holder | 48 | 16 | 70 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ05      | end mill holder | 48 | 16 | 70 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KJ05      | end mill holder | 48 | 16 | 70 | BT 40/A-A/B - BT 50/A-A/B         | 15.000          |
| KJ22      | end mill holder | 48 | 16 | 80 | SK 30 DIN 69871/A W/O FLANGE CUTS | 12.000          |
| KJ06      | end mill holder | 50 | 18 | 70 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ06      | end mill holder | 50 | 18 | 70 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ06      | end mill holder | 50 | 18 | 70 | SK 50 DIN 69871/A-A/B             | 15.000          |

| Part code | Description     | D     | d     | L   | Connection                        | Balancing (RPM) |
|-----------|-----------------|-------|-------|-----|-----------------------------------|-----------------|
| KJ06      | end mill holder | 50    | 18    | 70  | SK 50 DIN 69871/A-A/B             | 12.000          |
| KJ06      | end mill holder | 50    | 18    | 70  | BT 40/A-A/B                       | 15.000          |
| KJ24      | end mill holder | 50    | 18    | 80  | BT 50/A-A/B                       | 12.000          |
| KJ07      | end mill holder | 52    | 20    | 70  | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ07      | end mill holder | 52    | 20    | 70  | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ07      | end mill holder | 52    | 20    | 70  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KJ07      | end mill holder | 52    | 20    | 70  | SK 50 DIN 69871/A-A/B             | 12.000          |
| KJ07      | end mill holder | 52    | 20    | 70  | BT 40/A-A/B                       | 15.000          |
| KJ25      | end mill holder | 52    | 20    | 80  | BT 50/A-A/B                       | 12.000          |
| KJ08      | end mill holder | 65    | 25    | 100 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ08      | end mill holder | 65    | 25    | 100 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KJ08      | end mill holder | 65    | 25    | 100 | BT 40/A-A/B - BT 50/A-A/B         | 15.000          |
| KJ09      | end mill holder | 72    | 32    | 100 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ09      | end mill holder | 72    | 32    | 100 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KJ09      | end mill holder | 72    | 32    | 100 | BT 40/A-A/B                       | 15.000          |
| KJ23      | end mill holder | 72    | 32    | 110 | BT 50/A-A/B                       | 12.000          |
| KJ10      | end mill holder | 80    | 40    | 120 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KJ10      | end mill holder | 80    | 40    | 120 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KJ10      | end mill holder | 80    | 40    | 120 | BT 40/A-A/B - BT 50/A-A/B         | 15.000          |
| KJ11      | end mill holder | 0.78" | 1/4"  | 3"  | CAT 40                            | 15.000          |
| KJ12      | end mill holder | 0.88" | 5/16" | 3"  | CAT 40                            | 15.000          |
| KJ13      | end mill holder | 1"    | 3/8"  | 3"  | CAT 40                            | 15.000          |
| KJ14      | end mill holder | 1.25" | 1/2"  | 3"  | CAT 40                            | 15.000          |
| KJ15      | end mill holder | 1.75" | 3/4"  | 3"  | CAT 40                            | 15.000          |
| KJ16      | end mill holder | 2"    | 1"    | 4"  | CAT 40                            | 15.000          |
| KJ17      | end mill holder | 0.78" | 1/4"  | 4"  | CAT 50                            | 12.000          |
| KJ18      | end mill holder | 0.88" | 5/16" | 4"  | CAT 50                            | 12.000          |
| KJ19      | end mill holder | 1"    | 3/8"  | 4"  | CAT 50                            | 12.000          |
| KJ20      | end mill holder | 1.25" | 1/2"  | 4"  | CAT 50                            | 12.000          |
| KJ21      | end mill holder | 1.75" | 3/4"  | 4"  | CAT 50                            | 12.000          |
| KJ16      | end mill holder | 2"    | 1"    | 4"  | CAT 50                            | 12.000          |

• MANUFACTURING MATERIAL



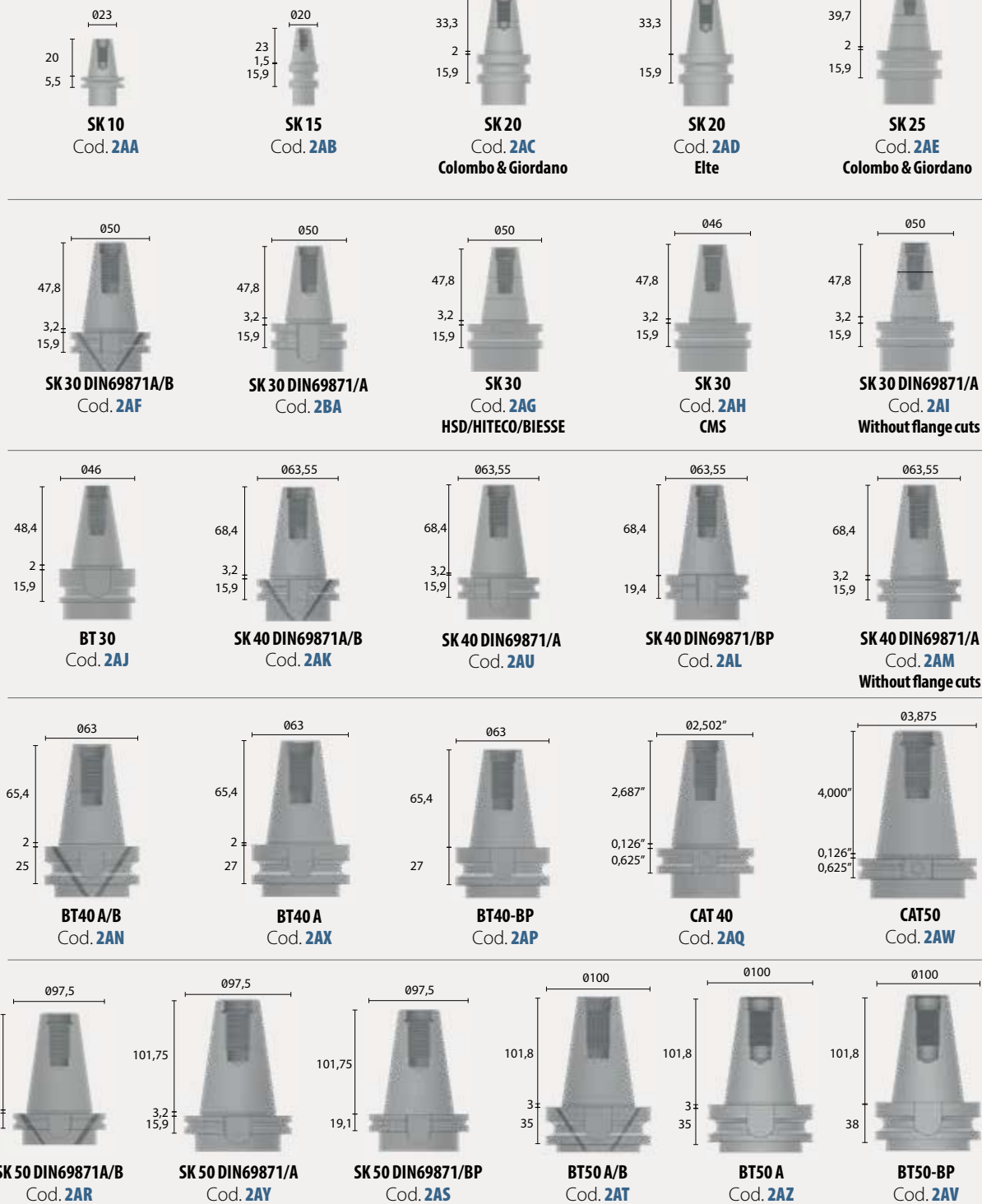
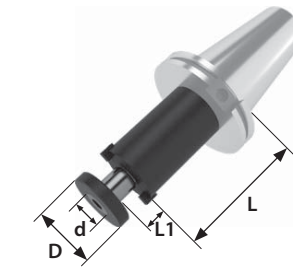
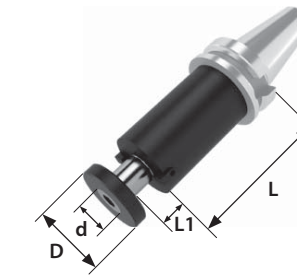
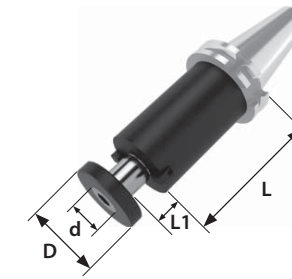
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Face Mill holders DIN 6357

Traditional locking system for metalworking mills, the tool is held in place with spacer rings, closing washer and screw.



| Part code   | Description      | D  | d  | L1 | L  | Connection            | Balancing (RPM) |
|-------------|------------------|----|----|----|----|-----------------------|-----------------|
| <b>KK00</b> | face mill holder | 39 | 16 | 17 | 50 | SK 30 DIN 69871/A-A/B | 15.000          |
| <b>KK00</b> | face mill holder | 39 | 16 | 17 | 50 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KK00</b> | face mill holder | 39 | 16 | 17 | 50 | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KK00</b> | face mill holder | 39 | 16 | 17 | 50 | BT 30                 | 15.000          |
| <b>KK00</b> | face mill holder | 39 | 16 | 17 | 50 | BT 40/A-A/B           | 15.000          |
| <b>KK01</b> | face mill holder | 39 | 16 | 17 | 70 | BT 50/A-A/B           | 12.000          |
| <b>KK02</b> | face mill holder | 48 | 22 | 19 | 50 | SK 30 DIN 69871/A-A/B | 15.000          |
| <b>KK02</b> | face mill holder | 48 | 22 | 19 | 50 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KK03</b> | face mill holder | 48 | 22 | 19 | 58 | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KK03</b> | face mill holder | 48 | 22 | 19 | 58 | BT 30                 | 15.000          |
| <b>KK03</b> | face mill holder | 48 | 22 | 19 | 58 | BT 40/A-A/B           | 15.000          |
| <b>KK04</b> | face mill holder | 48 | 22 | 19 | 70 | BT 50/A-A/B           | 12.000          |
| <b>KK05</b> | face mill holder | 55 | 27 | 21 | 58 | SK 30 DIN 69871/A-A/B | 15.000          |
| <b>KK05</b> | face mill holder | 55 | 27 | 21 | 58 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KK05</b> | face mill holder | 55 | 27 | 21 | 58 | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KK05</b> | face mill holder | 55 | 27 | 21 | 58 | BT 30                 | 15.000          |
| <b>KK05</b> | face mill holder | 55 | 27 | 21 | 58 | BT 40/A-A/B           | 15.000          |
| <b>KK06</b> | face mill holder | 55 | 27 | 21 | 70 | BT 50/A-A/B           | 12.000          |
| <b>KK07</b> | face mill holder | 63 | 32 | 24 | 56 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KK07</b> | face mill holder | 63 | 32 | 24 | 56 | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KK07</b> | face mill holder | 63 | 32 | 24 | 56 | BT 40/A-A/B           | 15.000          |
| <b>KK07</b> | face mill holder | 63 | 32 | 24 | 56 | BT 50/A-A/B           | 12.000          |
| <b>KK08</b> | face mill holder | 63 | 32 | 24 | 70 | BT 50/A-A/B           | 12.000          |
| <b>KK09</b> | face mill holder | 78 | 40 | 27 | 56 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KK09</b> | face mill holder | 78 | 40 | 27 | 56 | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KK09</b> | face mill holder | 78 | 40 | 27 | 56 | BT 40/A-A/B           | 15.000          |
| <b>KK10</b> | face mill holder | 78 | 40 | 27 | 80 | BT 50/A-A/B           | 12.000          |

| Part code   | Description      | D     | d      | L1    | L     | Connection | Balancing (RPM) |
|-------------|------------------|-------|--------|-------|-------|------------|-----------------|
| <b>KK11</b> | face mill holder | 1.69" | 3/4"   | 0.69" | 1.37" | CAT 40     | 15.000          |
| <b>KK12</b> | face mill holder | 2.2"  | 1"     | 0.69" | 4"    | CAT 40     | 15.000          |
| <b>KK13</b> | face mill holder | 3.8"  | 1-1/2" | 0.94" | 4"    | CAT 40     | 15.000          |
| <b>KK14</b> | face mill holder | 1.69" | 3/4"   | 0.69" | 3.5"  | CAT 50     | 12.000          |
| <b>KK12</b> | face mill holder | 2.2"  | 1"     | 0.69" | 4"    | CAT 50     | 12.000          |
| <b>KK13</b> | face mill holder | 3.8"  | 1-1/2" | 0.94" | 4"    | CAT 50     | 12.000          |

MANUFACTURING MATERIAL





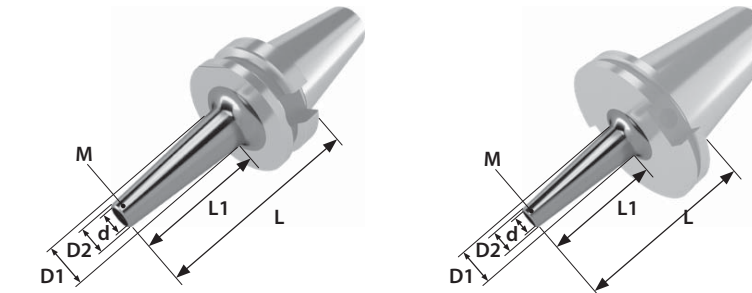
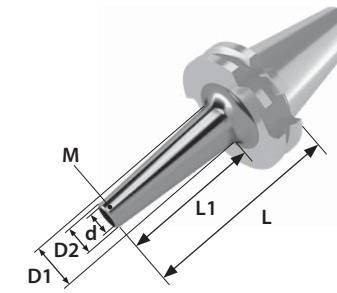
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Modular tool holders

The modular tool holders are used in assembly with sharpening mills and drills with a threaded connection.



| Part code   | Description         | d    | M   | L   | L1    | D1 | D2 | Connection            | Balancing (RPM) |
|-------------|---------------------|------|-----|-----|-------|----|----|-----------------------|-----------------|
| <b>KL00</b> | modular tool holder | 8,5  | M8  | 94  | 74,9  | 23 | 13 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KL01</b> | modular tool holder | 8,5  | M8  | 94  | 67    | 23 | 13 | BT 40/A-A/B           | 15.000          |
| <b>KL02</b> | modular tool holder | 10,5 | M10 | 94  | 74,9  | 26 | 13 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KL03</b> | modular tool holder | 10,5 | M10 | 94  | 67    | 26 | 18 | BT 40/A-A/B           | 15.000          |
| <b>KL04</b> | modular tool holder | 10,5 | M10 | 120 | 100,9 | 32 | 18 | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KL05</b> | modular tool holder | 10,5 | M10 | 120 | 82    | 32 | 18 | BT 50/A-A/B           | 12.000          |
| <b>KL06</b> | modular tool holder | 12,5 | M12 | 94  | 74,9  | 26 | 21 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KL07</b> | modular tool holder | 12,5 | M12 | 94  | 67    | 26 | 21 | BT 40/A-A/B           | 15.000          |
| <b>KL08</b> | modular tool holder | 12,5 | M12 | 120 | 100,9 | 31 | 21 | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KL09</b> | modular tool holder | 12,5 | M12 | 120 | 82    | 31 | 21 | BT 50/A-A/B           | 12.000          |

| Part code   | Description         | d  | M   | L   | L1    | D1 | D2 | Connection            | Balancing (RPM) |
|-------------|---------------------|----|-----|-----|-------|----|----|-----------------------|-----------------|
| <b>KL10</b> | modular tool holder | 17 | M16 | 94  | 74,9  | 36 | 29 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KL11</b> | modular tool holder | 17 | M16 | 94  | 67    | 36 | 29 | BT 40/A-A/B           | 15.000          |
| <b>KL12</b> | modular tool holder | 17 | M16 | 120 | 100,9 | 36 | 29 | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KL13</b> | modular tool holder | 17 | M16 | 120 | 82    | 36 | 29 | BT 50/A-A/B           | 12.000          |
| <b>KL14</b> | modular tool holder | 21 | M20 | 94  | 74,9  | 39 | 29 | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KL15</b> | modular tool holder | 21 | M20 | 94  | 67    | 39 | 29 | BT 40/A-A/B           | 15.000          |
| <b>KL16</b> | modular tool holder | 21 | M20 | 120 | 100,9 | 39 | 29 | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KL17</b> | modular tool holder | 21 | M20 | 120 | 82    | 39 | 29 | BT 50/A-A/B           | 12.000          |

• MANUFACTURING MATERIAL



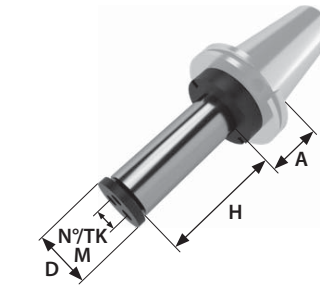
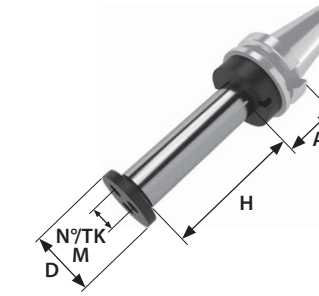
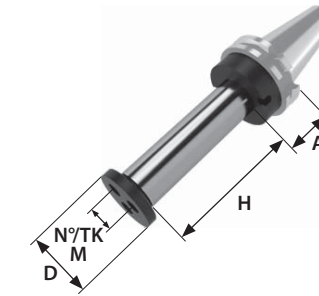
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Milling arbors

Traditional clamping system for woodworking mills. The tool is held in place by spacer rings, end cap and three locking screws.



| Part code | Description   | A  | D  | H   | M  | N°/TK | Connection  | Balancing (RPM) |
|-----------|---------------|----|----|-----|----|-------|---|-----------------|
| K000      | milling arbor | 35 | 20 | 70  | M5 | 3/12  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K001      | milling arbor | 35 | 20 | 75  | M5 | 3/12  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K002      | milling arbor | 35 | 20 | 80  | M5 | 3/12  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K003      | milling arbor | 35 | 20 | 85  | M5 | 3/12  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K004      | milling arbor | 35 | 20 | 90  | M5 | 3/12  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K005      | milling arbor | 35 | 20 | 95  | M5 | 3/12  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K006      | milling arbor | 35 | 20 | 100 | M5 | 3/12  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K007      | milling arbor | 35 | 25 | 70  | M6 | 3/16  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K008      | milling arbor | 35 | 25 | 75  | M6 | 3/16  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K009      | milling arbor | 35 | 25 | 80  | M6 | 3/16  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K010      | milling arbor | 35 | 25 | 85  | M6 | 3/16  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K011      | milling arbor | 35 | 25 | 90  | M6 | 3/16  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K012      | milling arbor | 35 | 25 | 95  | M6 | 3/16  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K013      | milling arbor | 35 | 25 | 100 | M6 | 3/16  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30               | 15.000          |
| K014      | milling arbor | 35 | 30 | 70  | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K015      | milling arbor | 35 | 30 | 75  | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K016      | milling arbor | 35 | 30 | 80  | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K017      | milling arbor | 35 | 30 | 85  | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K018      | milling arbor | 35 | 30 | 90  | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K019      | milling arbor | 35 | 30 | 95  | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K020      | milling arbor | 35 | 30 | 100 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K021      | milling arbor | 35 | 30 | 105 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K022      | milling arbor | 35 | 30 | 110 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K023      | milling arbor | 35 | 30 | 115 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K024      | milling arbor | 35 | 30 | 120 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K025      | milling arbor | 35 | 30 | 125 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K026      | milling arbor | 35 | 30 | 130 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K027      | milling arbor | 35 | 30 | 135 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |

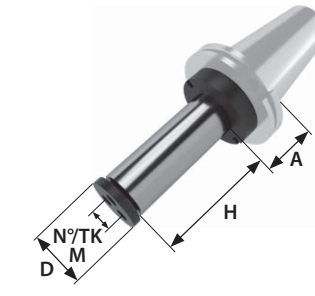
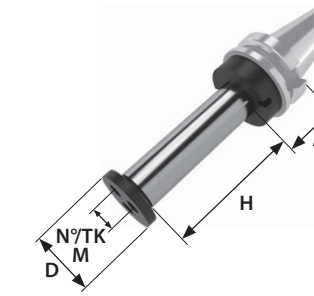
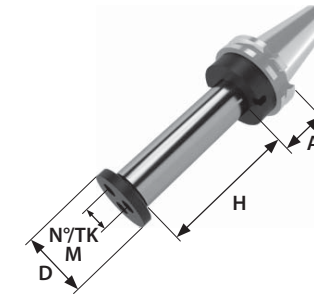
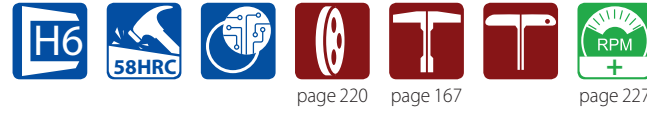
| Part code | Description   | A  | D  | H   | M  | N°/TK | Connection  | Balancing (RPM) |
|-----------|---------------|----|----|-----|----|-------|---|-----------------|
| K028      | milling arbor | 35 | 30 | 140 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K029      | milling arbor | 35 | 30 | 145 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K030      | milling arbor | 35 | 30 | 150 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K031      | milling arbor | 35 | 30 | 160 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K032      | milling arbor | 35 | 30 | 170 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K033      | milling arbor | 35 | 30 | 180 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K034      | milling arbor | 35 | 30 | 190 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K035      | milling arbor | 35 | 30 | 200 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K036      | milling arbor | 35 | 35 | 70  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K037      | milling arbor | 35 | 35 | 75  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K038      | milling arbor | 35 | 35 | 80  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K039      | milling arbor | 35 | 35 | 85  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K040      | milling arbor | 35 | 35 | 90  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K041      | milling arbor | 35 | 35 | 95  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K042      | milling arbor | 35 | 35 | 100 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K043      | milling arbor | 35 | 35 | 105 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K044      | milling arbor | 35 | 35 | 110 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K045      | milling arbor | 35 | 35 | 115 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K046      | milling arbor | 35 | 35 | 120 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K047      | milling arbor | 35 | 35 | 125 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K048      | milling arbor | 35 | 35 | 130 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K049      | milling arbor | 35 | 35 | 135 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K050      | milling arbor | 35 | 35 | 140 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K051      | milling arbor | 35 | 35 | 145 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K052      | milling arbor | 35 | 35 | 150 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K053      | milling arbor | 35 | 35 | 160 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K054      | milling arbor | 35 | 35 | 170 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K055      | milling arbor | 35 | 35 | 180 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Milling arbors



| Part code | Description   | A  | D     | H   | M  | N°/TK | Connection  | Balancing (RPM) |
|-----------|---------------|----|-------|-----|----|-------|---|-----------------|
| K056      | milling arbor | 35 | 35    | 190 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K057      | milling arbor | 35 | 35    | 200 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K058      | milling arbor | 35 | 40    | 70  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K059      | milling arbor | 35 | 40    | 75  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K060      | milling arbor | 35 | 40    | 80  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K061      | milling arbor | 35 | 40    | 85  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K062      | milling arbor | 35 | 40    | 90  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K063      | milling arbor | 35 | 40    | 95  | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K064      | milling arbor | 35 | 40    | 100 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K065      | milling arbor | 35 | 40    | 105 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K066      | milling arbor | 35 | 40    | 110 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K067      | milling arbor | 35 | 40    | 115 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K068      | milling arbor | 35 | 40    | 120 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K069      | milling arbor | 35 | 40    | 125 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K070      | milling arbor | 35 | 40    | 130 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K071      | milling arbor | 35 | 40    | 135 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K072      | milling arbor | 35 | 40    | 140 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K073      | milling arbor | 35 | 40    | 145 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K074      | milling arbor | 35 | 40    | 150 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K075      | milling arbor | 35 | 40    | 160 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K076      | milling arbor | 35 | 40    | 170 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K077      | milling arbor | 35 | 40    | 180 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K078      | milling arbor | 35 | 40    | 190 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K079      | milling arbor | 35 | 40    | 200 | M6 | 3/25  | SK 30 DIN 69871/A W/O FLANGE CUTS                       | 15.000          |
| K080      | milling arbor | 35 | 1"    | 80  | M6 | 3/16  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K081      | milling arbor | 35 | 1"    | 150 | M6 | 3/16  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K082      | milling arbor | 35 | 1-1/4 | 80  | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |
| K083      | milling arbor | 35 | 1-1/4 | 150 | M6 | 3/20  | SK 30 DIN 69871/A W/O FLANGE CUTS - BT 30 - SK 30 "CMS" | 15.000          |

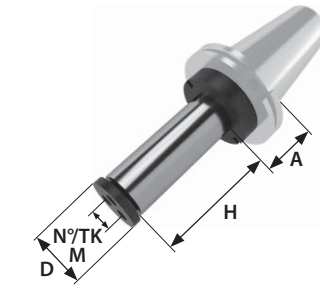
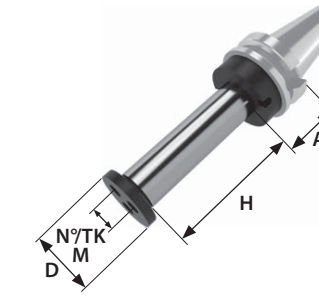
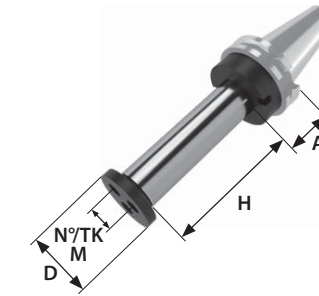
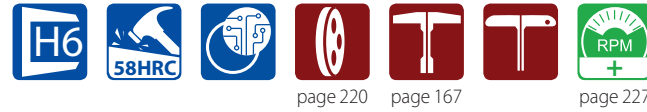
| Part code | Description   | A  | D  | H   | M  | N°/TK | Connection                        | Balancing (RPM) |
|-----------|---------------|----|----|-----|----|-------|-----------------------------------|-----------------|
| K200      | milling arbor | 35 | 30 | 70  | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K201      | milling arbor | 35 | 30 | 75  | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K202      | milling arbor | 35 | 30 | 80  | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K203      | milling arbor | 35 | 30 | 85  | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K204      | milling arbor | 35 | 30 | 90  | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K205      | milling arbor | 35 | 30 | 95  | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K206      | milling arbor | 35 | 30 | 100 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K207      | milling arbor | 35 | 30 | 105 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K208      | milling arbor | 35 | 30 | 110 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K209      | milling arbor | 35 | 30 | 115 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K210      | milling arbor | 35 | 30 | 120 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K211      | milling arbor | 35 | 30 | 125 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K212      | milling arbor | 35 | 30 | 130 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K213      | milling arbor | 35 | 30 | 135 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K214      | milling arbor | 35 | 30 | 140 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K215      | milling arbor | 35 | 30 | 145 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K216      | milling arbor | 35 | 30 | 150 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K217      | milling arbor | 35 | 30 | 160 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K218      | milling arbor | 35 | 30 | 170 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K219      | milling arbor | 35 | 30 | 180 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K220      | milling arbor | 35 | 30 | 190 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K221      | milling arbor | 35 | 30 | 200 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K222      | milling arbor | 35 | 35 | 70  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K223      | milling arbor | 35 | 35 | 75  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K224      | milling arbor | 35 | 35 | 80  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K225      | milling arbor | 35 | 35 | 85  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K226      | milling arbor | 35 | 35 | 90  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K227      | milling arbor | 35 | 35 | 95  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Milling arbors



| Part code | Description   | A  | D  | H   | M  | N°/TK | Connection                        | Balancing (RPM) |
|-----------|---------------|----|----|-----|----|-------|-----------------------------------|-----------------|
| K228      | milling arbor | 35 | 35 | 100 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K229      | milling arbor | 35 | 35 | 105 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K230      | milling arbor | 35 | 35 | 110 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K231      | milling arbor | 35 | 35 | 115 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K232      | milling arbor | 35 | 35 | 120 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K233      | milling arbor | 35 | 35 | 125 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K234      | milling arbor | 35 | 35 | 130 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K235      | milling arbor | 35 | 35 | 135 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K236      | milling arbor | 35 | 35 | 140 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K237      | milling arbor | 35 | 35 | 145 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K238      | milling arbor | 35 | 35 | 150 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K239      | milling arbor | 35 | 35 | 160 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K240      | milling arbor | 35 | 35 | 170 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K241      | milling arbor | 35 | 35 | 180 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K242      | milling arbor | 35 | 35 | 190 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K243      | milling arbor | 35 | 35 | 200 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K244      | milling arbor | 35 | 40 | 70  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K245      | milling arbor | 35 | 40 | 75  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K246      | milling arbor | 35 | 40 | 80  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K247      | milling arbor | 35 | 40 | 85  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K248      | milling arbor | 35 | 40 | 90  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K249      | milling arbor | 35 | 40 | 95  | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K250      | milling arbor | 35 | 40 | 100 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K251      | milling arbor | 35 | 40 | 105 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K252      | milling arbor | 35 | 40 | 110 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K253      | milling arbor | 35 | 40 | 115 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K254      | milling arbor | 35 | 40 | 120 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K255      | milling arbor | 35 | 40 | 125 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |

| Part code | Description   | A  | D     | H   | M  | N°/TK | Connection                        | Balancing (RPM) |
|-----------|---------------|----|-------|-----|----|-------|-----------------------------------|-----------------|
| K256      | milling arbor | 35 | 40    | 130 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K257      | milling arbor | 35 | 40    | 135 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K258      | milling arbor | 35 | 40    | 140 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K259      | milling arbor | 35 | 40    | 145 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K260      | milling arbor | 35 | 40    | 150 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K261      | milling arbor | 35 | 40    | 160 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K262      | milling arbor | 35 | 40    | 170 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K263      | milling arbor | 35 | 40    | 180 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K264      | milling arbor | 35 | 40    | 190 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K265      | milling arbor | 35 | 40    | 200 | M6 | 3/25  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K266      | milling arbor | 35 | 1"    | 80  | M6 | 3/16  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K267      | milling arbor | 35 | 1"    | 150 | M6 | 3/16  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K268      | milling arbor | 35 | 1-1/4 | 80  | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| K269      | milling arbor | 35 | 1-1/4 | 150 | M6 | 3/20  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |

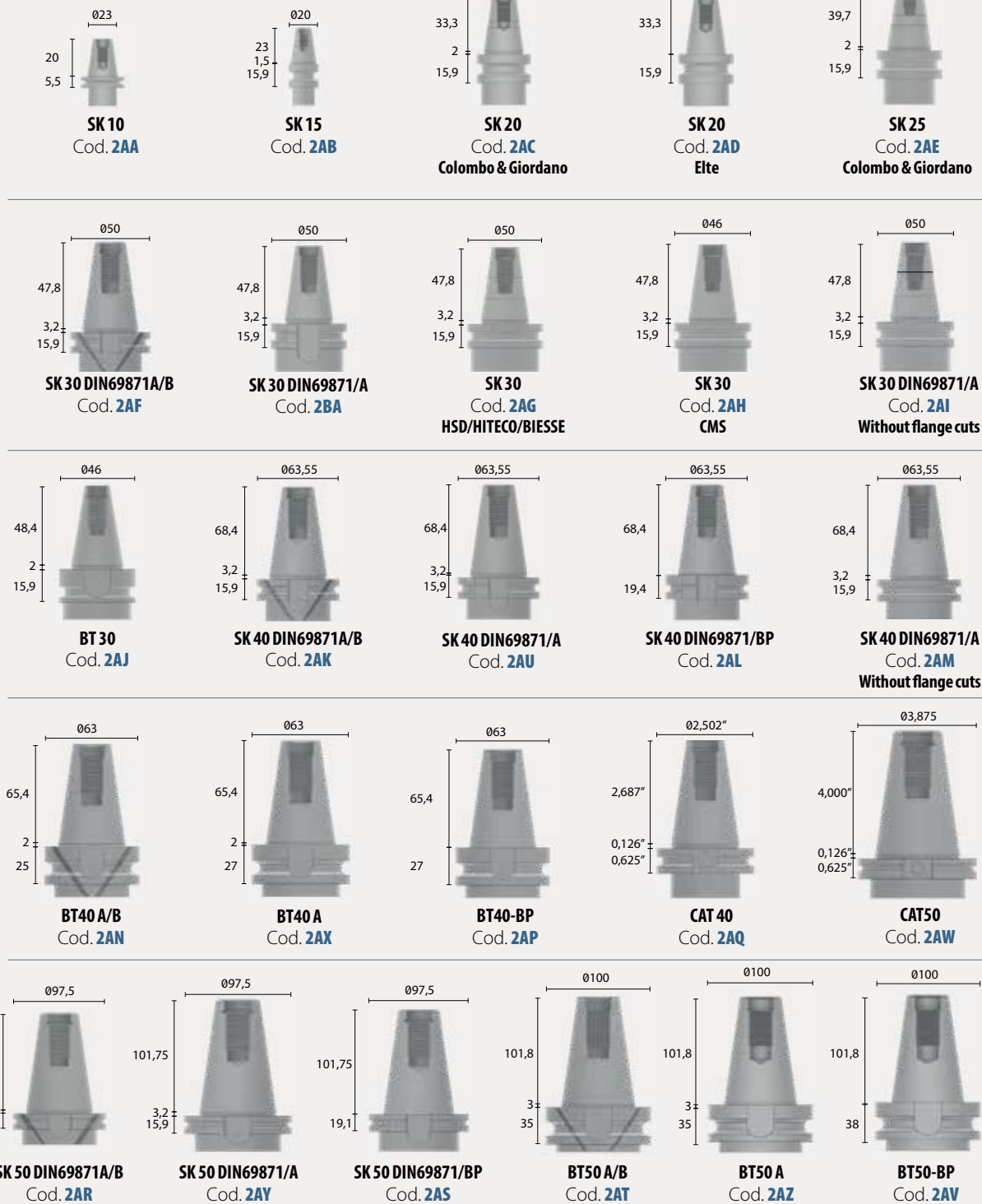
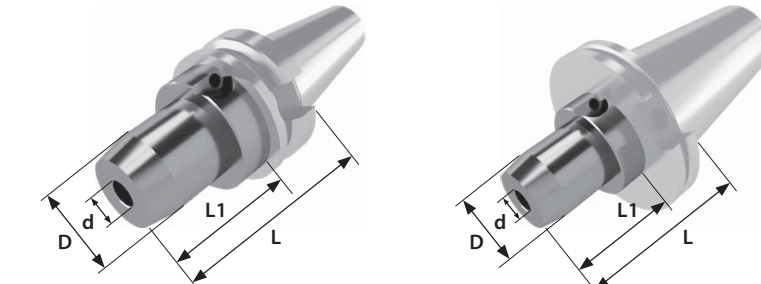
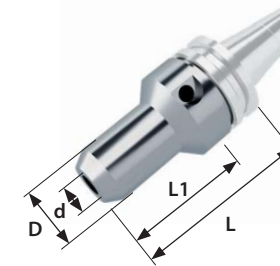
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Hydro Chucks

Ideal for detailing, milling and drilling operations. Hydro chucks combine the best of all high range clamping systems, providing exceptional concentricity features and ease of set up.



| Part code | Description | D  | d  | L   | L1   | Connection                        | Balancing (RPM) |
|-----------|-------------|----|----|-----|------|-----------------------------------|-----------------|
| KM00      | hydro chuck | 30 | 10 | 95  | 75,9 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KM00      | hydro chuck | 30 | 10 | 95  | 75,9 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM01      | hydro chuck | 30 | 10 | 95  | 75   | BT 30                             | 15.000          |
| KM00      | hydro chuck | 30 | 10 | 95  | 75,9 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KM00      | hydro chuck | 30 | 10 | 95  | 75,9 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM00      | hydro chuck | 30 | 10 | 95  | 75,9 | SK 40 DIN 69871/A-A/BP            | 15.000          |
| KM02      | hydro chuck | 30 | 10 | 95  | 68   | BT 40/A-A/B                       | 15.000          |
| KM02      | hydro chuck | 30 | 10 | 95  | 68   | BT 40/BP                          | 15.000          |
| KM00      | hydro chuck | 30 | 10 | 95  | 75,9 | CAT 40                            | 15.000          |
| KM00      | hydro chuck | 30 | 10 | 95  | 75,9 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KM00      | hydro chuck | 30 | 10 | 95  | 75,9 | SK 50 DIN 69871/A-A/BP            | 12.000          |
| KM03      | hydro chuck | 30 | 10 | 95  | 57   | BT 50/A-A/B                       | 12.000          |
| KM03      | hydro chuck | 30 | 10 | 95  | 57   | BT 50/BP                          | 12.000          |
| KM00      | hydro chuck | 30 | 10 | 95  | 75,9 | CAT 50                            | 12.000          |
| KM04      | hydro chuck | 32 | 12 | 95  | 75,9 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KM04      | hydro chuck | 32 | 12 | 95  | 75,9 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM05      | hydro chuck | 32 | 12 | 95  | 75   | BT 30                             | 15.000          |
| KM04      | hydro chuck | 32 | 12 | 95  | 75,9 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KM04      | hydro chuck | 32 | 12 | 95  | 75,9 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM04      | hydro chuck | 32 | 12 | 95  | 75,9 | SK 40 DIN 69871/A-A/BP            | 15.000          |
| KM06      | hydro chuck | 32 | 12 | 95  | 68   | BT 40/A-A/B                       | 15.000          |
| KM06      | hydro chuck | 32 | 12 | 95  | 68   | BT 40/BP                          | 15.000          |
| KM04      | hydro chuck | 32 | 12 | 95  | 75,9 | CAT 40                            | 15.000          |
| KM04      | hydro chuck | 32 | 12 | 95  | 75,9 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KM04      | hydro chuck | 32 | 12 | 95  | 75,9 | SK 50 DIN 69871/A-A/BP            | 12.000          |
| KM07      | hydro chuck | 32 | 12 | 95  | 57   | BT 50/A-A/B                       | 12.000          |
| KM07      | hydro chuck | 32 | 12 | 95  | 57   | BT 50/BP                          | 12.000          |
| KM04      | hydro chuck | 32 | 12 | 95  | 75,9 | CAT 50                            | 12.000          |
| KM08      | hydro chuck | 42 | 16 | 100 | 80,9 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KM08      | hydro chuck | 42 | 16 | 100 | 80,9 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM09      | hydro chuck | 42 | 16 | 100 | 80   | BT 30                             | 15.000          |
| KM08      | hydro chuck | 42 | 16 | 100 | 80,9 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KM08      | hydro chuck | 42 | 16 | 100 | 80,9 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |

| Part code | Description | D  | d  | L   | L1   | Connection                        | Balancing (RPM) |
|-----------|-------------|----|----|-----|------|-----------------------------------|-----------------|
| KM08      | hydro chuck | 42 | 16 | 100 | 80,9 | SK 40 DIN 69871/A-A/BP            | 15.000          |
| KM10      | hydro chuck | 42 | 16 | 100 | 78   | BT 40/A-A/B                       | 15.000          |
| KM10      | hydro chuck | 42 | 16 | 100 | 78   | BT 40/BP                          | 15.000          |
| KM08      | hydro chuck | 42 | 16 | 100 | 80,9 | CAT 40                            | 15.000          |
| KM08      | hydro chuck | 42 | 16 | 100 | 80,9 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KM08      | hydro chuck | 42 | 16 | 100 | 80,9 | SK 50 DIN 69871/A-A/BP            | 12.000          |
| KM11      | hydro chuck | 42 | 16 | 100 | 62   | BT 50/A-A/B                       | 12.000          |
| KM11      | hydro chuck | 42 | 16 | 100 | 62   | BT 50/BP                          | 12.000          |
| KM08      | hydro chuck | 42 | 16 | 100 | 80,9 | CAT 50                            | 12.000          |
| KM12      | hydro chuck | 42 | 20 | 100 | 80,9 | SK 30 DIN 69871/A-A/B             | 15.000          |
| KM12      | hydro chuck | 42 | 20 | 100 | 80,9 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM14      | hydro chuck | 42 | 20 | 100 | 80   | BT 30                             | 15.000          |
| KM12      | hydro chuck | 42 | 20 | 100 | 80,9 | SK 40 DIN 69871/A-A/B             | 15.000          |
| KM12      | hydro chuck | 42 | 20 | 100 | 80,9 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM12      | hydro chuck | 42 | 20 | 100 | 80,9 | SK 40 DIN 69871/A-A/BP            | 15.000          |
| KM15      | hydro chuck | 42 | 20 | 100 | 78   | BT 40/A-A/B                       | 15.000          |
| KM15      | hydro chuck | 42 | 20 | 100 | 78   | BT 40/BP                          | 15.000          |
| KM12      | hydro chuck | 42 | 20 | 100 | 80,9 | CAT 40                            | 15.000          |
| KM12      | hydro chuck | 42 | 20 | 100 | 80,9 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KM12      | hydro chuck | 42 | 20 | 100 | 80,9 | SK 50 DIN 69871/A-A/BP            | 12.000          |
| KM13      | hydro chuck | 42 | 20 | 100 | 62   | BT 50/A-A/B                       | 12.000          |
| KM13      | hydro chuck | 42 | 20 | 100 | 62   | BT 50/BP                          | 12.000          |
| KM12      | hydro chuck | 42 | 20 | 100 | 80,9 | CAT 50                            | 12.000          |
| KM16      | hydro chuck | 52 | 25 | 110 | 90,9 | SK 40 DIN 69871/A-A/B             | 15.000          |

MANUFACTURING MATERIAL

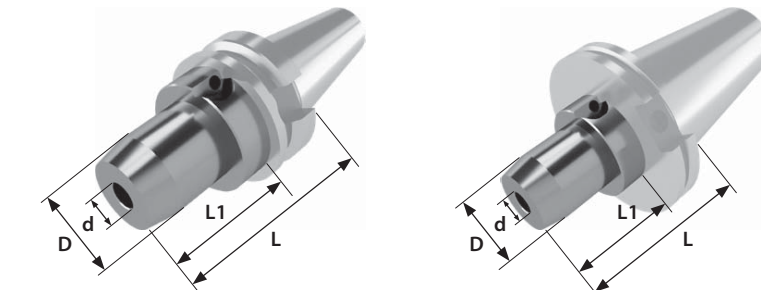
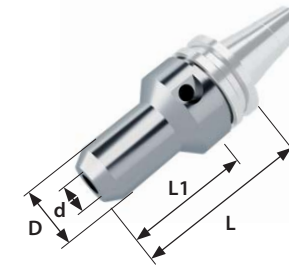
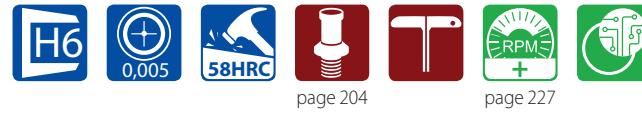


## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Hydro Chucks



| Part code | Description | D  | d    | L   | L1    | Connection                        | Balancing (RPM) |
|-----------|-------------|----|------|-----|-------|-----------------------------------|-----------------|
| KM16      | hydro chuck | 52 | 25   | 110 | 90,9  | SK 40 DIN 69871/A-A/BP            | 15.000          |
| KM17      | hydro chuck | 52 | 25   | 110 | 88    | BT 40/A-A/B                       | 15.000          |
| KM17      | hydro chuck | 52 | 25   | 110 | 88    | BT 40/BP                          | 15.000          |
| KM16      | hydro chuck | 52 | 25   | 110 | 90,9  | CAT 40                            | 15.000          |
| KM18      | hydro chuck | 52 | 25   | 120 | 100,9 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KM18      | hydro chuck | 52 | 25   | 120 | 100,9 | SK 50 DIN 69871/A-A/BP            | 12.000          |
| KM19      | hydro chuck | 52 | 25   | 120 | 82    | BT 50/A-A/B                       | 12.000          |
| KM19      | hydro chuck | 52 | 25   | 120 | 82    | BT 50/BP                          | 12.000          |
| KM18      | hydro chuck | 52 | 25   | 120 | 100,9 | CAT 50                            | 12.000          |
| KM21      | hydro chuck | 60 | 32   | 120 | 62    | SK 50 DIN 69871/A-A/B             | 12.000          |
| KM21      | hydro chuck | 60 | 32   | 120 | 62    | SK 50 DIN 69871/A-A/BP            | 12.000          |
| KM28      | hydro chuck | 60 | 32   | 120 | 80,9  | BT 50/A-A/B                       | 12.000          |
| KM32      | hydro chuck | 60 | 32   | 120 | 90,9  | BT 50/BP                          | 12.000          |
| KM32      | hydro chuck | 60 | 32   | 120 | 90,9  | CAT 50                            | 12.000          |
| KM25      | hydro chuck | 32 | 1/2" | 95  | 75,9  | SK 30 DIN 69871/A-A/B             | 15.000          |
| KM25      | hydro chuck | 32 | 1/2" | 95  | 75,9  | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM24      | hydro chuck | 32 | 1/2" | 95  | 75    | BT 30                             | 15.000          |
| KM25      | hydro chuck | 32 | 1/2" | 95  | 75,9  | SK 40 DIN 69871/A-A/B             | 15.000          |
| KM25      | hydro chuck | 32 | 1/2" | 95  | 75,9  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM25      | hydro chuck | 32 | 1/2" | 95  | 75,9  | SK 40 DIN 69871/A-A/BP            | 15.000          |
| KM23      | hydro chuck | 32 | 1/2" | 95  | 68    | BT 40/A-A/B                       | 15.000          |
| KM23      | hydro chuck | 32 | 1/2" | 95  | 68    | BT 40/BP                          | 15.000          |
| KM25      | hydro chuck | 32 | 1/2" | 95  | 75,9  | CAT 40                            | 15.000          |
| KM25      | hydro chuck | 32 | 1/2" | 95  | 75,9  | SK 50 DIN 69871/A-A/B             | 12.000          |
| KM20      | hydro chuck | 32 | 1/2" | 95  | 57    | BT 50/A-A/B                       | 12.000          |
| KM20      | hydro chuck | 32 | 1/2" | 95  | 57    | BT 50/BP                          | 12.000          |
| KM25      | hydro chuck | 32 | 1/2" | 95  | 75,9  | CAT 50                            | 12.000          |
| KM29      | hydro chuck | 42 | 3/4" | 100 | 80,9  | SK 30 DIN 69871/A-A/B             | 15.000          |
| KM29      | hydro chuck | 42 | 3/4" | 100 | 80,9  | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM27      | hydro chuck | 42 | 3/4" | 100 | 80    | BT 30                             | 15.000          |
| KM29      | hydro chuck | 42 | 3/4" | 100 | 80,9  | SK 40 DIN 69871/A-A/B             | 15.000          |
| KM29      | hydro chuck | 42 | 3/4" | 100 | 80,9  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |

| Part code | Description | D  | d    | L   | L1    | Connection                        | Balancing (RPM) |
|-----------|-------------|----|------|-----|-------|-----------------------------------|-----------------|
| KM29      | hydro chuck | 42 | 3/4" | 100 | 80,9  | SK 40 DIN 69871/A-A/BP            | 15.000          |
| KM26      | hydro chuck | 42 | 3/4" | 100 | 78    | BT 40/A-A/B                       | 15.000          |
| KM26      | hydro chuck | 42 | 3/4" | 100 | 78    | BT 40/BP                          | 15.000          |
| KM29      | hydro chuck | 42 | 3/4" | 100 | 80,9  | CAT 40                            | 15.000          |
| KM29      | hydro chuck | 42 | 3/4" | 100 | 80,9  | SK 50 DIN 69871/A-A/B             | 12.000          |
| KM29      | hydro chuck | 42 | 3/4" | 100 | 80,9  | SK 50 DIN 69871/A-A/BP            | 12.000          |
| KM22      | hydro chuck | 42 | 3/4" | 100 | 62    | BT 50/A-A/B                       | 12.000          |
| KM22      | hydro chuck | 42 | 3/4" | 100 | 62    | BT 50/BP                          | 12.000          |
| KM29      | hydro chuck | 42 | 3/4" | 100 | 80,9  | CAT 50                            | 12.000          |
| KM33      | hydro chuck | 52 | 1"   | 110 | 90,9  | SK 40 DIN 69871/A-A/B             | 15.000          |
| KM33      | hydro chuck | 52 | 1"   | 110 | 90,9  | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KM33      | hydro chuck | 52 | 1"   | 110 | 90,9  | SK 40 DIN 69871/A-A/BP            | 15.000          |
| KM31      | hydro chuck | 52 | 1"   | 110 | 88    | BT 40/A-A/B                       | 15.000          |
| KM31      | hydro chuck | 52 | 1"   | 110 | 88    | BT 40/BP                          | 15.000          |
| KM33      | hydro chuck | 52 | 1"   | 110 | 90,9  | CAT 40                            | 15.000          |
| KM34      | hydro chuck | 52 | 1"   | 120 | 100,9 | SK 50 DIN 69871/A-A/B             | 12.000          |
| KM34      | hydro chuck | 52 | 1"   | 120 | 100,9 | SK 50 DIN 69871/A-A/BP            | 12.000          |
| KM30      | hydro chuck | 52 | 1"   | 120 | 82    | BT 50/A-A/B                       | 12.000          |
| KM30      | hydro chuck | 52 | 1"   | 120 | 82    | BT 50/BP                          | 12.000          |
| KM34      | hydro chuck | 52 | 1"   | 120 | 100,9 | CAT 50                            | 12.000          |

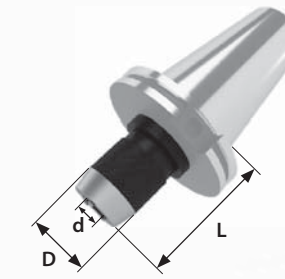
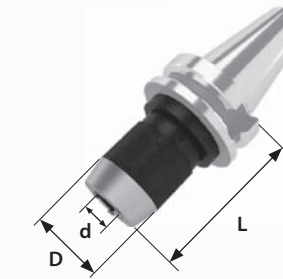
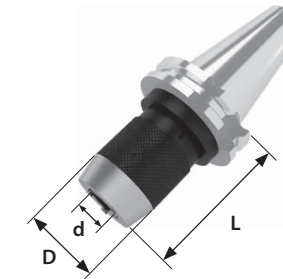
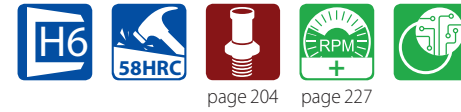
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.

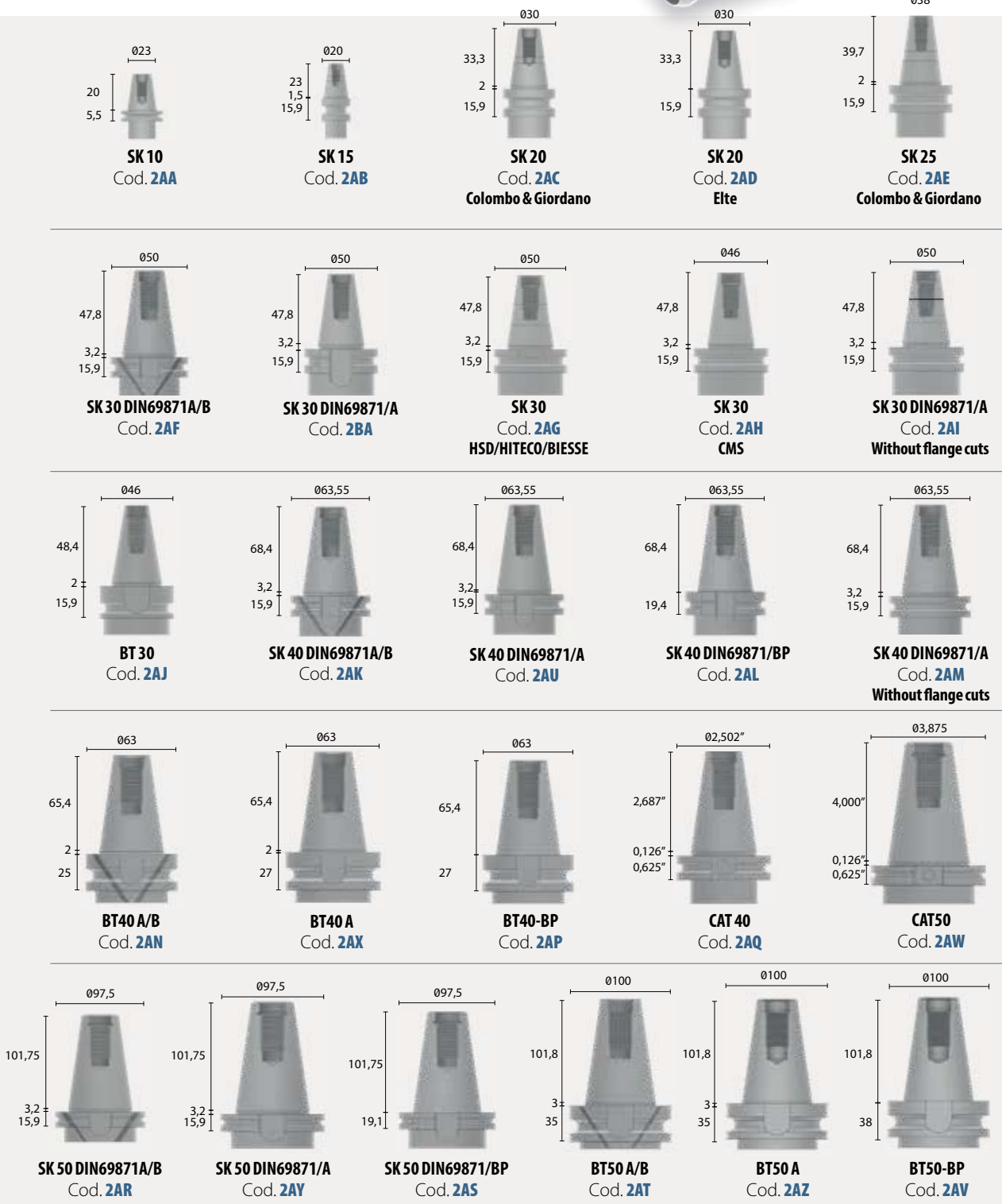


## Drill Chucks

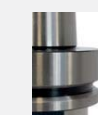
Drill chucks are an effective system for low speed boring, milling and generic cut operations.



| Part code   | Description | d    | D  | L   | Connection        | Balancing (RPM) |
|-------------|-------------|------|----|-----|-------------------|-----------------|
| <b>KQ00</b> | drill chuck | 0÷8  | 35 | 80  | SK 30 DIN 69871/A | 15.000          |
| <b>KQ00</b> | drill chuck | 0÷8  | 35 | 80  | BT 30             | 15.000          |
| <b>KQ01</b> | drill chuck | 0÷10 | 40 | 90  | SK 30 DIN 69871/A | 15.000          |
| <b>KQ01</b> | drill chuck | 0÷10 | 40 | 90  | BT 30             | 15.000          |
| <b>KQ02</b> | drill chuck | 0÷13 | 50 | 95  | SK 40 DIN 69871/A | 15.000          |
| <b>KQ02</b> | drill chuck | 0÷13 | 50 | 95  | BT 40/A           | 15.000          |
| <b>KQ02</b> | drill chuck | 0÷13 | 50 | 95  | CAT 40            | 15.000          |
| <b>KQ03</b> | drill chuck | 0÷13 | 50 | 105 | SK 50 DIN 69871/A | 15.000          |
| <b>KQ03</b> | drill chuck | 0÷13 | 50 | 105 | BT 50/A           | 15.000          |
| <b>KQ03</b> | drill chuck | 0÷13 | 50 | 105 | CAT 50            | 15.000          |
| <b>KQ04</b> | drill chuck | 0÷16 | 57 | 95  | SK 40 DIN 69871/A | 15.000          |
| <b>KQ04</b> | drill chuck | 0÷16 | 57 | 95  | BT 40/A           | 15.000          |
| <b>KQ04</b> | drill chuck | 0÷16 | 57 | 95  | CAT 40            | 15.000          |
| <b>KQ05</b> | drill chuck | 0÷16 | 57 | 105 | SK 50 DIN 69871/A | 15.000          |
| <b>KQ05</b> | drill chuck | 0÷16 | 57 | 105 | BT 50/A           | 15.000          |
| <b>KQ05</b> | drill chuck | 0÷16 | 57 | 105 | CAT 50            | 15.000          |



• MANUFACTURING MATERIAL



STEEL

## Part codes for available SK/BT/CAT CONNECTIONS\*

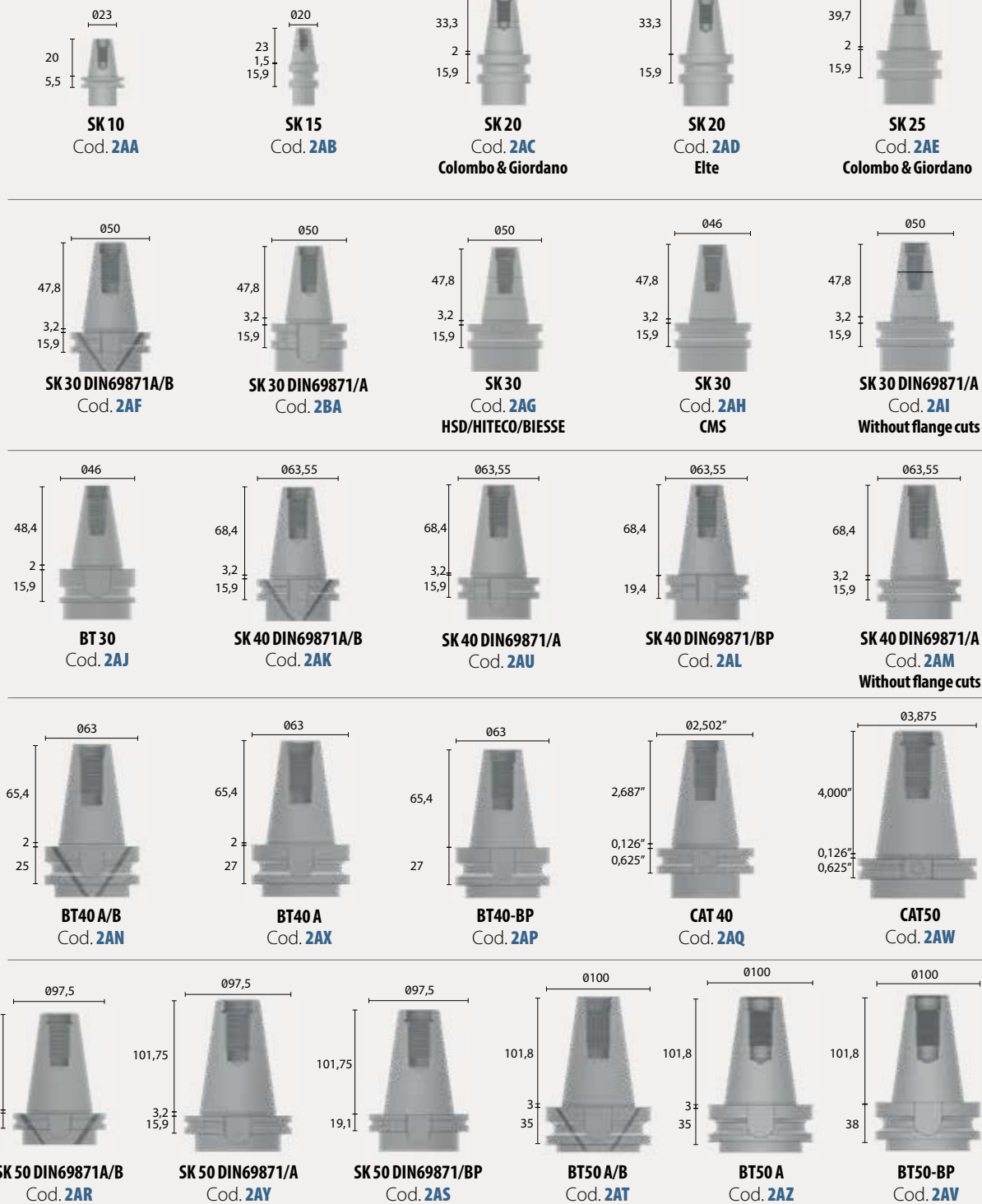
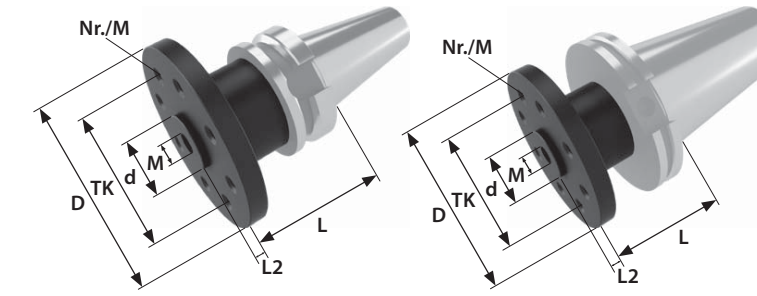
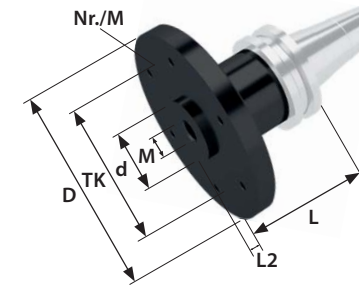
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Saw Blade Holders without Counterflange

Saw Blade Holders are used for circular saws clamping. The tool is locked in place with six screws.



| Part code   | Description                            | D   | d      | L  | L2  | Nr./M    | TK | M   | Connection                        | Balancing (RPM) |
|-------------|--|-----|--------|----|-----|----------|----|-----|-----------------------------------|-----------------|
| <b>KS00</b> | saw blade holder without counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | SK 30 DIN 69871/A                 | 15.000          |
| <b>KS00</b> | saw blade holder without counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS00</b> | saw blade holder without counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | BT 30                             | 15.000          |
| <b>KS00</b> | saw blade holder without counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | SK 40 DIN 69871/A                 | 15.000          |
| <b>KS00</b> | saw blade holder without counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS00</b> | saw blade holder without counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | BT 40/A                           | 15.000          |
| <b>KS00</b> | saw blade holder without counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | CAT 40                            | 15.000          |
| <b>KS01</b> | saw blade holder without counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | SK 30 DIN 69871/A                 | 15.000          |
| <b>KS01</b> | saw blade holder without counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS01</b> | saw blade holder without counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | BT 30                             | 15.000          |
| <b>KS01</b> | saw blade holder without counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | SK 40 DIN 69871/A                 | 15.000          |
| <b>KS01</b> | saw blade holder without counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS01</b> | saw blade holder without counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | BT 40/A                           | 15.000          |
| <b>KS02</b> | saw blade holder without counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | SK 30 DIN 69871/A                 | 15.000          |
| <b>KS02</b> | saw blade holder without counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS02</b> | saw blade holder without counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | BT 30                             | 15.000          |
| <b>KS02</b> | saw blade holder without counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | SK 40 DIN 69871/A                 | 15.000          |
| <b>KS02</b> | saw blade holder without counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS02</b> | saw blade holder without counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | BT 40/A                           | 15.000          |
| <b>KS02</b> | saw blade holder without counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | CAT 40                            | 15.000          |
| <b>KS03</b> | saw blade holder without counterflange | 100 | 32     | 60 | 4   | 8/M6/vts | 75 | M12 | SK 30 DIN 69871/A                 | 15.000          |
| <b>KS03</b> | saw blade holder without counterflange | 100 | 32     | 60 | 4   | 8/M6/vts | 75 | M12 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS03</b> | saw blade holder without counterflange | 100 | 32     | 60 | 4   | 8/M6/vts | 75 | M12 | BT 30                             | 15.000          |

| Part code   | Description                            | D   | d  | L  | L2 | Nr./M    | TK | M   | Connection                        | Balancing (RPM) |
|-------------|--|-----|----|----|----|----------|----|-----|-----------------------------------|-----------------|
| <b>KS03</b> | saw blade holder without counterflange | 100 | 32 | 60 | 4  | 8/M6/vts | 75 | M12 | SK 40 DIN 69871/A                 | 15.000          |
| <b>KS03</b> | saw blade holder without counterflange | 100 | 32 | 60 | 4  | 8/M6/vts | 75 | M12 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS03</b> | saw blade holder without counterflange | 100 | 32 | 60 | 4  | 8/M6/vts | 75 | M12 | BT 40/A                           | 15.000          |
| <b>KS04</b> | saw blade holder without counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | SK 30 DIN 69871/A                 | 15.000          |
| <b>KS04</b> | saw blade holder without counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS04</b> | saw blade holder without counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | BT 30                             | 15.000          |
| <b>KS04</b> | saw blade holder without counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | SK 40 DIN 69871/A                 | 15.000          |
| <b>KS04</b> | saw blade holder without counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS04</b> | saw blade holder without counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | BT 40/A                           | 15.000          |
| <b>KS05</b> | saw blade holder without counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | SK 30 DIN 69871/A                 | 15.000          |
| <b>KS05</b> | saw blade holder without counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS05</b> | saw blade holder without counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | BT 30                             | 15.000          |
| <b>KS05</b> | saw blade holder without counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | SK 40 DIN 69871/A                 | 15.000          |
| <b>KS05</b> | saw blade holder without counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| <b>KS05</b> | saw blade holder without counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | BT 40/A                           | 15.000          |

Screws not included.

MANUFACTURING MATERIAL





## Part codes for available SK/BT/CAT CONNECTIONS\*

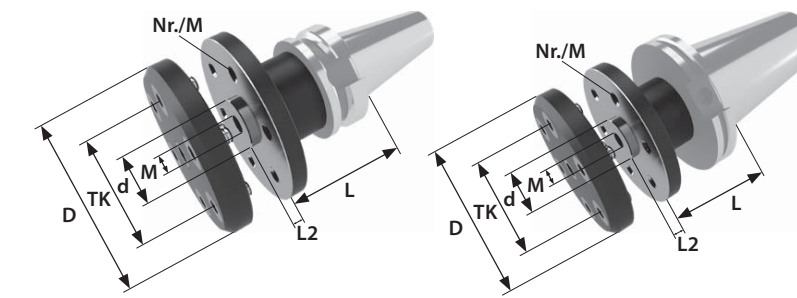
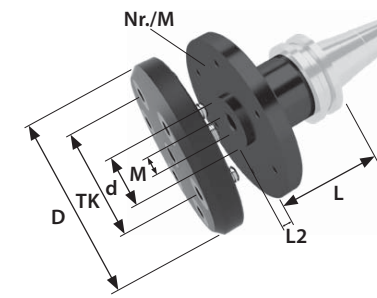
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Saw Blade Holders with Counterflange

Saw Blade Holders are used for circular saws clamping. The tool is locked in place with six screws and with a safety counterflange.



| Part code | Description                         | D   | d      | L  | L2  | Nr./M    | TK | M   | Connection                        | Balancing (RPM) |
|-----------|-------------------------------------|-----|--------|----|-----|----------|----|-----|-----------------------------------|-----------------|
| KR00      | saw blade holder with counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | SK 30 DIN 69871/A                 | 15.000          |
| KR00      | saw blade holder with counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR00      | saw blade holder with counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | BT 30                             | 15.000          |
| KR00      | saw blade holder with counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | SK 40 DIN 69871/A                 | 15.000          |
| KR00      | saw blade holder with counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR00      | saw blade holder with counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | BT 40/A                           | 15.000          |
| KR00      | saw blade holder with counterflange | 80  | 1"     | 60 | 3   | 6/M5/vts | 50 | M10 | CAT 40                            | 15.000          |
| KR01      | saw blade holder with counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | SK 30 DIN 69871/A                 | 15.000          |
| KR01      | saw blade holder with counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR01      | saw blade holder with counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | BT 30                             | 15.000          |
| KR01      | saw blade holder with counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | SK 40 DIN 69871/A                 | 15.000          |
| KR01      | saw blade holder with counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR01      | saw blade holder with counterflange | 90  | 30     | 60 | 2,5 | 6/M5/vts | 60 | M12 | BT 40/A                           | 15.000          |
| KR02      | saw blade holder with counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | SK 30 DIN 69871/A                 | 15.000          |
| KR02      | saw blade holder with counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR02      | saw blade holder with counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | BT 30                             | 15.000          |
| KR02      | saw blade holder with counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | SK 40 DIN 69871/A                 | 15.000          |
| KR02      | saw blade holder with counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR02      | saw blade holder with counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | BT 40/A                           | 15.000          |
| KR02      | saw blade holder with counterflange | 100 | 1-1/4" | 60 | 3   | 6/M5/vts | 75 | M12 | CAT 40                            | 15.000          |
| KR03      | saw blade holder with counterflange | 100 | 32     | 60 | 4   | 8/M6/vts | 75 | M12 | SK 30 DIN 69871/A                 | 15.000          |
| KR03      | saw blade holder with counterflange | 100 | 32     | 60 | 4   | 8/M6/vts | 75 | M12 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR03      | saw blade holder with counterflange | 100 | 32     | 60 | 4   | 8/M6/vts | 75 | M12 | BT 30                             | 15.000          |

| Part code | Description                         | D   | d  | L  | L2 | Nr./M    | TK | M   | Connection                        | Balancing (RPM) |
|-----------|-------------------------------------|-----|----|----|----|----------|----|-----|-----------------------------------|-----------------|
| KR03      | saw blade holder with counterflange | 100 | 32 | 60 | 4  | 8/M6/vts | 75 | M12 | SK 40 DIN 69871/A                 | 15.000          |
| KR03      | saw blade holder with counterflange | 100 | 32 | 60 | 4  | 8/M6/vts | 75 | M12 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR03      | saw blade holder with counterflange | 100 | 32 | 60 | 4  | 8/M6/vts | 75 | M12 | BT 40/A                           | 15.000          |
| KR04      | saw blade holder with counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | SK 30 DIN 69871/A                 | 15.000          |
| KR04      | saw blade holder with counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR04      | saw blade holder with counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | BT 30                             | 15.000          |
| KR04      | saw blade holder with counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | SK 40 DIN 69871/A                 | 15.000          |
| KR04      | saw blade holder with counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR04      | saw blade holder with counterflange | 120 | 40 | 80 | 5  | 8/M8/vts | 80 | M16 | BT 40/A                           | 15.000          |
| KR05      | saw blade holder with counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | SK 30 DIN 69871/A                 | 15.000          |
| KR05      | saw blade holder with counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | SK 30 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR05      | saw blade holder with counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | BT 30                             | 15.000          |
| KR05      | saw blade holder with counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | SK 40 DIN 69871/A                 | 15.000          |
| KR05      | saw blade holder with counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | SK 40 DIN 69871/A W/O FLANGE CUTS | 15.000          |
| KR05      | saw blade holder with counterflange | 130 | 50 | 80 | 5  | 8/M8/vts | 90 | M16 | BT 40/A                           | 15.000          |

When the sawblade holder is used with a counterflange, the tool is locked with a central M12 or M16 screw in addition to the standard M5 or M6 ones. The counterflange is recommended for saws with an external diameter wider than 25cm (10")

Product provided with flat screws and central screw.

● MANUFACTURING MATERIAL



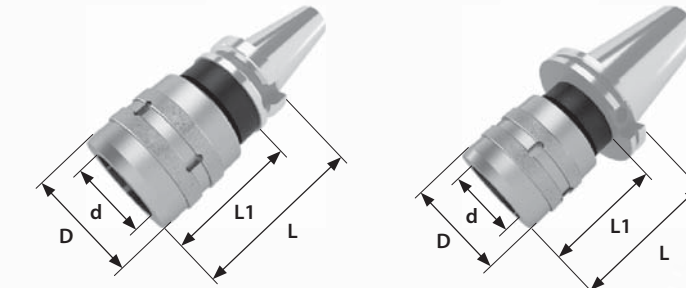
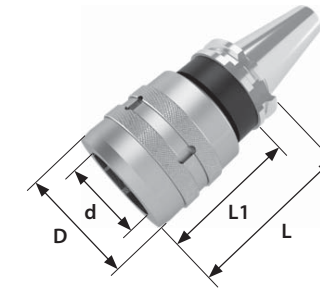
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



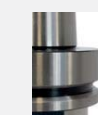
## Milling chucks

The high clamping force, combined with the ease of use, makes milling chucks ideal for generic cut and milling operations.



| Part code   | Description   | D     | d  | L   | L1    | Connection            | Balancing (RPM) |
|-------------|---------------|-------|----|-----|-------|-----------------------|-----------------|
| <b>KT00</b> | milling chuck | 54    | 20 | 95  | 75,9  | SK 30 DIN 69871/A-A/B | 15.000          |
| <b>KT01</b> | milling chuck | 54    | 20 | 95  | 73    | BT 30                 | 15.000          |
| <b>KT02</b> | milling chuck | 64    | 25 | 95  | 75,9  | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KT03</b> | milling chuck | 64    | 25 | 95  | 68    | BT 40/A-A/B           | 15.000          |
| <b>KT04</b> | milling chuck | 74    | 32 | 95  | 75,9  | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KT05</b> | milling chuck | 74    | 32 | 95  | 68    | BT 40/A-A/B           | 15.000          |
| <b>KT06</b> | milling chuck | 74    | 32 | 105 | 85,9  | SK 50 DIN 69871/A-A/B | 15.000          |
| <b>KT07</b> | milling chuck | 74    | 32 | 105 | 67    | BT 50/A-A/B           | 15.000          |
| <b>KT08</b> | milling chuck | 2.91" | 32 | 4"  | 3.25" | CAT 40                | 15.000          |
| <b>KT08</b> | milling chuck | 2.91" | 32 | 4"  | 3.25" | CAT 50                | 15.000          |

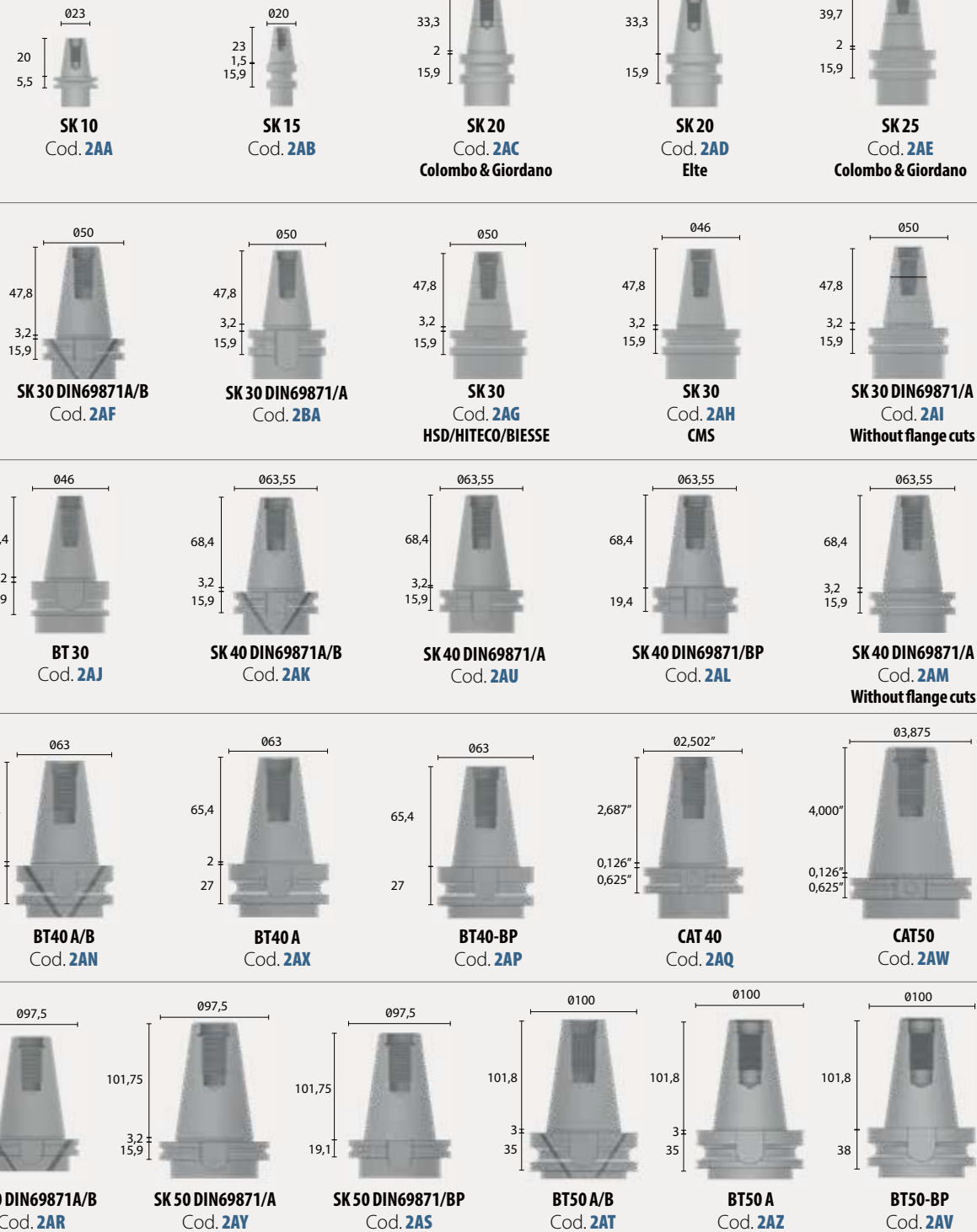
MANUFACTURING MATERIAL



STEEL

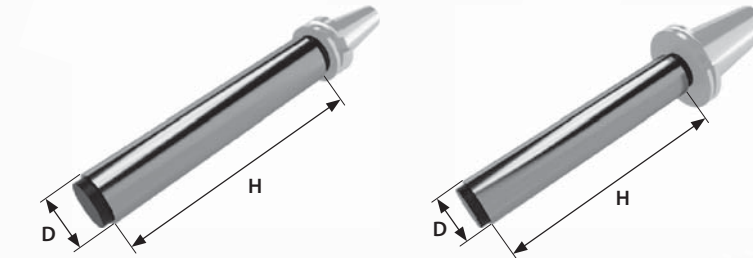
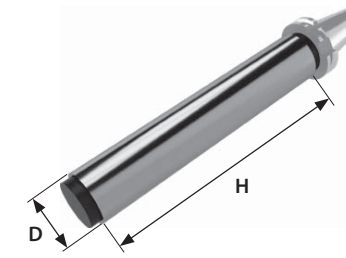
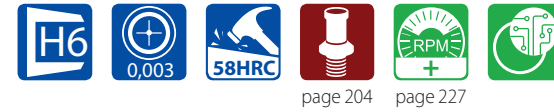
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



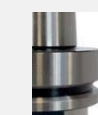
## Test Bars

Test bars provide the maximum precision when performing centering inspections on the electrospindle.



| Part code | Description | D  | H   | Connection                             |
|-----------|-------------|----|-----|--|
| KU00      | test bar    | 10 | 100 | SK 10                                  |
| KU01      | test bar    | 15 | 100 | SK 15                                  |
| KU02      | test bar    | 20 | 100 | SK 20 G&C - SK 20 ELTE                 |
| KU03      | test bar    | 25 | 150 | SK 25 G&C                              |
| KU04      | test bar    | 30 | 200 | SK 30 DIN 69871/A - BT 30              |
| KU05      | test bar    | 30 | 300 | SK 30 DIN 69871/A - BT 30              |
| KU06      | test bar    | 40 | 200 | SK 40 DIN 69871/A - SK 40 DIN 69871/BP |
| KU07      | test bar    | 40 | 300 | SK 40 DIN 69871/A - SK 40 DIN 69871/BP |
| KU06      | test bar    | 40 | 200 | BT 40/A - BT 40/BP - CAT 40            |
| KU07      | test bar    | 40 | 300 | BT 40/A - BT 40/BP - CAT 40            |
| KU08      | test bar    | 50 | 200 | SK 50 DIN 69871/A - SK 50 DIN 69871/BP |
| KU09      | test bar    | 50 | 300 | SK 50 DIN 69871/A - SK 50 DIN 69871/BP |
| KU08      | test bar    | 50 | 200 | BT 50/A - BT 50/BP - CAT 50            |
| KU09      | test bar    | 50 | 300 | BT 50/A - BT 50/BP - CAT 50            |

MANUFACTURING MATERIAL



STEEL

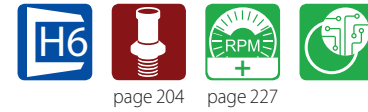
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.

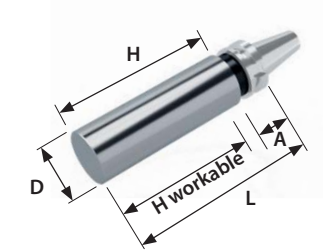
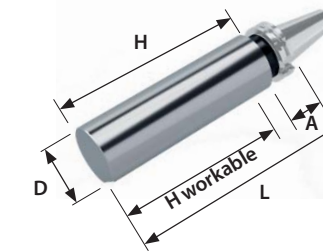
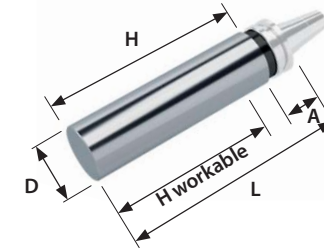


## Blank Bars

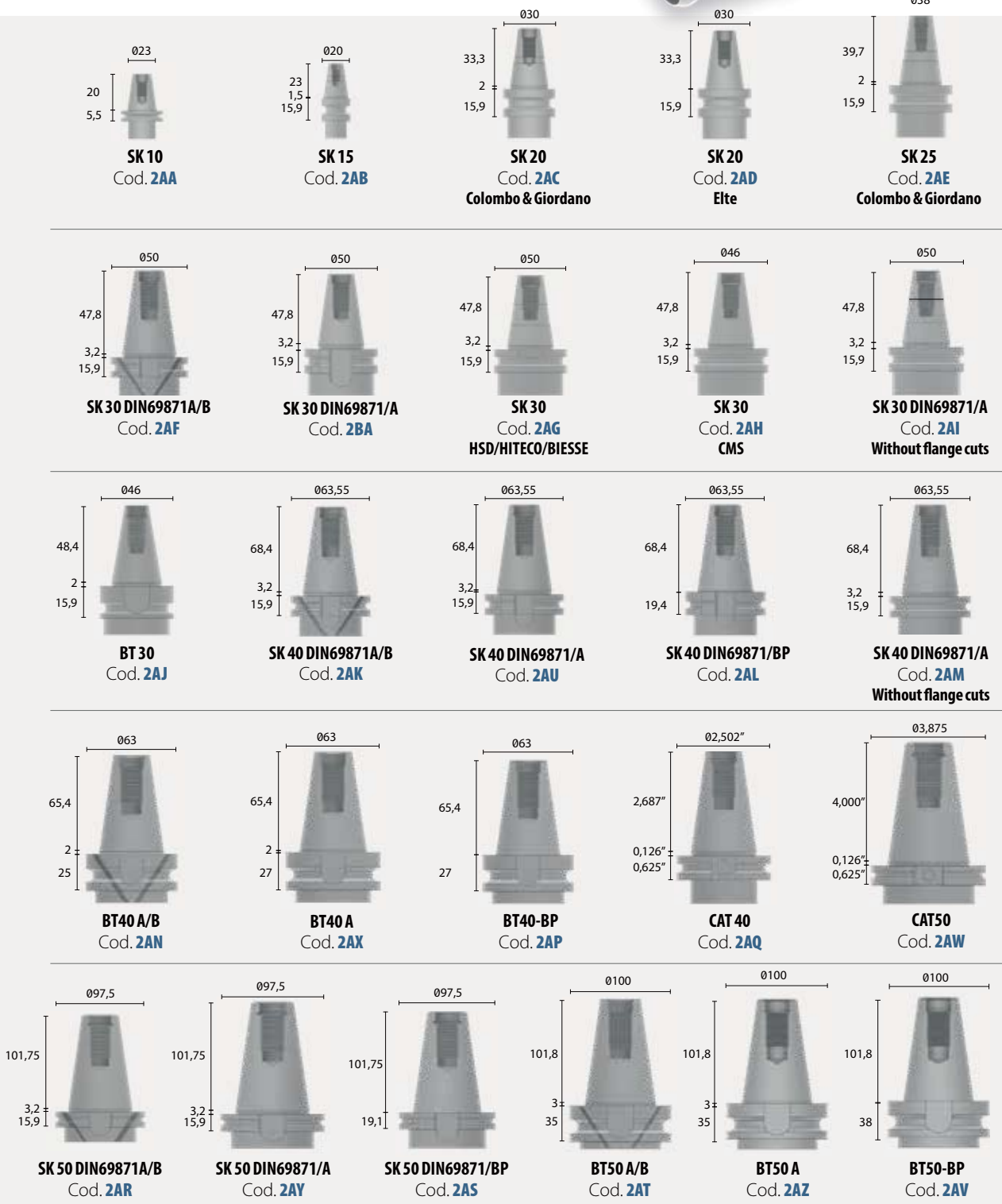
Tool holders with finished machine connection and untempered bodies, for the manufacturing of mono-block tools.



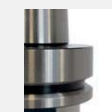
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| Part code   | Description | D    | A  | H workable | H   | L   | Connection                        |
|-------------|-------------|------|----|------------|-----|-----|-----------------------------------|
| <b>KV00</b> | blank bars  | 50   | 35 | 175        | 200 | 235 | SK 30 DIN 69871/A                 |
| <b>KV00</b> | blank bars  | 50   | 35 | 175        | 200 | 235 | SK 30 DIN 69871/A W/O FLANGE CUTS |
| <b>KV01</b> | blank bars  | 46   | 22 | 270        | 300 | 322 | BT 30                             |
| <b>KV02</b> | blank bars  | 63   | 35 | 175        | 200 | 235 | SK 40 DIN 69871/A                 |
| <b>KV02</b> | blank bars  | 63   | 35 | 175        | 200 | 235 | SK 40 DIN 69871/A W/O FLANGE CUTS |
| <b>KV02</b> | blank bars  | 63   | 27 | 170        | 200 | 227 | BT 40 A                           |
| <b>KV02</b> | blank bars  | 63   | 35 | 175        | 200 | 235 | CAT 40                            |
| <b>KV03</b> | blank bars  | 97,5 | 35 | 275        | 300 | 335 | SK 50 DIN 69871/A                 |
| <b>KV04</b> | blank bars  | 100  | 38 | 255        | 300 | 338 | BT 50 A                           |
| <b>KV05</b> | blank bars  | 97   | 35 | 275        | 300 | 335 | CAT 50                            |



MANUFACTURING MATERIAL



STEEL

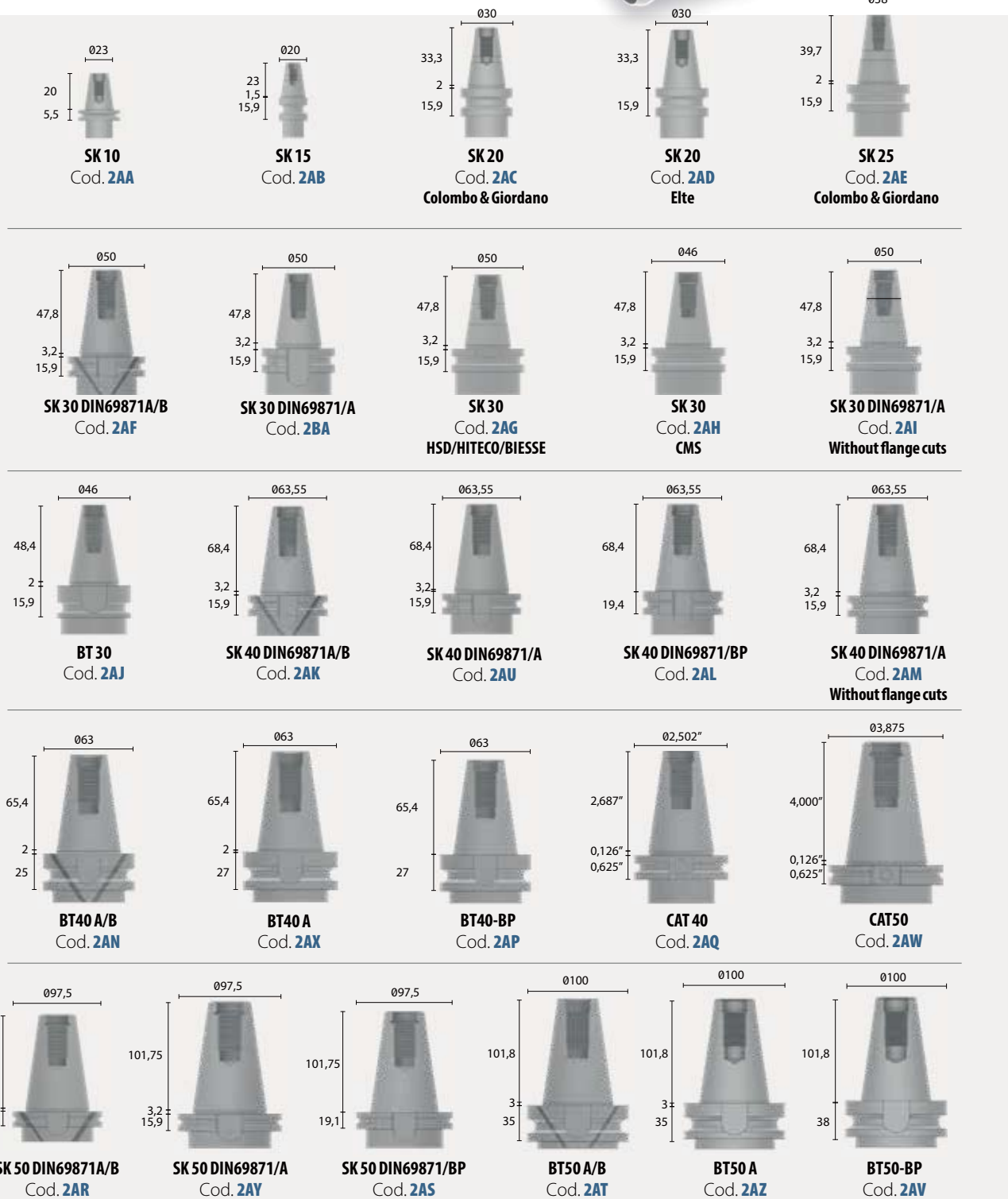
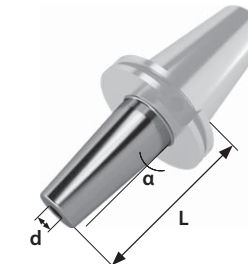
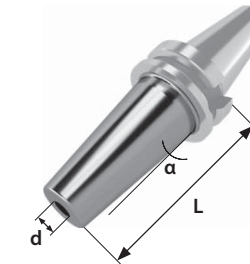
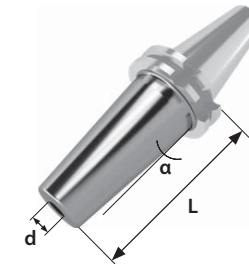
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Shrink Fit Tool Holders

With run out specs up to ten times better than the collet chucks, the Shrink Fit Tool Holders are the most precise and the most reliable holding systems for high speed operations.



| Part code | Description            | d  | L  | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|----|-----------|-----------------------------------|-----------------|
| L000      | shrink fit tool holder | 3  | 75 | 4°30'     | SK 20 G&C - SK 20 ELTE            | 50.000          |
| L000      | shrink fit tool holder | 3  | 75 | 4°30'     | SK 25 G&C                         | 50.000          |
| L001      | shrink fit tool holder | 4  | 75 | 4°30'     | SK 20 G&C - SK 20 ELTE            | 50.000          |
| L001      | shrink fit tool holder | 4  | 75 | 4°30'     | SK 25 G&C                         | 50.000          |
| L001      | shrink fit tool holder | 4  | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L001      | shrink fit tool holder | 4  | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L001      | shrink fit tool holder | 4  | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L001      | shrink fit tool holder | 4  | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L001      | shrink fit tool holder | 4  | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L001      | shrink fit tool holder | 4  | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L002      | shrink fit tool holder | 6  | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L002      | shrink fit tool holder | 6  | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L002      | shrink fit tool holder | 6  | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L002      | shrink fit tool holder | 6  | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L002      | shrink fit tool holder | 6  | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L002      | shrink fit tool holder | 6  | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L003      | shrink fit tool holder | 8  | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L003      | shrink fit tool holder | 8  | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L003      | shrink fit tool holder | 8  | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L003      | shrink fit tool holder | 8  | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L003      | shrink fit tool holder | 8  | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L003      | shrink fit tool holder | 8  | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L004      | shrink fit tool holder | 10 | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L004      | shrink fit tool holder | 10 | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L004      | shrink fit tool holder | 10 | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L004      | shrink fit tool holder | 10 | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L004      | shrink fit tool holder | 10 | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L004      | shrink fit tool holder | 10 | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L005      | shrink fit tool holder | 12 | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L005      | shrink fit tool holder | 12 | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L005      | shrink fit tool holder | 12 | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L005      | shrink fit tool holder | 12 | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L005      | shrink fit tool holder | 12 | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |

| Part code | Description            | d  | L  | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|----|-----------|-----------------------------------|-----------------|
| L005      | shrink fit tool holder | 12 | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L006      | shrink fit tool holder | 14 | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L006      | shrink fit tool holder | 14 | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L006      | shrink fit tool holder | 14 | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L006      | shrink fit tool holder | 14 | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L006      | shrink fit tool holder | 14 | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L006      | shrink fit tool holder | 14 | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L007      | shrink fit tool holder | 16 | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L007      | shrink fit tool holder | 16 | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L007      | shrink fit tool holder | 16 | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L007      | shrink fit tool holder | 16 | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L007      | shrink fit tool holder | 16 | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L007      | shrink fit tool holder | 16 | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L008      | shrink fit tool holder | 20 | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L008      | shrink fit tool holder | 20 | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L008      | shrink fit tool holder | 20 | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L008      | shrink fit tool holder | 20 | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L008      | shrink fit tool holder | 20 | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L008      | shrink fit tool holder | 20 | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L009      | shrink fit tool holder | 25 | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L009      | shrink fit tool holder | 25 | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L009      | shrink fit tool holder | 25 | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L009      | shrink fit tool holder | 25 | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L010      | shrink fit tool holder | 32 | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L010      | shrink fit tool holder | 32 | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |

MANUFACTURING MATERIAL

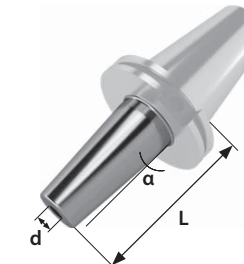
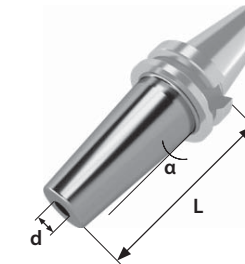
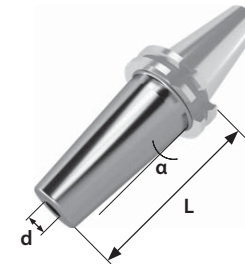


## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Shrink Fit Tool Holders



| Part code | Description            | d    | L  | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|------|----|-----------|-----------------------------------|-----------------|
| L010      | shrink fit tool holder | 32   | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L010      | shrink fit tool holder | 32   | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L011      | shrink fit tool holder | 1/4" | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L011      | shrink fit tool holder | 1/4" | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L011      | shrink fit tool holder | 1/4" | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L011      | shrink fit tool holder | 1/4" | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L011      | shrink fit tool holder | 1/4" | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L011      | shrink fit tool holder | 1/4" | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L012      | shrink fit tool holder | 3/8" | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L012      | shrink fit tool holder | 3/8" | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L012      | shrink fit tool holder | 3/8" | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L012      | shrink fit tool holder | 3/8" | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L012      | shrink fit tool holder | 3/8" | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L012      | shrink fit tool holder | 3/8" | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L013      | shrink fit tool holder | 1/2" | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L013      | shrink fit tool holder | 1/2" | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L013      | shrink fit tool holder | 1/2" | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L013      | shrink fit tool holder | 1/2" | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L013      | shrink fit tool holder | 1/2" | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L013      | shrink fit tool holder | 1/2" | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L014      | shrink fit tool holder | 5/8" | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L014      | shrink fit tool holder | 5/8" | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L014      | shrink fit tool holder | 5/8" | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L014      | shrink fit tool holder | 5/8" | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L014      | shrink fit tool holder | 5/8" | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L014      | shrink fit tool holder | 5/8" | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L015      | shrink fit tool holder | 3/4" | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L015      | shrink fit tool holder | 3/4" | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L015      | shrink fit tool holder | 3/4" | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L015      | shrink fit tool holder | 3/4" | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L015      | shrink fit tool holder | 3/4" | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L015      | shrink fit tool holder | 3/4" | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L016      | shrink fit tool holder | 1"   | 75 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |

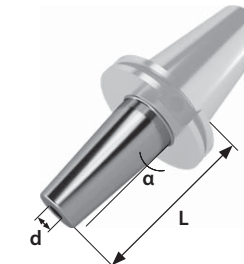
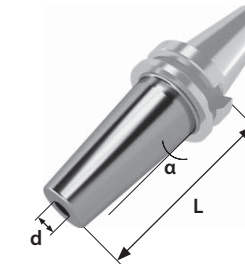
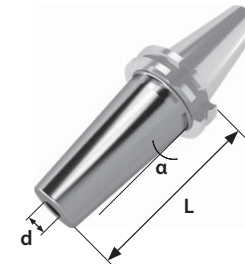
| Part code | Description            | d  | L  | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|----|-----------|-----------------------------------|-----------------|
| L016      | shrink fit tool holder | 1" | 75 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L016      | shrink fit tool holder | 1" | 75 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L016      | shrink fit tool holder | 1" | 75 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L016      | shrink fit tool holder | 1" | 75 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L016      | shrink fit tool holder | 1" | 75 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L017      | shrink fit tool holder | 4  | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L017      | shrink fit tool holder | 4  | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L017      | shrink fit tool holder | 4  | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L017      | shrink fit tool holder | 4  | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L017      | shrink fit tool holder | 4  | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L017      | shrink fit tool holder | 4  | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L017      | shrink fit tool holder | 4  | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L017      | shrink fit tool holder | 4  | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L017      | shrink fit tool holder | 4  | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L018      | shrink fit tool holder | 6  | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L018      | shrink fit tool holder | 6  | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L018      | shrink fit tool holder | 6  | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L018      | shrink fit tool holder | 6  | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L018      | shrink fit tool holder | 6  | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L018      | shrink fit tool holder | 6  | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L018      | shrink fit tool holder | 6  | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L018      | shrink fit tool holder | 6  | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L018      | shrink fit tool holder | 6  | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L019      | shrink fit tool holder | 8  | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L019      | shrink fit tool holder | 8  | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L019      | shrink fit tool holder | 8  | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L019      | shrink fit tool holder | 8  | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L019      | shrink fit tool holder | 8  | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L019      | shrink fit tool holder | 8  | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L019      | shrink fit tool holder | 8  | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L019      | shrink fit tool holder | 8  | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L019      | shrink fit tool holder | 8  | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L020      | shrink fit tool holder | 10 | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Shrink Fit Tool Holders



| Part code | Description            | d  | L  | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|----|-----------|-----------------------------------|-----------------|
| L020      | shrink fit tool holder | 10 | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L020      | shrink fit tool holder | 10 | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L020      | shrink fit tool holder | 10 | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L020      | shrink fit tool holder | 10 | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L020      | shrink fit tool holder | 10 | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L020      | shrink fit tool holder | 10 | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L020      | shrink fit tool holder | 10 | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L020      | shrink fit tool holder | 10 | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L021      | shrink fit tool holder | 12 | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L021      | shrink fit tool holder | 12 | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L021      | shrink fit tool holder | 12 | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L021      | shrink fit tool holder | 12 | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L021      | shrink fit tool holder | 12 | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L021      | shrink fit tool holder | 12 | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L021      | shrink fit tool holder | 12 | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L021      | shrink fit tool holder | 12 | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L022      | shrink fit tool holder | 14 | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L022      | shrink fit tool holder | 14 | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L022      | shrink fit tool holder | 14 | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L022      | shrink fit tool holder | 14 | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L022      | shrink fit tool holder | 14 | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L022      | shrink fit tool holder | 14 | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L022      | shrink fit tool holder | 14 | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L022      | shrink fit tool holder | 14 | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L023      | shrink fit tool holder | 16 | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L023      | shrink fit tool holder | 16 | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L023      | shrink fit tool holder | 16 | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L023      | shrink fit tool holder | 16 | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L023      | shrink fit tool holder | 16 | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L023      | shrink fit tool holder | 16 | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L023      | shrink fit tool holder | 16 | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |

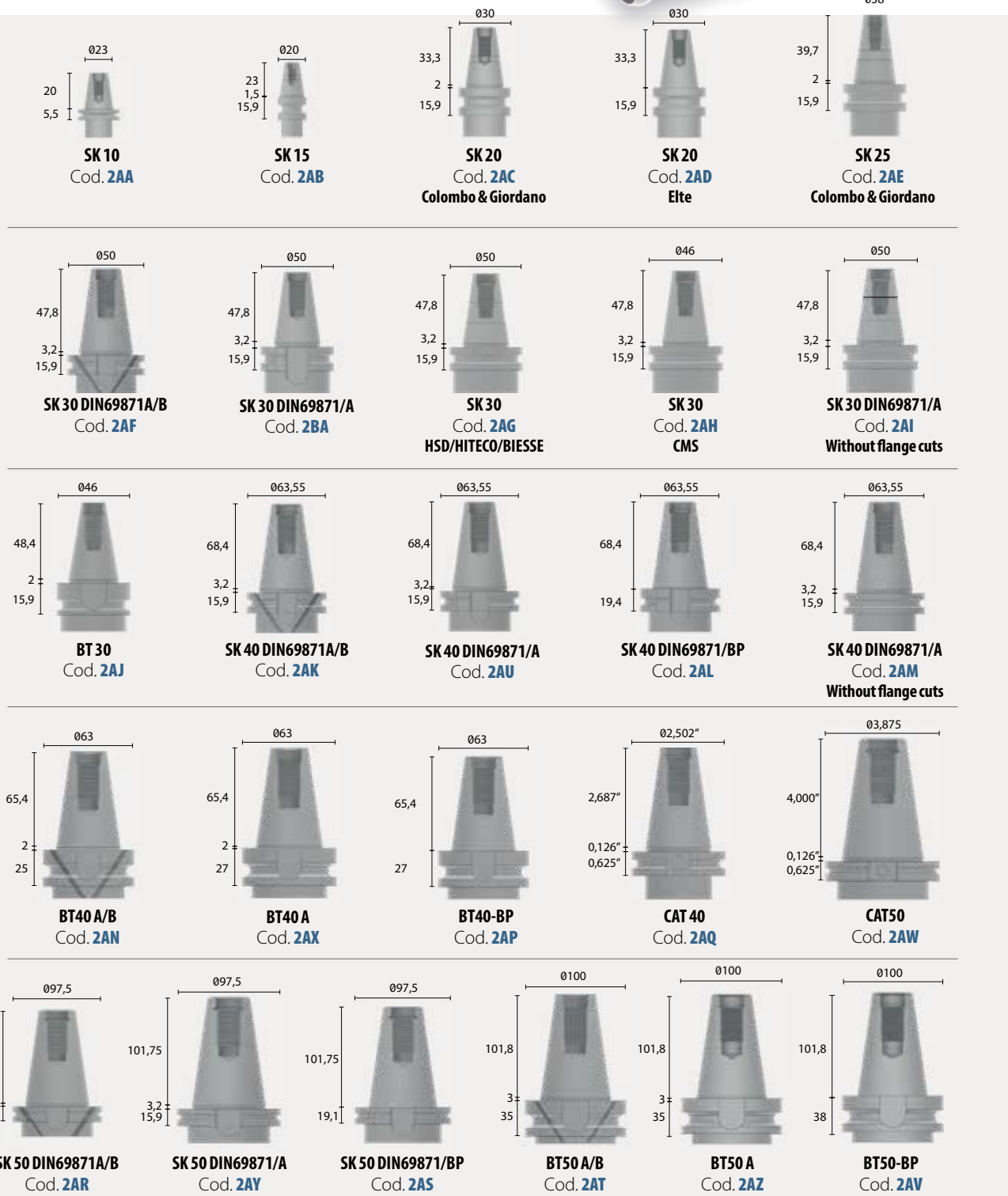
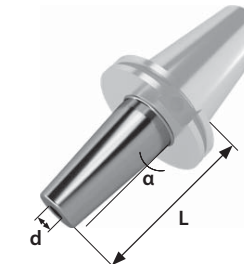
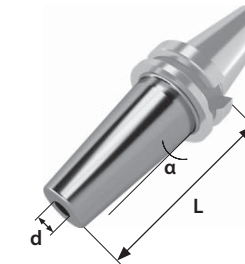
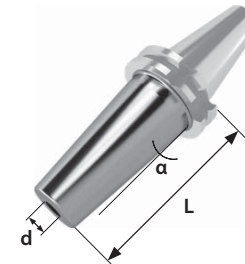
| Part code | Description            | d  | L  | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|----|-----------|-----------------------------------|-----------------|
| L023      | shrink fit tool holder | 16 | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L023      | shrink fit tool holder | 16 | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L024      | shrink fit tool holder | 18 | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L024      | shrink fit tool holder | 18 | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L024      | shrink fit tool holder | 18 | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L024      | shrink fit tool holder | 18 | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L024      | shrink fit tool holder | 18 | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L024      | shrink fit tool holder | 18 | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L024      | shrink fit tool holder | 18 | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L024      | shrink fit tool holder | 18 | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L024      | shrink fit tool holder | 18 | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L025      | shrink fit tool holder | 20 | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L025      | shrink fit tool holder | 20 | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L025      | shrink fit tool holder | 20 | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L025      | shrink fit tool holder | 20 | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L025      | shrink fit tool holder | 20 | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L025      | shrink fit tool holder | 20 | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L025      | shrink fit tool holder | 20 | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L025      | shrink fit tool holder | 20 | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L025      | shrink fit tool holder | 20 | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L026      | shrink fit tool holder | 25 | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L026      | shrink fit tool holder | 25 | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L026      | shrink fit tool holder | 25 | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L026      | shrink fit tool holder | 25 | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L026      | shrink fit tool holder | 25 | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L026      | shrink fit tool holder | 25 | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L026      | shrink fit tool holder | 25 | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L027      | shrink fit tool holder | 32 | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L027      | shrink fit tool holder | 32 | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L027      | shrink fit tool holder | 32 | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L027      | shrink fit tool holder | 32 | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L027      | shrink fit tool holder | 32 | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L027      | shrink fit tool holder | 32 | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Shrink Fit Tool Holders



| Part code | Description            | d    | L  | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|------|----|-----------|-----------------------------------|-----------------|
| L027      | shrink fit tool holder | 3/2" | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L028      | shrink fit tool holder | 1/4" | 90 | 4°30'     | CAT 50                            | 24.000          |
| L029      | shrink fit tool holder | 3/8" | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L029      | shrink fit tool holder | 3/8" | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L029      | shrink fit tool holder | 3/8" | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L029      | shrink fit tool holder | 3/8" | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L029      | shrink fit tool holder | 3/8" | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L029      | shrink fit tool holder | 3/8" | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L029      | shrink fit tool holder | 3/8" | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L029      | shrink fit tool holder | 3/8" | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L029      | shrink fit tool holder | 3/8" | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L030      | shrink fit tool holder | 1/2" | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L030      | shrink fit tool holder | 1/2" | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L030      | shrink fit tool holder | 1/2" | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L030      | shrink fit tool holder | 1/2" | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L030      | shrink fit tool holder | 1/2" | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L030      | shrink fit tool holder | 1/2" | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L030      | shrink fit tool holder | 1/2" | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L030      | shrink fit tool holder | 1/2" | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L030      | shrink fit tool holder | 1/2" | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L031      | shrink fit tool holder | 5/8" | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L031      | shrink fit tool holder | 5/8" | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L031      | shrink fit tool holder | 5/8" | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L031      | shrink fit tool holder | 5/8" | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |

| Part code | Description            | d      | L  | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|--------|----|-----------|-----------------------------------|-----------------|
| L031      | shrink fit tool holder | 5/8"   | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L031      | shrink fit tool holder | 5/8"   | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L031      | shrink fit tool holder | 5/8"   | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L031      | shrink fit tool holder | 5/8"   | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L031      | shrink fit tool holder | 5/8"   | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L032      | shrink fit tool holder | 3/4"   | 90 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| L032      | shrink fit tool holder | 3/4"   | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L032      | shrink fit tool holder | 3/4"   | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L032      | shrink fit tool holder | 3/4"   | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L032      | shrink fit tool holder | 3/4"   | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L032      | shrink fit tool holder | 3/4"   | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L032      | shrink fit tool holder | 3/4"   | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L032      | shrink fit tool holder | 3/4"   | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L032      | shrink fit tool holder | 3/4"   | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L033      | shrink fit tool holder | 1"     | 90 | 4°30'     | SK 30 DIN 69871/A-A/B             | 24.000          |
| L033      | shrink fit tool holder | 1"     | 90 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L033      | shrink fit tool holder | 1"     | 90 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| L033      | shrink fit tool holder | 1"     | 90 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| L033      | shrink fit tool holder | 1"     | 90 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| L033      | shrink fit tool holder | 1"     | 90 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| L033      | shrink fit tool holder | 1"     | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L033      | shrink fit tool holder | 1"     | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L033      | shrink fit tool holder | 1"     | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| L034      | shrink fit tool holder | 1-1/2" | 90 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| L034      | shrink fit tool holder | 1-1/2" | 90 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| L034      | shrink fit tool holder | 1-1/2" | 90 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |



## Part codes for available SK/BT/CAT CONNECTIONS\*

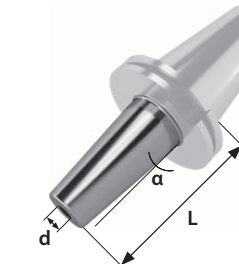
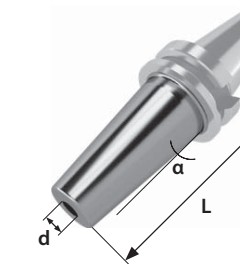
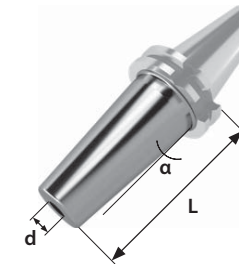
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Shrink Fit Tool Holders - Extended version

With run out specs up to ten times better than the collet chucks, the Shrink Fit Tool Holders are the most precise and the most reliable holding systems for high speed operations.



| Part code | Description            | d  | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|-----|-----------|-----------------------------------|-----------------|
| M000      | shrink fit tool holder | 4  | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M000      | shrink fit tool holder | 4  | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M000      | shrink fit tool holder | 4  | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M000      | shrink fit tool holder | 4  | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M000      | shrink fit tool holder | 4  | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M000      | shrink fit tool holder | 4  | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M000      | shrink fit tool holder | 4  | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M000      | shrink fit tool holder | 4  | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M000      | shrink fit tool holder | 4  | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M001      | shrink fit tool holder | 6  | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M001      | shrink fit tool holder | 6  | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M001      | shrink fit tool holder | 6  | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M001      | shrink fit tool holder | 6  | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M001      | shrink fit tool holder | 6  | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M001      | shrink fit tool holder | 6  | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M001      | shrink fit tool holder | 6  | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M001      | shrink fit tool holder | 6  | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M001      | shrink fit tool holder | 6  | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M002      | shrink fit tool holder | 8  | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M002      | shrink fit tool holder | 8  | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M002      | shrink fit tool holder | 8  | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M002      | shrink fit tool holder | 8  | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M002      | shrink fit tool holder | 8  | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M002      | shrink fit tool holder | 8  | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M002      | shrink fit tool holder | 8  | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M002      | shrink fit tool holder | 8  | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M002      | shrink fit tool holder | 8  | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M003      | shrink fit tool holder | 10 | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M003      | shrink fit tool holder | 10 | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M003      | shrink fit tool holder | 10 | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M003      | shrink fit tool holder | 10 | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M003      | shrink fit tool holder | 10 | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M003      | shrink fit tool holder | 10 | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |

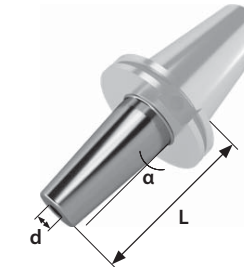
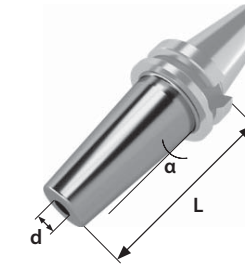
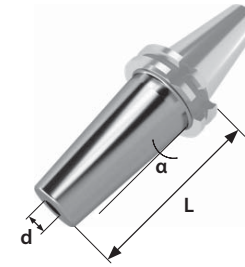
| Part code | Description            | d  | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|-----|-----------|-----------------------------------|-----------------|
| M003      | shrink fit tool holder | 10 | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M003      | shrink fit tool holder | 10 | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M003      | shrink fit tool holder | 10 | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M004      | shrink fit tool holder | 12 | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M004      | shrink fit tool holder | 12 | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M004      | shrink fit tool holder | 12 | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M004      | shrink fit tool holder | 12 | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M004      | shrink fit tool holder | 12 | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M004      | shrink fit tool holder | 12 | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M004      | shrink fit tool holder | 12 | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M004      | shrink fit tool holder | 12 | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M004      | shrink fit tool holder | 12 | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M005      | shrink fit tool holder | 14 | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M005      | shrink fit tool holder | 14 | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M005      | shrink fit tool holder | 14 | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M005      | shrink fit tool holder | 14 | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M005      | shrink fit tool holder | 14 | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M005      | shrink fit tool holder | 14 | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M005      | shrink fit tool holder | 14 | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M005      | shrink fit tool holder | 14 | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M005      | shrink fit tool holder | 14 | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M006      | shrink fit tool holder | 16 | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M006      | shrink fit tool holder | 16 | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M006      | shrink fit tool holder | 16 | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M006      | shrink fit tool holder | 16 | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |


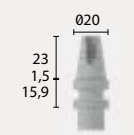







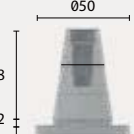



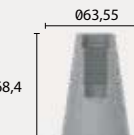


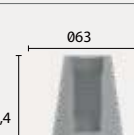
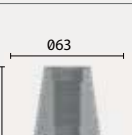

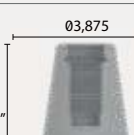

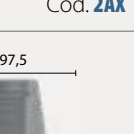




MANUFACTURING MATERIAL



Part codes for available  
SK/BT/CAT CONNECTIONS\*To configure your toolholder you need to choose  
one of the following connections first.

## Shrink Fit Tool Holders - Extended version



|  |  |  |  |   |
|--|--|--|--|---|
| <br>SK 10<br>Cod. 2AA               | <br>SK 15<br>Cod. 2AB               | <br>SK 20<br>Cod. 2AC<br>Colombo & Giordano | <br>SK 20<br>Cod. 2AD<br>Elite      | <br>SK 25<br>Cod. 2AE<br>Colombo & Giordano               |
| <br>SK 30 DIN 69871/B<br>Cod. 2AF   | <br>SK 30 DIN 69871/A<br>Cod. 2BA   | <br>SK 30<br>Cod. 2AG<br>HSD/HITECO/BIESSE  | <br>SK 30<br>Cod. 2AH<br>CMS        | <br>SK 30 DIN 69871/A<br>Cod. 2AI<br>Without flange cuts  |
| <br>BT 30<br>Cod. 2AJ              | <br>SK 40 DIN 69871/B<br>Cod. 2AK  | <br>SK 40 DIN 69871/A<br>Cod. 2AU          | <br>SK 40 DIN 69871/BP<br>Cod. 2AL | <br>SK 40 DIN 69871/A<br>Cod. 2AM<br>Without flange cuts |
| <br>BT 40 A/B<br>Cod. 2AN         | <br>BT 40 A<br>Cod. 2AX           | <br>BT 40-BP<br>Cod. 2AP                  | <br>CAT 40<br>Cod. 2AQ            | <br>CAT 50<br>Cod. 2AW                                  |
| <br>SK 50 DIN 69871/B<br>Cod. 2AR | <br>SK 50 DIN 69871/A<br>Cod. 2AY | <br>SK 50 DIN 69871/BP<br>Cod. 2AS        | <br>BT 50 A/B<br>Cod. 2AT         | <br>BT 50 A<br>Cod. 2AZ                                 |
| <br>BT 50-BP<br>Cod. 2AV        |  |  |  |   |

| Part code | Description            | d  | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|-----|-----------|-----------------------------------|-----------------|
| M006      | shrink fit tool holder | 16 | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M006      | shrink fit tool holder | 16 | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M006      | shrink fit tool holder | 16 | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M006      | shrink fit tool holder | 16 | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M006      | shrink fit tool holder | 16 | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M007      | shrink fit tool holder | 18 | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M007      | shrink fit tool holder | 18 | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M007      | shrink fit tool holder | 18 | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M007      | shrink fit tool holder | 18 | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M007      | shrink fit tool holder | 18 | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M007      | shrink fit tool holder | 18 | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M007      | shrink fit tool holder | 18 | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M007      | shrink fit tool holder | 18 | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M007      | shrink fit tool holder | 18 | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M008      | shrink fit tool holder | 20 | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M008      | shrink fit tool holder | 20 | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M008      | shrink fit tool holder | 20 | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M008      | shrink fit tool holder | 20 | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M008      | shrink fit tool holder | 20 | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M008      | shrink fit tool holder | 20 | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M008      | shrink fit tool holder | 20 | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M008      | shrink fit tool holder | 20 | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M008      | shrink fit tool holder | 20 | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M009      | shrink fit tool holder | 25 | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M009      | shrink fit tool holder | 25 | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M009      | shrink fit tool holder | 25 | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M009      | shrink fit tool holder | 25 | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M009      | shrink fit tool holder | 25 | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M009      | shrink fit tool holder | 25 | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M009      | shrink fit tool holder | 25 | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M010      | shrink fit tool holder | 32 | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M010      | shrink fit tool holder | 32 | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M010      | shrink fit tool holder | 32 | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |

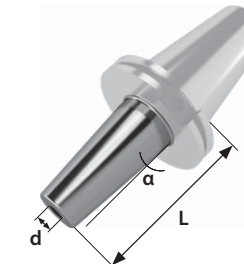
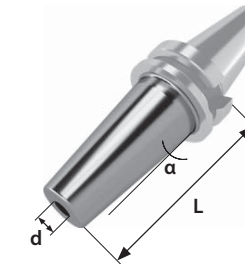
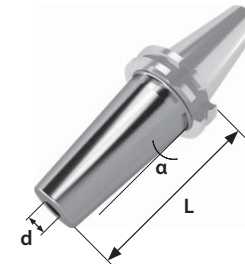
| Part code | Description            | d    | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|------|-----|-----------|-----------------------------------|-----------------|
| M010      | shrink fit tool holder | 32   | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M010      | shrink fit tool holder | 32   | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M010      | shrink fit tool holder | 32   | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M010      | shrink fit tool holder | 32   | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M011      | shrink fit tool holder | 1/4" | 120 | 4°30'     | CAT 50                            | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M012      | shrink fit tool holder | 3/8" | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M013      | shrink fit tool holder | 1/2" | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M014      | shrink fit tool holder | 5/8" | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |

Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



Shrink Fit Tool Holders - Extended version



| Part code | Description            | d      | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|--------|-----|-----------|-----------------------------------|-----------------|
| M014      | shrink fit tool holder | 5/8"   | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M014      | shrink fit tool holder | 5/8"   | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M014      | shrink fit tool holder | 5/8"   | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M014      | shrink fit tool holder | 5/8"   | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M014      | shrink fit tool holder | 5/8"   | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M014      | shrink fit tool holder | 5/8"   | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M014      | shrink fit tool holder | 5/8"   | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M014      | shrink fit tool holder | 5/8"   | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M015      | shrink fit tool holder | 3/4"   | 120 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M015      | shrink fit tool holder | 3/4"   | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M015      | shrink fit tool holder | 3/4"   | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M015      | shrink fit tool holder | 3/4"   | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M015      | shrink fit tool holder | 3/4"   | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M015      | shrink fit tool holder | 3/4"   | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M015      | shrink fit tool holder | 3/4"   | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M015      | shrink fit tool holder | 3/4"   | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M015      | shrink fit tool holder | 3/4"   | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M016      | shrink fit tool holder | 1"     | 120 | 4°30'     | SK 30 DIN 69871/A-A/B             | 24.000          |
| M016      | shrink fit tool holder | 1"     | 120 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M016      | shrink fit tool holder | 1"     | 120 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M016      | shrink fit tool holder | 1"     | 120 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M016      | shrink fit tool holder | 1"     | 120 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M016      | shrink fit tool holder | 1"     | 120 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M016      | shrink fit tool holder | 1"     | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M016      | shrink fit tool holder | 1"     | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M016      | shrink fit tool holder | 1"     | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M017      | shrink fit tool holder | 1-1/2" | 120 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M017      | shrink fit tool holder | 1-1/2" | 120 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M017      | shrink fit tool holder | 1-1/2" | 120 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M018      | shrink fit tool holder | 4      | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M018      | shrink fit tool holder | 4      | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M018      | shrink fit tool holder | 4      | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M018      | shrink fit tool holder | 4      | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M018      | shrink fit tool holder | 4      | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M018      | shrink fit tool holder | 4      | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M018      | shrink fit tool holder | 4      | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M021      | shrink fit tool holder | 10     | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M021      | shrink fit tool holder | 10     | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M021      | shrink fit tool holder | 10     | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M021      | shrink fit tool holder | 10     | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M021      | shrink fit tool holder | 10     | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M021      | shrink fit tool holder | 10     | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M021      | shrink fit tool holder | 10     | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M021      | shrink fit tool holder | 10     | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M022      | shrink fit tool holder | 12     | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |

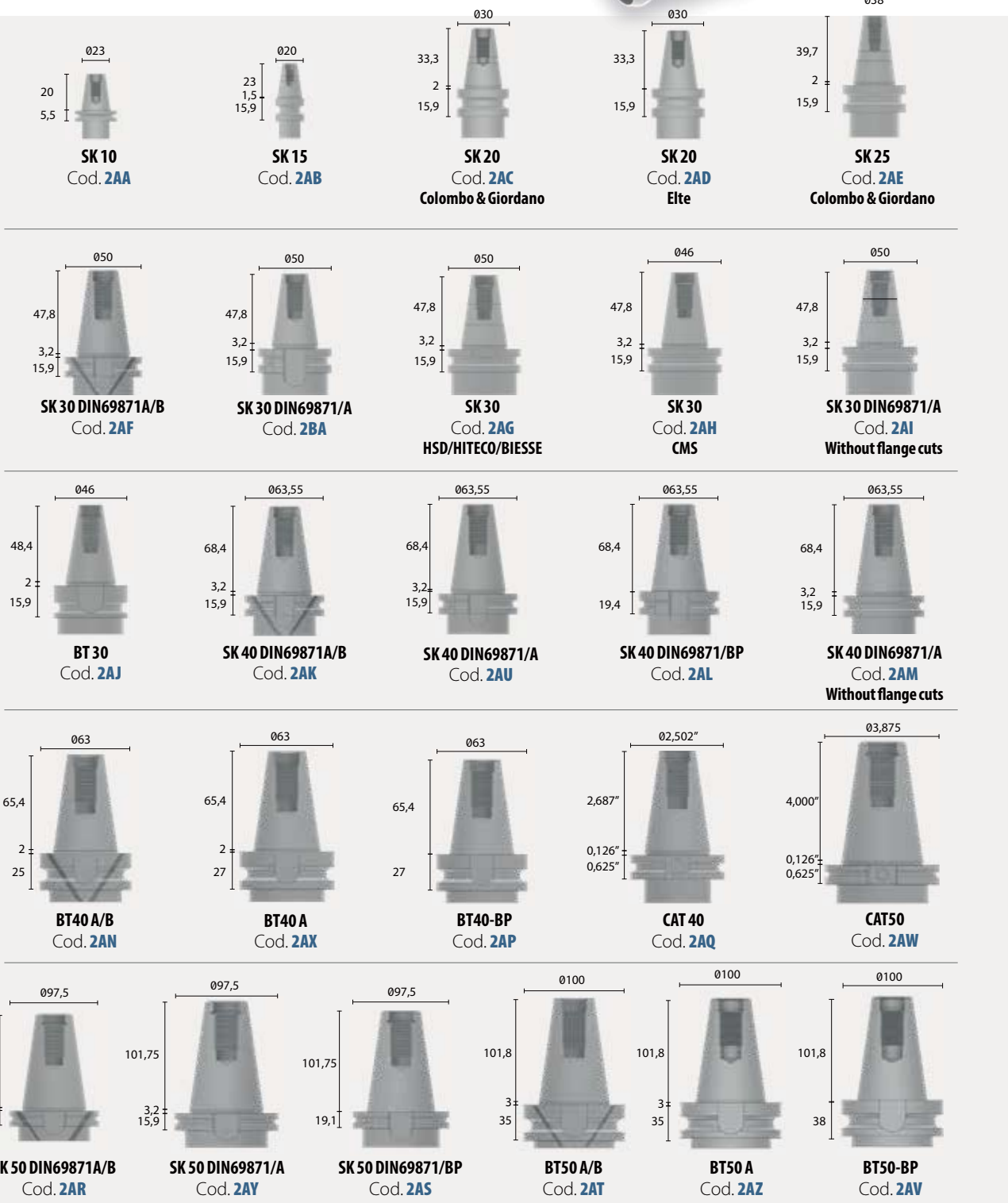
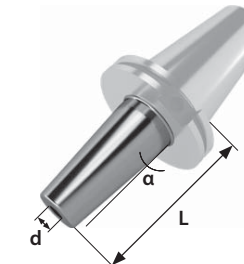
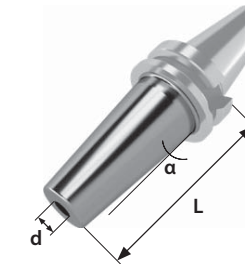
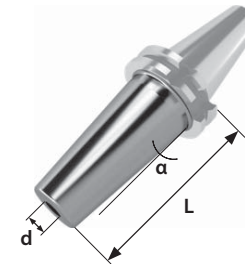
| Part code | Description            | d  | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|-----|-----------|-----------------------------------|-----------------|
| M018      | shrink fit tool holder | 4  | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M018      | shrink fit tool holder | 4  | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M018      | shrink fit tool holder | 4  | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M018      | shrink fit tool holder | 4  | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M018      | shrink fit tool holder | 4  | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M019      | shrink fit tool holder | 6  | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M019      | shrink fit tool holder | 6  | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M019      | shrink fit tool holder | 6  | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M019      | shrink fit tool holder | 6  | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M019      | shrink fit tool holder | 6  | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M019      | shrink fit tool holder | 6  | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M019      | shrink fit tool holder | 6  | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M019      | shrink fit tool holder | 6  | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M019      | shrink fit tool holder | 6  | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M020      | shrink fit tool holder | 8  | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M020      | shrink fit tool holder | 8  | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M020      | shrink fit tool holder | 8  | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M020      | shrink fit tool holder | 8  | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M020      | shrink fit tool holder | 8  | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M020      | shrink fit tool holder | 8  | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M020      | shrink fit tool holder | 8  | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M020      | shrink fit tool holder | 8  | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M020      | shrink fit tool holder | 8  | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M021      | shrink fit tool holder | 10 | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M021      | shrink fit tool holder | 10 | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M021      | shrink fit tool holder | 10 | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M021      | shrink fit tool holder | 10 | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M021      | shrink fit tool holder | 10 | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M021      | shrink fit tool holder | 10 | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M021      | shrink fit tool holder | 10 | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M021      | shrink fit tool holder | 10 | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M021      | shrink fit tool holder | 10 | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M022      | shrink fit tool holder | 12 | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |

Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



Shrink Fit Tool Holders - Extended version



| Part code | Description            | d  | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|----|-----|-----------|-----------------------------------|-----------------|
| M022      | shrink fit tool holder | 12 | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M022      | shrink fit tool holder | 12 | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M022      | shrink fit tool holder | 12 | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M022      | shrink fit tool holder | 12 | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M022      | shrink fit tool holder | 12 | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M022      | shrink fit tool holder | 12 | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M022      | shrink fit tool holder | 12 | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M022      | shrink fit tool holder | 12 | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M023      | shrink fit tool holder | 14 | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M023      | shrink fit tool holder | 14 | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M023      | shrink fit tool holder | 14 | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M023      | shrink fit tool holder | 14 | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M023      | shrink fit tool holder | 14 | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M023      | shrink fit tool holder | 14 | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M023      | shrink fit tool holder | 14 | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M023      | shrink fit tool holder | 14 | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M023      | shrink fit tool holder | 14 | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M024      | shrink fit tool holder | 16 | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M024      | shrink fit tool holder | 16 | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M024      | shrink fit tool holder | 16 | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M024      | shrink fit tool holder | 16 | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M024      | shrink fit tool holder | 16 | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M024      | shrink fit tool holder | 16 | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M024      | shrink fit tool holder | 16 | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M024      | shrink fit tool holder | 16 | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M024      | shrink fit tool holder | 16 | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M025      | shrink fit tool holder | 18 | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M025      | shrink fit tool holder | 18 | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M025      | shrink fit tool holder | 18 | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M025      | shrink fit tool holder | 18 | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M025      | shrink fit tool holder | 18 | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M025      | shrink fit tool holder | 18 | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M025      | shrink fit tool holder | 18 | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |

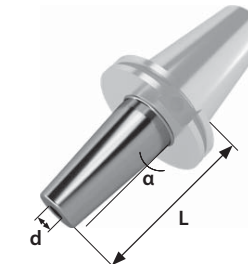
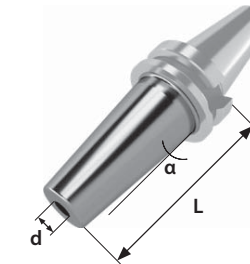
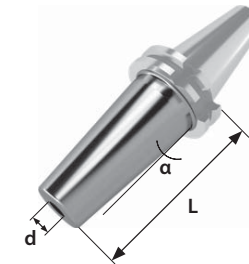
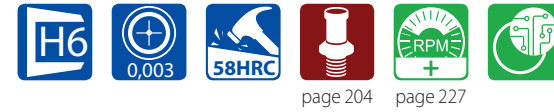
| Part code | Description            | d    | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|------|-----|-----------|-----------------------------------|-----------------|
| M025      | shrink fit tool holder | 18   | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M025      | shrink fit tool holder | 18   | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M026      | shrink fit tool holder | 20   | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M026      | shrink fit tool holder | 20   | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M026      | shrink fit tool holder | 20   | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M026      | shrink fit tool holder | 20   | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M026      | shrink fit tool holder | 20   | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M026      | shrink fit tool holder | 20   | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M026      | shrink fit tool holder | 20   | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M026      | shrink fit tool holder | 20   | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M026      | shrink fit tool holder | 20   | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M027      | shrink fit tool holder | 25   | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M027      | shrink fit tool holder | 25   | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M027      | shrink fit tool holder | 25   | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M027      | shrink fit tool holder | 25   | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M027      | shrink fit tool holder | 25   | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M027      | shrink fit tool holder | 25   | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M027      | shrink fit tool holder | 25   | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M028      | shrink fit tool holder | 32   | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M028      | shrink fit tool holder | 32   | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M028      | shrink fit tool holder | 32   | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M028      | shrink fit tool holder | 32   | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M028      | shrink fit tool holder | 32   | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M028      | shrink fit tool holder | 32   | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M028      | shrink fit tool holder | 32   | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |

Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



Shrink Fit Tool Holders - Extended version



| Part code | Description            | d    | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|------|-----|-----------|-----------------------------------|-----------------|
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M029      | shrink fit tool holder | 1/4" | 160 | 4°30'     | CAT 50                            | 24.000          |
| M030      | shrink fit tool holder | 3/8" | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M030      | shrink fit tool holder | 3/8" | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M030      | shrink fit tool holder | 3/8" | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M030      | shrink fit tool holder | 3/8" | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M030      | shrink fit tool holder | 3/8" | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M030      | shrink fit tool holder | 3/8" | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M030      | shrink fit tool holder | 3/8" | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M030      | shrink fit tool holder | 3/8" | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M030      | shrink fit tool holder | 3/8" | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M031      | shrink fit tool holder | 1/2" | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M031      | shrink fit tool holder | 1/2" | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M031      | shrink fit tool holder | 1/2" | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M031      | shrink fit tool holder | 1/2" | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M031      | shrink fit tool holder | 1/2" | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M031      | shrink fit tool holder | 1/2" | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M031      | shrink fit tool holder | 1/2" | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M031      | shrink fit tool holder | 1/2" | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M031      | shrink fit tool holder | 1/2" | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M032      | shrink fit tool holder | 5/8" | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M032      | shrink fit tool holder | 5/8" | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M032      | shrink fit tool holder | 5/8" | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M032      | shrink fit tool holder | 5/8" | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M032      | shrink fit tool holder | 5/8" | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M032      | shrink fit tool holder | 5/8" | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M032      | shrink fit tool holder | 5/8" | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M032      | shrink fit tool holder | 5/8" | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M032      | shrink fit tool holder | 5/8" | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M033      | shrink fit tool holder | 3/4" | 160 | 4°30'     | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| M033      | shrink fit tool holder | 3/4" | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M033      | shrink fit tool holder | 3/4" | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M033      | shrink fit tool holder | 3/4" | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |

| Part code | Description            | d      | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|------------------------|--------|-----|-----------|-----------------------------------|-----------------|
| M033      | shrink fit tool holder | 3/4"   | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M033      | shrink fit tool holder | 3/4"   | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M033      | shrink fit tool holder | 3/4"   | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M033      | shrink fit tool holder | 3/4"   | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M033      | shrink fit tool holder | 3/4"   | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M034      | shrink fit tool holder | 1"     | 160 | 4°30'     | SK 30 DIN 69871/A-A/B             | 24.000          |
| M034      | shrink fit tool holder | 1"     | 160 | 4°30'     | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M034      | shrink fit tool holder | 1"     | 160 | 4°30'     | SK 40 DIN 69871/A-A/B             | 24.000          |
| M034      | shrink fit tool holder | 1"     | 160 | 4°30'     | SK 40 DIN 69871/BP                | 24.000          |
| M034      | shrink fit tool holder | 1"     | 160 | 4°30'     | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| M034      | shrink fit tool holder | 1"     | 160 | 4°30'     | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| M034      | shrink fit tool holder | 1"     | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M034      | shrink fit tool holder | 1"     | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M034      | shrink fit tool holder | 1"     | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| M035      | shrink fit tool holder | 1-1/2" | 160 | 4°30'     | SK 50 DIN 69871/A-A/B             | 24.000          |
| M035      | shrink fit tool holder | 1-1/2" | 160 | 4°30'     | SK 50 DIN 69871/BP                | 24.000          |
| M035      | shrink fit tool holder | 1-1/2" | 160 | 4°30'     | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

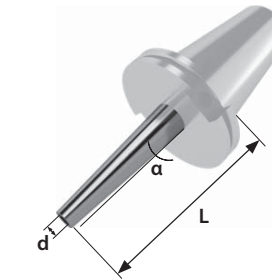
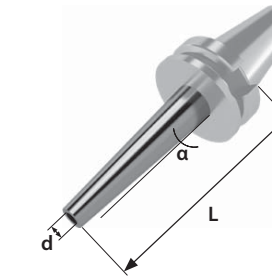
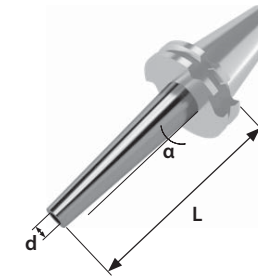
To configure your toolholder you need to choose one of the following connections first.



## TOOL HOLDERS SK/BT/CAT

### Shrink Fit Tool Holders - Slim version

The narrow body of the shrink fit tool holder "Slim" are ideal for deep precision milling operations.



| Part code | Description                           | d    | L  | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|---------------------------------------|------|----|-----------|-----------------------------------|-----------------|
| N000      | shrink fit tool holder - slim version | 3    | 75 | 3°        | SK 20 G&C - SK 20 ELTE            | 50.000          |
| N000      | shrink fit tool holder - slim version | 3    | 75 | 3°        | SK 25 G&C                         | 50.000          |
| N001      | shrink fit tool holder - slim version | 4    | 75 | 3°        | SK 20 G&C - SK 20 ELTE            | 50.000          |
| N001      | shrink fit tool holder - slim version | 4    | 75 | 3°        | SK 25 G&C                         | 50.000          |
| N002      | shrink fit tool holder - slim version | 4    | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N002      | shrink fit tool holder - slim version | 4    | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N003      | shrink fit tool holder - slim version | 6    | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N003      | shrink fit tool holder - slim version | 6    | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N004      | shrink fit tool holder - slim version | 8    | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N004      | shrink fit tool holder - slim version | 8    | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N005      | shrink fit tool holder - slim version | 10   | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N005      | shrink fit tool holder - slim version | 10   | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N006      | shrink fit tool holder - slim version | 12   | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N006      | shrink fit tool holder - slim version | 12   | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N007      | shrink fit tool holder - slim version | 14   | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N007      | shrink fit tool holder - slim version | 14   | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N008      | shrink fit tool holder - slim version | 16   | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N008      | shrink fit tool holder - slim version | 16   | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N009      | shrink fit tool holder - slim version | 18   | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N009      | shrink fit tool holder - slim version | 18   | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N010      | shrink fit tool holder - slim version | 20   | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N010      | shrink fit tool holder - slim version | 20   | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N011      | shrink fit tool holder - slim version | 1/4" | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N011      | shrink fit tool holder - slim version | 1/4" | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N012      | shrink fit tool holder - slim version | 3/8" | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N012      | shrink fit tool holder - slim version | 3/8" | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N013      | shrink fit tool holder - slim version | 1/2" | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N013      | shrink fit tool holder - slim version | 1/2" | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N014      | shrink fit tool holder - slim version | 5/8" | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N014      | shrink fit tool holder - slim version | 5/8" | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N015      | shrink fit tool holder - slim version | 3/4" | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N015      | shrink fit tool holder - slim version | 3/4" | 90 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N016      | shrink fit tool holder - slim version | 1"   | 90 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |

| Part code | Description                           | d  | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|---------------------------------------|----|-----|-----------|-----------------------------------|-----------------|
| N016      | shrink fit tool holder - slim version | 1" | 90  | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N017      | shrink fit tool holder - slim version | 4  | 120 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N017      | shrink fit tool holder - slim version | 4  | 120 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N017      | shrink fit tool holder - slim version | 4  | 120 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N017      | shrink fit tool holder - slim version | 4  | 120 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N017      | shrink fit tool holder - slim version | 4  | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N017      | shrink fit tool holder - slim version | 4  | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N017      | shrink fit tool holder - slim version | 4  | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N017      | shrink fit tool holder - slim version | 4  | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N017      | shrink fit tool holder - slim version | 4  | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N018      | shrink fit tool holder - slim version | 6  | 120 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N018      | shrink fit tool holder - slim version | 6  | 120 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N018      | shrink fit tool holder - slim version | 6  | 120 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N018      | shrink fit tool holder - slim version | 6  | 120 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N018      | shrink fit tool holder - slim version | 6  | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N018      | shrink fit tool holder - slim version | 6  | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N018      | shrink fit tool holder - slim version | 6  | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N018      | shrink fit tool holder - slim version | 6  | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N018      | shrink fit tool holder - slim version | 6  | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N019      | shrink fit tool holder - slim version | 8  | 120 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N019      | shrink fit tool holder - slim version | 8  | 120 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N019      | shrink fit tool holder - slim version | 8  | 120 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N019      | shrink fit tool holder - slim version | 8  | 120 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N019      | shrink fit tool holder - slim version | 8  | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N019      | shrink fit tool holder - slim version | 8  | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |

MANUFACTURING MATERIAL



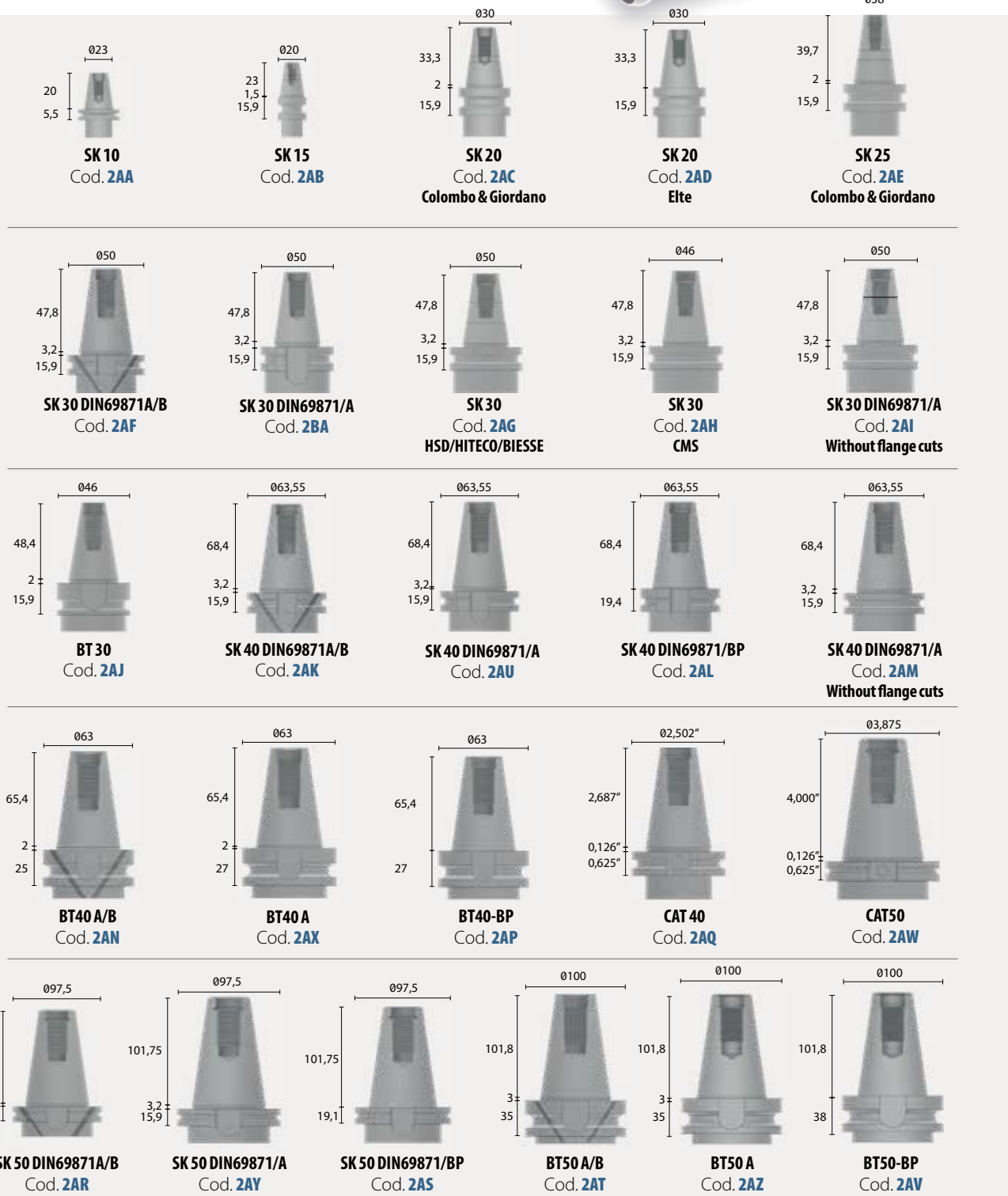
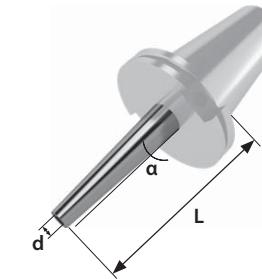
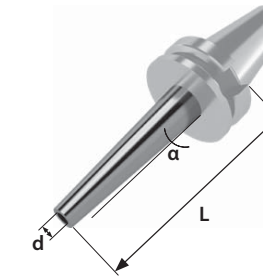
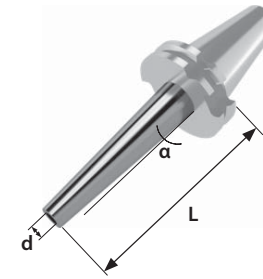


Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



Shrink Fit Tool Holders - Slim version



| Part code | Description                           | d    | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|---------------------------------------|------|-----|-----------|-----------------------------------|-----------------|
| N027      | shrink fit tool holder - slim version | 32   | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N027      | shrink fit tool holder - slim version | 32   | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N027      | shrink fit tool holder - slim version | 32   | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N027      | shrink fit tool holder - slim version | 32   | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N027      | shrink fit tool holder - slim version | 32   | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N028      | shrink fit tool holder - slim version | 1/4" | 120 | 3°        | CAT 50                            | 24.000          |
| N029      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N029      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N029      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N029      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N029      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N029      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N029      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N029      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N029      | shrink fit tool holder - slim version | 3/8" | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N030      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N030      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N030      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N030      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N030      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N030      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N030      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N030      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N030      | shrink fit tool holder - slim version | 1/2" | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |

| Part code | Description                           | d      | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|---------------------------------------|--------|-----|-----------|-----------------------------------|-----------------|
| N031      | shrink fit tool holder - slim version | 5/8"   | 120 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N031      | shrink fit tool holder - slim version | 5/8"   | 120 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N031      | shrink fit tool holder - slim version | 5/8"   | 120 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N031      | shrink fit tool holder - slim version | 5/8"   | 120 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N031      | shrink fit tool holder - slim version | 5/8"   | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N031      | shrink fit tool holder - slim version | 5/8"   | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N031      | shrink fit tool holder - slim version | 5/8"   | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N031      | shrink fit tool holder - slim version | 5/8"   | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N031      | shrink fit tool holder - slim version | 5/8"   | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | SK 30 DIN 69871/A-A/B - BT 30     | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N032      | shrink fit tool holder - slim version | 3/4"   | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N033      | shrink fit tool holder - slim version | 1"     | 120 | 3°        | SK 30 DIN 69871/A-A/B             | 24.000          |
| N033      | shrink fit tool holder - slim version | 1"     | 120 | 3°        | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N033      | shrink fit tool holder - slim version | 1"     | 120 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N033      | shrink fit tool holder - slim version | 1"     | 120 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N033      | shrink fit tool holder - slim version | 1"     | 120 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N033      | shrink fit tool holder - slim version | 1"     | 120 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N033      | shrink fit tool holder - slim version | 1"     | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N033      | shrink fit tool holder - slim version | 1"     | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N033      | shrink fit tool holder - slim version | 1"     | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N034      | shrink fit tool holder - slim version | 1-1/2" | 120 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N034      | shrink fit tool holder - slim version | 1-1/2" | 120 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N034      | shrink fit tool holder - slim version | 1-1/2" | 120 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N035      | shrink fit tool holder - slim version | 4      | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N035      | shrink fit tool holder - slim version | 4      | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N035      | shrink fit tool holder - slim version | 4      | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |

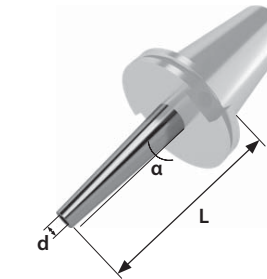
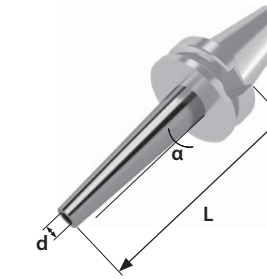
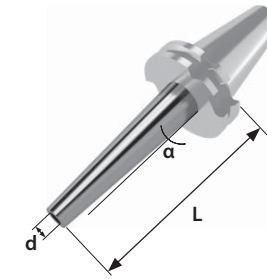


### Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



### Shrink Fit Tool Holders - Slim version



| Part code | Description                           | d  | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|---------------------------------------|----|-----|-----------|-----------------------------------|-----------------|
| N035      | shrink fit tool holder - slim version | 4  | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N035      | shrink fit tool holder - slim version | 4  | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N035      | shrink fit tool holder - slim version | 4  | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N035      | shrink fit tool holder - slim version | 4  | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N036      | shrink fit tool holder - slim version | 6  | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N036      | shrink fit tool holder - slim version | 6  | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N036      | shrink fit tool holder - slim version | 6  | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N036      | shrink fit tool holder - slim version | 6  | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N036      | shrink fit tool holder - slim version | 6  | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N036      | shrink fit tool holder - slim version | 6  | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N036      | shrink fit tool holder - slim version | 6  | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N037      | shrink fit tool holder - slim version | 8  | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N037      | shrink fit tool holder - slim version | 8  | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N037      | shrink fit tool holder - slim version | 8  | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N037      | shrink fit tool holder - slim version | 8  | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N037      | shrink fit tool holder - slim version | 8  | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N037      | shrink fit tool holder - slim version | 8  | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N037      | shrink fit tool holder - slim version | 8  | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N038      | shrink fit tool holder - slim version | 10 | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N038      | shrink fit tool holder - slim version | 10 | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N038      | shrink fit tool holder - slim version | 10 | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N038      | shrink fit tool holder - slim version | 10 | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N038      | shrink fit tool holder - slim version | 10 | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N038      | shrink fit tool holder - slim version | 10 | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N038      | shrink fit tool holder - slim version | 10 | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N039      | shrink fit tool holder - slim version | 12 | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N039      | shrink fit tool holder - slim version | 12 | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N039      | shrink fit tool holder - slim version | 12 | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N039      | shrink fit tool holder - slim version | 12 | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N039      | shrink fit tool holder - slim version | 12 | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N039      | shrink fit tool holder - slim version | 12 | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N039      | shrink fit tool holder - slim version | 12 | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N040      | shrink fit tool holder - slim version | 14 | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |

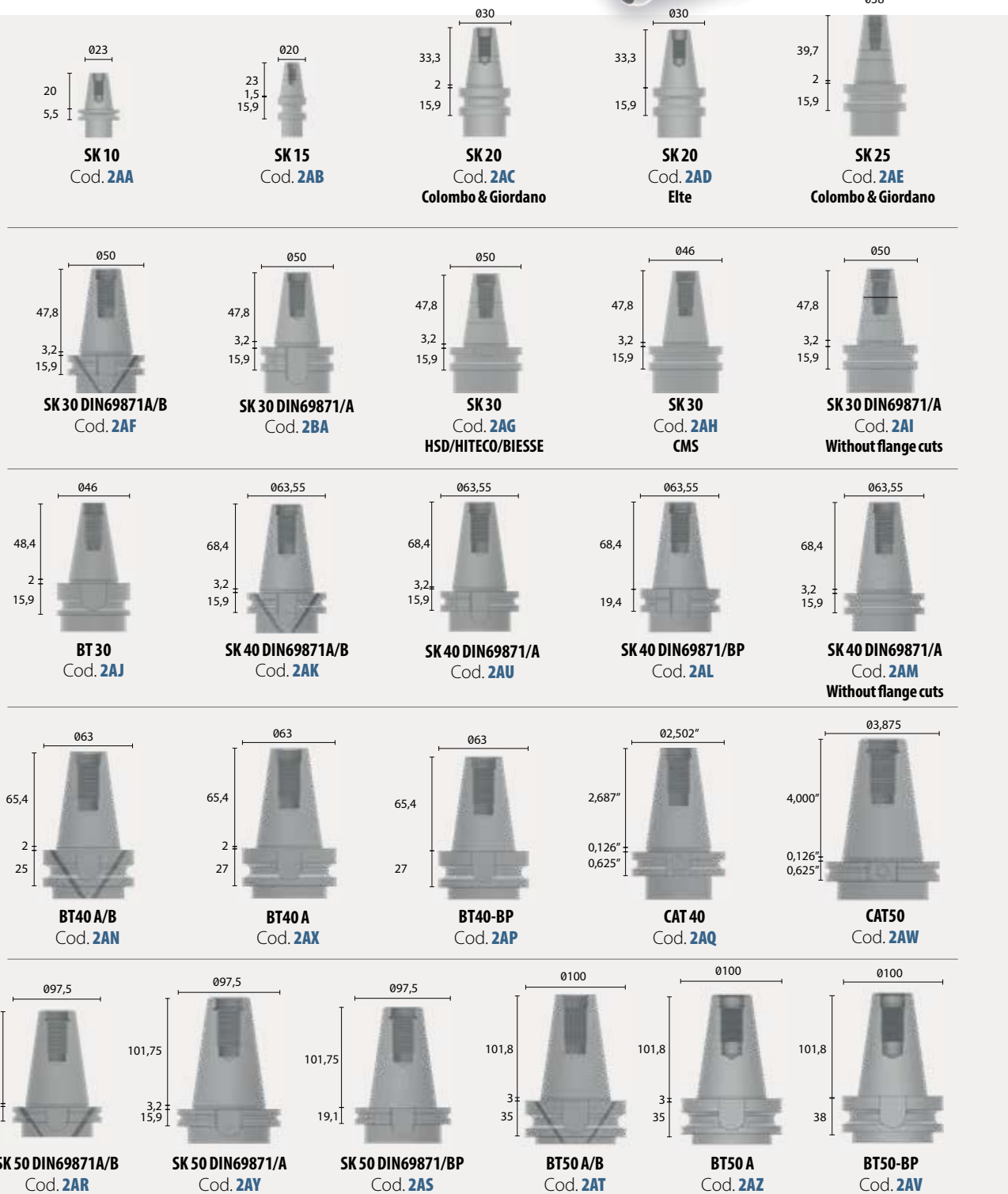
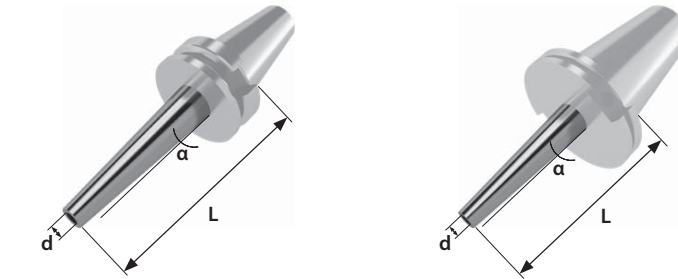
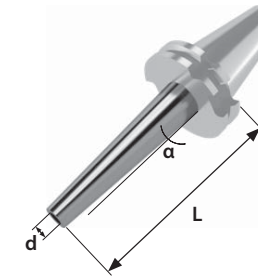
| Part code | Description                           | d  | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|---------------------------------------|----|-----|-----------|-----------------------------------|-----------------|
| N040      | shrink fit tool holder - slim version | 14 | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N040      | shrink fit tool holder - slim version | 14 | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N040      | shrink fit tool holder - slim version | 14 | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N040      | shrink fit tool holder - slim version | 14 | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N040      | shrink fit tool holder - slim version | 14 | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N040      | shrink fit tool holder - slim version | 14 | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N041      | shrink fit tool holder - slim version | 16 | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N041      | shrink fit tool holder - slim version | 16 | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N041      | shrink fit tool holder - slim version | 16 | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N041      | shrink fit tool holder - slim version | 16 | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N041      | shrink fit tool holder - slim version | 16 | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N041      | shrink fit tool holder - slim version | 16 | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N041      | shrink fit tool holder - slim version | 16 | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N042      | shrink fit tool holder - slim version | 18 | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N042      | shrink fit tool holder - slim version | 18 | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N042      | shrink fit tool holder - slim version | 18 | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N042      | shrink fit tool holder - slim version | 18 | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N042      | shrink fit tool holder - slim version | 18 | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N042      | shrink fit tool holder - slim version | 18 | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N042      | shrink fit tool holder - slim version | 18 | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N043      | shrink fit tool holder - slim version | 20 | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N043      | shrink fit tool holder - slim version | 20 | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N043      | shrink fit tool holder - slim version | 20 | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N043      | shrink fit tool holder - slim version | 20 | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N043      | shrink fit tool holder - slim version | 20 | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N043      | shrink fit tool holder - slim version | 20 | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N043      | shrink fit tool holder - slim version | 20 | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N044      | shrink fit tool holder - slim version | 25 | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N044      | shrink fit tool holder - slim version | 25 | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N044      | shrink fit tool holder - slim version | 25 | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N044      | shrink fit tool holder - slim version | 25 | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N044      | shrink fit tool holder - slim version | 25 | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N044      | shrink fit tool holder - slim version | 25 | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Shrink Fit Tool Holders - Slim version



| Part code | Description                           | d    | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|---------------------------------------|------|-----|-----------|-----------------------------------|-----------------|
| N044      | shrink fit tool holder - slim version | 25   | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N045      | shrink fit tool holder - slim version | 32   | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N045      | shrink fit tool holder - slim version | 32   | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N045      | shrink fit tool holder - slim version | 32   | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N045      | shrink fit tool holder - slim version | 32   | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N045      | shrink fit tool holder - slim version | 32   | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N045      | shrink fit tool holder - slim version | 32   | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N045      | shrink fit tool holder - slim version | 32   | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N046      | shrink fit tool holder - slim version | 1/4" | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N046      | shrink fit tool holder - slim version | 1/4" | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N046      | shrink fit tool holder - slim version | 1/4" | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N046      | shrink fit tool holder - slim version | 1/4" | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N046      | shrink fit tool holder - slim version | 1/4" | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N046      | shrink fit tool holder - slim version | 1/4" | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N046      | shrink fit tool holder - slim version | 1/4" | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N047      | shrink fit tool holder - slim version | 3/8" | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N047      | shrink fit tool holder - slim version | 3/8" | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N047      | shrink fit tool holder - slim version | 3/8" | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N047      | shrink fit tool holder - slim version | 3/8" | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N047      | shrink fit tool holder - slim version | 3/8" | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N047      | shrink fit tool holder - slim version | 3/8" | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N047      | shrink fit tool holder - slim version | 3/8" | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N048      | shrink fit tool holder - slim version | 1/2" | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N048      | shrink fit tool holder - slim version | 1/2" | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N048      | shrink fit tool holder - slim version | 1/2" | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N048      | shrink fit tool holder - slim version | 1/2" | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N048      | shrink fit tool holder - slim version | 1/2" | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N048      | shrink fit tool holder - slim version | 1/2" | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N048      | shrink fit tool holder - slim version | 1/2" | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N049      | shrink fit tool holder - slim version | 5/8" | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N049      | shrink fit tool holder - slim version | 5/8" | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N049      | shrink fit tool holder - slim version | 5/8" | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N049      | shrink fit tool holder - slim version | 5/8" | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |

| Part code | Description                           | d      | L   | Angle (α) | Connection                        | Balancing (RPM) |
|-----------|---------------------------------------|--------|-----|-----------|-----------------------------------|-----------------|
| N049      | shrink fit tool holder - slim version | 5/8"   | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N049      | shrink fit tool holder - slim version | 5/8"   | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N049      | shrink fit tool holder - slim version | 5/8"   | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N050      | shrink fit tool holder - slim version | 3/4"   | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N050      | shrink fit tool holder - slim version | 3/4"   | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N050      | shrink fit tool holder - slim version | 3/4"   | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N050      | shrink fit tool holder - slim version | 3/4"   | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N050      | shrink fit tool holder - slim version | 3/4"   | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N050      | shrink fit tool holder - slim version | 3/4"   | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N050      | shrink fit tool holder - slim version | 3/4"   | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N051      | shrink fit tool holder - slim version | 1"     | 160 | 3°        | SK 40 DIN 69871/A-A/B             | 24.000          |
| N051      | shrink fit tool holder - slim version | 1"     | 160 | 3°        | SK 40 DIN 69871/BP                | 24.000          |
| N051      | shrink fit tool holder - slim version | 1"     | 160 | 3°        | SK 40 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| N051      | shrink fit tool holder - slim version | 1"     | 160 | 3°        | BT 40/A-A/B - BT 40/BP - CAT 40   | 24.000          |
| N051      | shrink fit tool holder - slim version | 1"     | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N051      | shrink fit tool holder - slim version | 1"     | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N051      | shrink fit tool holder - slim version | 1"     | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |
| N052      | shrink fit tool holder - slim version | 1-1/2" | 160 | 3°        | SK 50 DIN 69871/A-A/B             | 24.000          |
| N052      | shrink fit tool holder - slim version | 1-1/2" | 160 | 3°        | SK 50 DIN 69871/BP                | 24.000          |
| N052      | shrink fit tool holder - slim version | 1-1/2" | 160 | 3°        | BT 50/A-A/B - BT 50/BP - CAT 50   | 24.000          |

## Part codes for available SK/BT/CAT CONNECTIONS\*

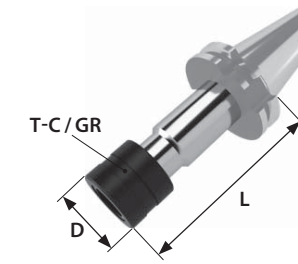
To configure your toolholder you need to choose one of the following connections first.



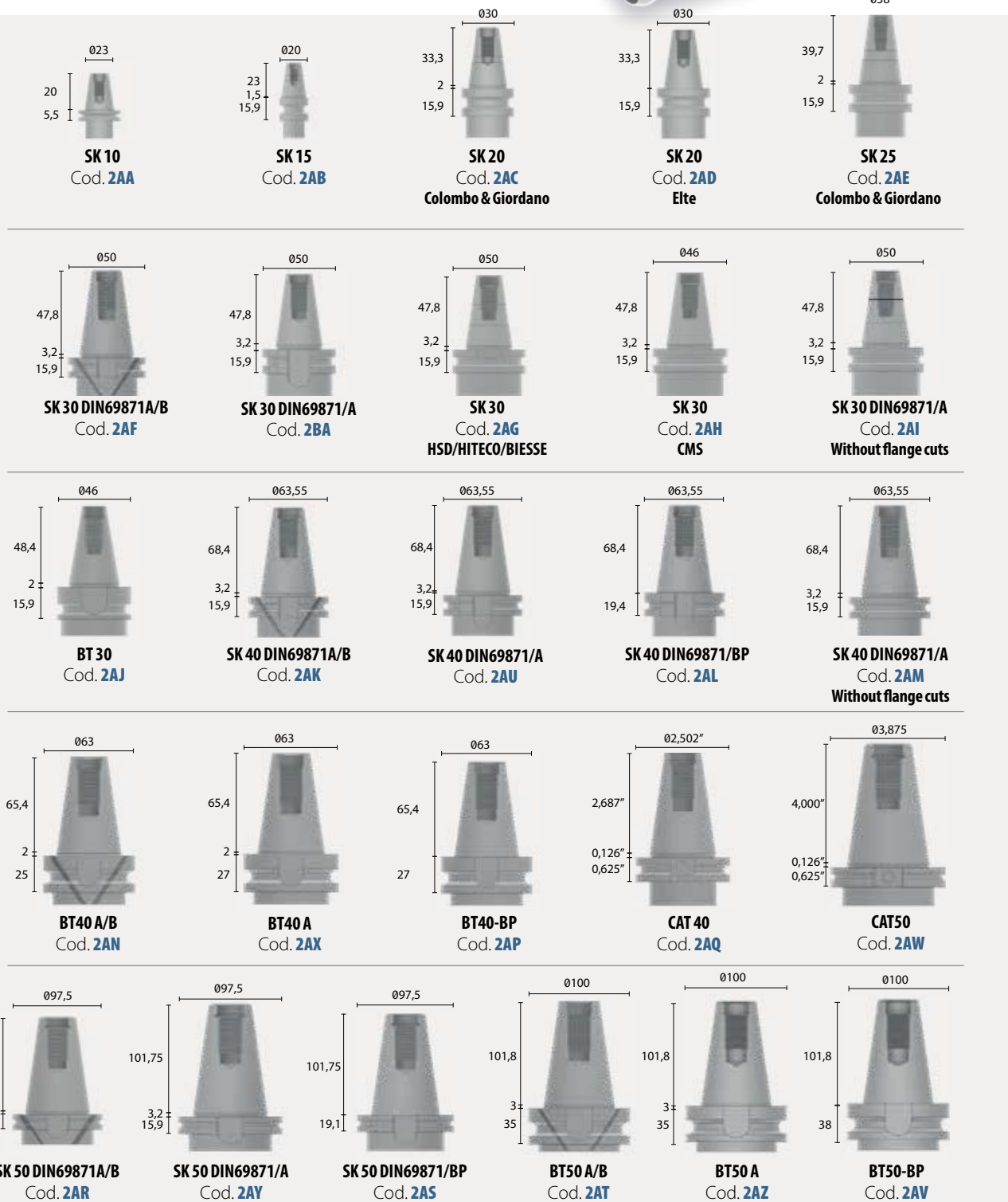
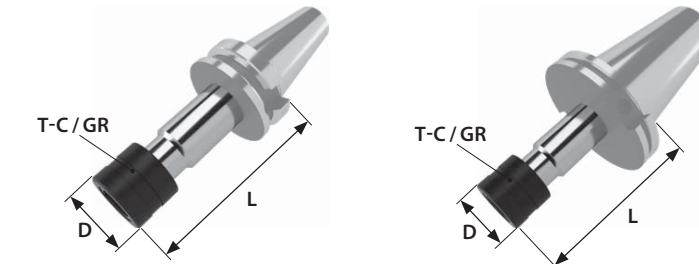
## TOOL HOLDERS SK/BT/CAT

### Tap holders

Tap tools preferred clamping systems, for precise threading operations.

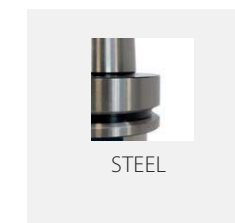


### Tapping specs



| Part code | Description                    | D  | L   | T-C   | GR | Connection                        | Balancing (RPM) |
|-----------|--------------------------------|----|-----|-------|----|-----------------------------------|-----------------|
| KX00      | tap holder double compensation | 32 | 90  | 7-5   | 1  | SK 30 DIN 69871/A                 | 24.000          |
| KX00      | tap holder double compensation | 32 | 90  | 7-5   | 1  | SK 30 DIN 69871/A W/O FLANGE CUTS | 24.000          |
| KX00      | tap holder double compensation | 32 | 90  | 7-5   | 1  | BT 30                             | 24.000          |
| KX00      | tap holder double compensation | 32 | 90  | 7-5   | 1  | SK 40 DIN 69871/A                 | 24.000          |
| KX00      | tap holder double compensation | 32 | 90  | 7-5   | 1  | BT 40/A                           | 24.000          |
| KX00      | tap holder double compensation | 32 | 90  | 7-5   | 1  | CAT 40                            | 24.000          |
| KX00      | tap holder double compensation | 32 | 90  | 7-5   | 1  | SK 50 DIN 69871/A                 | 24.000          |
| KX00      | tap holder double compensation | 32 | 90  | 7-5   | 1  | BT 50/A                           | 24.000          |
| KX00      | tap holder double compensation | 32 | 90  | 7-5   | 1  | CAT 50                            | 24.000          |
| KX01      | tap holder double compensation | 50 | 110 | 15-8  | 2  | SK 40 DIN 69871/A                 | 24.000          |
| KX01      | tap holder double compensation | 50 | 110 | 15-8  | 2  | BT 40/A                           | 24.000          |
| KX01      | tap holder double compensation | 50 | 110 | 15-8  | 2  | CAT 40                            | 24.000          |
| KX01      | tap holder double compensation | 50 | 110 | 15-8  | 2  | SK 50 DIN 69871/A                 | 24.000          |
| KX01      | tap holder double compensation | 50 | 110 | 15-8  | 2  | BT 50/A                           | 24.000          |
| KX01      | tap holder double compensation | 50 | 110 | 15-8  | 2  | CAT 50                            | 24.000          |
| KX02      | tap holder double compensation | 72 | 120 | 25-10 | 3  | SK 50 DIN 69871/A                 | 24.000          |
| KX02      | tap holder double compensation | 72 | 120 | 25-10 | 3  | BT 50/A                           | 24.000          |
| KX02      | tap holder double compensation | 72 | 120 | 25-10 | 3  | CAT 50                            | 24.000          |
| KX03      | tap holder double compensation | 92 | 180 | 25-10 | 4  | SK 50 DIN 69871/A                 | 24.000          |
| KX03      | tap holder double compensation | 92 | 180 | 25-10 | 4  | BT 50/A                           | 24.000          |
| KX03      | tap holder double compensation | 92 | 180 | 25-10 | 4  | CAT 50                            | 24.000          |

MANUFACTURING MATERIAL



| Tool Shaft  | Standard DIN 352 | Incr. DIN 371 | Standard DIN 376 | Standard ISO | Increased ISO | Tap Collet style |
|-------------|------------------|---------------|------------------|--------------|---------------|------------------|
| 3.00x2.40   | -                | -             | -                | M 4.0        | M 3.30        | 0                |
| 3.50x2.80   | -                | -             | -                | M 4.5        | M 3.5         | 0-1              |
| 4.00x3.15   | M 3.5            | M 3.5         | -                | M 5.0        | M 4.4         | 0-1              |
| 4.50x3.40   | M 4.0            | M 4.0         | M 6.0            | -            | -             | 0-1              |
| 6.00x4.90   | M 5.0            | M 5.0         | -                | -            | -             | 0-1-2            |
| 6.00x4.90   | M 6.0            | M 6.0         | -                | -            | -             | 0-1-2            |
| 6.00x4.90   | M 8.0            | -             | M 8.0            | -            | -             | 0-1-2            |
| 7.00x5.50   | M 10.0           | -             | M 10.0           | -            | -             | 0-1-2            |
| 8.00x6.20   | -                | M 8.0         | -                | M 10.0       | M 8.0         | 0-1-2            |
| 9.00x7.00   | M 12.0           | -             | M 12.0           | M 12.0       | -             | 1-2              |
| 10.00x8.00  | -                | M 10.0        | -                | -            | M 10.0        | 1-2              |
| 11.00x9.00  | M 14.0           | -             | M 14.0           | -            | -             | 1-2-3            |
| 12.00x9.00  | M 16.0           | -             | M 16.0           | -            | -             | 1-2-3            |
| 14.00x11.00 | M 18.0           | -             | M 18.0           | -            | -             | 2-3              |
| 16.00x12.00 | M 20.0           | -             | M 20.0           | -            | -             | 2-3              |
| 16.00x12.50 | -                | -             | -                | M 22.0       | -             | 2-3              |
| 18.00x14.00 | -                | -             | -                | M 24.0       | -             | 2-3              |
| 18.00x14.50 | M 22.0           | -             | M 22.0           | -            | -             | 2-3              |
| 18.00x14.50 | M 24.0           | -             | M 24.0           | -            | -             | 2-3              |
| 20.00x16.00 | M 27.0           | -             | M 27.0           | M 27.0       | -             | 2-3              |
| 20.00x16.00 | -                | -             | -                | M 30.0       | -             | 2-3              |
| 22.00x18.00 | M 30.0           | -             | M 30.0           | -            | -             | 2-3              |
| 25.00x20.00 | M 33.0           | -             | M 33.0           | M 36.0       | -             | 3                |
| 28.00x22.00 | M 36.0           | -             | M 36.0           | -            | -             | 3                |
| 32.00x24.00 | M 39.0           | -             | M 39.0           | -            | -             | 3                |
| 32.00x24.00 | M 42.0           | -             | M 42.0           | -            | -             | 3                |
| 36.00x29.00 | M 45.0           | -             | M 45.0           | -            | -             | 3                |
| 36.00x29.00 | M 48.0           | -             | M 48.0           | -            | -             | 3                |

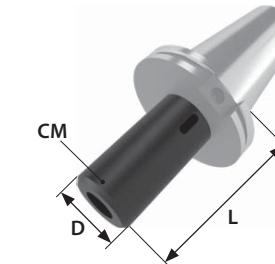
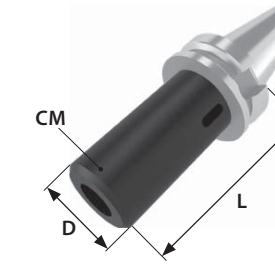
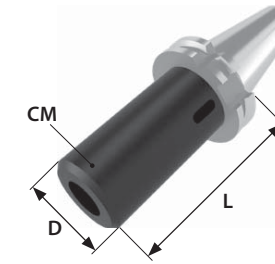
## Part codes for available SK/BT/CAT CONNECTIONS\*

To configure your toolholder you need to choose one of the following connections first.



## Morse Cone Reductions DIN 228

Reduction system for the use of bits and mills in lathes and machines equipped with morse cones.



| Part code   | Description          | D  | L   | CM    | Connection            | Balancing (RPM) |
|-------------|----------------------|----|-----|-------|-----------------------|-----------------|
| <b>KY00</b> | morse cone reduction | 35 | 60  | 1 P+F | SK 30 DIN 69871/A-A/B | 15.000          |
| <b>KY00</b> | morse cone reduction | 35 | 60  | 1 P+F | BT 30                 | 15.000          |
| <b>KY01</b> | morse cone reduction | 35 | 70  | 1 P+F | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KY01</b> | morse cone reduction | 35 | 70  | 1 P+F | BT 40/A-A/B           | 15.000          |
| <b>KY02</b> | morse cone reduction | 35 | 60  | 2 P+F | SK 30 DIN 69871/A-A/B | 15.000          |
| <b>KY02</b> | morse cone reduction | 35 | 60  | 2 P+F | BT 30                 | 15.000          |
| <b>KY03</b> | morse cone reduction | 35 | 70  | 2 P+F | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KY03</b> | morse cone reduction | 35 | 70  | 2 P+F | SK 40 DIN 69871/BP    | 15.000          |
| <b>KY03</b> | morse cone reduction | 35 | 70  | 2 P+F | BT 40/A-A/B           | 15.000          |
| <b>KY03</b> | morse cone reduction | 35 | 70  | 2 P+F | BT 40/BP              | 15.000          |
| <b>KY03</b> | morse cone reduction | 35 | 70  | 2 P+F | CAT 40                | 15.000          |
| <b>KY04</b> | morse cone reduction | 35 | 65  | 2 P+F | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KY04</b> | morse cone reduction | 35 | 65  | 2 P+F | BT 50/A-A/B           | 12.000          |
| <b>KY04</b> | morse cone reduction | 35 | 65  | 2 P+F | CAT 50                | 12.000          |
| <b>KY05</b> | morse cone reduction | 42 | 90  | 3 P+F | SK 40 DIN 69871/A-A/B | 15.000          |
| <b>KY05</b> | morse cone reduction | 42 | 90  | 3 P+F | SK 40 DIN 69871/BP    | 15.000          |
| <b>KY05</b> | morse cone reduction | 42 | 90  | 3 P+F | BT 40/A-A/B           | 15.000          |
| <b>KY05</b> | morse cone reduction | 42 | 90  | 3 P+F | BT 40/BP              | 15.000          |
| <b>KY05</b> | morse cone reduction | 42 | 90  | 3 P+F | CAT 40                | 15.000          |
| <b>KY06</b> | morse cone reduction | 42 | 70  | 3 P+F | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KY06</b> | morse cone reduction | 42 | 70  | 3 P+F | BT 50/A-A/B           | 12.000          |
| <b>KY06</b> | morse cone reduction | 42 | 70  | 3 P+F | CAT 50                | 12.000          |
| <b>KY07</b> | morse cone reduction | 52 | 110 | 4 P+F | SK 40 DIN 69871/A-A/B | 15.000          |

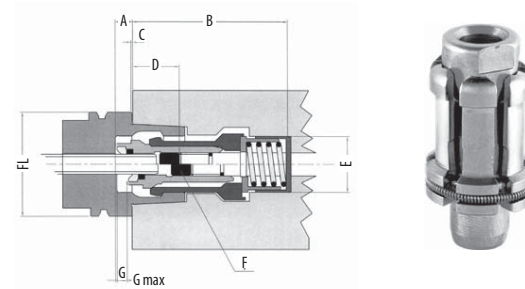
| Part code   | Description          | D  | L   | CM    | Connection            | Balancing (RPM) |
|-------------|----------------------|----|-----|-------|-----------------------|-----------------|
| <b>KY07</b> | morse cone reduction | 52 | 110 | 4 P+F | SK 40 DIN 69871/BP    | 15.000          |
| <b>KY07</b> | morse cone reduction | 52 | 110 | 4 P+F | BT 40/A-A/B           | 15.000          |
| <b>KY07</b> | morse cone reduction | 52 | 110 | 4 P+F | BT 40/BP              | 15.000          |
| <b>KY07</b> | morse cone reduction | 52 | 110 | 4 P+F | CAT 40                | 15.000          |
| <b>KY08</b> | morse cone reduction | 52 | 85  | 4 P+F | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KY08</b> | morse cone reduction | 52 | 85  | 4 P+F | BT 50/A-A/B           | 12.000          |
| <b>KY08</b> | morse cone reduction | 52 | 85  | 4 P+F | CAT 50                | 12.000          |
| <b>KY09</b> | morse cone reduction | 70 | 108 | 5 P+F | SK 50 DIN 69871/A-A/B | 12.000          |
| <b>KY09</b> | morse cone reduction | 70 | 108 | 5 P+F | BT 50/A-A/B           | 12.000          |
| <b>KY09</b> | morse cone reduction | 70 | 108 | 5 P+F | CAT 50                | 12.000          |

• MANUFACTURING MATERIAL



# Petal Collets HSK

Spindle gripper assembly for HSK spindles. It ensures precise clamping and quick release of the tool holder.



### SPINDLE GRIPPER ASSEMBLY FOR HSK SPINDLE STYLE A, C, E

| Part code | Description                     | FL      | A    | B    | C   | D    | E  | F    | G    | Connection    |
|-----------|---------------------------------|---------|------|------|-----|------|----|------|------|---------------|
| AAN00     | petal collet for electrospindle | HSK 25  | 6,5  | 40   | 0,5 | 5,5  | 14 | CH3  | 7    | HSK 25 A-C-E  |
| AAN01     | petal collet for electrospindle | HSK 32  | 8,5  | 62,5 | 0,5 | 19,5 | 17 | CH3  | 7,5  | HSK 32 A-C-E  |
| AAN02     | petal collet for electrospindle | HSK 40  | 8,5  | 78   | 0,5 | 27   | 21 | CH4  | 8    | HSK 40 A-C-E  |
| AAN03     | petal collet for electrospindle | HSK 50  | 10,5 | 84   | 0,5 | 26,5 | 26 | CH4  | 9    | HSK 50 A-C-E  |
| AAN04     | petal collet for electrospindle | HSK 63  | 10,5 | 94   | 0,5 | 31,5 | 34 | CH5  | 10   | HSK 63 A-C-E  |
| AAN05     | petal collet for electrospindle | HSK 80  | 13   | 98   | 0,5 | 31,5 | 42 | CH6  | 11   | HSK 80 A-C-E  |
| AAN06     | petal collet for electrospindle | HSK 100 | 13   | 124  | 0,5 | 34,5 | 53 | CH6  | 12,5 | HSK 100 A-C-E |
| AAN07     | petal collet for electrospindle | HSK 125 | 16,5 | 149  | 0,5 | 40,5 | 67 | CH14 | 15,8 | HSK 125 A-C-E |
| AAN08     | petal collet for electrospindle | HSK 160 | 17   | 188  | 1   | 56   | 85 | CH16 | 24,5 | HSK 160 A-C-E |

### SPINDLE GRIPPER ASSEMBLY FOR HSK SPINDLE STYLE B, D, F

| Part code | Description                     | FL      | A    | B    | C   | D    | E  | F   | G    | Connection    |
|-----------|---------------------------------|---------|------|------|-----|------|----|-----|------|---------------|
| AAN00     | petal collet for electrospindle | HSK 32  | 6,5  | 40   | 0,5 | 5,5  | 14 | CH3 | 7    | HSK 32 B-D-F  |
| AAN01     | petal collet for electrospindle | HSK 40  | 8,5  | 62,5 | 0,5 | 19,5 | 17 | CH3 | 7,5  | HSK 40 B-D-F  |
| AAN02     | petal collet for electrospindle | HSK 50  | 8,5  | 78   | 0,5 | 27   | 21 | CH4 | 8    | HSK 50 B-D-F  |
| AAN03     | petal collet for electrospindle | HSK 63  | 10,5 | 84   | 0,5 | 26,5 | 26 | CH4 | 9    | HSK 63 B-D-F  |
| AAN04     | petal collet for electrospindle | HSK 80  | 10,5 | 94   | 0,5 | 31,5 | 34 | CH5 | 10   | HSK 80 B-D-F  |
| AAN05     | petal collet for electrospindle | HSK 100 | 13   | 98   | 0,5 | 31,5 | 42 | CH6 | 11   | HSK 100 B-D-F |
| AAN06     | petal collet for electrospindle | HSK 125 | 13   | 124  | 0,5 | 34,5 | 53 | CH6 | 12,5 | HSK 125 B-D-F |

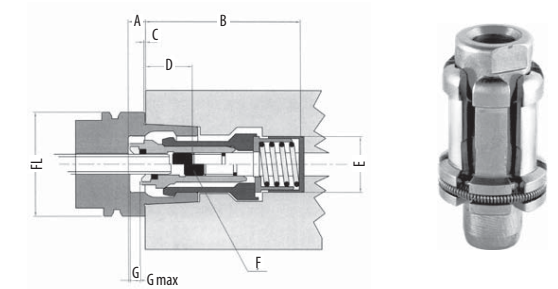
### SPINDLE GRIPPER ASSEMBLY FOR HSK 85 S AND HSK 85 W

| Part code | Description                     | FL        | A    | B    | C   | D    | E  | F   | G | Connection |
|-----------|---------------------------------|-----------|------|------|-----|------|----|-----|---|------------|
| AAN09     | petal collet for electrospindle | HSK 85S/W | 10,5 | 89,5 | 0,5 | 31,5 | 34 | CH5 | 7 | HSK 85 S-W |



# Reduced Petal Collets HSK for refurbished spindles

Spindle gripper assembly for refurbished HSK spindles. It ensures precise clamping and quick release of the tool holder.



### 0.3/0.6 MM REDUCED PETAL COLLETS FOR REFURBISHED HSK A, C, E SPINDLES

| Part code | Description                 | Before refurbishing | After refurbishing | Connection    |
|-----------|-----------------------------|---------------------|--------------------|---------------|
| AAN10     | reduced petal collets - 0,3 | 18,5                | 18,2               | HSK 25 A-C-E  |
| AAN11     | reduced petal collets - 0,3 | 30                  | 29,7               | HSK 32 A-C-E  |
| AAN12     | reduced petal collets - 0,3 | 44                  | 43,7               | HSK 40 A-C-E  |
| AAN13     | reduced petal collets - 0,3 | 45                  | 44,7               | HSK 50 A-C-E  |
| AAN14     | reduced petal collets - 0,3 | 52                  | 51,7               | HSK 63 A-C-E  |
| AAN15     | reduced petal collets - 0,3 | 56                  | 55,7               | HSK 80 A-C-E  |
| AAN16     | reduced petal collets - 0,3 | 70                  | 69,7               | HSK 100 A-C-E |
| AAN17     | reduced petal collets - 0,6 | 18,5                | 17,9               | HSK 25 A-C-E  |
| AAN18     | reduced petal collets - 0,6 | 30                  | 29,4               | HSK 32 A-C-E  |
| AAN19     | reduced petal collets - 0,6 | 44                  | 43,4               | HSK 40 A-C-E  |
| AAN20     | reduced petal collets - 0,6 | 45                  | 44,4               | HSK 50 A-C-E  |
| AAN21     | reduced petal collets - 0,6 | 52                  | 51,4               | HSK 63 A-C-E  |
| AAN22     | reduced petal collets - 0,6 | 56                  | 55,4               | HSK 80 A-C-E  |
| AAN23     | reduced petal collets - 0,6 | 70                  | 69,4               | HSK 100 A-C-E |

### 0.3/0.6 MM REDUCED PETAL COLLETS FOR REFURBISHED HSK B, D, F SPINDLES

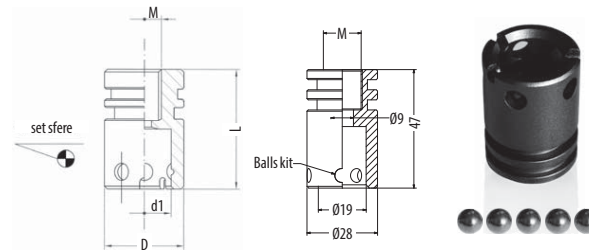
| Part code | Description                 | Before refurbishing | After refurbishing | Connection    |
|-----------|-----------------------------|---------------------|--------------------|---------------|
| AAN10     | reduced petal collets - 0,3 | 18,5                | 18,2               | HSK 32 B-D-F  |
| AAN11     | reduced petal collets - 0,3 | 30                  | 29,7               | HSK 40 B-D-F  |
| AAN12     | reduced petal collets - 0,3 | 44                  | 43,7               | HSK 50 B-D-F  |
| AAN13     | reduced petal collets - 0,3 | 45                  | 44,7               | HSK 63 A-C-E  |
| AAN14     | reduced petal collets - 0,3 | 52                  | 51,7               | HSK 80 B-D-F  |
| AAN15     | reduced petal collets - 0,3 | 56                  | 55,7               | HSK 100 B-D-F |
| AAN16     | reduced petal collets - 0,3 | 70                  | 69,7               | HSK 125 B-D-F |
| AAN17     | reduced petal collets - 0,6 | 18,5                | 17,9               | HSK 32 B-D-F  |
| AAN18     | reduced petal collets - 0,6 | 30                  | 29,4               | HSK 40 B-D-F  |
| AAN19     | reduced petal collets - 0,6 | 44                  | 43,4               | HSK 50 B-D-F  |
| AAN20     | reduced petal collets - 0,6 | 45                  | 44,4               | HSK 63 B-D-F  |
| AAN21     | reduced petal collets - 0,6 | 52                  | 51,4               | HSK 80 B-D-F  |
| AAN22     | reduced petal collets - 0,6 | 56                  | 55,4               | HSK 100 B-D-F |
| AAN23     | reduced petal collets - 0,6 | 70                  | 69,4               | HSK 125 B-D-F |

### 0.3/0.6 MM REDUCED PETAL COLLETS FOR REFURBISHED HSK 85 S AND HSK 85 W SPINDLES

| Part code | Description                 | Before refurbishing | After refurbishing | Connection          |
|-----------|-----------------------------|---------------------|--------------------|---------------------|
| AAN24     | reduced petal collets - 0,3 | 47,2                | 46,9               | HSK 85 S - HSK 85 W |
| AAN25     | reduced petal collets - 0,6 | 47,2                | 46,9               | HSK 85 S - HSK 85 W |

## Ball clamping systems for pull stud with radius SK/BT

Spindle locking system for SK/BT electrospindles hosting pull studs with radius. It ensures firm grip and quick release of the tool holder.



### BALL CLAMPING SYSTEMS FOR PULL STUD WITH RADIUS

| Part code | Description  | angle/radius | d  | Tipo | L  | D    | Connection |
|-----------|--|--------------|----|------|----|------|------------|
| AAK00     | ball clamping systems for pull stud with radius SK10       | R            | 6  | F.F. | 18 | 10,5 | SK 10      |
| AAK01     | ball clamping systems for pull stud with radius SK15       | R            | 7  | F.F. | 25 | 11   | SK 15      |
| AAK02     | ball clamping systems for pull stud with radius SK20       | R            | 8  | F.F. | 30 | 14   | SK 20      |
| AAK03     | ball clamping systems for pull stud with radius SK25       | R            | 10 | F.F. | 40 | 16   | SK 25      |
| AAK04     | ball clamping systems for pull stud SK30 DIN69872          | 15°          | 13 | F.F. | 50 | 18   | SK 30      |
| AAK05     | ball clamping systems for pull stud with radius SK30 "HSD" | R            | 12 | F.F. | 50 | 18   | SK 30      |
| AAK06     | ball clamping systems for pull stud BT30                   | 30°          | 11 | F.M. | 55 | 18   | BT 30      |
| AAK07     | ball clamping systems for pull stud BT30                   | 45°          | 11 | F.M. | 55 | 18   | BT 30      |
| AAK08     | ball clamping systems for pull stud SK40 DIN 69872         | 15°          | 19 | F.F. | 45 | 28   | SK 40      |
| AAK09     | ball clamping systems for pull stud with radius SK40 "HSD" | R            | 19 | F.F. | 45 | 28   | SK 40      |
| AAK10     | ball clamping systems for pull stud with radius SK40 "HSD" | R            | 19 | F.F. | 47 | 28   | SK 40      |
| AAK11     | ball clamping systems for pull stud with radius SK40 "HSD" | R            | 19 | F.F. | 60 | 28   | SK 40      |

### SEALED BALL CLAMPING SYSTEMS FOR PULL STUD WITH RADIUS

| Part code | Description  | angolo/raggio | d  | Tipo | L   | D  | Connection |
|-----------|--|---------------|----|------|-----|----|------------|
| AAK12     | ball clamping systems for pull stud with radius SK40 | R             | 19 | F.F. | 117 | 25 | SK 40      |
| AAK14     | ball clamping systems for pull stud with radius SK40 | R             | 19 | F.F. | 117 | 28 | SK 40      |

### DOUBLE DIAMETER BALL CLAMPING SYSTEMS FOR PULL STUD WITH RADIUS

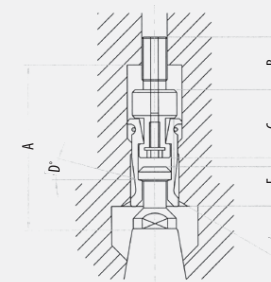
| Part code | Description  | angolo/raggio | d  | Tipo | L  | D  | D2 | Connection |
|-----------|--|---------------|----|------|----|----|----|------------|
| AAK13     | double diameter ball clamping systems for pull stud with radius for SK40 | R             | 19 | F.F. | 45 | 28 | 18 | SK 40      |

## Petal Collets SK/BT/CAT

Spindle gripper assembly for SK/BT/CAT electrospindles. It ensures a tight clamping and a quick release for the tool holder.

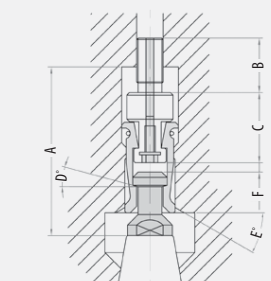


### PETAL COLLET FOR SSK DIN69872/B TOOL HOLDERS



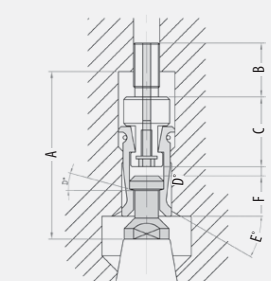
| Part code | Description                               | A  | B  | C    | D   | E   | F   | Connection |
|-----------|---|----|----|------|-----|-----|-----|------------|
| AAP00     | petal collet SSK20DIN for electrospindles | 31 | 11 | 12   | 15° | 30° | 3   | SK 20      |
| AAP01     | petal collet SSK25DIN for electrospindles | 35 | 12 | 13,5 | 15° | 30° | 3,5 | SK 25      |

### PETAL COLLET FOR SSKA DIN69872/B TOOL HOLDERS



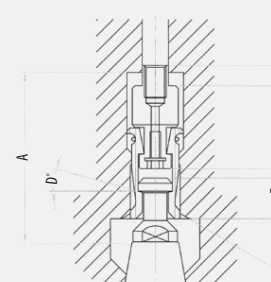
| Part code | Description                                | A   | B  | C    | D   | E   | F   | Connection |
|-----------|--|-----|----|------|-----|-----|-----|------------|
| AAP02     | petal collet SSKA30DIN for electrospindles | 50  | 20 | 19,5 | 15° | 30° | 2,5 | SK 30      |
| AAP03     | petal collet SSKA40DIN for electrospindles | 76  | 22 | 34   | 15° | 30° | 3,5 | SK 40      |
| AAP04     | petal collet SSKA45DIN for electrospindles | 84  | 30 | 38   | 15° | 30° | 3,5 | SK 45      |
| AAP05     | petal collet SSKA50DIN for electrospindles | 95  | 30 | 45   | 15° | 30° | 3,5 | SK 50      |
| AAP06     | petal collet SSKA60DIN for electrospindles | 115 | 35 | 59,5 | 15° | 30° | 6,5 | SK 60      |

### PETAL COLLET FOR SSKKA DIN69872/B TOOL HOLDERS



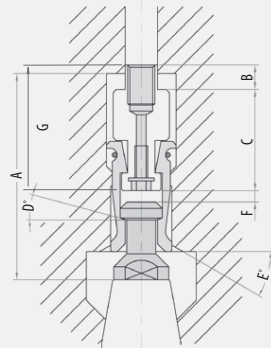
| Part code | Description                                 | A   | B  | C    | D   | E   | F   | Connection |
|-----------|---|-----|----|------|-----|-----|-----|------------|
| AAP07     | petal collet SSKKA30DIN for electrospindles | 50  | 20 | 20,5 | 15° | 30° | 2,5 | SK 30      |
| AAP08     | petal collet SSKKA40DIN for electrospindles | 76  | 22 | 35,5 | 15° | 30° | 3,5 | SK 40      |
| AAP09     | petal collet SSKKA45DIN for electrospindles | 84  | 30 | 41,5 | 15° | 30° | 3,5 | SK 45      |
| AAP10     | petal collet SSKKA50DIN for electrospindles | 95  | 30 | 49,5 | 15° | 30° | 3,5 | SK 50      |
| AAP11     | petal collet SSKKA60DIN for electrospindles | 115 | 35 | 63,5 | 15° | 30° | 6,5 | SK 60      |

### PETAL COLLET FOR SSKIGA DIN69872/B TOOL HOLDERS



| Part code | Description                                  | A   | B  | C    | D   | E   | F    | Connection |
|-----------|--|-----|----|------|-----|-----|------|------------|
| AAP12     | petal collet SSKIGA40DIN for electrospindles | 76  | 11 | 34   | 15° | 30° | 5    | SK 40      |
| AAP13     | petal collet SSKIGA45DIN for electrospindles | 84  | 11 | 38   | 15° | 30° | 7    | SK 45      |
| AAP14     | petal collet SSKIGA50DIN for electrospindles | 95  | 11 | 45   | 15° | 30° | 8    | SK 50      |
| AAP15     | petal collet SSKIGA60DIN for electrospindles | 115 | 15 | 59,5 | 15° | 30° | 10,5 | SK 60      |

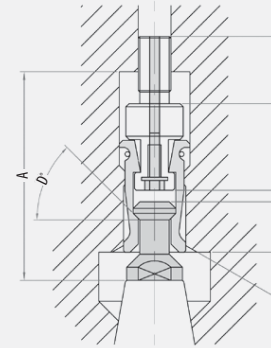
Petal Collets SK/BT/CAT



PETAL COLLET SSKIGKA DIN69872/B

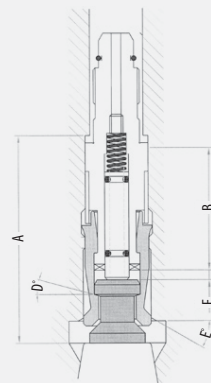
| Part code | Description                                   | A   | B  | C    | D   | E   | F   | Connection |
|-----------|---|-----|----|------|-----|-----|-----|------------|
| AAP16     | petal collet SSKIGKA40DIN for electrospindles | 76  | 11 | 35,5 | 15° | 30° | 4,5 | SK 40      |
| AAP17     | petal collet SSKIGKA45DIN for electrospindles | 84  | 11 | 41,5 | 15° | 30° | 4,5 | SK 45      |
| AAP18     | petal collet SSKIGKA50DIN for electrospindles | 95  | 11 | 49,5 | 15° | 30° | 5   | SK 50      |
| AAP19     | petal collet SSKIGKA60DIN for electrospindles | 115 | 15 | 63,5 | 15° | 30° | 6,5 | SK 60      |

| Part code | Description                                   | A  | D  | E  | F   | G    | Connection |
|-----------|---|----|----|----|-----|------|------------|
| AAQ05     | petal collet SSKIGKA30DIN for electrospindles | 69 | 15 | 30 | 3,5 | 41,5 | SK 30      |



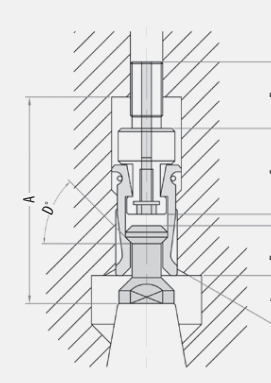
PETAL COLLET SSKA ANSI 7388/2B

| Part code | Description                                 | A   | B  | C    | D   | E   | F   | Connection |
|-----------|---|-----|----|------|-----|-----|-----|------------|
| AAP32     | petal collet SSKA30ANSI for electrospindles | 50  | 20 | 33   | 45° | 30° | 2,5 | SK 30      |
| AAP33     | petal collet SSKA40ANSI for electrospindles | 76  | 22 | 44,8 | 45° | 30° | 4,2 | SK 40      |
| AAP34     | petal collet SSKA45ANSI for electrospindles | 84  | 30 | 48   | 45° | 30° | 6   | SK 45      |
| AAP35     | petal collet SSKA50ANSI for electrospindles | 95  | 30 | 54,5 | 45° | 30° | 7   | SK 50      |
| AAP36     | petal collet SSKA60ANSI for electrospindles | 115 | 35 | 62   | 45° | 30° | 10  | SK 60      |



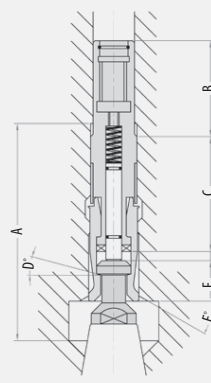
WATER TIGHT PETAL COLLET SSKIKA DIN69872/B

| Part code | Description                          | A   | B    | D   | E   | F   | Connection |
|-----------|--------------------------------------|-----|------|-----|-----|-----|------------|
| AAP20     | water tight petal collet SSKIKA40DIN | 85  | 52   | 15° | 30° | 4,5 | SK 40      |
| AAP21     | water tight petal collet SSKIKA45DIN | 100 | 60   | 15° | 30° | 4,5 | SK 45      |
| AAP22     | water tight petal collet SSKIKA50DIN | 114 | 68   | 15° | 30° | 5   | SK 50      |
| AAP23     | water tight petal collet SSKIKA60DIN | 145 | 90,5 | 15° | 30° | 6,5 | SK 60      |



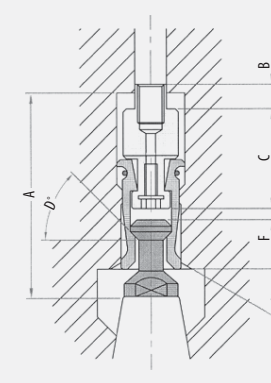
PETAL COLLET SSKKA ANSI 7388/2B

| Part code | Description                                  | A   | B  | C    | D   | E   | F   | Connection |
|-----------|--|-----|----|------|-----|-----|-----|------------|
| AAP37     | petal collet SSKKA30ANSI for electrospindles | 50  | 20 | -    | 45° | 30° | 4,5 | SK 30      |
| AAP38     | petal collet SSKKA40ANSI for electrospindles | 76  | 22 | 45,5 | 45° | 30° | 7   | SK 40      |
| AAP39     | petal collet SSKKA45ANSI for electrospindles | 84  | 30 | 50,5 | 45° | 30° | 7   | SK 45      |
| AAP40     | petal collet SSKKA50ANSI for electrospindles | 95  | 30 | 58   | 45° | 30° | 8   | SK 50      |
| AAP41     | petal collet SSKKA60ANSI for electrospindles | 115 | 35 | 65,4 | 45° | 30° | 15  | SK 60      |



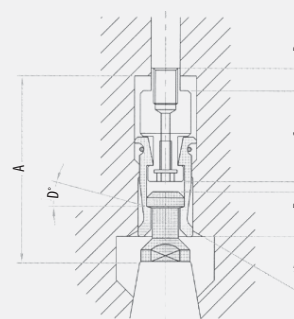
WATER TIGHT PETAL COLLET SSKIGIKA DIN69872/B

| Codice | Descrizione                            | A   | B  | C    | D   | E   | F    | Attacco |
|--------|--|-----|----|------|-----|-----|------|---------|
| AAP24  | water tight petal collet SSKIGIKA40DIN | 85  | 45 | 52   | 15° | 30° | 4    | SK 40   |
| AAP25  | water tight petal collet SSKIGIKA45DIN | 100 | 50 | 60   | 15° | 30° | 7    | SK 45   |
| AAP26  | water tight petal collet SSKIGIKA50DIN | 114 | 50 | 68   | 15° | 30° | 8    | SK 50   |
| AAP27  | water tight petal collet SSKIGIKA60DIN | 145 | 50 | 90,5 | 15° | 30° | 10,5 | SK 60   |



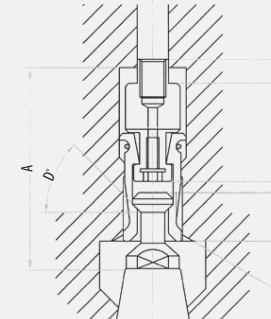
PETAL COLLET SSKIGA ANSI 7388/2B

| Part code | Description                                   | A   | B  | C    | D   | E   | F   | Connection |
|-----------|---|-----|----|------|-----|-----|-----|------------|
| AAP42     | petal collet SSKIGA40ANSI for electrospindles | 76  | 11 | 44,7 | 45° | 30° | 4,2 | SK 40      |
| AAP43     | petal collet SSKIGA45ANSI for electrospindles | 84  | 11 | 48   | 45° | 30° | 6   | SK 45      |
| AAP44     | petal collet SSKIGA50ANSI for electrospindles | 95  | 11 | 54,5 | 45° | 30° | 7   | SK 50      |
| AAP45     | petal collet SSKIGA60ANSI for electrospindles | 115 | 15 | 62   | 45° | 30° | 10  | SK 60      |



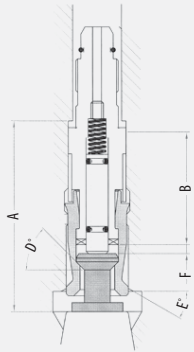
PETAL COLLET SSKIGKAPB DIN69872/B

| Codice | Descrizione                                     | A   | B  | C    | D   | E   | F   | Attacco |
|--------|---|-----|----|------|-----|-----|-----|---------|
| AAP28  | petal collet SSKIGKAPB40DIN for electrospindles | 82  | 11 | 40,5 | 15° | 30° | 4,5 | SK 40   |
| AAP29  | petal collet SSKIGKAPB45DIN for electrospindles | 89  | 11 | 46,5 | 15° | 30° | 4,5 | SK 45   |
| AAP30  | petal collet SSKIGKAPB50DIN for electrospindles | 90  | 15 | 52,5 | 15° | 30° | 5   | SK 50   |
| AAP31  | petal collet SSKIGKAPB60DIN for electrospindles | 130 | 15 | 78,5 | 15° | 30° | 6,5 | SK 60   |



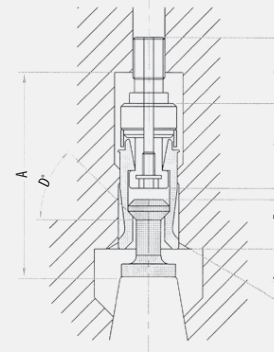
PETAL COLLET SSKIGKA ANSI 7388/2B

| Part code | Description                                    | A   | B  | C    | D   | E   | F   | Connection |
|-----------|--|-----|----|------|-----|-----|-----|------------|
| AAP46     | petal collet SSKIGKA40ANSI for electrospindles | 76  | 11 | 45,4 | 45° | 30° | 4,5 | SK 40      |
| AAP47     | petal collet SSKIGKA45ANSI for electrospindles | 84  | 11 | 50   | 45° | 30° | 4,5 | SK 45      |
| AAP48     | petal collet SSKIGKA50ANSI for electrospindles | 95  | 11 | 58   | 45° | 30° | 5   | SK 50      |
| AAP49     | petal collet SSKIGKA60ANSI for electrospindles | 115 | 15 | 65,4 | 45° | 30° | 6,5 | SK 60      |



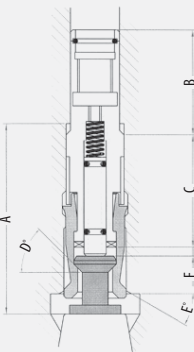
**WATER TIGHT PETAL COLLET SSKIKA ANSI 7388/2B**

| Part code    | Description                           | A   | B    | D   | E   | F   | Connection   |
|--------------|---------------------------------------|-----|------|-----|-----|-----|--------------|
| <b>AAP50</b> | water tight petal collet SSKIKA40ANSI | 85  | 61,6 | 45° | 30° | 4,5 | <b>SK 40</b> |
| <b>AAP51</b> | water tight petal collet SSKIKA45ANSI | 100 | 70   | 45° | 30° | 4,5 | <b>SK 45</b> |
| <b>AAP52</b> | water tight petal collet SSKIKA50ANSI | 114 | 77,5 | 45° | 30° | 5   | <b>SK 50</b> |
| <b>AAP53</b> | water tight petal collet SSKIKA60ANSI | 145 | 93   | 45° | 30° | 6,5 | <b>SK 60</b> |



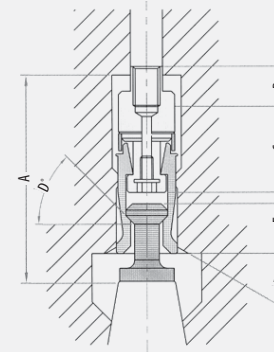
**PETAL COLLET SSKKABPT1**

| Part code    | Description                                  | A     | B  | C    | D   | E   | F   | Connection   |
|--------------|--|-------|----|------|-----|-----|-----|--------------|
| <b>AAP67</b> | petal collet SSKKA30BPT1 for electrospindles | 48,5  | 20 | 21,5 | 45° | 30° | 2,5 | <b>BT 30</b> |
| <b>AAP68</b> | petal collet SSKKA40BPT1 for electrospindles | 72    | 26 | 31,5 | 45° | 30° | 3,5 | <b>BT 40</b> |
| <b>AAP69</b> | petal collet SSKKA45BPT1 for electrospindles | 82    | 32 | 36,5 | 45° | 30° | 3,5 | <b>BT 45</b> |
| <b>AAP70</b> | petal collet SSKKA50BPT1 for electrospindles | 92,5  | 35 | 41   | 45° | 30° | 4   | <b>BT 50</b> |
| <b>AAP71</b> | petal collet SSKKA60BPT1 for electrospindles | 127,5 | 40 | 55,5 | 45° | 30° | 4,5 | <b>BT 60</b> |



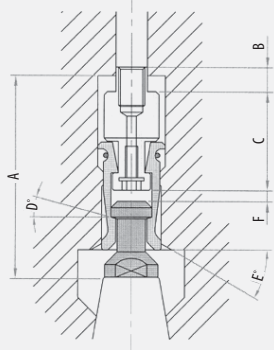
**WATER TIGHT PETAL COLLET SSKIGIKA ANSI 7388/2B**

| Part code    | Description                                     | A   | B  | C    | D   | E   | F  | Connection   |
|--------------|---|-----|----|------|-----|-----|----|--------------|
| <b>AAP54</b> | petal collet SSKIGIKA40ANSI for electrospindles | 85  | 45 | 61,6 | 45° | 30° | 4  | <b>SK 40</b> |
| <b>AAP55</b> | petal collet SSKIGIKA45ANSI for electrospindles | 100 | 50 | 70   | 45° | 30° | 6  | <b>SK 45</b> |
| <b>AAP56</b> | petal collet SSKIGIKA50ANSI for electrospindles | 114 | 50 | 77,5 | 45° | 30° | 7  | <b>SK 50</b> |
| <b>AAP57</b> | petal collet SSKIGIKA60ANSI for electrospindles | 145 | 50 | 93   | 45° | 30° | 10 | <b>SK 60</b> |



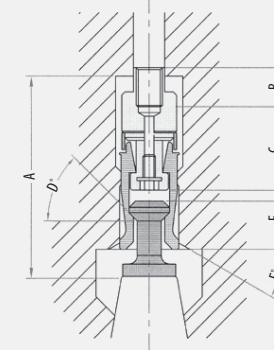
**PETAL COLLET SSKIGABPT1**

| Part code    | Description                                   | A     | B  | C    | D   | E   | F    | Connection   |
|--------------|---|-------|----|------|-----|-----|------|--------------|
| <b>AAP72</b> | petal collet SSKIGA40BPT1 for electrospindles | 72    | 11 | 30   | 45° | 30° | 5    | <b>BT 40</b> |
| <b>AAP73</b> | petal collet SSKIGA45BPT1 for electrospindles | 82    | 11 | 33   | 45° | 30° | 7    | <b>BT 45</b> |
| <b>AAP74</b> | petal collet SSKIGA50BPT1 for electrospindles | 92,5  | 15 | 37   | 45° | 30° | 8    | <b>BT 50</b> |
| <b>AAP75</b> | petal collet SSKIGA60BPT1 for electrospindles | 127,5 | 15 | 49,5 | 45° | 30° | 10,5 | <b>BT 60</b> |



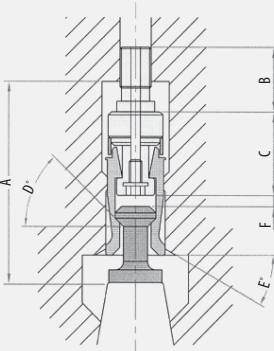
**PETAL COLLET SSKIGKAPB ANSI 7388/2B**

| Part code    | Description                                      | A   | B  | C    | D   | E   | F   | Connection   |
|--------------|--|-----|----|------|-----|-----|-----|--------------|
| <b>AAP58</b> | petal collet SSKIGKAPB40ANSI for electrospindles | 82  | 11 | 50,5 | 45° | 30° | 4,5 | <b>SK 40</b> |
| <b>AAP59</b> | petal collet SSKIGKAPB45ANSI for electrospindles | 89  | 11 | 55,5 | 45° | 30° | 4,5 | <b>SK 45</b> |
| <b>AAP60</b> | petal collet SSKIGKAPB50ANSI for electrospindles | 90  | 15 | 61   | 45° | 30° | 5   | <b>SK 50</b> |
| <b>AAP61</b> | petal collet SSKIGKAPB60ANSI for electrospindles | 130 | 15 | 82,4 | 45° | 30° | 6,5 | <b>SK 60</b> |



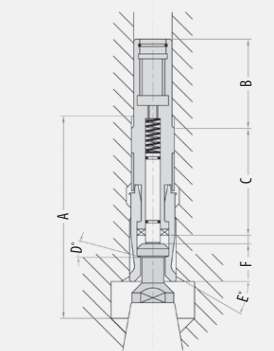
**PETAL COLLET SSKIGKABPT1**

| Part code    | Description                                   | A     | B  | C    | D   | E   | F   | Connection   |
|--------------|---|-------|----|------|-----|-----|-----|--------------|
| <b>AAP76</b> | petal collet SSKIGA40BPT1 for electrospindles | 72    | 11 | 31,5 | 45° | 30° | 3,5 | <b>BT 40</b> |
| <b>AAP77</b> | petal collet SSKIGA45BPT1 for electrospindles | 82    | 11 | 36,5 | 45° | 30° | 3,5 | <b>BT 45</b> |
| <b>AAP78</b> | petal collet SSKIGA50BPT1 for electrospindles | 92,5  | 15 | 41   | 45° | 30° | 4   | <b>BT 50</b> |
| <b>AAP79</b> | petal collet SSKIGA60BPT1 for electrospindles | 127,5 | 15 | 55,5 | 45° | 30° | 4,5 | <b>BT 60</b> |



**PETAL COLLET SSKABPT1**

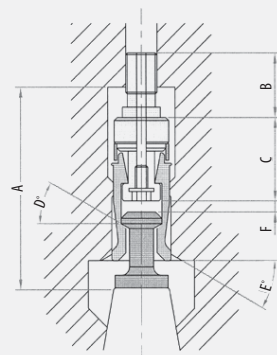
| Part code    | Description                                 | A     | B  | C    | D   | E   | F    | Connection   |
|--------------|---|-------|----|------|-----|-----|------|--------------|
| <b>AAP62</b> | petal collet SSKA30BPT1 for electrospindles | 48,5  | 20 | 20,5 | 45° | 30° | 3,5  | <b>BT 30</b> |
| <b>AAP63</b> | petal collet SSKA40BPT1 for electrospindles | 72    | 26 | 30   | 45° | 30° | 5    | <b>BT 40</b> |
| <b>AAP64</b> | petal collet SSKA45BPT1 for electrospindles | 82    | 32 | 33   | 45° | 30° | 7    | <b>BT 45</b> |
| <b>AAP65</b> | petal collet SSKA50BPT1 for electrospindles | 92,5  | 35 | 37   | 45° | 30° | 8    | <b>BT 50</b> |
| <b>AAP66</b> | petal collet SSKA60BPT1 for electrospindles | 127,5 | 15 | 49,5 | 45° | 30° | 10,5 | <b>BT 60</b> |



**WATER TIGHT PETAL COLLET SSKIGIKABPT1**

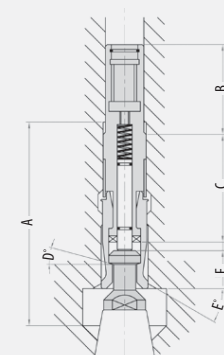
| Part code    | Description   | A   | B  | C  | D   | E   | F | Connection   |
|--------------|---|-----|----|----|-----|-----|---|--------------|
| <b>AAP80</b> | water tight petal collet SSKIGIKA40BPT1 for electrospindles | 85  | 45 | 52 | 45° | 30° | 4 | <b>BT 40</b> |
| <b>AAP81</b> | water tight petal collet SSKIGIKA40BPT1 for electrospindles | 114 | 50 | 68 | 45° | 30° | 8 | <b>BT 50</b> |





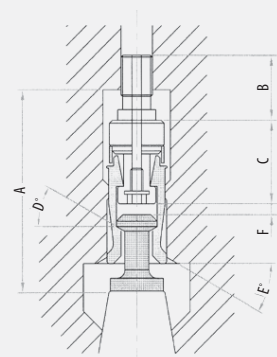
**PETAL COLLET SSKABPT2**

| Part code    | Description                                 | A     | B  | C    | D   | E   | F    | Connection  |
|--------------|---|-------|----|------|-----|-----|------|-------------|
| <b>AAP82</b> | petal collet SSKA30BPT2 for electrospindles | 48,5  | 20 | 20,5 | 30° | 30° | 3,5  | <b>BT30</b> |
| <b>AAP83</b> | petal collet SSKA40BPT2 for electrospindles | 72    | 26 | 30   | 30° | 30° | 5    | <b>BT40</b> |
| <b>AAP84</b> | petal collet SSKA45BPT2 for electrospindles | 82    | 32 | 33   | 30° | 30° | 7    | <b>BT45</b> |
| <b>AAP85</b> | petal collet SSKA50BPT2 for electrospindles | 92,5  | 35 | 37   | 30° | 30° | 8    | <b>BT50</b> |
| <b>AAP86</b> | petal collet SSKA60BPT2 for electrospindles | 127,5 | 40 | 49,5 | 30° | 30° | 10,5 | <b>BT60</b> |



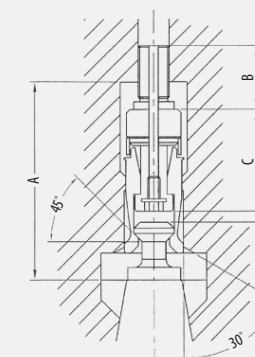
**WATER TIGHT PETAL COLLET SSKIGIKABPT2**

| Part code    | Description                             | A   | B  | C  | D   | E   | F | Connection  |
|--------------|---|-----|----|----|-----|-----|---|-------------|
| <b>AAQ00</b> | water tight petal collet SSKIGIKA40BPT2 | 85  | 45 | 52 | 30° | 30° | 4 | <b>BT40</b> |
| <b>AAQ01</b> | water tight petal collet SSKIGIKA50BPT2 | 114 | 50 | 68 | 30° | 30° | 8 | <b>BT50</b> |



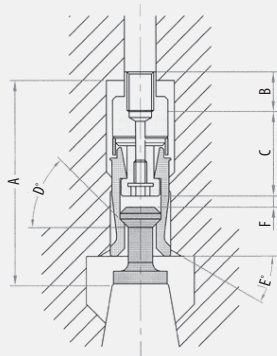
**PETAL COLLET SSKKABPT2**

| Part code    | Description                                  | A     | B  | C    | D   | E   | F   | Connection  |
|--------------|--|-------|----|------|-----|-----|-----|-------------|
| <b>AAP87</b> | petal collet SSKKA30BPT2 for electrospindles | 48,5  | 20 | 21,5 | 30° | 30° | 2,5 | <b>BT30</b> |
| <b>AAP88</b> | petal collet SSKKA40BPT2 for electrospindles | 72    | 26 | 31,5 | 30° | 30° | 3,5 | <b>BT40</b> |
| <b>AAP89</b> | petal collet SSKKA45BPT2 for electrospindles | 82    | 32 | 36,5 | 30° | 30° | 3,5 | <b>BT45</b> |
| <b>AAP90</b> | petal collet SSKKA50BPT2 for electrospindles | 92,5  | 35 | 41   | 30° | 30° | 4   | <b>BT50</b> |
| <b>AAP91</b> | petal collet SSKKA60BPT2 for electrospindles | 127,5 | 40 | 55,5 | 30° | 30° | 4,5 | <b>BT60</b> |



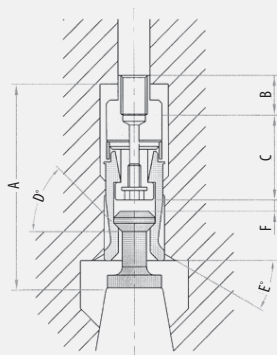
**WATER TIGHT PETAL COLLET SSKACAT**

| Part code    | Description                                | A  | B  | C  | F   | Connection   |
|--------------|--|----|----|----|-----|--------------|
| <b>AAQ02</b> | petal collet SSKA30CAT for electrospindles | 50 | 20 | 33 | 2,5 | <b>CAT30</b> |
| <b>AAQ03</b> | petal collet SSKA40CAT for electrospindles | 82 | 26 | 50 | 4   | <b>CAT40</b> |
| <b>AAQ04</b> | petal collet SSKA50CAT for electrospindles | 98 | 35 | 58 | 6,5 | <b>CAT50</b> |



**PETAL COLLET SSKIGABPT2**

| Part code    | Description                                   | A     | B  | C    | D   | E   | F    | Connection  |
|--------------|---|-------|----|------|-----|-----|------|-------------|
| <b>AAP92</b> | petal collet SSKIGA40BPT2 for electrospindles | 72    | 11 | 30   | 30° | 30° | 5    | <b>BT40</b> |
| <b>AAP93</b> | petal collet SSKIGA45BPT2 for electrospindles | 82    | 11 | 33   | 30° | 30° | 7    | <b>BT45</b> |
| <b>AAP94</b> | petal collet SSKIGA50BPT2 for electrospindles | 92,5  | 15 | 37   | 30° | 30° | 8    | <b>BT50</b> |
| <b>AAP95</b> | petal collet SSKIGA60BPT2 for electrospindles | 127,5 | 15 | 49,5 | 30° | 30° | 10,5 | <b>BT60</b> |



**PETAL COLLET SSKIGKABPT2**

| Part code    | Description                                    | A     | B  | C    | D   | E   | F   | Connection  |
|--------------|--|-------|----|------|-----|-----|-----|-------------|
| <b>AAP96</b> | petal collet SSKIGKA40BPT2 for electrospindles | 72    | 11 | 31,5 | 30° | 30° | 3,5 | <b>BT40</b> |
| <b>AAP97</b> | petal collet SSKIGKA45BPT2 for electrospindles | 82    | 11 | 36,5 | 30° | 30° | 3,5 | <b>BT45</b> |
| <b>AAP98</b> | petal collet SSKIGKA50BPT2 for electrospindles | 92,5  | 15 | 41   | 30° | 30° | 4   | <b>BT50</b> |
| <b>AAP99</b> | petal collet SSKIGKA60BPT2 for electrospindles | 127,5 | 15 | 55,5 | 30° | 30° | 4,5 | <b>BT60</b> |

IMS spindle adapters are used to adapt your working center to the same connection parameters of a different machine. They are particularly useful for tool manufacturing or refurbishing.

**SK SPINDLE ADAPTERS**



| Part code | Description        | from             | to           |
|-----------|--------------------|------------------|--------------|
| AAS02     | sk spindle adapter | SK40 DIN 69871   | HSK85S       |
| AAS04     | sk spindle adapter | SK50 DIN 69871/A | HSK63F       |
| AAS09     | sk spindle adapter | SK50 DIN 69871/A | HSK85 Weinig |
| AAS11     | sk spindle adapter | SK50 DIN 69871/A | HSK80A       |
| AAS12     | sk spindle adapter | SK40 DIN 2080    | HSK50A/C     |

**HSK SPINDLE ADAPTERS**



| Part code | Description         | from   | to     |
|-----------|---------------------|--------|--------|
| AAS07     | hsk spindle adapter | HSK63A | HSK63F |
| AAS10     | hsk spindle adapter | HSK80A | HSK63A |

**ASA SPINDLE ADAPTERS**



| Part code | Description         | from               | to      |
|-----------|---------------------|--------------------|---------|
| AAS01     | asa spindle adapter | flanged connection | HSK100A |
| AAS06     | asa spindle adapter | flanged connection | HSK63B  |
| AAS08     | asa spindle adapter | flanged connection | HSK63E  |

**MORSE CONE SPINDLE ADAPTERS**



| Part code | Description                | from   | to       |
|-----------|----------------------------|--------|----------|
| AAS03     | morse cone spindle adapter | CM 4 F | HSK63A/C |

## Standard Wrenches for collet nuts

IMS standard wrenches are the simplest and most affordable collet nut tightening systems. Thanks to their rubber handle they provide a firm grip and allow for stronger torque application.



### HOOK WRENCH FOR ER/ETS COLLET NUT

| Part code | Description                | ER/ETS    | D Collet nut |
|-----------|----------------------------|-----------|--------------|
| AAE00     | hook wrench for collet nut | ER/ETS 25 | 42           |
| AAE01     | hook wrench for collet nut | ER/ETS 32 | 50           |
| AAE02     | hook wrench for collet nut | ER/ETS 40 | 63           |



### HOOK WRENCH FOR EOC COLLET NUT

| Part code | Description                | EOC    | D Collet nut |
|-----------|----------------------------|--------|--------------|
| AAE41     | hook wrench for collet nut | EOC 10 | 30           |
| AAE42     | hook wrench for collet nut | EOC 12 | 35           |
| AAE43     | hook wrench for collet nut | EOC 16 | 43           |
| AAE44     | hook wrench for collet nut | EOC 20 | 50           |
| AAE45     | hook wrench for collet nut | EOC 25 | 60           |
| AAE46     | hook wrench for collet nut | EOC 32 | 72           |
| AAE47     | hook wrench for collet nut | EOC 40 | 85           |



### WRENCH FOR STANDARD ER/ETS COLLET NUT

| Part code | Description           | ER/ETS    | D Collet nut |
|-----------|-----------------------|-----------|--------------|
| AAE04     | wrench for collet nut | ER/ETS 16 | 32           |
| AAE05     | wrench for collet nut | ER/ETS 20 | 35           |
| AAE06     | wrench for collet nut | ER/ETS 25 | 42           |
| AAE07     | wrench for collet nut | ER/ETS 32 | 50           |
| AAE08     | wrench for collet nut | ER/ETS 40 | 63           |



### WRENCH FOR GHIERE ER MINI COLLET NUT

| Part code | Description                | ER    | D Collet nut |
|-----------|----------------------------|-------|--------------|
| AAE09     | wrench for mini collet nut | ER 8  | 12           |
| AAE10     | wrench for mini collet nut | ER 11 | 16           |
| AAE11     | wrench for mini collet nut | ER 16 | 22           |
| AAE12     | wrench for mini collet nut | ER 20 | 28           |
| AAE13     | wrench for mini collet nut | ER 25 | 35           |

## Torque wrenches for collet nuts

IMS Torque Wrenches are essential instruments for the correct setting of the tool. They contribute in increasing the cut precision, improving the safety, and extending collets and collet nuts life. Thanks to the spring-loaded system, the torque applied during tool setting is ideal to avoid both damage to the components and excessive looseness of the tool.



### TORQUE WRENCH FOR ER MINI COLLET NUT

| Part code | Description                       | ER    | D Collet nut | H   |
|-----------|-----------------------------------|-------|--------------|-----|
| AAE14     | torque wrench for mini collet nut | ER 8  | 12           | 117 |
| AAE15     | torque wrench for mini collet nut | ER 11 | 16           | 160 |
| AAE16     | torque wrench for mini collet nut | ER 16 | 22           | 175 |
| AAE17     | torque wrench for mini collet nut | ER 20 | 28           | 180 |
| AAE18     | torque wrench for mini collet nut | ER 25 | 35           | 185 |



### TORQUE WRENCH FOR ER COLLET NUT

| Part code | Description                       | ER    | D Collet nut | H   |
|-----------|-----------------------------------|-------|--------------|-----|
| AAE19     | standard torque wrench collet nut | ER 16 | 32           | 300 |
| AAE20     | standard torque wrench collet nut | ER 20 | 35           | 300 |
| AAE21     | standard torque wrench collet nut | ER 25 | 42           | 470 |
| AAE22     | standard torque wrench collet nut | ER 32 | 50           | 470 |
| AAE23     | standard torque wrench collet nut | ER 40 | 63           | 470 |
| AAE24     | standard torque wrench collet nut | ER 50 | 78           | 470 |



### TORQUE WRENCH FOR ER HEX COLLET NUT

| Part code | Description                      | HEX Collect nut | H   |
|-----------|----------------------------------|-----------------|-----|
| AAE25     | torque wrench for hex collet nut | HEX 14          | 161 |
| AAE26     | torque wrench for hex collet nut | HEX 17          | 168 |
| AAE27     | torque wrench for hex collet nut | HEX 22          | 194 |
| AAE28     | torque wrench for hex collet nut | HEX 25          | 324 |
| AAE29     | torque wrench for hex collet nut | HEX 30          | 330 |



### ROLL BEARINGS TORQUE WRENCH FOR HIGH SPEED ER MINI COLLET NUT

| Part code | Description  | ER    | D Collet nut | H   |
|-----------|--|-------|--------------|-----|
| AAE30     | roll bearings torque wrench for high speed mini collet nut | ER 8  | 12           | 117 |
| AAE31     | roll bearings torque wrench for high speed mini collet nut | ER 11 | 16           | 160 |
| AAE32     | roll bearings torque wrench for high speed mini collet nut | ER 16 | 22           | 175 |
| AAE33     | roll bearings torque wrench for high speed mini collet nut | ER 20 | 28           | 180 |
| AAE34     | roll bearings torque wrench for high speed mini collet nut | ER 25 | 35           | 185 |

Torque wrenches for collet nuts



ROLL BEARINGS TORQUE WRENCH FOR HIGH SPEED ER COLLET NUT

| Part code | Description   | ER    | D Collet nut | H   |
|-----------|---|-------|--------------|-----|
| AAE35     | roll bearings torque wrench for high speed collet nut | ER 16 | 32           | 300 |
| AAE36     | roll bearings torque wrench for high speed collet nut | ER 20 | 35           | 300 |
| AAE37     | roll bearings torque wrench for high speed collet nut | ER 25 | 42           | 470 |
| AAE38     | roll bearings torque wrench for high speed collet nut | ER 32 | 50           | 470 |
| AAE39     | roll bearings torque wrench for high speed collet nut | ER 40 | 63           | 470 |
| AAE40     | roll bearings torque wrench for high speed collet nut | ER 50 | 78           | 470 |



HOOK TORQUE WRENCH FOR EOC COLLET NUT

| Part code | Description                       | EOC    | D Collet nut |
|-----------|-----------------------------------|--------|--------------|
| AAE57     | hook torque wrench for collet nut | EOC 25 | 60           |

Keys for components



HSK COOLANT TUBES KEY

| Part code | Descrizione       | HSK                       | D    |
|-----------|-------------------|---------------------------|------|
| AAE48     | coolant tubes key | HSK 25 A-C-E / 32 B-D-F   | 6,5  |
| AAE49     | coolant tubes key | HSK 32 A-C-E / 40 B-D-F   | 8,5  |
| AAE50     | coolant tubes key | HSK 40 A-C-E / 50 B-D-F   | 10,5 |
| AAE51     | coolant tubes key | HSK 50 A-C-E / 63 B-D-F   | 14,5 |
| AAE52     | coolant tubes key | HSK 63 A-C-E / 80 B-D-F   | 16,5 |
| AAE53     | coolant tubes key | HSK 80 A-C-E / 100 B-D-F  | 18   |
| AAE54     | coolant tubes key | HSK 100 A-C-E / 125 B-D-F | 22   |
| AAE55     | coolant tubes key | HSK 125 A-C-E             | 26   |
| AAE56     | coolant tubes key | HSK 160 A-C-E             | 30   |



DRIVE KEY FOR BALL CLAMPING SYSTEM

| Part code | Descrizione                        | SK    |
|-----------|------------------------------------|-------|
| AAE58     | drive key for ball clamping system | SK 10 |
| AAE59     | drive key for ball clamping system | SK 15 |
| AAE60     | drive key for ball clamping system | SK 20 |
| AAE61     | drive key for ball clamping system | SK 25 |
| AAE62     | drive key for ball clamping system | SK 30 |
| AAE63     | drive key for ball clamping system | SK 40 |

## Tool Clampers and Spindle Shank Wipers

Safety device for mounting tools on tool holders. It guarantees ease of use and stability during opening and tightening of collet nuts. The roll bearings system distribute torque on all the perimeter of the flange without damaging it.



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### TOOL CLAMPER 90° ANGLE

| Part code | Description  | Flange d | Connection  |
|-----------|--------------|----------|---|
| AAA00     | tool clamber | 20       | SK 10-SK 15                                       |
| AAA01     | tool clamber | 25       | HSK 25  |
| AAA02     | tool clamber | 30       | SK 20   |
| AAA03     | tool clamber | 32       | HSK32   |
| AAA04     | tool clamber | 38       | SK 25   |
| AAA05     | tool clamber | 40       | HSK 40  |
| AAA06     | tool clamber | 46       | SK 30 "CMS" - BT 30                               |
| AAA07     | tool clamber | 50       | SK 30 - HSK 50 - CAPTO 5                          |
| AAA08     | tool clamber | 53       | SK 35 - BT 35                                     |
| AAA09     | tool clamber | 57       | SK 30 "THERMWOOD"                                 |
| AAA10     | tool clamber | 63       | HSK 63 - SK 40 - BT 40<br>CAT 40 - CAPTO 9 - KM63 |
| AAA11     | tool clamber | 80       | HSK 80 - CAPTO 8                                  |
| AAA12     | tool clamber | 85       | HSK "WEINIG" - HSK 85 "SCM"<br>HSK "CELASCHI"     |
| AAA13     | tool clamber | 97,5     | SK 50   |
| AAA14     | tool clamber | 100      | HSK 100 - BT 50 - CAT 50                          |
| AAA15     | tool clamber | 125      | HSK 125   |
| AAA16     | tool clamber | 160      | HSK 160 - SK 160                                  |
| AAA17     | tool clamber | 63       | SK 40 Intermac                                    |

The regular use of spindle shank wipers increases considerably the life of tool holders, prevents damages to the electrospindle due to the accumulation of residues and improves the torque between the cone and its housing.



### SPINDLE SHANK WIPERS

| Part code | Description         | Connection |
|-----------|---------------------|------------|
| AAB00     | spindle shank wiper | SK20       |
| AAB01     | spindle shank wiper | SK25       |
| AAB02     | spindle shank wiper | SK30       |
| AAB03     | spindle shank wiper | SK40       |
| AAB04     | spindle shank wiper | SK50       |
| AAB05     | spindle shank wiper | HSK25E     |
| AAB06     | spindle shank wiper | HSK32E     |
| AAB07     | spindle shank wiper | HSK40A     |
| AAB08     | spindle shank wiper | HSK40E     |
| AAB09     | spindle shank wiper | HSK40F     |
| AAB10     | spindle shank wiper | HSK50A     |
| AAB11     | spindle shank wiper | HSK50E     |
| AAB12     | spindle shank wiper | HSK50F     |
| AAB13     | spindle shank wiper | HSK63A     |
| AAB14     | spindle shank wiper | HSK63E     |
| AAB15     | spindle shank wiper | HSK63F     |
| AAB16     | spindle shank wiper | HSK80A     |
| AAB17     | spindle shank wiper | HSK80E     |
| AAB18     | spindle shank wiper | HSK80B-F   |
| AAB19     | spindle shank wiper | HSK100A    |

## Plastic forks for CNC machine

The IMS forks are designed to withstand the mechanical stress generated by the tool change operation. The elasticity of the acrylic resin body provides a flexible and totally reversible deformation, while the stainless steel reinforcement plate provides the right strength and load resistance.



### PLASTIC FORKS FOR CNC MACHINE

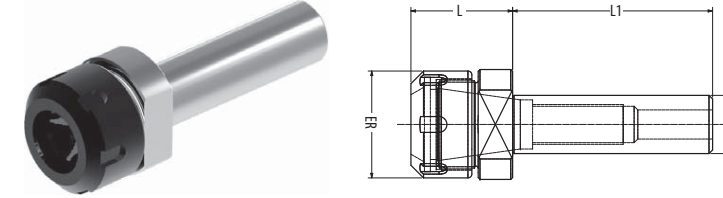
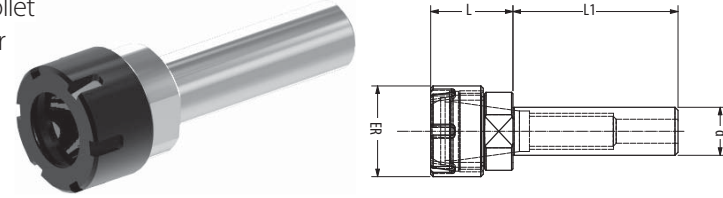
| Part code | Description                                   | Connection |
|-----------|---|------------|
| AAL00     | fork "Colombo & Giordano"                     | SK 20      |
| AAL01     | fork "Biesse"/"HSD"                           | SK 30      |
| AAL02     | fork "Intermac"                               | SK 40      |
| AAL03     | fork "Bimatech"                               | SK 40      |
| AAL04     | fork "CMS"                                    | SK 40      |
| AAL05     | fork "Bavelloni"                              | SK 40      |
| AAL06     | fork DIN 69871                                | SK 40      |
| AAL08     | fork DIN 69871                                | SK 50      |
| AAL09     | fork "Thibaut"                                | BT 40      |
| AAL10     | fork "HSD"                                    | HSK 25 E   |
| AAL11     | fork "Colombo & Giordano"                     | HSK 40 E   |
| AAL12     | fork "Biesse"/"HSD"                           | HSK 63 F   |
| AAL13     | fork "Breton"                                 | HSK 80 B   |
| AAL14     | fork "Biesse/HSD" without reinforcement plate | HSK 63 F   |
| AAL15     | fork "Intermac" without reinforcement plate   | SK 40      |
| AAL16     | fork "Biesse/HSD" without reinforcement plate | SK 30      |
| AAL19     | fork "SKG"                                    | SK 30      |
| AAL20     | fork "Vertmax"/"Busetti"                      | SK 40      |
| AAL21     | fork "Denver"                                 | BT 40      |
| AAL23     | fork SK30                                     | SK 30      |
| AAL24     | fork HSK100A                                  | HSK 100 A  |

# Collet Chuck Extensions DIN 1835/A

The IMS collect chuck extesions are excellent for deep operations that need the versatility of a collet chuck system. The "Mini" version provides lower encumbrances



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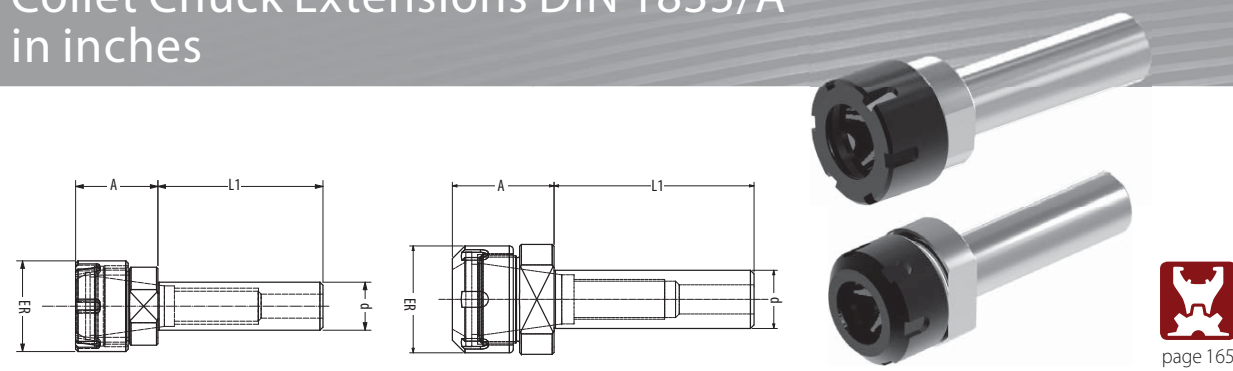
COLLET CHUCK EXTENSIONS WITH ER MINI NUT

| ER8       |    |    |     | ER11      |    |    |     | ER16      |    |    |     | ER20      |    |    |     | ER25      |    |    |     |
|-----------|----|----|-----|-----------|----|----|-----|-----------|----|----|-----|-----------|----|----|-----|-----------|----|----|-----|
| Part code | A  | d  | L1  | Part code | A  | d  | L1  | Part code | A  | d  | L1  | Part code | A  | d  | L1  | Part code | A  | d  | L1  |
| AA000     | 24 | 8  | 55  | AA012     | 25 | 8  | 55  | AA036     | 37 | 10 | 80  | AA057     | 37 | 12 | 100 | AA074     | 46 | 20 | 60  |
| AA001     | 24 | 8  | 80  | AA013     | 25 | 8  | 100 | AA037     | 37 | 10 | 100 | AA058     | 40 | 16 | 50  | AA075     | 46 | 20 | 100 |
| AA002     | 24 | 8  | 100 | AA014     | 15 | 10 | 55  | AA038     | 37 | 12 | 55  | AA059     | 40 | 16 | 100 | AA076     | 46 | 20 | 130 |
| AA003     | 24 | 8  | 130 | AA015     | 15 | 10 | 80  | AA039     | 37 | 12 | 80  | AA060     | 40 | 16 | 130 | AA077     | 46 | 20 | 160 |
| AA004     | 24 | 10 | 55  | AA016     | 15 | 10 | 100 | AA040     | 37 | 16 | 80  | AA061     | 40 | 16 | 160 | AA078     | 28 | 25 | 50  |
| AA005     | 24 | 10 | 80  | AA017     | 15 | 10 | 130 | AA041     | 37 | 16 | 100 | AA062     | 37 | 20 | 80  | AA079     | 28 | 25 | 100 |
| AA006     | 24 | 10 | 100 | AA018     | 15 | 12 | 55  | AA042     | 37 | 16 | 130 | AA063     | 37 | 20 | 100 | AA080     | 28 | 25 | 130 |
| AA007     | 24 | 10 | 130 | AA019     | 15 | 12 | 80  | AA043     | 37 | 16 | 160 | AA064     | 37 | 20 | 130 | AA081     | 28 | 25 | 160 |
| AA008     | 15 | 12 | 55  | AA020     | 15 | 12 | 100 | AA044     | 37 | 16 | 200 | AA065     | 37 | 20 | 160 | AA082     | 28 | 25 | 200 |
| AA009     | 15 | 12 | 80  | AA021     | 15 | 12 | 140 | AA045     | 30 | 20 | 80  | AA066     | 37 | 20 | 200 |           |    |    |     |
| AA010     | 15 | 12 | 100 | AA022     | 15 | 16 | 60  | AA046     | 30 | 20 | 100 | AA067     | 37 | 20 | 250 |           |    |    |     |
| AA011     | 15 | 12 | 140 | AA023     | 15 | 16 | 80  | AA047     | 30 | 20 | 130 | AA068     | 28 | 25 | 60  |           |    |    |     |
|           |    |    |     | AA024     | 15 | 16 | 100 | AA048     | 30 | 20 | 160 | AA069     | 28 | 25 | 100 |           |    |    |     |
|           |    |    |     | AA025     | 15 | 16 | 130 | AA049     | 30 | 20 | 200 | AA070     | 28 | 25 | 130 |           |    |    |     |
|           |    |    |     | AA026     | 15 | 16 | 160 | AA050     | 30 | 20 | 250 | AA071     | 28 | 25 | 160 |           |    |    |     |
|           |    |    |     | AA027     | 15 | 16 | 200 | AA051     | 27 | 25 | 60  | AA072     | 28 | 25 | 200 |           |    |    |     |
|           |    |    |     | AA028     | 15 | 20 | 50  | AA052     | 27 | 25 | 100 | AA073     | 28 | 32 | 90  |           |    |    |     |
|           |    |    |     | AA029     | 15 | 20 | 100 | AA053     | 27 | 25 | 130 |           |    |    |     |           |    |    |     |
|           |    |    |     | AA030     | 15 | 20 | 130 | AA054     | 27 | 25 | 160 |           |    |    |     |           |    |    |     |
|           |    |    |     | AA031     | 15 | 20 | 160 | AA055     | 27 | 25 | 200 |           |    |    |     |           |    |    |     |
|           |    |    |     | AA032     | 15 | 20 | 200 | AA056     | 27 | 32 | 90  |           |    |    |     |           |    |    |     |
|           |    |    |     | AA033     | 15 | 25 | 100 |           |    |    |     |           |    |    |     |           |    |    |     |
|           |    |    |     | AA034     | 15 | 25 | 130 |           |    |    |     |           |    |    |     |           |    |    |     |
|           |    |    |     | AA035     | 15 | 25 | 160 |           |    |    |     |           |    |    |     |           |    |    |     |

COLLET CHUCK EXTENSIONS WITH ER NUT

| ER16      |    |    |     | ER20      |    |    |     | ER25      |    |    |     | ER32      |    |    |     | ER40      |    |    |     |
|-----------|----|----|-----|-----------|----|----|-----|-----------|----|----|-----|-----------|----|----|-----|-----------|----|----|-----|
| Part code | A  | d  | L1  | Part code | A  | d  | L1  | Part code | A  | d  | L1  | Part code | A  | d  | L1  | Part code | A  | d  | L1  |
| AA083     | 36 | 16 | 50  | AA093     | 40 | 16 | 50  | AA106     | 27 | 16 | 50  | AA123     | 27 | 16 | 50  | AA145     | 60 | 25 | 50  |
| AA084     | 36 | 16 | 100 | AA094     | 40 | 16 | 100 | AA107     | 27 | 16 | 100 | AA124     | 27 | 16 | 100 | AA146     | 60 | 25 | 100 |
| AA085     | 31 | 20 | 80  | AA095     | 36 | 20 | 50  | AA108     | 28 | 20 | 50  | AA125     | 28 | 20 | 50  | AA147     | 60 | 30 | 50  |
| AA086     | 27 | 25 | 50  | AA096     | 36 | 20 | 100 | AA109     | 28 | 20 | 100 | AA126     | 28 | 20 | 100 | AA148     | 60 | 32 | 50  |
| AA087     | 27 | 25 | 100 | AA097     | 36 | 20 | 130 | AA110     | 28 | 20 | 130 | AA127     | 28 | 20 | 130 | AA149     | 60 | 32 | 100 |
| AA088     | 27 | 25 | 130 | AA098     | 36 | 20 | 160 | AA111     | 28 | 20 | 160 | AA128     | 28 | 20 | 160 | AA150     | 60 | 32 | 130 |
| AA089     | 27 | 25 | 160 | AA099     | 36 | 20 | 200 | AA112     | 36 | 22 | 50  | AA129     | 28 | 22 | 50  | AA151     | 30 | 40 | 50  |
| AA090     | 27 | 25 | 200 | AA100     | 28 | 25 | 50  | AA113     | 36 | 22 | 80  | AA130     | 28 | 25 | 50  | AA152     | 30 | 40 | 80  |
| AA091     | 27 | 32 | 100 | AA101     | 28 | 25 | 100 | AA114     | 36 | 25 | 50  | AA131     | 28 | 25 | 100 | AA153     | 30 | 40 | 130 |
| AA092     | 27 | 32 | 150 | AA102     | 28 | 25 | 130 | AA115     | 32 | 25 | 100 | AA132     | 28 | 25 | 130 | AA154     | 37 | 50 | 125 |
|           |    |    |     | AA103     | 28 | 25 | 160 | AA116     | 32 | 25 | 130 | AA133     | 28 | 25 | 160 | AA155     | 37 | 50 | 160 |
|           |    |    |     | AA104     | 28 | 32 | 100 | AA117     | 32 | 25 | 160 | AA134     | 45 | 30 | 50  |           |    |    |     |
|           |    |    |     | AA105     | 28 | 32 | 150 | AA118     | 45 | 30 | 50  | AA135     | 38 | 32 | 50  |           |    |    |     |
|           |    |    |     |           |    |    |     | AA119     | 28 | 32 | 100 | AA136     | 38 | 32 | 100 |           |    |    |     |
|           |    |    |     |           |    |    |     | AA120     | 28 | 32 | 120 | AA137     | 38 | 32 | 120 |           |    |    |     |
|           |    |    |     |           |    |    |     | AA121     | 28 | 32 | 150 | AA138     | 38 | 32 | 150 |           |    |    |     |
|           |    |    |     |           |    |    |     | AA122     | 42 | 40 | 120 | AA139     | 38 | 35 | 80  |           |    |    |     |
|           |    |    |     |           |    |    |     |           |    |    |     | AA140     | 30 | 40 | 100 |           |    |    |     |
|           |    |    |     |           |    |    |     |           |    |    |     | AA141     | 30 | 40 | 130 |           |    |    |     |
|           |    |    |     |           |    |    |     |           |    |    |     | AA142     | 30 | 40 | 160 |           |    |    |     |
|           |    |    |     |           |    |    |     |           |    |    |     | AA143     | 30 | 50 | 125 |           |    |    |     |
|           |    |    |     |           |    |    |     |           |    |    |     | AA144     | 30 | 50 | 160 |           |    |    |     |

# Collet Chuck Extensions DIN 1835/A in inches



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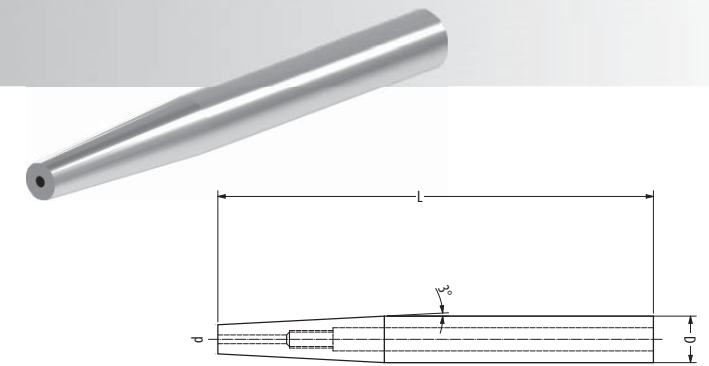
## COLLET CHUCK EXTENSIONS WITH ER NUT FOR IMPERIAL SIZE COLLETS

| Part code | Description                            | ER    | A  | d    | L1  |
|-----------|--|-------|----|------|-----|
| AA156     | collet chuck extension for ER mini nut | ER 16 | 37 | 1/2" | 50  |
| AA157     | collet chuck extension for ER mini nut | ER 16 | 37 | 1/2" | 100 |
| AA158     | collet chuck extension for ER mini nut | ER 16 | 37 | 1/2" | 150 |
| AA159     | collet chuck extension for ER mini nut | ER 20 | 60 | 1/2" | 50  |
| AA160     | collet chuck extension for ER mini nut | ER 20 | 60 | 1/2" | 100 |
| AA161     | collet chuck extension for ER mini nut | ER 20 | 60 | 1/2" | 150 |
| AA162     | collet chuck extension for ER mini nut | ER 25 | 60 | 1/2" | 50  |
| AA163     | collet chuck extension for ER mini nut | ER 25 | 60 | 1/2" | 100 |
| AA164     | collet chuck extension for ER mini nut | ER 25 | 60 | 1/2" | 150 |
| AA165     | collet chuck extension for ER nut      | ER 16 | 37 | 1/2" | 50  |
| AA166     | collet chuck extension for ER nut      | ER 16 | 37 | 1/2" | 100 |
| AA167     | collet chuck extension for ER nut      | ER 16 | 37 | 1/2" | 150 |
| AA168     | collet chuck extension for ER nut      | ER 20 | 60 | 1/2" | 50  |
| AA169     | collet chuck extension for ER nut      | ER 20 | 60 | 1/2" | 100 |
| AA170     | collet chuck extension for ER nut      | ER 20 | 60 | 1/2" | 150 |
| AA171     | collet chuck extension for ER nut      | ER 25 | 60 | 1/2" | 50  |
| AA172     | collet chuck extension for ER nut      | ER 25 | 60 | 1/2" | 100 |
| AA173     | collet chuck extension for ER nut      | ER 25 | 60 | 1/2" | 150 |



# Shrink Fit Extensions

IMS Shrink fit extensions are the ideal solution for operations in tight spaces that need the highest precision. The new "Slim" version is designed to lower encumbrances even further, while maintaining the best TIR standards.

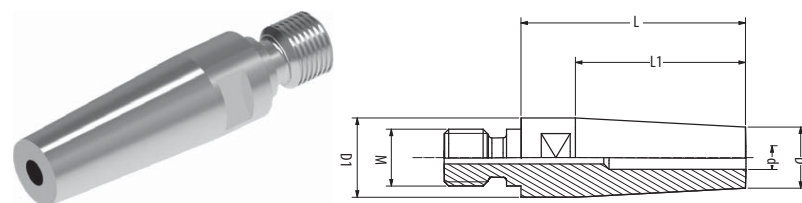


## SHRINK FIT EXTENSIONS SLIM

| Part code | Description                | d   | D  | L   | Angle |
|-----------|----------------------------|-----|----|-----|-------|
| AA174     | shrink fit extensions slim | 4   | 12 | 150 | 3°    |
| AA175     | shrink fit extensions slim | 5   | 12 | 150 | 3°    |
| AA176     | shrink fit extensions slim | 6   | 12 | 150 | 3°    |
| AA177     | shrink fit extensions slim | 4   | 16 | 150 | 3°    |
| AA178     | shrink fit extensions slim | 5   | 16 | 150 | 3°    |
| AA179     | shrink fit extensions slim | 6   | 16 | 150 | 3°    |
| AA180     | shrink fit extensions slim | 8   | 16 | 150 | 3°    |
| AA181     | shrink fit extensions slim | 4   | 20 | 150 | 3°    |
| AA182     | shrink fit extensions slim | 5   | 20 | 150 | 3°    |
| AA183     | shrink fit extensions slim | 6   | 20 | 150 | 3°    |
| AA184     | shrink fit extensions slim | 8   | 20 | 150 | 3°    |
| AA185     | shrink fit extensions slim | 10  | 20 | 150 | 3°    |
| AA186     | shrink fit extensions slim | 12  | 20 | 150 | 3°    |
| AA187     | shrink fit extensions slim | 4   | 25 | 150 | 3°    |
| AA188     | shrink fit extensions slim | 5   | 25 | 150 | 3°    |
| AA189     | shrink fit extensions slim | 6   | 25 | 150 | 3°    |
| AA190     | shrink fit extensions slim | 8   | 25 | 150 | 3°    |
| AA191     | shrink fit extensions slim | 10  | 25 | 150 | 3°    |
| AA192     | shrink fit extensions slim | 12  | 25 | 150 | 3°    |
| AA193     | shrink fit extensions slim | 14  | 25 | 150 | 3°    |
| AA194     | shrink fit extensions slim | 16  | 25 | 150 | 3°    |
| AA195     | shrink fit extensions slim | 4   | 32 | 150 | 3°    |
| AA196     | shrink fit extensions slim | 5   | 32 | 150 | 3°    |
| AA197     | shrink fit extensions slim | 6   | 32 | 150 | 3°    |
| AA198     | shrink fit extensions slim | 8   | 32 | 150 | 3°    |
| AA199     | shrink fit extensions slim | 10  | 32 | 150 | 3°    |
| AA200     | shrink fit extensions slim | 12  | 32 | 150 | 3°    |
| AA201     | shrink fit extensions slim | 14  | 32 | 150 | 3°    |
| AA202     | shrink fit extensions slim | 16  | 32 | 150 | 3°    |
| AA203     | shrink fit extensions slim | 18  | 32 | 150 | 3°    |
| AA204     | shrink fit extensions slim | 20  | 32 | 150 | 3°    |
| AA205     | shrink fit extensions slim | 3/8 | 1" | 6"  | 3°    |
| AA206     | shrink fit extensions slim | 1/2 | 1" | 6"  | 3°    |
| AA207     | shrink fit extensions slim | 3/4 | 1" | 6"  | 3°    |

## Extensions from modular to shrink fit

The extensions for modular shrink fit tool holders provide the ideal balance between tool change speed and maximum precision with low encumbrance.

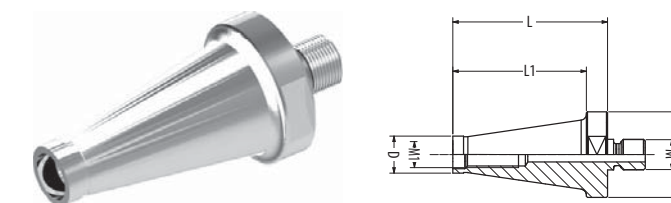


### EXTENSIONS FROM MODULAR TO SHRINK FIT

| Part code | Description                          | d  | D  | D1   | L  | L1 | M   |
|-----------|--------------------------------------|----|----|------|----|----|-----|
| AA208     | extension from modular to shrink fit | 6  | 12 | 17,8 | 60 | 50 | M10 |
| AA209     | extension from modular to shrink fit | 6  | 12 | 20,8 | 60 | 50 | M12 |
| AA210     | extension from modular to shrink fit | 6  | 12 | 28,8 | 60 | 50 | M16 |
| AA211     | extension from modular to shrink fit | 8  | 15 | 17,8 | 60 | 50 | M10 |
| AA212     | extension from modular to shrink fit | 8  | 15 | 20,8 | 60 | 50 | M12 |
| AA213     | extension from modular to shrink fit | 8  | 15 | 28,8 | 60 | 50 | M16 |
| AA214     | extension from modular to shrink fit | 10 | 17 | 17,8 | 60 | 50 | M10 |
| AA215     | extension from modular to shrink fit | 10 | 17 | 20,8 | 60 | 50 | M12 |
| AA216     | extension from modular to shrink fit | 10 | 17 | 28,8 | 60 | 50 | M16 |
| AA217     | extension from modular to shrink fit | 12 | 20 | 20,8 | 60 | 50 | M12 |
| AA218     | extension from modular to shrink fit | 12 | 20 | 28,8 | 60 | 50 | M16 |
| AA219     | extension from modular to shrink fit | 16 | 23 | 28,8 | 60 | 50 | M16 |

## Extensions for modular tool holder

IMS extensions for modular tool holders feature the quickest tool changing system. Excellent for deep operations that require great versatility.



### EXTENSIONS FOR MODULAR TOOL HOLDER

| Part code | Description                       | D    | D1   | L  | L1 | M   | M1  |
|-----------|-----------------------------------|------|------|----|----|-----|-----|
| AA220     | extension for modular tool holder | 9,8  | 12,8 | 25 | 15 | M8  | M6  |
| AA221     | extension for modular tool holder | 9,8  | 20,8 | 40 | 30 | M12 | M6  |
| AA222     | extension for modular tool holder | 12,8 | 17,8 | 30 | 20 | M10 | M8  |
| AA223     | extension for modular tool holder | 12,8 | 20,8 | 40 | 30 | M12 | M8  |
| AA224     | extension for modular tool holder | 12,8 | 28,8 | 60 | 50 | M16 | M8  |
| AA225     | extension for modular tool holder | 15,4 | 20,8 | 35 | 25 | M12 | M10 |
| AA226     | extension for modular tool holder | 15,4 | 28,8 | 60 | 50 | M16 | M10 |
| AA227     | extension for modular tool holder | 17,8 | 20,8 | 35 | 25 | M12 | M10 |
| AA228     | extension for modular tool holder | 17,8 | 28,8 | 60 | 50 | M16 | M10 |
| AA229     | extension for modular tool holder | 28,8 | 28,8 | 40 | 30 | M16 | M12 |



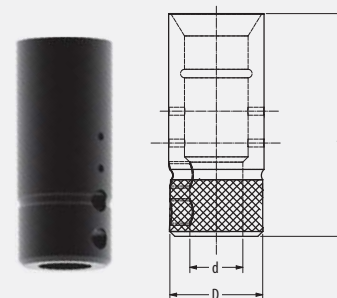
Quick change tool holders

Quick change tool holders for CNC boring machines.



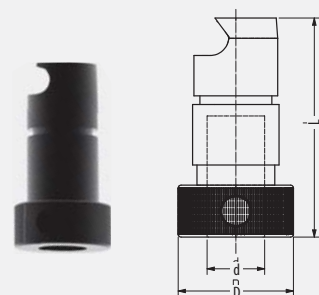
QUICK CHANGE TOOL HOLDERS FOR "VITAP" BORING MACHINES

| Part code | Description                      | d  | D  | L  |
|-----------|----------------------------------|----|----|----|
| AAH05     | quick change tool holder "Vitap" | 10 | 18 | 42 |



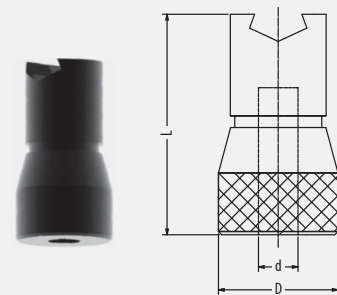
QUICK CHANGE TOOL HOLDERS FOR "BIESSE" BORING MACHINES

| Part code | Description                       | d  | D  | L  |
|-----------|-----------------------------------|----|----|----|
| AAH00     | quick change tool holder "Biesse" | 10 | 20 | 37 |
| AAH01     | quick change tool holder "Biesse" | 10 | 20 | 30 |



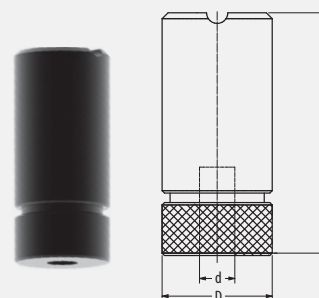
QUICK CHANGE TOOL HOLDERS FOR "BUSELLATO" BORING MACHINES

| Part code | Description                          | d  | D  | L    |
|-----------|--------------------------------------|----|----|------|
| AAH06     | quick change tool holder "Busellato" | 10 | 19 | 34,5 |



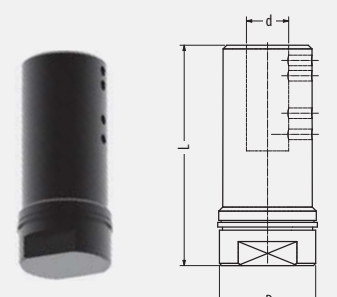
QUICK CHANGE TOOL HOLDERS FOR "MORBIDELLI" BORING MACHINES

| Part code | Description                           | d   | D  | L  |
|-----------|---------------------------------------|-----|----|----|
| AAH02     | quick change tool holder "Morbidelli" | 10  | 20 | 43 |
| AAH03     | quick change tool holder "Morbidelli" | 10  | 16 | 43 |
| AAH04     | quick change tool holder "Morbidelli" | M10 | 20 | 43 |



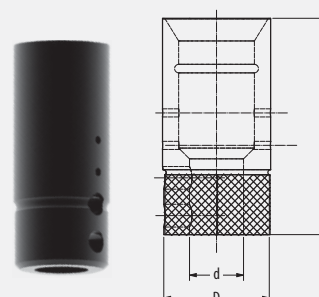
QUICK CHANGE TOOL HOLDERS FOR "WEEKE" BORING MACHINES

| Part code | Description                      | d  | D  | L  |
|-----------|----------------------------------|----|----|----|
| AAH07     | quick change tool holder "Weeke" | 10 | 20 | 46 |
| AAH08     | quick change tool holder "Weeke" | 10 | 20 | 56 |
| AAH09     | quick change tool holder "Weeke" | 10 | 20 | 66 |



QUICK CHANGE TOOL HOLDERS FOR "MASTERWOOD", "MAGGI", "GRIGGIO" BORING MACHINES

| Part code | Description   | d  | D  | L  |
|-----------|---|----|----|----|
| AAH10     | quick change tool holder "Masterwood", "Maggi", "Griggio" | 10 | 20 | 40 |

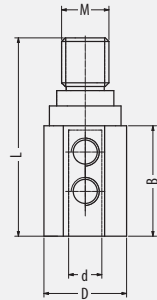


QUICK CHANGE TOOL HOLDERS FOR "VITAP", "ALBERTI" BORING MACHINES

| Part code | Description                                    | d  | D  | L    | B    | M      |
|-----------|--|----|----|------|------|--------|
| AAH11     | quick change tool holder "Vitap", "Alberti" RH | 14 | 18 | 40,5 | 25,5 | 10x1,5 |
| AAH12     | quick change tool holder "Vitap", "Alberti" LH | 14 | 18 | 40,5 | 25,5 | 10x1,5 |

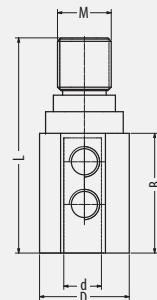


# Quick change tool holders



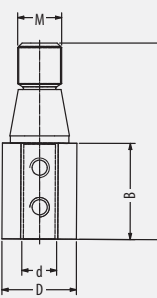
### QUICK CHANGE TOOL HOLDERS FOR BORING MACHINES

| Part code | Description                                     | d  | D  | L  | B  | M        |
|-----------|---|----|----|----|----|----------|
| AAH13     | quick change tool holder for boring machines RH | 8  | 20 | 40 | 20 | M8 x 1,5 |
| AAH14     | quick change tool holder for boring machines RH | 10 | 20 | 40 | 20 | M8 x 1,5 |
| AAH15     | quick change tool holder for boring machines LH | 8  | 20 | 40 | 20 | M8 x 1,5 |
| AAH16     | quick change tool holder for boring machines LH | 10 | 20 | 40 | 20 | M8 x 1,5 |



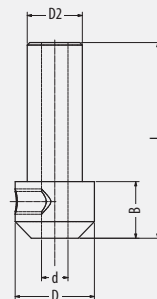
### QUICK CHANGE TOOL HOLDERS FOR BORING MACHINES

| Part code | Description                                     | d  | D  | L  | B  | M         |
|-----------|---|----|----|----|----|-----------|
| AAH17     | quick change tool holder for boring machines RH | 8  | 20 | 40 | 20 | M10 x 1,5 |
| AAH18     | quick change tool holder for boring machines RH | 10 | 20 | 40 | 20 | M10 x 1,5 |
| AAH19     | quick change tool holder for boring machines LH | 8  | 20 | 40 | 20 | M10 x 1,5 |
| AAH20     | quick change tool holder for boring machines LH | 10 | 20 | 40 | 20 | M10 x 1,5 |



### QUICK CHANGE TOOL HOLDERS FOR BORING MACHINES

| Part code | Description                                     | d  | D  | L  | B  | M         |
|-----------|---|----|----|----|----|-----------|
| AAH21     | quick change tool holder for boring machines RH | 8  | 20 | 46 | 26 | M10 x 1,5 |
| AAH22     | quick change tool holder for boring machines RH | 10 | 20 | 46 | 26 | M10 x 1,5 |
| AAH23     | quick change tool holder for boring machines LH | 8  | 20 | 46 | 26 | M10 x 1,5 |
| AAH24     | quick change tool holder for boring machines LH | 10 | 20 | 46 | 26 | M10 x 1,5 |



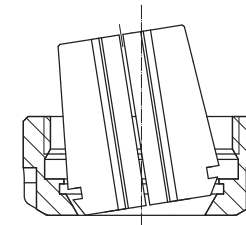
### QUICK CHANGE TOOL HOLDERS FOR BORING MACHINES

| Part code | Description                                  | d   | D  | L  | B  | D2 |
|-----------|--|-----|----|----|----|----|
| AAH25     | quick change tool holder for boring machines | 2   | 8  | 35 | 10 | 10 |
| AAH26     | quick change tool holder for boring machines | 2,5 | 8  | 35 | 10 | 10 |
| AAH27     | quick change tool holder for boring machines | 3   | 14 | 35 | 10 | 10 |
| AAH28     | quick change tool holder for boring machines | 3,2 | 14 | 35 | 10 | 10 |
| AAH29     | quick change tool holder for boring machines | 3,5 | 14 | 35 | 10 | 10 |
| AAH30     | quick change tool holder for boring machines | 4   | 14 | 35 | 10 | 10 |
| AAH31     | quick change tool holder for boring machines | 5   | 14 | 35 | 10 | 10 |

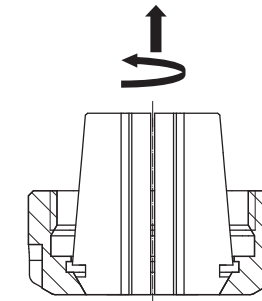


# Useful tips for easy collet chuck set up

## Inserting and removing the collet:



Inserting and removing the collet: To insert the collet in the collet nut, first introduce the collet slantwise its allocation and then push until the "click" sound happens.

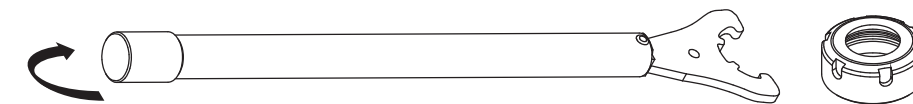


To remove the collet from the collet nut, rotate the collet half a turn counterclockwise and then extract it.

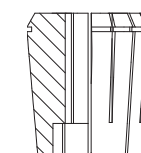
## TIR CONCENTRICITY TABLE

| D         | L  | Standard ER Collets | High Precision ER Collets | Ultra Precision ER Collets |
|-----------|----|---------------------|---------------------------|----------------------------|
| 1,0/1,5   | 6  | ≤ 0,015             | ≤ 0,008                   | ≤ 0,005                    |
| 1,6/2,9   | 10 | ≤ 0,015             | ≤ 0,008                   | ≤ 0,005                    |
| 3,0/5,9   | 16 | ≤ 0,015             | ≤ 0,008                   | ≤ 0,005                    |
| 6,0/9,9   | 25 | ≤ 0,015             | ≤ 0,008                   | ≤ 0,005                    |
| 10,0/17,9 | 40 | ≤ 0,020             | ≤ 0,008                   | ≤ 0,005                    |
| 18,0/26   | 50 | ≤ 0,020             | ≤ 0,008                   | ≤ 0,005                    |

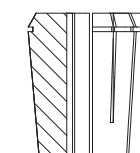
## Using an IMS Torque Wrench



While tightening a tool holder collet nut it is important to be aware of the applied torque. A weak pull will lead to excessive vibrations or to the release of the tool itself, while tightening too much will damage the collet. The IMS torque wrench allows to tighten and release collet nuts in a secure way and without stressing the collets.



For step collets, use "MIN" torque setting

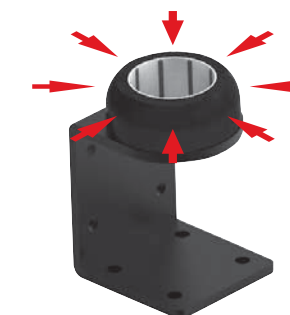


For straight bore collets, use "MAX" torque setting

## Using an IMS tool clumper



The new rounded design is designed to reduce encumbrances when working on the tool holder



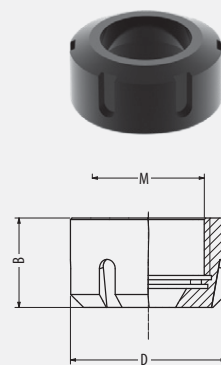
The roll bearings technology provides secure clamping and a correct subdivision of the torque force onto the whole diameter of the tool holder

# Collet Nuts

IMS collet nuts are manufactured following the international standards and designed for a firm grip on the collet. The special Darkside treatment provides total protection against rust, even in the most difficult work environments.

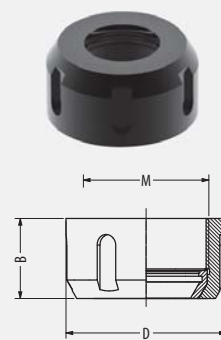


### STANDARD ER COLLET NUT DIN 6499



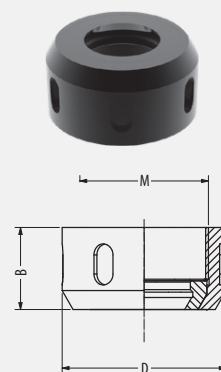
| Part code | Description   | ER    | D  | B    | M        |
|-----------|---------------|-------|----|------|----------|
| AAC42     | RH collet nut | ER 16 | 32 | 17,5 | 22 x 1,5 |
| AAC43     | RH collet nut | ER 20 | 35 | 19   | 25 x 1,5 |
| AAC44     | RH collet nut | ER 25 | 42 | 20   | 32 x 1,5 |
| AAC45     | RH collet nut | ER 32 | 50 | 22,5 | 40 x 1,5 |
| AAC46     | RH collet nut | ER 40 | 63 | 25,5 | 50 x 1,5 |
| AAC47     | RH collet nut | ER 50 | 78 | 35,5 | 64 x 2   |
| AAC48     | LH collet nut | ER 16 | 32 | 17,5 | 22 x 1,5 |
| AAC49     | LH collet nut | ER 20 | 35 | 19   | 25 x 1,5 |
| AAC50     | LH collet nut | ER 25 | 42 | 20   | 32 x 1,5 |
| AAC51     | LH collet nut | ER 32 | 50 | 22,5 | 40 x 1,5 |
| AAC52     | LH collet nut | ER 40 | 63 | 25,5 | 50 x 1,5 |
| AAC53     | LH collet nut | ER 50 | 78 | 35,5 | 64 x 2   |

### BALL BEARING ER COLLET NUT DIN 6499



| Part code | Description                | ER    | D  | B    | M        |
|-----------|----------------------------|-------|----|------|----------|
| AAC54     | RH ball bearing collet nut | ER 25 | 42 | 20   | 32 x 1,5 |
| AAC55     | RH ball bearing collet nut | ER 32 | 50 | 22,5 | 40 x 1,5 |
| AAC56     | RH ball bearing collet nut | ER 40 | 63 | 25,5 | 50 x 1,5 |
| AAC58     | LH ball bearing collet nut | ER 25 | 42 | 20   | 32 x 1,5 |
| AAC59     | LH ball bearing collet nut | ER 32 | 50 | 22,5 | 40 x 1,5 |
| AAC60     | LH ball bearing collet nut | ER 40 | 63 | 25,5 | 50 x 1,5 |

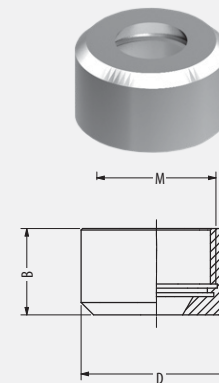
### BALL BEARING EOC COLLET NUT DIN 6499



| Part code | Description                | EOC    | D  | B    | M        |
|-----------|----------------------------|--------|----|------|----------|
| AAC95     | RH ball bearing collet nut | EOC 20 | 50 | 28   | 42 x 2   |
| AAC61     | RH ball bearing collet nut | EOC 25 | 60 | 30   | 48 x 2   |
| AAC96     | RH ball bearing collet nut | EOC 32 | 72 | 33,5 | 60 x 2,5 |
| AAC97     | RH ball bearing collet nut | EOC 40 | 85 | 37   | 68 x 2,5 |
| AAC98     | LH ball bearing collet nut | EOC 20 | 50 | 28   | 42 x 2   |
| AAC62     | LH ball bearing collet nut | EOC 25 | 60 | 30   | 48 x 2   |
| AAC99     | LH ball bearing collet nut | EOC 32 | 72 | 33,5 | 60 x 2,5 |
| AAC57     | LH ball bearing collet nut | EOC 40 | 85 | 37   | 68 x 2,5 |



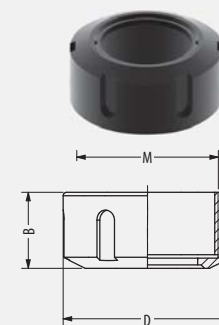
### HIGH SPEED ER COLLET NUTS



| Part code | Description              | ER    | D  | B    | M        |
|-----------|--------------------------|-------|----|------|----------|
| AAC81     | RH high speed collet nut | ER 16 | 32 | 17,5 | 22 x 1,5 |
| AAC82     | RH high speed collet nut | ER 20 | 35 | 19   | 25 x 1,5 |
| AAC83     | RH high speed collet nut | ER 25 | 42 | 20   | 32 x 1,5 |
| AAC84     | RH high speed collet nut | ER 32 | 50 | 22,5 | 40 x 1,5 |
| AAC85     | RH high speed collet nut | ER 40 | 63 | 25,5 | 50 x 1,5 |
| AAC86     | LH high speed collet nut | ER 16 | 32 | 17,5 | 22 x 1,5 |
| AAC87     | LH high speed collet nut | ER 20 | 35 | 19   | 25 x 1,5 |
| AAC88     | LH high speed collet nut | ER 25 | 42 | 20   | 32 x 1,5 |
| AAC89     | LH high speed collet nut | ER 32 | 50 | 22,5 | 40 x 1,5 |
| AAC90     | LH high speed collet nut | ER 40 | 63 | 25,5 | 50 x 1,5 |

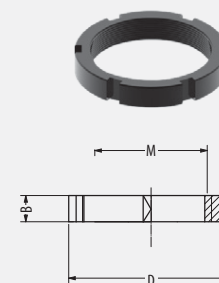
Manufacturing material: grounded steel

### "PAOLINO BACCI" NUTS



| Part code | Description            | ER    | D  | B    | M        |
|-----------|------------------------|-------|----|------|----------|
| AAC91     | "Paolino Bacci" RH nut | ER 32 | 50 | 22,5 | 40 x 1,5 |
| AAC92     | "Paolino Bacci" RH nut | ER 40 | 63 | 25,5 | 50 x 1,5 |
| AAC93     | "Paolino Bacci" LH nut | ER 32 | 50 | 22,5 | 40 x 1,5 |
| AAC94     | "Paolino Bacci" LH nut | ER 40 | 63 | 25,5 | 50 x 1,5 |

### ER COUNTER NUTS



| Part code | Description         | ER    | D  | B  | M        |
|-----------|---------------------|-------|----|----|----------|
| AAC22     | mini RH counter nut | ER 20 | 30 | 5  | 24 x 1   |
| AAC23     | mini RH counter nut | ER 25 | 40 | 5  | 30 x 1   |
| AAC24     | RH counter nut      | ER 25 | 42 | 8  | 32 x 1,5 |
| AAC25     | RH counter nut      | ER 32 | 50 | 10 | 40 x 1,5 |
| AAC26     | RH counter nut      | ER 40 | 63 | 10 | 50 x 1,5 |
| AAC27     | mini LH counter nut | ER 20 | 30 | 5  | 24 x 1   |
| AAC28     | mini LH counter nut | ER 25 | 40 | 5  | 30 x 1   |
| AAC29     | LH counter nut      | ER 25 | 42 | 8  | 32 x 1,5 |
| AAC30     | LH counter nut      | ER 32 | 50 | 10 | 40 x 1,5 |
| AAC31     | LH counter nut      | ER 40 | 63 | 10 | 50 x 1,5 |

● MANUFACTURING MATERIAL

● OPTIONAL MATERIAL

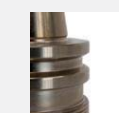
● OPTIONAL FINISHES\*



DARKSIDE



STAINLESS STEEL  
Cod. **M1**



NICKEL  
Cod. **Z3**

\*By choosing optional materials, the specific hardness may vary.

HEX ER COLLET NUTS



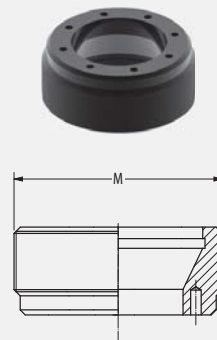
| Part code | Description       | ER    | D  | B    | M       |
|-----------|-------------------|-------|----|------|---------|
| AAC63     | RH hex collet nut | ER 11 | 19 | 11,3 | 14x0,75 |
| AAC64     | RH hex collet nut | ER 16 | 28 | 17,5 | 22x1,5  |
| AAC65     | RH hex collet nut | ER 20 | 34 | 19   | 25x1,5  |
| AAC66     | RH hex collet nut | ER 25 | 42 | 20   | 32x1,5  |
| AAC67     | LH hex collet nut | ER 11 | 19 | 11,3 | 14x0,75 |
| AAC68     | LH hex collet nut | ER 16 | 28 | 17,5 | 22x1,5  |
| AAC69     | LH hex collet nut | ER 20 | 34 | 19   | 25x1,5  |
| AAC70     | LH hex collet nut | ER 25 | 42 | 20   | 32x1,5  |

ETS COLLET NUTS



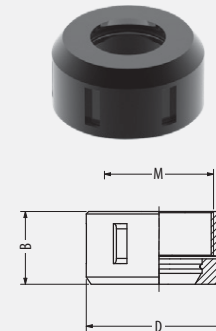
| Part code | Description | ETS    | D  | B    | M      |
|-----------|-------------|--------|----|------|--------|
| AAC00     | collet nut  | ETS 16 | 32 | 15   | 22x1,5 |
| AAC01     | collet nut  | ETS 20 | 35 | 16,5 | 25x1,5 |
| AAC02     | collet nut  | ETS 25 | 42 | 18,5 | 32x1,5 |
| AAC03     | collet nut  | ETS 32 | 50 | 22   | 40x1,5 |
| AAC04     | collet nut  | ETS 40 | 63 | 25   | 50x1,5 |

EMBEDDED ER COLLET NUTS



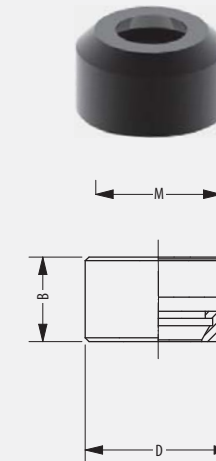
| Part code | Description         | ER    | M        |
|-----------|---------------------|-------|----------|
| AAC05     | embedded collet nut | ER 25 | 32 x 1,5 |
| AAC06     | embedded collet nut | ER 32 | 40 x 1,5 |
| AAC07     | embedded collet nut | ER 40 | 50 x 1,5 |

EOC COLLET NUTS DIN 6388



| Part code | Description   | EOC    | D  | B    | M      |
|-----------|---------------|--------|----|------|--------|
| AAC08     | RH collet nut | EOC 10 | 30 | 19   | 22x1,5 |
| AAC09     | RH collet nut | EOC 12 | 35 | 20   | 27x1,5 |
| AAC10     | RH collet nut | EOC 16 | 43 | 24   | 33x1,5 |
| AAC11     | RH collet nut | EOC 20 | 50 | 28   | 42x2   |
| AAC12     | RH collet nut | EOC 25 | 60 | 30   | 48x2   |
| AAC13     | RH collet nut | EOC 32 | 72 | 33,5 | 60x2,5 |
| AAC14     | RH collet nut | EOC 40 | 85 | 37   | 68x2,5 |
| AAC15     | LH collet nut | EOC 10 | 30 | 19   | 22x1,5 |
| AAC16     | LH collet nut | EOC 12 | 35 | 20   | 27x1,5 |
| AAC17     | LH collet nut | EOC 16 | 43 | 24   | 33x1,5 |
| AAC18     | LH collet nut | EOC 20 | 50 | 28   | 42x2   |
| AAC19     | LH collet nut | EOC 25 | 60 | 30   | 48x2   |
| AAC20     | LH collet nut | EOC 32 | 72 | 33,5 | 60x2,5 |
| AAC21     | LH collet nut | EOC 40 | 85 | 37   | 68x2,5 |

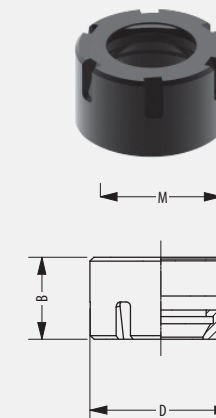
HIGH SPEED EOC COLLET NUTS DIN 6388



| Part code | Description                   | ER    | D  | B    | M       |
|-----------|-------------------------------|-------|----|------|---------|
| AAC71     | mini RH high speed collet nut | ER 8  | 12 | 10,8 | 10x0,75 |
| AAC72     | mini RH high speed collet nut | ER 11 | 15 | 12   | 13x0,75 |
| AAC73     | mini RH high speed collet nut | ER 16 | 22 | 18   | 19x1    |
| AAC74     | mini RH high speed collet nut | ER 20 | 28 | 19   | 24x1    |
| AAC75     | mini RH high speed collet nut | ER 25 | 35 | 20   | 30x1    |
| AAC76     | mini LH high speed collet nut | ER 8  | 12 | 10,8 | 10x0,75 |
| AAC77     | mini LH high speed collet nut | ER 11 | 15 | 12   | 13x0,75 |
| AAC78     | mini LH high speed collet nut | ER 16 | 22 | 18   | 19x1    |
| AAC79     | mini LH high speed collet nut | ER 20 | 28 | 19   | 24x1    |
| AAC80     | mini LH high speed collet nut | ER 25 | 35 | 20   | 30x1    |

Manufacturing material: grounded steel

ER MINI COLLET NUT DIN 6499

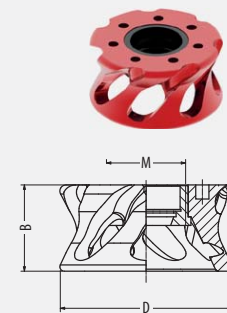


| Part code | Description        | ER    | D  | B    | M       |
|-----------|--------------------|-------|----|------|---------|
| AAC32     | mini RH collet nut | ER 8  | 12 | 10,8 | 10x0,75 |
| AAC33     | mini RH collet nut | ER 11 | 16 | 12   | 13x0,75 |
| AAC34     | mini RH collet nut | ER 16 | 22 | 18   | 19x1    |
| AAC35     | mini RH collet nut | ER 20 | 28 | 19   | 24x1    |
| AAC36     | mini RH collet nut | ER 25 | 35 | 20   | 30x1    |
| AAC37     | mini LH collet nut | ER 8  | 12 | 10,8 | 10x0,75 |
| AAC38     | mini LH collet nut | ER 11 | 16 | 12   | 13x0,75 |
| AAC39     | mini LH collet nut | ER 16 | 22 | 18   | 19x1    |
| AAC40     | mini LH collet nut | ER 20 | 28 | 19   | 24x1    |
| AAC41     | mini LH collet nut | ER 25 | 35 | 20   | 30x1    |

Twister



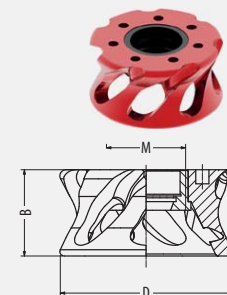
Twister mounting instructions



TWISTER FOR ER COLLET CHUCKS

| Part code | Description                  | ER    | D  | B    | M        |
|-----------|------------------------------|-------|----|------|----------|
| AAD00     | Twister for RH collet chucks | ER 25 | 90 | 41,5 | 32 x 1,5 |
| AAD01     | Twister for RH collet chucks | ER 32 | 98 | 44   | 40 x 1,5 |
| AAD08     | Twister for RH collet chucks | ER 32 | 80 | 44   | 40 x 1,5 |
| AAD02     | Twister for RH collet chucks | ER 40 | 98 | 47   | 50 x 1,5 |
| AAD03     | Twister for LH collet chucks | ER 25 | 90 | 41,5 | 32 x 1,5 |
| AAD04     | Twister for LH collet chucks | ER 32 | 98 | 44   | 40 x 1,5 |
| AAD09     | Twister for LH collet chucks | ER 32 | 80 | 44   | 40 x 1,5 |
| AAD05     | Twister for LH collet chucks | ER 40 | 98 | 47   | 50 x 1,5 |

Manufacturing material: Anodized Aluminum



TWISTER FOR EOC COLLET CHUCKS

| Part code | Description                  | EOC    | D  | B    | M      |
|-----------|------------------------------|--------|----|------|--------|
| AAD06     | Twister for RH collet chucks | EOC 25 | 98 | 51,5 | 48 x 2 |
| AAD07     | Twister for LH collet chucks | EOC 25 | 98 | 51,5 | 48 x 2 |

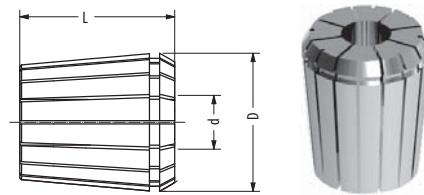
Manufacturing material: Anodized Aluminum

- Check if your IMS Twister **presents sign of wear** before every use.
- **Do not use** IMS Twister with worn out or damaged tools.
- IMS Twister is designed to not accumulate dust, maintaining the cut clean. However, **it is good practice to clean** IMS Twister, the collet and the tool holder after each use, in order to prevent production residues nesting in the threads.
- For better grip and precision, **insert the tool into the collet until the bottom**, but making sure that the flute is not in contact with the collet.
- **Use a Presetting device** to make sure that the tool is correctly positioned and that the IMS Twister bottom is between 2mm and 5mm far from the cutting surface. If after the passage small burns were visible on the material, increase the distance between the IMS Twister and the cutting surface.
- IMS Twister is **up to 40% quieter** than competing products. The noise is more intense when the tool turns free than during cutting operations. For further noise reduction, decrease the machine's RPM and IPM parameters.
- IMS Twister **must be used with precision collets** and assembled using a suitable tool clammer and wrench. Any improper use of IMS Twister will invalidate its warranty.



ER Collets DIN 6499/B

The broadness of IMS collets selection allows you to interface and use a collet chuck with a wide range of tools. Thanks to the different degrees of precision and to the optional anti-rust treatments, the IMS collets line satisfies every request and is suitable for any routing and milling application.



| ER8       |     |      | ER11      |      |    | ER16      |    |      | ER20      |    |      |      |          |
|-----------|-----|------|-----------|------|----|-----------|----|------|-----------|----|------|------|----------|
| Part code | D   | L    | Part code | D    | L  | Part code | D  | L    | Part code | D  | L    | d    | Capacity |
| A0031     | 8,5 | 13,5 | A0040     | 11,5 | 18 | A0053     | 17 | 27,5 | A0072     | 21 | 31,5 | 1    | 1-0,5    |
| A0032     | 8,5 | 13,5 | A0041     | 11,5 | 18 | A0054     | 17 | 27,5 | A0073     | 21 | 31,5 | 1,5  | 1,5-1    |
| A0033     | 8,5 | 13,5 | A0042     | 11,5 | 18 | A0055     | 17 | 27,5 | A0074     | 21 | 31,5 | 2    | 2-1      |
| A0034     | 8,5 | 13,5 | A0043     | 11,5 | 18 | A0056     | 17 | 27,5 | A0075     | 21 | 31,5 | 2,5  | 2,5-2    |
| A0035     | 8,5 | 13,5 | A0044     | 11,5 | 18 | A0057     | 17 | 27,5 | A0076     | 21 | 31,5 | 3    | 3-2      |
| A0036     | 8,5 | 13,5 | A0045     | 11,5 | 18 | A0058     | 17 | 27,5 | A0077     | 21 | 31,5 | 3,5  | 3,5-3    |
| A0037     | 8,5 | 13,5 | A0046     | 11,5 | 18 | A0059     | 17 | 27,5 | A0078     | 21 | 31,5 | 4    | 4-3      |
| A0038     | 8,5 | 13,5 | A0047     | 11,5 | 18 | A0060     | 17 | 27,5 | A0079     | 21 | 31,5 | 4,5  | 4,5-4    |
| A0039     | 8,5 | 13,5 | A0048     | 11,5 | 18 | A0061     | 17 | 27,5 | A0080     | 21 | 31,5 | 5    | 5-4      |
|           |     |      | A0049     | 11,5 | 18 | A0062     | 17 | 27,5 | A0081     | 21 | 31,5 | 5,5  | 5,5-5    |
|           |     |      | A0050     | 11,5 | 18 | A0063     | 17 | 27,5 | A0082     | 21 | 31,5 | 6    | 6-5      |
|           |     |      | A0051     | 11,5 | 18 | A0064     | 17 | 27,5 | A0083     | 21 | 31,5 | 6,5  | 6,5-6    |
|           |     |      | A0052     | 11,5 | 18 | A0065     | 17 | 27,5 | A0084     | 21 | 31,5 | 7    | 7-6      |
|           |     |      |           |      |    | A0066     | 17 | 27,5 | A0085     | 21 | 31,5 | 7,5  | 7,5-7    |
|           |     |      |           |      |    | A0067     | 17 | 27,5 | A0086     | 21 | 31,5 | 8    | 8-7      |
|           |     |      |           |      |    | A0068     | 17 | 27,5 | A0087     | 21 | 31,5 | 8,5  | 8,5-8    |
|           |     |      |           |      |    | A0069     | 17 | 27,5 | A0088     | 21 | 31,5 | 9    | 9-8      |
|           |     |      |           |      |    | A0070     | 17 | 27,5 | A0089     | 21 | 31,5 | 9,5  | 9,5-9    |
|           |     |      |           |      |    | A0071     | 17 | 27,5 | A0090     | 21 | 31,5 | 10   | 10-9     |
|           |     |      |           |      |    |           |    |      | A0091     | 21 | 31,5 | 10,5 | 10,5-10  |
|           |     |      |           |      |    |           |    |      | A0092     | 21 | 31,5 | 11   | 11-10    |
|           |     |      |           |      |    |           |    |      | A0093     | 21 | 31,5 | 11,5 | 11,5-11  |
|           |     |      |           |      |    |           |    |      | A0094     | 21 | 31,5 | 12   | 12-11    |
|           |     |      |           |      |    |           |    |      | A0095     | 21 | 31,5 | 12,5 | 12,5-12  |
|           |     |      |           |      |    |           |    |      | A0096     | 21 | 31,5 | 13   | 13-12    |



| ER25      |    |    | ER32      |    |    | ER40      |    |    | ER50      |    |    |    |          |
|-----------|----|----|-----------|----|----|-----------|----|----|-----------|----|----|----|----------|
| Part code | D  | L  | Part code | D  | L  | Part code | D  | L  | Part code | D  | L  | d  | Capacity |
| A0097     | 26 | 35 | A0111     | 33 | 40 | -         | -  | -  | -         | -  | -  | -  | 3-2      |
| A0098     | 26 | 35 | A0112     | 33 | 40 | A0129     | 41 | 46 | -         | -  | -  | -  | 4-3      |
| A0099     | 26 | 35 | A0113     | 33 | 40 | A0130     | 41 | 46 | -         | -  | -  | -  | 5-4      |
| A0100     | 26 | 35 | A0114     | 33 | 40 | A0131     | 41 | 46 | -         | -  | -  | -  | 6-5      |
| A0101     | 26 | 35 | A0115     | 33 | 40 | A0132     | 41 | 46 | -         | -  | -  | -  | 7-6      |
| A0102     | 26 | 35 | A0116     | 33 | 40 | A0133     | 41 | 46 | -         | -  | -  | -  | 8-7      |
| A0103     | 26 | 35 | A0117     | 33 | 40 | A0134     | 41 | 46 | -         | -  | -  | -  | 9-8      |
| A0104     | 26 | 35 | A0118     | 33 | 40 | A0135     | 41 | 46 | -         | -  | -  | -  | 10-9     |
| A0105     | 26 | 35 | A0119     | 33 | 40 | A0136     | 41 | 46 | A0156     | 52 | 60 | 11 | 11-10    |
| A0106     | 26 | 35 | A0120     | 33 | 40 | A0137     | 41 | 46 | A0157     | 52 | 60 | 12 | 12-11    |
| A0107     | 26 | 35 | A0121     | 33 | 40 | A0138     | 41 | 46 | A0158     | 52 | 60 | 13 | 13-12    |
| A0108     | 26 | 35 | A0122     | 33 | 40 | A0139     | 41 | 46 | A0159     | 52 | 60 | 14 | 14-13    |
| A0109     | 26 | 35 | A0123     | 33 | 40 | A0140     | 41 | 46 | A0160     | 52 | 60 | 15 | 15-14    |
| A0110     | 26 | 35 | A0124     | 33 | 40 | A0141     | 41 | 46 | A0161     | 52 | 60 | 16 | 16-15    |
|           |    |    | A0125     | 33 | 40 | A0142     | 41 | 46 | A0162     | 52 | 60 | 17 | 17-16    |
|           |    |    | A0126     | 33 | 40 | A0143     | 41 | 46 | A0163     | 52 | 60 | 18 | 18-17    |
|           |    |    | A0127     | 33 | 40 | A0144     | 41 | 46 | A0164     | 52 | 60 | 19 | 19-18    |
|           |    |    | A0128     | 33 | 40 | A0145     | 41 | 46 | A0165     | 52 | 60 | 20 | 20-19    |
|           |    |    |           |    |    | A0146     | 41 | 46 | A0166     | 52 | 60 | 21 | 21-20    |
|           |    |    |           |    |    | A0147     | 41 | 46 | A0167     | 52 | 60 | 22 | 22-21    |
|           |    |    |           |    |    | A0148     | 41 | 46 | A0168     | 52 | 60 | 23 | 23-22    |
|           |    |    |           |    |    | A0149     | 41 | 46 | A0169     | 52 | 60 | 24 | 24-23    |
|           |    |    |           |    |    | A0150     | 41 | 46 | A0170     | 52 | 60 | 25 | 25-24    |
|           |    |    |           |    |    | A0151     | 41 | 46 | A0171     | 52 | 60 | 26 | 26-25    |
|           |    |    |           |    |    | A0152     | 41 | 46 | A0172     | 52 | 60 | 27 | 27-26    |
|           |    |    |           |    |    | A0153     | 41 | 46 | A0173     | 52 | 60 | 28 | 28-27    |
|           |    |    |           |    |    | A0154     | 41 | 46 | A0174     | 52 | 60 | 29 | 29-28    |
|           |    |    |           |    |    | A0155     | 41 | 46 | A0175     | 52 | 60 | 30 | 30-29    |
|           |    |    |           |    |    |           |    |    | A0176     | 52 | 60 | 31 | 31-30    |
|           |    |    |           |    |    |           |    |    | A0177     | 52 | 60 | 32 | 32-31    |
|           |    |    |           |    |    |           |    |    | A0178     | 52 | 60 | 33 | 33-32    |
|           |    |    |           |    |    |           |    |    | A0179     | 52 | 60 | 34 | 34-33    |

● MANUFACTURING MATERIAL

● OPTIONAL FINISHES\*

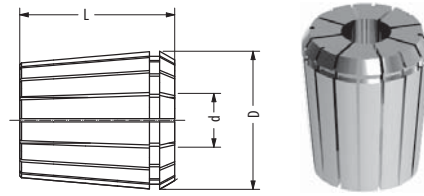


\*By choosing optional materials, the specific hardness may vary.

# COMPONENTS

## High/Ultra Precision ER Collets DIN 6499/B

The broadness of IMS collets selection allows you to interface and use a collet chuck with a wide range of tools. Thanks to the different degrees of precision and to the optional anti-rust treatments, the IMS collets line satisfies every request and is suitable for any routing and milling application.

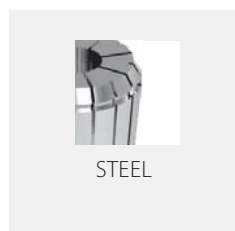


PARTS OF YOUR BUSINESS



| ER8            |                 |     |      | ER11           |                 |      |    | ER16           |                 |    |      | ER20           |                 |    |      |    |
|----------------|-----------------|-----|------|----------------|-----------------|------|----|----------------|-----------------|----|------|----------------|-----------------|----|------|----|
| High Precision | Ultra Precision | D   | L    | High Precision | Ultra Precision | D    | L  | High Precision | Ultra Precision | D  | L    | High Precision | Ultra Precision | D  | L    | d  |
| Part code      | Part code       |     |      | Part code      | Part code       |      |    | Part code      | Part code       |    |      | Part code      | Part code       |    |      |    |
| A0180          | A0298           | 8,5 | 13,5 | A0185          | A0303           | 11,5 | 18 | A0192          | A0310           | 17 | 27,5 | A0202          | A0320           | 21 | 31,5 | 1  |
| A0181          | A0299           | 8,5 | 13,5 | A0186          | A0304           | 11,5 | 18 | A0193          | A0311           | 17 | 27,5 | A0203          | A0321           | 21 | 31,5 | 2  |
| A0182          | A0300           | 8,5 | 13,5 | A0187          | A0305           | 11,5 | 18 | A0194          | A0312           | 17 | 27,5 | A0204          | A0322           | 21 | 31,5 | 3  |
| A0183          | A0301           | 8,5 | 13,5 | A0188          | A0306           | 11,5 | 18 | A0195          | A0313           | 17 | 27,5 | A0205          | A0323           | 21 | 31,5 | 4  |
| A0184          | A0302           | 8,5 | 13,5 | A0189          | A0307           | 11,5 | 18 | A0196          | A0314           | 17 | 27,5 | A0206          | A0324           | 21 | 31,5 | 5  |
|                |                 |     |      | A0190          | A0308           | 11,5 | 18 | A0197          | A0315           | 17 | 27,5 | A0207          | A0325           | 21 | 31,5 | 6  |
|                |                 |     |      | A0191          | A0309           | 11,5 | 18 | A0198          | A0316           | 17 | 27,5 | A0208          | A0326           | 21 | 31,5 | 7  |
|                |                 |     |      |                |                 |      |    | A0199          | A0317           | 17 | 27,5 | A0209          | A0327           | 21 | 31,5 | 8  |
|                |                 |     |      |                |                 |      |    | A0200          | A0318           | 17 | 27,5 | A0210          | A0328           | 21 | 31,5 | 9  |
|                |                 |     |      |                |                 |      |    | A0201          | A0319           | 17 | 27,5 | A0211          | A0329           | 21 | 31,5 | 10 |
|                |                 |     |      |                |                 |      |    |                |                 |    |      | A0212          | A0330           | 21 | 31,5 | 11 |
|                |                 |     |      |                |                 |      |    |                |                 |    |      | A0213          | A0331           | 21 | 31,5 | 12 |
|                |                 |     |      |                |                 |      |    |                |                 |    |      | A0214          | A0332           | 21 | 31,5 | 13 |

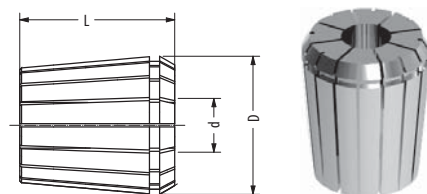
● MANUFACTURING MATERIAL



| ER25           |                 |    |    | ER32           |                 |    |    | ER40           |                 |    |    | ER50           |                 |    |    |    |
|----------------|-----------------|----|----|----------------|-----------------|----|----|----------------|-----------------|----|----|----------------|-----------------|----|----|----|
| High Precision | Ultra Precision | D  | L  | High Precision | Ultra Precision | D  | L  | High Precision | Ultra Precision | D  | L  | High Precision | Ultra Precision | D  | L  | d  |
| Part code      | Part code       |    |    | Part code      | Part code       |    |    | Part code      | Part code       |    |    | Part code      | Part code       |    |    |    |
| A0215          | A0333           | 26 | 35 | A0229          | A0347           | 33 | 40 | -              | -               | -  | -  | -              | -               | -  | -  | 3  |
| A0216          | A0334           | 26 | 35 | A0230          | A0348           | 33 | 40 | A0247          | A0365           | 41 | 46 | -              | -               | -  | -  | 4  |
| A0217          | A0335           | 26 | 35 | A0231          | A0349           | 33 | 40 | A0248          | A0366           | 41 | 46 | -              | -               | -  | -  | 5  |
| A0218          | A0336           | 26 | 35 | A0232          | A0350           | 33 | 40 | A0249          | A0367           | 41 | 46 | -              | -               | -  | -  | 6  |
| A0219          | A0337           | 26 | 35 | A0233          | A0351           | 33 | 40 | A0250          | A0368           | 41 | 46 | -              | -               | -  | -  | 7  |
| A0220          | A0338           | 26 | 35 | A0234          | A0352           | 33 | 40 | A0251          | A0369           | 41 | 46 | -              | -               | -  | -  | 8  |
| A0221          | A0339           | 26 | 35 | A0235          | A0353           | 33 | 40 | A0252          | A0370           | 41 | 46 | -              | -               | -  | -  | 9  |
| A0222          | A0340           | 26 | 35 | A0236          | A0354           | 33 | 40 | A0253          | A0371           | 41 | 46 | -              | -               | -  | -  | 10 |
| A0223          | A0341           | 26 | 35 | A0237          | A0355           | 33 | 40 | A0254          | A0372           | 41 | 46 | A0274          | A0392           | 52 | 60 | 11 |
| A0224          | A0342           | 26 | 35 | A0238          | A0356           | 33 | 40 | A0255          | A0373           | 41 | 46 | A0275          | A0393           | 52 | 60 | 12 |
| A0225          | A0343           | 26 | 35 | A0239          | A0357           | 33 | 40 | A0256          | A0374           | 41 | 46 | A0276          | A0394           | 52 | 60 | 13 |
| A0226          | A0344           | 26 | 35 | A0240          | A0358           | 33 | 40 | A0257          | A0375           | 41 | 46 | A0277          | A0395           | 52 | 60 | 14 |
| A0227          | A0345           | 26 | 35 | A0241          | A0359           | 33 | 40 | A0258          | A0376           | 41 | 46 | A0278          | A0396           | 52 | 60 | 15 |
| A0228          | A0346           | 26 | 35 | A0242          | A0360           | 33 | 40 | A0259          | A0377           | 41 | 46 | A0279          | A0397           | 52 | 60 | 16 |
|                |                 |    |    | A0243          | A0361           | 33 | 40 | A0260          | A0378           | 41 | 46 | A0280          | A0398           | 52 | 60 | 17 |
|                |                 |    |    | A0244          | A0362           | 33 | 40 | A0261          | A0379           | 41 | 46 | A0281          | A0399           | 52 | 60 | 18 |
|                |                 |    |    | A0245          | A0363           | 33 | 40 | A0262          | A0380           | 41 | 46 | A0282          | A0400           | 52 | 60 | 19 |
|                |                 |    |    | A0246          | A0364           | 33 | 40 | A0263          | A0381           | 41 | 46 | A0283          | A0401           | 52 | 60 | 20 |
|                |                 |    |    |                |                 |    |    | A0264          | A0382           | 41 | 46 | A0284          | A0402           | 52 | 60 | 21 |
|                |                 |    |    |                |                 |    |    | A0265          | A0383           | 41 | 46 | A0285          | A0403           | 52 | 60 | 22 |
|                |                 |    |    |                |                 |    |    | A0266          | A0384           | 41 | 46 | A0286          | A0404           | 52 | 60 | 23 |
|                |                 |    |    |                |                 |    |    | A0267          | A0385           | 41 | 46 | A0287          | A0405           | 52 | 60 | 24 |
|                |                 |    |    |                |                 |    |    | A0268          | A0386           | 41 | 46 | A0288          | A0406           | 52 | 60 | 25 |
|                |                 |    |    |                |                 |    |    | A0269          | A0387           | 41 | 46 | A0289          | A0407           | 52 | 60 | 26 |
|                |                 |    |    |                |                 |    |    | A0270          | A0388           | 41 | 46 | A0290          | A0408           | 52 | 60 | 27 |
|                |                 |    |    |                |                 |    |    | A0271          | A0389           | 41 | 46 | A0291          | A0409           | 52 | 60 | 28 |
|                |                 |    |    |                |                 |    |    | A0272          | A0390           | 41 | 46 | A0292          | A0410           | 52 | 60 | 29 |
|                |                 |    |    |                |                 |    |    | A0273          | A0391           | 41 | 46 | A0293          | A0411           | 52 | 60 | 30 |
|                |                 |    |    |                |                 |    |    |                |                 |    |    | A0294          | A0412           | 52 | 60 | 31 |
|                |                 |    |    |                |                 |    |    |                |                 |    |    | A0295          | A0413           | 52 | 60 | 32 |
|                |                 |    |    |                |                 |    |    |                |                 |    |    | A0296          | A0414           | 52 | 60 | 33 |
|                |                 |    |    |                |                 |    |    |                |                 |    |    | A0297          | A0415           | 52 | 60 | 34 |

# ER Collets DIN 6499/B in imperial measures

The broadness of IMS collets selection allows you to interface and use a collet chuck with a wide range of tools. Thanks to the different degrees of precision and to the optional anti-rust treatments, the IMS collets line satisfies every request and is suitable for any routing and milling application.

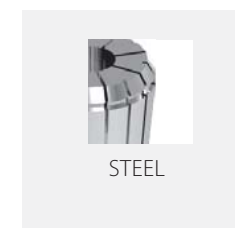


| ER8       |     |      | ER11      |      |    | ER16      |    |      | ER20      |    |      |        |
|-----------|-----|------|-----------|------|----|-----------|----|------|-----------|----|------|--------|
| Part code | D   | L    | Part code | D    | L  | Part code | D  | L    | Part code | D  | L    | d      |
| A0416     | 8,5 | 13,5 | A0424     | 11,5 | 18 | A0433     | 17 | 27,5 | A0447     | 21 | 31,5 | 1/32"  |
| A0417     | 8,5 | 13,5 | A0425     | 11,5 | 18 | A0434     | 17 | 27,5 | A0448     | 21 | 31,5 | 3/64"  |
| A0418     | 8,5 | 13,5 | A0426     | 11,5 | 18 | A0435     | 17 | 27,5 | A0449     | 21 | 31,5 | 1/16"  |
| A0419     | 8,5 | 13,5 | A0427     | 11,5 | 18 | A0436     | 17 | 27,5 | A0450     | 21 | 31,5 | 3/32"  |
| A0420     | 8,5 | 13,5 | A0428     | 11,5 | 18 | A0437     | 17 | 27,5 | A0451     | 21 | 31,5 | 1/8"   |
| A0421     | 8,5 | 13,5 | A0429     | 11,5 | 18 | A0438     | 17 | 27,5 | A0452     | 21 | 31,5 | 5/32"  |
| A0422     | 8,5 | 13,5 | A0430     | 11,5 | 18 | A0439     | 17 | 27,5 | A0453     | 21 | 31,5 | 3/16"  |
| A0423     | 8,5 | 13,5 | A0431     | 11,5 | 18 | A0440     | 17 | 27,5 | A0454     | 21 | 31,5 | 7/32"  |
|           |     |      | A0432     | 11,5 | 18 | A0441     | 17 | 27,5 | A0455     | 21 | 31,5 | 1/4"   |
|           |     |      |           |      |    | A0442     | 17 | 27,5 | A0456     | 21 | 31,5 | 9/32"  |
|           |     |      |           |      |    | A0443     | 17 | 27,5 | A0457     | 21 | 31,5 | 5/16"  |
|           |     |      |           |      |    | A0444     | 17 | 27,5 | A0458     | 21 | 31,5 | 11/32" |
|           |     |      |           |      |    | A0445     | 17 | 27,5 | A0459     | 21 | 31,5 | 3/8"   |
|           |     |      |           |      |    | A0446     | 17 | 27,5 | A0460     | 21 | 31,5 | 13/32" |
|           |     |      |           |      |    |           |    |      | A0461     | 21 | 31,5 | 7/16"  |
|           |     |      |           |      |    |           |    |      | A0462     | 21 | 31,5 | 15/32" |
|           |     |      |           |      |    |           |    |      | A0463     | 21 | 31,5 | 1/2"   |

| ER25      |    |    | ER32      |    |    | ER40      |    |    |        |
|-----------|----|----|-----------|----|----|-----------|----|----|--------|
| Part code | D  | L  | Part code | D  | L  | Part code | D  | L  | d      |
| A0464     | 26 | 35 | -         | -  | -  | -         | -  | -  | 3/64"  |
| A0465     | 26 | 35 | -         | -  | -  | -         | -  | -  | 1/16"  |
| A0466     | 26 | 35 | A0484     | 33 | 40 | -         | -  | -  | 3/32"  |
| A0467     | 26 | 35 | A0485     | 33 | 40 | A0507     | 41 | 46 | 1/8"   |
| A0468     | 26 | 35 | A0486     | 33 | 40 | A0508     | 41 | 46 | 5/32"  |
| A0469     | 26 | 35 | A0487     | 33 | 40 | A0509     | 41 | 46 | 3/16"  |
| A0470     | 26 | 35 | A0488     | 33 | 40 | A0510     | 41 | 46 | 7/32"  |
| A0471     | 26 | 35 | A0489     | 33 | 40 | A0511     | 41 | 46 | 1/4"   |
| A0472     | 26 | 35 | A0490     | 33 | 40 | A0512     | 41 | 46 | 9/32"  |
| A0473     | 26 | 35 | A0491     | 33 | 40 | A0513     | 41 | 46 | 5/16"  |
| A0474     | 26 | 35 | A0492     | 33 | 40 | A0514     | 41 | 46 | 11/32" |
| A0475     | 26 | 35 | A0493     | 33 | 40 | A0515     | 41 | 46 | 3/8"   |
| A0476     | 26 | 35 | A0494     | 33 | 40 | A0516     | 41 | 46 | 13/32" |
| A0477     | 26 | 35 | A0495     | 33 | 40 | A0517     | 41 | 46 | 7/16"  |
| A0478     | 26 | 35 | A0496     | 33 | 40 | A0518     | 41 | 46 | 15/32" |
| A0479     | 26 | 35 | A0497     | 33 | 40 | A0519     | 41 | 46 | 1/2"   |
| A0480     | 26 | 35 | A0498     | 33 | 40 | A0520     | 41 | 46 | 17/32" |
| A0481     | 26 | 35 | A0499     | 33 | 40 | A0521     | 41 | 46 | 9/16"  |
| A0482     | 26 | 35 | A0500     | 33 | 40 | A0522     | 41 | 46 | 19/32" |
| A0483     | 26 | 35 | A0501     | 33 | 40 | A0523     | 41 | 46 | 5/8"   |
|           |    |    | A0502     | 33 | 40 | A0524     | 41 | 46 | 21/32" |
|           |    |    | A0503     | 33 | 40 | A0525     | 41 | 46 | 11/16" |
|           |    |    | A0504     | 33 | 40 | A0526     | 41 | 46 | 23/32" |
|           |    |    | A0505     | 33 | 40 | A0527     | 41 | 46 | 3/4"   |
|           |    |    | A0506     | 33 | 40 | A0528     | 41 | 46 | 13/16" |
|           |    |    |           |    |    | A0529     | 41 | 46 | 27/32" |
|           |    |    |           |    |    | A0530     | 41 | 46 | 7/8"   |
|           |    |    |           |    |    | A0531     | 41 | 46 | 29/32" |
|           |    |    |           |    |    | A0532     | 41 | 46 | 15/16" |
|           |    |    |           |    |    | A0533     | 41 | 46 | 31/32" |
|           |    |    |           |    |    | A0534     | 41 | 46 | 1"     |

● MANUFACTURING MATERIAL

● OPTIONAL FINISHES\*

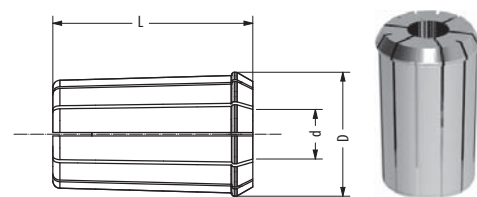


\*By choosing optional materials, the specific hardness may vary.



# EOC Collets Din 6388/B

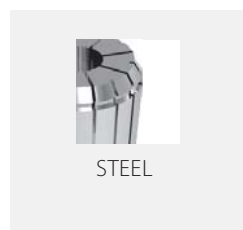
The broadness of IMS collets selection allows you to interface and use a collet chuck with a wide range of tools. Thanks to the different degrees of precision and to the optional anti-rust treatments, the IMS collets line satisfies every request and is suitable for any routing and milling application.



| EOC 10 B  |      |    | EOC 12 B  |      |    | EOC 16 B  |      |    |    |          |
|-----------|------|----|-----------|------|----|-----------|------|----|----|----------|
| Part code | D    | L  | Part code | D    | L  | Part code | D    | L  | d  | Capacity |
| A0612     | 17,2 | 30 | A0622     | 19,5 | 34 | -         | -    | -  | 1  | 1-0,5    |
| A0613     | 17,2 | 30 | A0623     | 19,5 | 34 | A0634     | 25,5 | 40 | 2  | 2-1,5    |
| A0614     | 17,2 | 30 | A0624     | 19,5 | 34 | A0635     | 25,5 | 40 | 3  | 3-2,5    |
| A0615     | 17,2 | 30 | A0625     | 19,5 | 34 | A0636     | 25,5 | 40 | 4  | 4-3,5    |
| A0616     | 17,2 | 30 | A0626     | 19,5 | 34 | A0637     | 25,5 | 40 | 5  | 5-4,5    |
| A0617     | 17,2 | 30 | A0627     | 19,5 | 34 | A0638     | 25,5 | 40 | 6  | 6-5,5    |
| A0618     | 17,2 | 30 | A0628     | 19,5 | 34 | A0639     | 25,5 | 40 | 7  | 7-6,5    |
| A0619     | 17,2 | 30 | A0629     | 19,5 | 34 | A0640     | 25,5 | 40 | 8  | 8-7,5    |
| A0620     | 17,2 | 30 | A0630     | 19,5 | 34 | A0641     | 25,5 | 40 | 9  | 9-8,5    |
| A0621     | 17,2 | 30 | A0631     | 19,5 | 34 | A0642     | 25,5 | 40 | 10 | 10-9,5   |
|           |      |    | A0632     | 19,5 | 34 | A0643     | 25,5 | 40 | 11 | 11-10,5  |
|           |      |    | A0633     | 19,5 | 34 | A0644     | 25,5 | 40 | 12 | 12-11,5  |
|           |      |    |           |      |    | A0645     | 25,5 | 40 | 13 | 13-12,5  |
|           |      |    |           |      |    | A0646     | 25,5 | 40 | 14 | 14-13,5  |
|           |      |    |           |      |    | A0647     | 25,5 | 40 | 15 | 15-14,5  |
|           |      |    |           |      |    | A0648     | 25,5 | 40 | 16 | 16-15,5  |

| EOC 20 B  |      |    | EOC 25 B  |      |    | EOC 32 B  |      |    |    |          |
|-----------|------|----|-----------|------|----|-----------|------|----|----|----------|
| Part code | D    | L  | Part code | D    | L  | Part code | D    | L  | d  | Capacity |
| A0649     | 29,8 | 45 | -         | -    | -  | -         | -    | -  | 2  | 2-1,5    |
| A0650     | 29,8 | 45 | A0668     | 35,5 | 52 | -         | -    | -  | 3  | 3-2,5    |
| A0651     | 29,8 | 45 | A0669     | 35,5 | 52 | -         | -    | -  | 4  | 4-3,5    |
| A0652     | 29,8 | 45 | A0670     | 35,5 | 52 | -         | -    | -  | 5  | 5-4,5    |
| A0653     | 29,8 | 45 | A0671     | 35,5 | 52 | A0691     | 43,7 | 60 | 6  | 6-5,5    |
| A0654     | 29,8 | 45 | A0672     | 35,5 | 52 | A0692     | 43,7 | 60 | 7  | 7-6,5    |
| A0655     | 29,8 | 45 | A0673     | 35,5 | 52 | A0693     | 43,7 | 60 | 8  | 8-7,5    |
| A0656     | 29,8 | 45 | A0674     | 35,5 | 52 | A0694     | 43,7 | 60 | 9  | 9-8,5    |
| A0657     | 29,8 | 45 | A0675     | 35,5 | 52 | A0695     | 43,7 | 60 | 10 | 10-9,5   |
| A0658     | 29,8 | 45 | A0676     | 35,5 | 52 | A0696     | 43,7 | 60 | 11 | 11-10,5  |
| A0659     | 29,8 | 45 | A0677     | 35,5 | 52 | A0697     | 43,7 | 60 | 12 | 12-11,5  |
| A0660     | 29,8 | 45 | A0678     | 35,5 | 52 | A0698     | 43,7 | 60 | 13 | 13-12,5  |
| A0661     | 29,8 | 45 | A0679     | 35,5 | 52 | A0699     | 43,7 | 60 | 14 | 14-13,5  |
| A0662     | 29,8 | 45 | A0680     | 35,5 | 52 | A0700     | 43,7 | 60 | 15 | 15-14,5  |
| A0663     | 29,8 | 45 | A0681     | 35,5 | 52 | A0701     | 43,7 | 60 | 16 | 16-15,5  |
| A0664     | 29,8 | 45 | A0682     | 35,5 | 52 | A0702     | 43,7 | 60 | 17 | 17-16,5  |
| A0665     | 29,8 | 45 | A0683     | 35,5 | 52 | A0703     | 43,7 | 60 | 18 | 18-17,5  |
| A0666     | 29,8 | 45 | A0684     | 35,5 | 52 | A0704     | 43,7 | 60 | 19 | 19-18,5  |
| A0667     | 29,8 | 45 | A0685     | 35,5 | 52 | A0705     | 43,7 | 60 | 20 | 20-19,5  |
|           |      |    | A0686     | 35,5 | 52 | A0706     | 43,7 | 60 | 21 | 21-20,5  |
|           |      |    | A0687     | 35,5 | 52 | A0707     | 43,7 | 60 | 22 | 22-21,5  |
|           |      |    | A0688     | 35,5 | 52 | A0708     | 43,7 | 60 | 23 | 23-22,5  |
|           |      |    | A0689     | 35,5 | 52 | A0709     | 43,7 | 60 | 24 | 24-23,5  |
|           |      |    | A0690     | 35,5 | 52 | A0710     | 43,7 | 60 | 25 | 25-24,5  |
|           |      |    |           |      |    | A0711     | 43,7 | 60 | 26 | 26-25,5  |
|           |      |    |           |      |    | A0712     | 43,7 | 60 | 27 | 27-26,5  |
|           |      |    |           |      |    | A0713     | 43,7 | 60 | 28 | 28-27,5  |
|           |      |    |           |      |    | A0714     | 43,7 | 60 | 29 | 29-28,5  |
|           |      |    |           |      |    | A0715     | 43,7 | 60 | 30 | 30-29,5  |
|           |      |    |           |      |    | A0716     | 43,7 | 60 | 31 | 31-30,5  |
|           |      |    |           |      |    | A0717     | 43,7 | 60 | 32 | 32-31,5  |

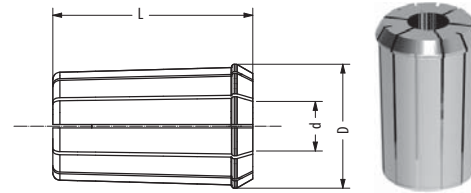
● MANUFACTURING MATERIAL ● OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

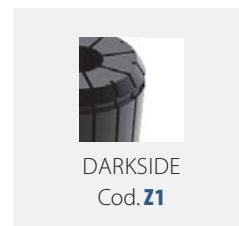
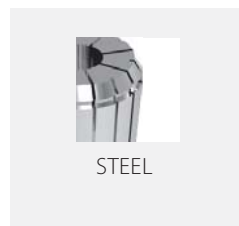
# EOC Collets Din 6388/B in imperial measures

The broadness of IMS collets selection allows you to interface and use a collet chuck with a wide range of tools. Thanks to the different degrees of precision and to the optional anti-rust treatments, the IMS collets line satisfies every request and is suitable for any routing and milling application.



| EOC 20 B  |      |    | EOC 25 B  |      |    | EOC 32 B  |      |    |        |
|-----------|------|----|-----------|------|----|-----------|------|----|--------|
| Part code | D    | L  | Part code | D    | L  | Part code | D    | L  | d      |
| A0718     | 29,8 | 45 | -         | -    | -  | -         | -    | -  | 3/64"  |
| A0719     | 29,8 | 45 | -         | -    | -  | -         | -    | -  | 1/16"  |
| A0720     | 29,8 | 45 | A0738     | 35,5 | 52 | -         | -    | -  | 3/32"  |
| A0721     | 29,8 | 45 | A0739     | 35,5 | 52 | -         | -    | -  | 1/8"   |
| A0722     | 29,8 | 45 | A0740     | 35,5 | 52 | -         | -    | -  | 5/32"  |
| A0723     | 29,8 | 45 | A0741     | 35,5 | 52 | -         | -    | -  | 3/16"  |
| A0724     | 29,8 | 45 | A0742     | 35,5 | 52 | -         | -    | -  | 7/32"  |
| A0725     | 29,8 | 45 | A0743     | 35,5 | 52 | A0761     | 43,7 | 60 | 1/4"   |
| A0726     | 29,8 | 45 | A0744     | 35,5 | 52 | A0762     | 43,7 | 60 | 9/32"  |
| A0727     | 29,8 | 45 | A0745     | 35,5 | 52 | A0763     | 43,7 | 60 | 5/16"  |
| A0728     | 29,8 | 45 | A0746     | 35,5 | 52 | A0764     | 43,7 | 60 | 11/32" |
| A0729     | 29,8 | 45 | A0747     | 35,5 | 52 | A0765     | 43,7 | 60 | 3/8"   |
| A0730     | 29,8 | 45 | A0748     | 35,5 | 52 | A0766     | 43,7 | 60 | 13/32" |
| A0731     | 29,8 | 45 | A0749     | 35,5 | 52 | A0767     | 43,7 | 60 | 7/16"  |
| A0732     | 29,8 | 45 | A0750     | 35,5 | 52 | A0768     | 43,7 | 60 | 15/32" |
| A0733     | 29,8 | 45 | A0751     | 35,5 | 52 | A0769     | 43,7 | 60 | 1/2"   |
| A0734     | 29,8 | 45 | A0752     | 35,5 | 52 | A0770     | 43,7 | 60 | 17/32" |
| A0735     | 29,8 | 45 | A0753     | 35,5 | 52 | A0771     | 43,7 | 60 | 9/16"  |
| A0736     | 29,8 | 45 | A0754     | 35,5 | 52 | A0772     | 43,7 | 60 | 19/32" |
| A0737     | 29,8 | 45 | A0755     | 35,5 | 52 | A0773     | 43,7 | 60 | 5/8"   |
|           |      |    | A0756     | 35,5 | 52 | A0774     | 43,7 | 60 | 21/32" |
|           |      |    | A0757     | 35,5 | 52 | A0775     | 43,7 | 60 | 11/16" |
|           |      |    | A0758     | 35,5 | 52 | A0776     | 43,7 | 60 | 23/32" |
|           |      |    | A0759     | 35,5 | 52 | A0777     | 43,7 | 60 | 3/4"   |
|           |      |    | A0760     | 35,5 | 52 | A0778     | 43,7 | 60 | 13/16" |
|           |      |    |           |      |    | A0779     | 43,7 | 60 | 27/32" |
|           |      |    |           |      |    | A0780     | 43,7 | 60 | 7/8"   |
|           |      |    |           |      |    | A0781     | 43,7 | 60 | 29/32" |
|           |      |    |           |      |    | A0782     | 43,7 | 60 | 15/16" |
|           |      |    |           |      |    | A0783     | 43,7 | 60 | 31/32" |
|           |      |    |           |      |    | A0784     | 43,7 | 60 | 1"     |
|           |      |    |           |      |    | A0785     | 43,7 | 60 | 1"1/4" |

● MANUFACTURING MATERIAL ● OPTIONAL FINISHES\*

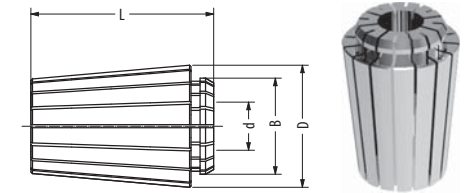


\*By choosing optional materials, the specific hardness may vary.



# E-TS Collets

The broadness of IMS collets selection allows you to interface and use a collet chuck with a wide range of tools. Thanks to the different degrees of precision and to the optional anti-rust treatments, the IMS collets line satisfies every request and is suitable for any routing and milling application.



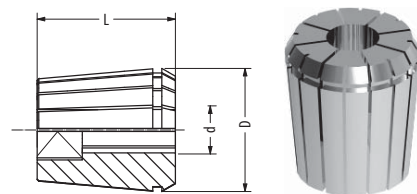
| E-TS 16   |    |    |      | E-TS 20   |    |      | E-TS 25 |           |    | E-TS 32 |    |           | E-TS 40 |    |      |           |    |    |    |    |          |
|-----------|----|----|------|-----------|----|------|---------|-----------|----|---------|----|-----------|---------|----|------|-----------|----|----|----|----|----------|
| Part code | D  | L  | b    | Part code | D  | L    | b       | Part code | D  | L       | b  | Part code | D       | L  | b    | Part code | D  | L  | b  | d  | Capacity |
| A0535     | 17 | 24 | 13,6 | A0544     | 21 | 30,5 | 17      | A0555     | 26 | 34      | 21 | -         | -       | -  | -    | -         | -  | -  | -  | 2  | 2-1      |
| A0536     | 17 | 24 | 13,6 | A0545     | 21 | 30,5 | 17      | A0556     | 26 | 34      | 21 | A0571     | 33      | 40 | 27,2 | -         | -  | -  | -  | 3  | 3-2      |
| A0537     | 17 | 24 | 13,6 | A0546     | 21 | 30,5 | 17      | A0557     | 26 | 34      | 21 | A0572     | 33      | 40 | 27,2 | A0589     | 41 | 46 | 32 | 4  | 4-3      |
| A0538     | 17 | 24 | 13,6 | A0547     | 21 | 30,5 | 17      | A0558     | 26 | 34      | 21 | A0573     | 33      | 40 | 27,2 | A0590     | 41 | 46 | 32 | 5  | 5-4      |
| A0539     | 17 | 24 | 13,6 | A0548     | 21 | 30,5 | 17      | A0559     | 26 | 34      | 21 | A0574     | 33      | 40 | 27,2 | A0591     | 41 | 46 | 32 | 6  | 6-5      |
| A0540     | 17 | 24 | 13,6 | A0549     | 21 | 30,5 | 17      | A0560     | 26 | 34      | 21 | A0575     | 33      | 40 | 27,2 | A0592     | 41 | 46 | 32 | 7  | 7-6      |
| A0541     | 17 | 24 | 13,6 | A0550     | 21 | 30,5 | 17      | A0561     | 26 | 34      | 21 | A0576     | 33      | 40 | 27,2 | A0593     | 41 | 46 | 32 | 8  | 8-7      |
| A0542     | 17 | 24 | 13,6 | A0551     | 21 | 30,5 | 17      | A0562     | 26 | 34      | 21 | A0577     | 33      | 40 | 27,2 | A0594     | 41 | 46 | 32 | 9  | 9-8      |
| A0543     | 17 | 24 | 13,6 | A0552     | 21 | 30,5 | 17      | A0563     | 26 | 34      | 21 | A0578     | 33      | 40 | 27,2 | A0595     | 41 | 46 | 32 | 10 | 10-9     |
|           |    |    |      | A0553     | 21 | 30,5 | 17      | A0564     | 26 | 34      | 21 | A0579     | 33      | 40 | 27,2 | A0596     | 41 | 46 | 32 | 11 | 11-10    |
|           |    |    |      | A0554     | 21 | 30,5 | 17      | A0565     | 26 | 34      | 21 | A0580     | 33      | 40 | 27,2 | A0597     | 41 | 46 | 32 | 12 | 12-11    |
|           |    |    |      |           |    |      |         | A0566     | 26 | 34      | 21 | A0581     | 33      | 40 | 27,2 | A0598     | 41 | 46 | 32 | 13 | 13-12    |
|           |    |    |      |           |    |      |         | A0567     | 26 | 34      | 21 | A0582     | 33      | 40 | 27,2 | A0599     | 41 | 46 | 32 | 14 | 14-13    |
|           |    |    |      |           |    |      |         | A0568     | 26 | 34      | 21 | A0583     | 33      | 40 | 27,2 | A0600     | 41 | 46 | 32 | 15 | 15-14    |
|           |    |    |      |           |    |      |         | A0569     | 26 | 34      | 21 | A0584     | 33      | 40 | 27,2 | A0601     | 41 | 46 | 32 | 16 | 16-15    |
|           |    |    |      |           |    |      |         | A0570     | 26 | 34      | 21 | A0585     | 33      | 40 | 27,2 | A0602     | 41 | 46 | 32 | 17 | 17-16    |
|           |    |    |      |           |    |      |         |           |    |         |    | A0586     | 33      | 40 | 27,2 | A0603     | 41 | 46 | 32 | 18 | 18-17    |
|           |    |    |      |           |    |      |         |           |    |         |    | A0587     | 33      | 40 | 27,2 | A0604     | 41 | 46 | 32 | 19 | 19-18    |
|           |    |    |      |           |    |      |         |           |    |         |    | A0588     | 33      | 40 | 27,2 | A0605     | 41 | 46 | 32 | 20 | 20-19    |
|           |    |    |      |           |    |      |         |           |    |         |    |           |         |    |      | A0606     | 41 | 46 | 32 | 21 | 21-20    |
|           |    |    |      |           |    |      |         |           |    |         |    |           |         |    |      | A0607     | 41 | 46 | 32 | 22 | 22-21    |
|           |    |    |      |           |    |      |         |           |    |         |    |           |         |    |      | A0608     | 41 | 46 | 32 | 23 | 23-22    |
|           |    |    |      |           |    |      |         |           |    |         |    |           |         |    |      | A0609     | 41 | 46 | 32 | 24 | 24-23    |
|           |    |    |      |           |    |      |         |           |    |         |    |           |         |    |      | A0610     | 41 | 46 | 32 | 25 | 25-24    |
|           |    |    |      |           |    |      |         |           |    |         |    |           |         |    |      | A0611     | 41 | 46 | 32 | 26 | 26-25    |

● MANUFACTURING MATERIAL



# ER collets "MF" for tapping

The broadness of IMS collets selection allows you to interface and use a collet chuck with a wide range of tools. Thanks to the different degrees of precision and to the optional anti-rust treatments, the IMS collets line satisfies every request and is suitable for any routing and milling application.



| ER11      |      |    | ER16      |    |      | ER20      |    |      | ER25      |    |    |      |
|-----------|------|----|-----------|----|------|-----------|----|------|-----------|----|----|------|
| Part code | D    | L  | Part code | D  | L    | Part code | D  | L    | Part code | D  | L  | d    |
| A0786     | 11,5 | 18 | A0794     | 17 | 27,5 | A0807     | 21 | 31,5 | A0822     | 26 | 34 | 3,5  |
| A0787     | 11,5 | 18 | A0795     | 17 | 27,5 | A0808     | 21 | 31,5 | A0823     | 26 | 34 | 3,55 |
| A0788     | 11,5 | 18 | A0796     | 17 | 27,5 | A0809     | 21 | 31,5 | A0824     | 26 | 34 | 4    |
| A0789     | 11,5 | 18 | A0797     | 17 | 27,5 | A0810     | 21 | 31,5 | A0825     | 26 | 34 | 4,5  |
| A0790     | 11,5 | 18 | A0798     | 17 | 27,5 | A0811     | 21 | 31,5 | A0826     | 26 | 34 | 5    |
| A0791     | 11,5 | 18 | A0799     | 17 | 27,5 | A0812     | 21 | 31,5 | A0827     | 26 | 34 | 5,5  |
| A0792     | 11,5 | 18 | A0800     | 17 | 27,5 | A0813     | 21 | 31,5 | A0828     | 26 | 34 | 5,6  |
| A0793     | 11,5 | 18 | A0801     | 17 | 27,5 | A0814     | 21 | 31,5 | A0829     | 26 | 34 | 6    |
|           |      |    | A0802     | 17 | 27,5 | A0815     | 21 | 31,5 | A0830     | 26 | 34 | 6,2  |
|           |      |    | A0803     | 17 | 27,5 | A0816     | 21 | 31,5 | A0831     | 26 | 34 | 6,3  |
|           |      |    | A0804     | 17 | 27,5 | A0817     | 21 | 31,5 | A0832     | 26 | 34 | 7    |
|           |      |    | A0805     | 17 | 27,5 | A0818     | 21 | 31,5 | A0833     | 26 | 34 | 7,1  |
|           |      |    | A0806     | 17 | 27,5 | A0819     | 21 | 31,5 | A0834     | 26 | 34 | 8    |
|           |      |    |           |    |      | A0820     | 21 | 31,5 | A0835     | 26 | 34 | 9    |
|           |      |    |           |    |      | A0821     | 21 | 31,5 | A0836     | 26 | 34 | 10   |
|           |      |    |           |    |      |           |    |      | A0837     | 26 | 34 | 11   |
|           |      |    |           |    |      |           |    |      | A0838     | 26 | 34 | 11,2 |
|           |      |    |           |    |      |           |    |      | A0839     | 26 | 34 | 12,5 |

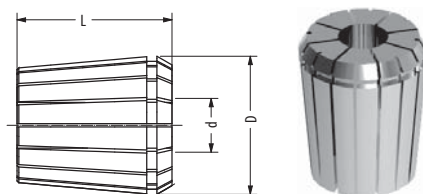
● MANUFACTURING MATERIAL



| ER32      |    |    | ER40      |    |    | ER50      |    |    |      |
|-----------|----|----|-----------|----|----|-----------|----|----|------|
| Part code | D  | L  | Part code | D  | L  | Part code | D  | L  | d    |
| A0840     | 33 | 40 | -         | -  | -  | -         | -  | -  | 4    |
| A0841     | 33 | 40 | -         | -  | -  | -         | -  | -  | 4,5  |
| A0842     | 33 | 40 | -         | -  | -  | -         | -  | -  | 5    |
| A0843     | 33 | 40 | -         | -  | -  | -         | -  | -  | 5,5  |
| A0844     | 33 | 40 | -         | -  | -  | -         | -  | -  | 5,6  |
| A0845     | 33 | 40 | A0858     | 41 | 46 | -         | -  | -  | 6    |
| A0846     | 33 | 40 | A0859     | 41 | 46 | -         | -  | -  | 6,2  |
| A0847     | 33 | 40 | A0860     | 41 | 46 | -         | -  | -  | 6,3  |
| A0848     | 33 | 40 | A0861     | 41 | 46 | -         | -  | -  | 7    |
| A0849     | 33 | 40 | A0862     | 41 | 46 | -         | -  | -  | 7,1  |
| A0850     | 33 | 40 | A0863     | 41 | 46 | A0873     | 52 | 60 | 8    |
| A0851     | 33 | 40 | A0864     | 41 | 46 | A0874     | 52 | 60 | 9    |
| A0852     | 33 | 40 | A0865     | 41 | 46 | A0875     | 52 | 60 | 10   |
| A0853     | 33 | 40 | A0866     | 41 | 46 | A0876     | 52 | 60 | 11   |
| A0854     | 33 | 40 | A0867     | 41 | 46 | A0877     | 52 | 60 | 11,2 |
| A0855     | 33 | 40 | A0868     | 41 | 46 | A0878     | 52 | 60 | 12,5 |
| A0856     | 33 | 40 | A0869     | 41 | 46 | A0879     | 52 | 60 | 14   |
| A0857     | 33 | 40 | A0870     | 41 | 46 | A0880     | 52 | 60 | 16   |
|           |    |    | A0871     | 41 | 46 | A0881     | 52 | 60 | 18   |
|           |    |    | A0872     | 41 | 46 | A0882     | 52 | 60 | 20   |
|           |    |    |           |    |    | A0883     | 52 | 60 | 22   |
|           |    |    |           |    |    | A0884     | 52 | 60 | 22,4 |
|           |    |    |           |    |    | A0885     | 52 | 60 | 25   |
|           |    |    |           |    |    | A0886     | 52 | 60 | 28   |
|           |    |    |           |    |    | A0887     | 52 | 60 | 31,5 |
|           |    |    |           |    |    | A0888     | 52 | 60 | 32   |

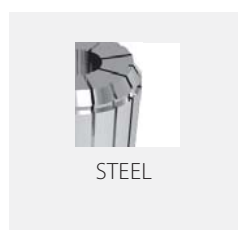
# ER collets "RF" sealed

The broadness of IMS collets selection allows you to interface and use a collet chuck with a wide range of tools. Thanks to the different degrees of precision and to the optional anti-rust treatments, the IMS collets line satisfies every request and is suitable for any routing and milling application.



| ER11      |                 |      |    | ER16      |                 |    |      | ER20      |                 |    |      | ER25      |                 |    |    |      |
|-----------|-----------------|------|----|-----------|-----------------|----|------|-----------|-----------------|----|------|-----------|-----------------|----|----|------|
| Standard  | Ultra Precision | D    | L  | Standard  | Ultra Precision | D  | L    | Standard  | Ultra Precision | D  | L    | Standard  | Ultra Precision | D  | L  | d    |
| Part code | Part code       |      |    | Part code | Part code       |    |      | Part code | Part code       |    |      | Part code | Part code       |    |    |      |
| A0971     | A1162           | 11,5 | 18 | A0982     | A1173           | 17 | 27,5 | -         | -               | -  | -    | -         | -               | -  | -  | 1    |
| A0972     | A1163           | 11,5 | 18 | A0983     | A1174           | 17 | 27,5 | A0996     | A1187           | 21 | 31,5 | A1015     | A1015           | 26 | 34 | 2    |
| A0973     | A1164           | 11,5 | 18 | A0984     | A1175           | 17 | 27,5 | A0997     | A1188           | 21 | 31,5 | A1016     | A1016           | 26 | 34 | 3    |
| A0974     | A1165           | 11,5 | 18 | A0985     | A1176           | 17 | 27,5 | A0998     | A1189           | 21 | 31,5 | A1017     | A1017           | 26 | 34 | 3,5  |
| A0975     | A1166           | 11,5 | 18 | A0986     | A1177           | 17 | 27,5 | A0999     | A1190           | 21 | 31,5 | A1018     | A1018           | 26 | 34 | 4    |
| A0976     | A1167           | 11,5 | 18 | A0987     | A1178           | 17 | 27,5 | A1000     | A1191           | 21 | 31,5 | A1019     | A1019           | 26 | 34 | 4,5  |
| A0977     | A1168           | 11,5 | 18 | A0988     | A1179           | 17 | 27,5 | A1001     | A1192           | 21 | 31,5 | A1020     | A1020           | 26 | 34 | 5    |
| A0978     | A1169           | 11,5 | 18 | A0989     | A1180           | 17 | 27,5 | A1002     | A1193           | 21 | 31,5 | A1021     | A1021           | 26 | 34 | 5,5  |
| A0979     | A1170           | 11,5 | 18 | A0990     | A1181           | 17 | 27,5 | A1003     | A1194           | 21 | 31,5 | A1022     | A1022           | 26 | 34 | 6    |
| A0980     | A1171           | 11,5 | 18 | A0991     | A1182           | 17 | 27,5 | A1004     | A1195           | 21 | 31,5 | A1023     | A1023           | 26 | 34 | 6,5  |
| A0981     | A1172           | 11,5 | 18 | A0992     | A1183           | 17 | 27,5 | A1005     | A1196           | 21 | 31,5 | A1024     | A1024           | 26 | 34 | 7    |
| -         | -               | -    | -  | -         | -               | -  | -    | A1006     | A1197           | 21 | 31,5 | A1025     | A1025           | 26 | 34 | 7,5  |
| -         | -               | -    | -  | A0993     | A1184           | 17 | 27,5 | A1007     | A1198           | 21 | 31,5 | A1026     | A1026           | 26 | 34 | 8    |
| -         | -               | -    | -  | -         | -               | -  | -    | A1008     | A1199           | 21 | 31,5 | A1027     | A1027           | 26 | 34 | 8,5  |
| -         | -               | -    | -  | A0994     | A1185           | 17 | 27,5 | A1009     | A1200           | 21 | 31,5 | A1028     | A1028           | 26 | 34 | 9    |
| -         | -               | -    | -  | -         | -               | -  | -    | A1010     | A1201           | 21 | 31,5 | A1029     | A1029           | 26 | 34 | 9,5  |
| -         | -               | -    | -  | A0995     | A1186           | 17 | 27,5 | A1011     | A1202           | 21 | 31,5 | A1030     | A1030           | 26 | 34 | 10   |
| -         | -               | -    | -  | -         | -               | -  | -    | -         | -               | -  | -    | A1031     | A1031           | 26 | 34 | 10,5 |
| -         | -               | -    | -  | -         | -               | -  | -    | A1012     | A1203           | 21 | 31,5 | A1032     | A1032           | 26 | 34 | 11   |
| -         | -               | -    | -  | -         | -               | -  | -    | -         | -               | -  | -    | A1033     | A1033           | 26 | 34 | 11,5 |
| -         | -               | -    | -  | -         | -               | -  | -    | A1013     | A1204           | 21 | 31,5 | A1034     | A1034           | 26 | 34 | 12   |
| -         | -               | -    | -  | -         | -               | -  | -    | -         | -               | -  | -    | A1035     | A1035           | 26 | 34 | 12,5 |
| -         | -               | -    | -  | -         | -               | -  | -    | A1014     | A1205           | 21 | 31,5 | A1036     | A1036           | 26 | 34 | 13   |
| -         | -               | -    | -  | -         | -               | -  | -    | -         | -               | -  | -    | A1037     | A1037           | 26 | 34 | 14   |
| -         | -               | -    | -  | -         | -               | -  | -    | -         | -               | -  | -    | A1038     | A1038           | 26 | 34 | 15   |
| -         | -               | -    | -  | -         | -               | -  | -    | -         | -               | -  | -    | A1039     | A1039           | 26 | 34 | 16   |

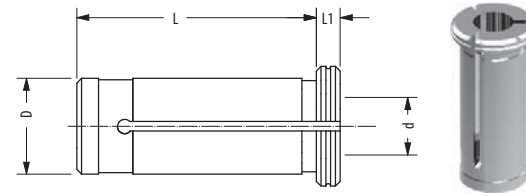
● MANUFACTURING MATERIAL



| ER32      |                 |    |    | ER40      |                 |    |    | ER50      |                 |    |    |      |
|-----------|-----------------|----|----|-----------|-----------------|----|----|-----------|-----------------|----|----|------|
| Standard  | Ultra Precision | D  | L  | Standard  | Ultra Precision | D  | L  | Standard  | Ultra Precision | D  | L  | d    |
| Part code | Part code       |    |    | Part code | Part code       |    |    | Part code | Part code       |    |    |      |
| A1040     | A1231           | 33 | 40 | -         | -               | -  | -  | -         | -               | -  | -  | 3    |
| A1041     | A1232           | 33 | 40 | A1071     | A1262           | 41 | 46 | -         | -               | -  | -  | 3,5  |
| A1042     | A1233           | 33 | 40 | A1072     | A1263           | 41 | 46 | -         | -               | -  | -  | 4    |
| A1043     | A1234           | 33 | 40 | A1073     | A1264           | 41 | 46 | -         | -               | -  | -  | 4,5  |
| A1044     | A1235           | 33 | 40 | A1074     | A1265           | 41 | 46 | A1111     | A1302           | 52 | 60 | 5    |
| A1045     | A1236           | 33 | 40 | A1075     | A1266           | 41 | 46 | A1112     | A1303           | 52 | 60 | 5,5  |
| A1046     | A1237           | 33 | 40 | A1076     | A1267           | 41 | 46 | A1113     | A1304           | 52 | 60 | 6    |
| A1047     | A1238           | 33 | 40 | A1077     | A1268           | 41 | 46 | A1114     | A1305           | 52 | 60 | 6,5  |
| A1048     | A1239           | 33 | 40 | A1078     | A1269           | 41 | 46 | A1115     | A1306           | 52 | 60 | 7    |
| A1049     | A1240           | 33 | 40 | A1079     | A1270           | 41 | 46 | A1116     | A1307           | 52 | 60 | 7,5  |
| A1050     | A1241           | 33 | 40 | A1080     | A1271           | 41 | 46 | A1117     | A1308           | 52 | 60 | 8    |
| A1051     | A1242           | 33 | 40 | A1081     | A1272           | 41 | 46 | A1118     | A1309           | 52 | 60 | 8,5  |
| A1052     | A1243           | 33 | 40 | A1082     | A1273           | 41 | 46 | A1119     | A1310           | 52 | 60 | 9    |
| A1053     | A1244           | 33 | 40 | A1083     | A1274           | 41 | 46 | A1120     | A1311           | 52 | 60 | 9,5  |
| A1054     | A1245           | 33 | 40 | A1084     | A1275           | 41 | 46 | A1121     | A1312           | 52 | 60 | 10   |
| A1055     | A1246           | 33 | 40 | A1085     | A1276           | 41 | 46 | A1122     | A1313           | 52 | 60 | 10,5 |
| A1056     | A1247           | 33 | 40 | A1086     | A1277           | 41 | 46 | A1123     | A1314           | 52 | 60 | 11   |
| A1057     | A1248           | 33 | 40 | A1087     | A1278           | 41 | 46 | A1124     | A1315           | 52 | 60 | 11,5 |
| A1058     | A1249           | 33 | 40 | A1088     | A1279           | 41 | 46 | A1125     | A1316           | 52 | 60 | 12   |
| A1059     | A1250           | 33 | 40 | A1089     | A1280           | 41 | 46 | A1126     | A1317           | 52 | 60 | 12,5 |
| A1060     | A1251           | 33 | 40 | A1090     | A1281           | 41 | 46 | A1127     | A1318           | 52 | 60 | 13   |
| A1061     | A1252           | 33 | 40 | A1091     | A1282           | 41 | 46 | A1128     | A1319           | 52 | 60 | 13,5 |
| A1062     | A1253           | 33 | 40 | A1092     | A1283           | 41 | 46 | A1129     | A1320           | 52 | 60 | 14   |
| A1063     | A1254           | 33 | 40 | A1093     | A1284           | 41 | 46 | A1130     | A1321           | 52 | 60 | 14,5 |
| A1064     | A1255           | 33 | 40 | A1094     | A1285           | 41 | 46 | A1131     | A1322           | 52 | 60 | 15   |
| A1065     | A1256           | 33 | 40 | A1095     | A1286           | 41 | 46 | A1132     | A1323           | 52 | 60 | 15,5 |
| A1066     | A1257           | 33 | 40 | A1096     | A1287           | 41 | 46 | A1133     | A1324           | 52 | 60 | 16   |
| -         | -               | -  | -  | A1097     | A1288           | 41 | 46 | A1134     | A1325           | 52 | 60 | 16,5 |
| A1067     | A1258           | 33 | 40 | A1098     | A1289           | 41 | 46 | A1135     | A1326           | 52 | 60 | 17   |
| -         | -               | -  | -  | A1099     | A1290           | 41 | 46 | A1136     | A1327           | 52 | 60 | 17,5 |
| A1068     | A1259           | 33 | 40 | A1100     | A1291           | 41 | 46 | A1137     | A1328           | 52 | 60 | 18   |
| -         | -               | -  | -  | A1101     | A1292           | 41 | 46 | A1138     | A1329           | 52 | 60 | 18,5 |
| A1069     | A1260           | 33 | 40 | A1102     | A1293           | 41 | 46 | A1139     | A1330           | 52 | 60 | 19   |
| -         | -               | -  | -  | A1103     | A1294           | 41 | 46 | A1140     | A1331           | 52 | 60 | 19,5 |
| A1070     | A1261           | 33 | 40 | A1104     | A1295           | 41 | 46 | A1141     | A1332           | 52 | 60 | 20   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1142     | A1333           | 52 | 60 | 20,5 |
| -         | -               | -  | -  | A1105     | A1296           | 41 | 46 | A1143     | A1334           | 52 | 60 | 21   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1144     | A1335           | 52 | 60 | 21,5 |
| -         | -               | -  | -  | A1106     | A1297           | 41 | 46 | A1145     | A1336           | 52 | 60 | 22   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1146     | A1337           | 52 | 60 | 22,5 |
| -         | -               | -  | -  | A1107     | A1298           | 41 | 46 | A1147     | A1338           | 52 | 60 | 23   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1148     | A1339           | 52 | 60 | 23,5 |
| -         | -               | -  | -  | A1108     | A1299           | 41 | 46 | A1149     | A1340           | 52 | 60 | 24   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1150     | A1341           | 52 | 60 | 24,5 |
| -         | -               | -  | -  | A1109     | A1300           | 41 | 46 | A1151     | A1342           | 52 | 60 | 25   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1152     | A1343           | 52 | 60 | 25,5 |
| -         | -               | -  | -  | A1110     | A1301           | 41 | 46 | A1153     | A1344           | 52 | 60 | 26   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1154     | A1345           | 52 | 60 | 27   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1155     | A1346           | 52 | 60 | 28   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1156     | A1347           | 52 | 60 | 29   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1157     | A1348           | 52 | 60 | 30   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1158     | A1349           | 52 | 60 | 31   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1159     | A1350           | 52 | 60 | 32   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1160     | A1351           | 52 | 60 | 33   |
| -         | -               | -  | -  | -         | -               | -  | -  | A1161     | A1352           | 52 | 60 | 34   |

# Cylindrical collets

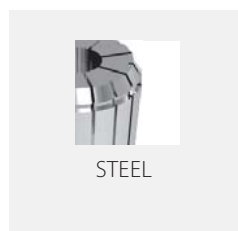
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## CYLINDRICAL COLLETS

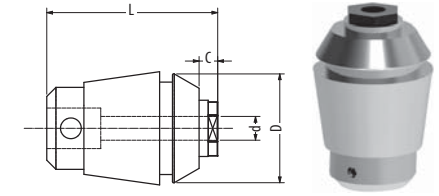
| Part code | Description        | D  | d  | L  | L1 |
|-----------|--------------------|----|----|----|----|
| A1353     | cylindrical collet | 20 | 4  | 50 | 5  |
| A1354     | cylindrical collet | 20 | 6  | 50 | 5  |
| A1355     | cylindrical collet | 20 | 8  | 50 | 5  |
| A1356     | cylindrical collet | 20 | 10 | 50 | 5  |
| A1357     | cylindrical collet | 20 | 12 | 50 | 5  |
| A1358     | cylindrical collet | 20 | 14 | 50 | 5  |
| A1359     | cylindrical collet | 20 | 16 | 50 | 5  |
| A1360     | cylindrical collet | 25 | 4  | 55 | 5  |
| A1361     | cylindrical collet | 25 | 6  | 55 | 5  |
| A1362     | cylindrical collet | 25 | 8  | 55 | 5  |
| A1363     | cylindrical collet | 25 | 10 | 55 | 5  |
| A1364     | cylindrical collet | 25 | 12 | 55 | 5  |
| A1365     | cylindrical collet | 25 | 16 | 55 | 5  |
| A1366     | cylindrical collet | 25 | 20 | 55 | 5  |
| A1367     | cylindrical collet | 32 | 4  | 60 | 5  |
| A1368     | cylindrical collet | 32 | 6  | 60 | 5  |
| A1369     | cylindrical collet | 32 | 8  | 60 | 5  |
| A1370     | cylindrical collet | 32 | 10 | 60 | 5  |
| A1371     | cylindrical collet | 32 | 12 | 60 | 5  |
| A1372     | cylindrical collet | 32 | 16 | 60 | 5  |
| A1373     | cylindrical collet | 32 | 20 | 60 | 5  |
| A1374     | cylindrical collet | 32 | 25 | 60 | 5  |

● MANUFACTURING MATERIAL



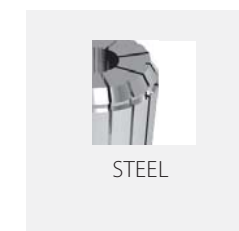
# ER Collets "AM" with traction compensation

The broadness of IMS collets selection allows you to interface and use a collet chuck with a wide range of tools. Thanks to the different degrees of precision and to the optional anti-rust treatments, the IMS collets line satisfies every request and is suitable for any routing and milling application.



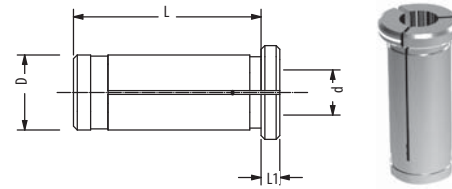
| ER16      |    |    |   | ER20      |    |    |   | ER25      |    |    |       | ER32      |    |       |       | ER40      |    |    |      |      |
|-----------|----|----|---|-----------|----|----|---|-----------|----|----|-------|-----------|----|-------|-------|-----------|----|----|------|------|
| Part code | D  | L  | C | Part code | D  | L  | C | Part code | D  | L  | C     | Part code | D  | L     | C     | Part code | D  | L  | C    | d    |
| A0889     | 17 | 27 | 7 | -         | -  | -  | - | -         | -  | -  | -     | -         | -  | -     | -     | -         | -  | -  | -    | 1,4  |
| A0890     | 17 | 27 | 7 | -         | -  | -  | - | -         | -  | -  | -     | -         | -  | -     | -     | -         | -  | -  | -    | 1,6  |
| A0891     | 17 | 27 | 7 | -         | -  | -  | - | -         | -  | -  | -     | -         | -  | -     | -     | -         | -  | -  | -    | 1,8  |
| A0892     | 17 | 27 | 7 | -         | -  | -  | - | -         | -  | -  | -     | -         | -  | -     | -     | -         | -  | -  | -    | 2    |
| A0893     | 17 | 27 | 7 | A0907     | 21 | 31 | 7 | -         | -  | -  | -     | -         | -  | -     | -     | -         | -  | -  | -    | 2,2  |
| A0894     | 17 | 27 | 7 | A0908     | 21 | 31 | 7 | -         | -  | -  | -     | -         | -  | -     | -     | -         | -  | -  | -    | 2,24 |
| A0895     | 17 | 27 | 7 | A0909     | 21 | 31 | 7 | A0924     | 26 | 34 | 8     | -         | -  | -     | -     | -         | -  | -  | -    | 2,5  |
| A0896     | 17 | 27 | 7 | A0910     | 21 | 31 | 7 | A0925     | 26 | 34 | 8     | -         | -  | -     | -     | -         | -  | -  | -    | 2,8  |
| A0897     | 17 | 27 | 7 | A0911     | 21 | 31 | 7 | A0926     | 26 | 34 | 8     | -         | -  | -     | -     | -         | -  | -  | -    | 3    |
| A0898     | 17 | 27 | 7 | A0912     | 21 | 31 | 7 | A0927     | 26 | 34 | 8     | -         | -  | -     | -     | -         | -  | -  | -    | 3,15 |
| A0899     | 17 | 27 | 7 | A0913     | 21 | 31 | 7 | A0928     | 26 | 34 | 8     | -         | -  | -     | -     | -         | -  | -  | -    | 3,5  |
| A0900     | 17 | 27 | 7 | A0914     | 21 | 31 | 7 | A0929     | 26 | 34 | 8     | -         | -  | -     | -     | -         | -  | -  | -    | 3,55 |
| A0901     | 17 | 27 | 7 | A0915     | 21 | 31 | 7 | A0930     | 26 | 34 | 8     | -         | -  | -     | -     | -         | -  | -  | -    | 4    |
| A0902     | 17 | 27 | 7 | A0916     | 21 | 31 | 7 | A0931     | 26 | 34 | 8     | A0943     | 33 | 43    | 10    | -         | -  | -  | -    | 4,5  |
| A0903     | 17 | 27 | 7 | A0917     | 21 | 31 | 7 | A0932     | 26 | 34 | 8     | A0944     | 33 | 43    | 10    | -         | -  | -  | -    | 5    |
| A0904     | 17 | 27 | 7 | A0918     | 21 | 31 | 7 | A0933     | 26 | 34 | 8     | A0945     | 33 | 43    | 10    | -         | -  | -  | -    | 5,5  |
| A0905     | 17 | 27 | 7 | A0919     | 21 | 31 | 7 | A0934     | 26 | 34 | 8     | A0946     | 33 | 43    | 10    | -         | -  | -  | -    | 5,6  |
| A0906     | 17 | 27 | 7 | A0920     | 21 | 31 | 7 | A0935     | 26 | 34 | 8     | A0947     | 33 | 43    | 10    | A0958     | 41 | 54 | 13   | 6    |
|           |    |    |   | A0921     | 21 | 31 | 7 | A0936     | 26 | 34 | 8     | A0948     | 33 | 43    | 10    | A0959     | 41 | 54 | 13   | 6,2  |
|           |    |    |   | A0922     | 21 | 31 | 7 | A0937     | 26 | 34 | 8     | A0949     | 33 | 43    | 10    | A0960     | 41 | 54 | 13   | 6,3  |
|           |    |    |   | A0923     | 21 | 31 | 7 | A0938     | 26 | 34 | 8     | A0950     | 33 | 43    | 10    | A0961     | 41 | 54 | 13   | 7    |
|           |    |    |   |           |    |    |   | A0939     | 26 | 34 | 8     | A0951     | 33 | 43    | 10    | A0962     | 41 | 54 | 13   | 7,1  |
|           |    |    |   |           |    |    |   | A0940     | 26 | 34 | 8     | A0952     | 33 | 43    | 10    | A0963     | 41 | 54 | 13   | 8    |
|           |    |    |   |           |    |    |   | A0941     | 26 | 34 | 8     | A0953     | 33 | 43    | 10    | A0964     | 41 | 54 | 13   | 9    |
|           |    |    |   |           |    |    |   | A0942     | 26 | 34 | 8     | A0954     | 33 | 43    | 10    | A0965     | 41 | 54 | 13   | 10   |
|           |    |    |   |           |    |    |   |           |    |    | A0955 | 33        | 43 | 10    | A0966 | 41        | 54 | 13 | 11   |      |
|           |    |    |   |           |    |    |   |           |    |    | A0956 | 33        | 43 | 10    | A0967 | 41        | 54 | 13 | 11,2 |      |
|           |    |    |   |           |    |    |   |           |    |    | A0957 | 33        | 43 | 10    | A0968 | 41        | 54 | 13 | 12,5 |      |
|           |    |    |   |           |    |    |   |           |    |    |       |           |    | A0969 | 41    | 54        | 13 | 14 |      |      |
|           |    |    |   |           |    |    |   |           |    |    |       |           |    | A0970 | 41    | 54        | 13 | 16 |      |      |

● MANUFACTURING MATERIAL



# Collets for Hydro Chucks

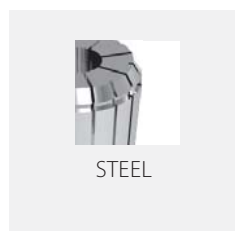
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### COLLETS FOR HYDRO CHUCKS

| Part code | Description             | D  | d  | L  | L1 | Capacity |
|-----------|-------------------------|----|----|----|----|----------|
| A1375     | collet for hydro chucks | 12 | 3  | 44 | 2  | 3        |
| A1376     | collet for hydro chucks | 12 | 4  | 44 | 2  | 4        |
| A1377     | collet for hydro chucks | 12 | 5  | 44 | 2  | 5        |
| A1378     | collet for hydro chucks | 12 | 6  | 44 | 2  | 6        |
| A1379     | collet for hydro chucks | 12 | 7  | 44 | 2  | 7        |
| A1380     | collet for hydro chucks | 12 | 8  | 44 | 2  | 8        |
| A1381     | collet for hydro chucks | 12 | 9  | 44 | 2  | 9        |
| A1382     | collet for hydro chucks | 12 | 10 | 44 | 2  | 10       |
| A1383     | collet for hydro chucks | 20 | 3  | 50 | 2  | 3        |
| A1384     | collet for hydro chucks | 20 | 4  | 50 | 2  | 4        |
| A1385     | collet for hydro chucks | 20 | 5  | 50 | 2  | 5        |
| A1386     | collet for hydro chucks | 20 | 6  | 50 | 2  | 6        |
| A1387     | collet for hydro chucks | 20 | 7  | 50 | 2  | 7        |
| A1388     | collet for hydro chucks | 20 | 8  | 50 | 2  | 8        |
| A1389     | collet for hydro chucks | 20 | 9  | 50 | 2  | 9        |
| A1390     | collet for hydro chucks | 20 | 10 | 50 | 2  | 10       |
| A1391     | collet for hydro chucks | 20 | 11 | 50 | 2  | 11       |
| A1392     | collet for hydro chucks | 20 | 12 | 50 | 2  | 12       |
| A1393     | collet for hydro chucks | 20 | 13 | 50 | 2  | 13       |
| A1394     | collet for hydro chucks | 20 | 14 | 50 | 2  | 14       |
| A1395     | collet for hydro chucks | 20 | 15 | 50 | 2  | 15       |
| A1396     | collet for hydro chucks | 20 | 16 | 50 | 2  | 16       |
| A1397     | collet for hydro chucks | 20 | 17 | 50 | 2  | 17       |
| A1398     | collet for hydro chucks | 20 | 18 | 50 | 2  | 18       |
| A1399     | collet for hydro chucks | 25 | 3  | 56 | 3  | 3        |
| A1400     | collet for hydro chucks | 25 | 4  | 56 | 3  | 4        |

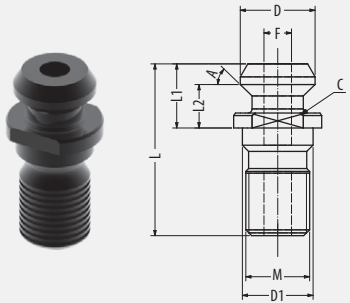
● MANUFACTURING MATERIAL



| Part code | Description             | D  | d  | L  | L1 | Capacity |
|-----------|-------------------------|----|----|----|----|----------|
| A1401     | collet for hydro chucks | 25 | 5  | 56 | 3  | 5        |
| A1402     | collet for hydro chucks | 25 | 6  | 56 | 3  | 6        |
| A1403     | collet for hydro chucks | 25 | 7  | 56 | 3  | 7        |
| A1404     | collet for hydro chucks | 25 | 8  | 56 | 3  | 8        |
| A1405     | collet for hydro chucks | 25 | 9  | 56 | 3  | 9        |
| A1406     | collet for hydro chucks | 25 | 10 | 56 | 3  | 10       |
| A1407     | collet for hydro chucks | 25 | 11 | 56 | 3  | 11       |
| A1408     | collet for hydro chucks | 25 | 12 | 56 | 3  | 12       |
| A1409     | collet for hydro chucks | 25 | 13 | 56 | 3  | 13       |
| A1410     | collet for hydro chucks | 25 | 14 | 56 | 3  | 14       |
| A1411     | collet for hydro chucks | 25 | 15 | 56 | 3  | 15       |
| A1412     | collet for hydro chucks | 25 | 16 | 56 | 3  | 16       |
| A1413     | collet for hydro chucks | 25 | 17 | 56 | 3  | 17       |
| A1414     | collet for hydro chucks | 25 | 18 | 56 | 3  | 18       |
| A1415     | collet for hydro chucks | 25 | 19 | 56 | 3  | 19       |
| A1416     | collet for hydro chucks | 25 | 20 | 56 | 3  | 20       |
| A1417     | collet for hydro chucks | 25 | 21 | 56 | 3  | 21       |
| A1418     | collet for hydro chucks | 25 | 22 | 56 | 3  | 22       |
| A1419     | collet for hydro chucks | 32 | 3  | 60 | 3  | 3        |
| A1420     | collet for hydro chucks | 32 | 4  | 60 | 3  | 4        |
| A1421     | collet for hydro chucks | 32 | 5  | 60 | 3  | 5        |
| A1422     | collet for hydro chucks | 32 | 6  | 60 | 3  | 6        |
| A1423     | collet for hydro chucks | 32 | 7  | 60 | 3  | 7        |
| A1424     | collet for hydro chucks | 32 | 8  | 60 | 3  | 8        |
| A1425     | collet for hydro chucks | 32 | 9  | 60 | 3  | 9        |
| A1426     | collet for hydro chucks | 32 | 10 | 60 | 3  | 10       |
| A1427     | collet for hydro chucks | 32 | 11 | 60 | 3  | 11       |
| A1428     | collet for hydro chucks | 32 | 12 | 60 | 3  | 12       |
| A1429     | collet for hydro chucks | 32 | 13 | 60 | 3  | 13       |
| A1430     | collet for hydro chucks | 32 | 14 | 60 | 3  | 14       |
| A1431     | collet for hydro chucks | 32 | 15 | 60 | 3  | 15       |
| A1432     | collet for hydro chucks | 32 | 16 | 60 | 3  | 16       |
| A1433     | collet for hydro chucks | 32 | 17 | 60 | 3  | 17       |
| A1434     | collet for hydro chucks | 32 | 18 | 60 | 3  | 18       |
| A1435     | collet for hydro chucks | 32 | 19 | 60 | 3  | 19       |
| A1436     | collet for hydro chucks | 32 | 20 | 60 | 3  | 20       |
| A1437     | collet for hydro chucks | 32 | 21 | 60 | 3  | 21       |
| A1438     | collet for hydro chucks | 32 | 22 | 60 | 3  | 22       |
| A1439     | collet for hydro chucks | 32 | 23 | 60 | 3  | 23       |
| A1440     | collet for hydro chucks | 32 | 24 | 60 | 3  | 24       |
| A1441     | collet for hydro chucks | 32 | 25 | 60 | 3  | 25       |
| A1442     | collet for hydro chucks | 32 | 26 | 60 | 3  | 26       |
| A1443     | collet for hydro chucks | 32 | 27 | 60 | 3  | 27       |
| A1444     | collet for hydro chucks | 32 | 28 | 60 | 3  | 28       |

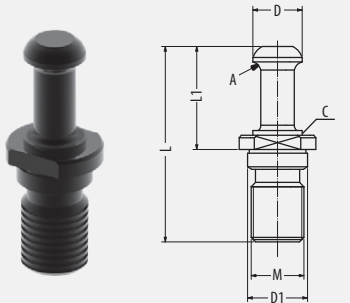
Pull Studs

IMS Pull Studs are manufactured following international standards and are a perfect replacement for the retainer knobs provided by the OEM. The special Darkside treatment provides a total protection against rust, even in the most difficult work environments. On request, IMS Pull Studs can be purchased in the non-Darkside version for increased hardness.

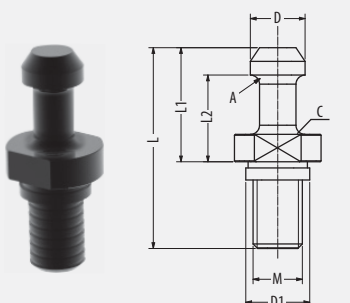
**"MAZAK" PULL STUDS**

| Part code | Description       | SK    | D     | D1 | L     | L1    | L2    | C  | F  | M   | A   |
|-----------|-------------------|-------|-------|----|-------|-------|-------|----|----|-----|-----|
| AAF00     | "Mazak" pull stud | SK 40 | 18,79 | 17 | 41,25 | 16,25 | 11,17 | 19 | 7  | M16 | 45° |
| AAF01     | "Mazak" pull stud | SK 40 | 18,79 | 17 | 44,1  | 19,1  | 14,02 | 19 | 7  | M16 | 45° |
| AAF02     | "Mazak" pull stud | SK 50 | 28,95 | 25 | 65,4  | 25,4  | 17,78 | 30 | 10 | M24 | 45° |



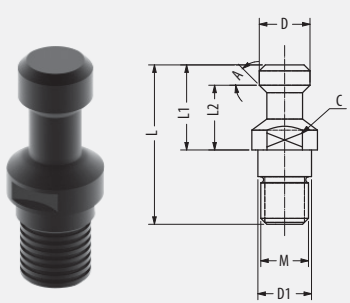
**"RAMBAUDI" PULL STUDS**

| Part code | Description          | SK    | D    | D1 | L    | C  | M   | A      |
|-----------|----------------------|-------|------|----|------|----|-----|--------|
| AAF03     | "Rambaudi" pull stud | SK 40 | 14,6 | 17 | 52   | 19 | M16 | Radius |
| AAF04     | "Rambaudi" pull stud | SK 50 | 20   | 25 | 79,5 | 30 | M24 | Radius |



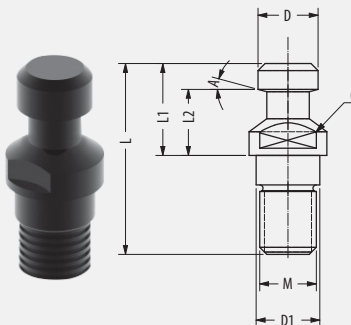
**SK PULL STUDS**

| Part code | Description | SK    | D | D1 | L  | L1 | L2 | C | M  | A      |
|-----------|-------------|-------|---|----|----|----|----|---|----|--------|
| AAF05     | pull stud   | SK 10 | 6 | 7  | 22 | 12 | 10 | 8 | M6 | Radius |



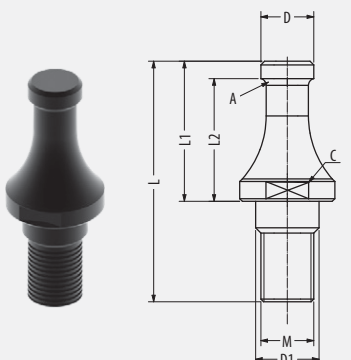
**"COLOMBO & GIORDANO" PULL STUDS**

| Part code | Description                    | SK    | D   | D1  | L  | L1 | L2 | C  | M   | A   |
|-----------|--------------------------------|-------|-----|-----|----|----|----|----|-----|-----|
| AAF06     | "Colombo & Giordano" pull stud | SK 15 | 9   | 6,5 | 23 | 12 | 10 | 8  | M6  | 45° |
| AAF07     | "Colombo & Giordano" pull stud | SK 20 | 8,1 | 8,5 | 27 | 14 | 10 | 9  | M8  | 45° |
| AAF08     | "Colombo & Giordano" pull stud | SK 25 | 10  | 8,5 | 31 | 19 | 14 | 10 | M8  | 45° |
| AAF09     | "Colombo & Giordano" pull stud | SK 30 | 13  | 13  | 44 | 24 | 19 | 14 | M12 | 45° |

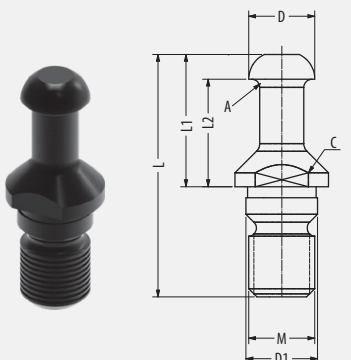
**"ELTE" PULL STUDS**

| Part code | Description      | SK    | D   | D1  | L  | L1 | L2 | C | M  | A   |
|-----------|------------------|-------|-----|-----|----|----|----|---|----|-----|
| AAF10     | "Elte" pull stud | SK 20 | 8,5 | 8,5 | 28 | 14 | 11 | 9 | M8 | 15° |



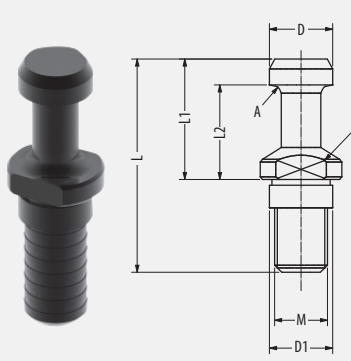
**"MORBIDELLI" PULL STUDS**

| Part code | Description            | SK    | D   | D1 | L  | L1 | L2 | C  | M  | A      |
|-----------|------------------------|-------|-----|----|----|----|----|----|----|--------|
| AAF11     | "Morbidelli" pull stud | SK 30 | 8,5 | 11 | 39 | 22 | 18 | 13 | M8 | Radius |



**"HITECO"- "HSD"- "BIESSE" PULL STUDS**

| Part code | Description                         | SK    | D  | D1 | L  | L1 | L2 | C  | M   | A      |
|-----------|-------------------------------------|-------|----|----|----|----|----|----|-----|--------|
| AAF12     | "Hiteco"- "HSD"- "Biesse" pull stud | SK 30 | 12 | 13 | 44 | 24 | 19 | 14 | M12 | Radius |



**"CMS" PULL STUDS**

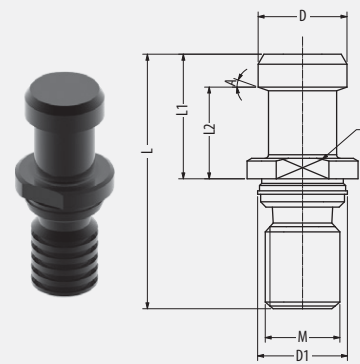
| Part code | Description     | SK    | D  | D1 | L  | L1 | L2 | C  | M   | A      |
|-----------|-----------------|-------|----|----|----|----|----|----|-----|--------|
| AAF13     | "CMS" pull stud | SK 30 | 13 | 13 | 44 | 24 | 19 | 14 | M12 | Radius |

Pull Studs



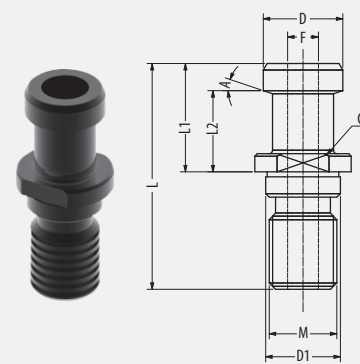
**PULL STUDS SK 7388/2-A WITHOUT COOLANT THROUGH**

| Part code | Description                                    | SK    | D  | D1 | L  | L1 | L2 | C  | M   | A   |
|-----------|--|-------|----|----|----|----|----|----|-----|-----|
| AAF14     | pull studs SK 7388/2-A without coolant through | SK 30 | 12 | 13 | 44 | 24 | 19 | 14 | M12 | 15° |
| AAF15     | pull studs SK 7388/2-A without coolant through | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | M16 | 15° |
| AAF16     | pull studs SK 7388/2-A without coolant through | SK 45 | 23 | 21 | 65 | 30 | 23 | 24 | M20 | 15° |
| AAF17     | pull studs SK 7388/2-A without coolant through | SK 50 | 28 | 25 | 74 | 34 | 25 | 30 | M24 | 15° |



**PULL STUDS SK 7388/2-A WITHOUT COOLANT THROUGH, WITH O-RING**

| Part code | Description   | SK    | D  | D1 | L  | L1 | L2 | C  | M   | A   |
|-----------|---|-------|----|----|----|----|----|----|-----|-----|
| AAF18     | pull studs SK 7388/2-A without coolant through, with O-Ring | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | M16 | 15° |
| AAF19     | pull studs SK 7388/2-A without coolant through, with O-Ring | SK 45 | 23 | 21 | 65 | 30 | 23 | 24 | M20 | 15° |
| AAF20     | pull studs SK 7388/2-A without coolant through, with O-Ring | SK 50 | 28 | 25 | 74 | 34 | 25 | 30 | M24 | 15° |

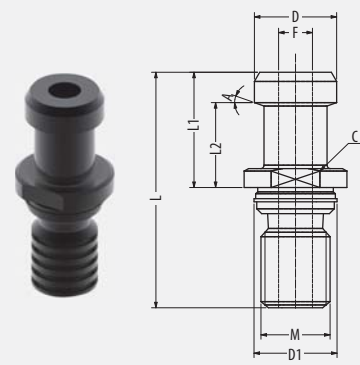


**PULL STUDS SK 7388/2-A WITH COOLANT THROUGH**

| Part code | Description            | SK    | D  | D1 | L  | L1 | L2 | C  | F   | M   | A   |
|-----------|------------------------|-------|----|----|----|----|----|----|-----|-----|-----|
| AAF21     | pull studs SK 7388/2-A | SK 30 | 12 | 13 | 44 | 24 | 19 | 14 | 3   | M12 | 15° |
| AAF22     | pull studs SK 7388/2-A | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | 7   | M16 | 15° |
| AAF23     | pull studs SK 7388/2-A | SK 45 | 23 | 21 | 65 | 30 | 23 | 24 | 9,5 | M20 | 15° |
| AAF24     | pull studs SK 7388/2-A | SK 50 | 28 | 25 | 74 | 34 | 25 | 30 | 11  | M24 | 15° |

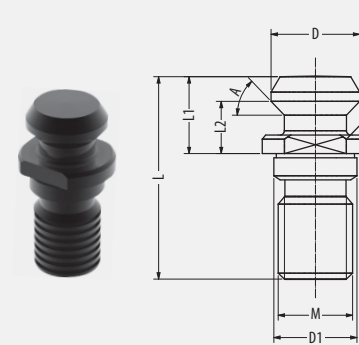
**PULL STUDS SK 30 45° WITH COOLANT THROUGH**

| Part code | Description                               | SK    | D  | D1 | L  | L1 | L2 | C  | F | M   | A   |
|-----------|---|-------|----|----|----|----|----|----|---|-----|-----|
| AAF20     | pull studs SK 30 45° with coolant through | SK 30 | 12 | 13 | 44 | 24 | 19 | 14 | 4 | M12 | 45° |



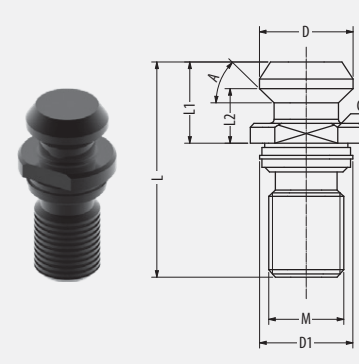
**PULL STUDS SK 7388/2-A WITH COOLANT THROUGH, WITH O-RING**

| Part code | Description  | SK    | D  | D1 | L  | L1 | L2 | C  | F   | M   | A   |
|-----------|--|-------|----|----|----|----|----|----|-----|-----|-----|
| AAF25     | pull studs SK 7388/2-A with coolant through, with O-Ring | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | 7   | M16 | 15° |
| AAF26     | pull studs SK 7388/2-A with coolant through, with O-Ring | SK 45 | 23 | 21 | 65 | 30 | 23 | 24 | 9,5 | M20 | 15° |
| AAF27     | pull studs SK 7388/2-A with coolant through, with O-Ring | SK 50 | 28 | 25 | 74 | 34 | 25 | 30 | 11  | M24 | 15° |



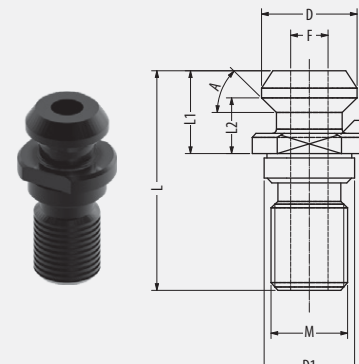
**PULL STUDS SK 7388/2-B 45° WITHOUT COOLANT THROUGH**

| Part code | Description  | SK    | D     | D1 | L    | L1   | L2   | C  | M   | A   |
|-----------|--|-------|-------|----|------|------|------|----|-----|-----|
| AAF28     | pull studs sk 7388/2-b 45° without coolant through | SK 30 | 13,3  | 13 | 34   | 11,8 | 8,1  | 14 | M12 | 45° |
| AAF29     | pull studs sk 7388/2-b 45° without coolant through | SK 40 | 22,5  | 17 | 44,5 | 16,4 | 11,1 | 18 | M16 | 45° |
| AAF30     | pull studs sk 7388/2-b 45° without coolant through | SK 45 | 24,05 | 21 | 56   | 20,9 | 14,8 | 24 | M20 | 45° |
| AAF31     | pull studs sk 7388/2-b 45° without coolant through | SK 50 | 29,1  | 25 | 65,5 | 25,5 | 17,9 | 30 | M24 | 45° |



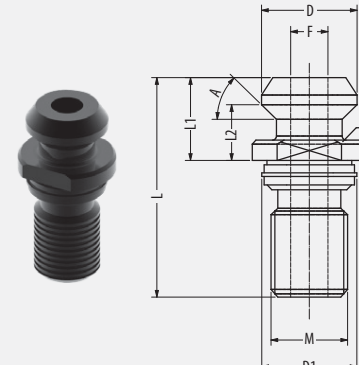
**PULL STUDS SK 7388/2-B 45° WITHOUT COOLANT THROUGH, WITH O-RING**

| Part code | Description   | SK    | D     | D1 | L    | L1   | L2   | C  | M   | A   |
|-----------|---|-------|-------|----|------|------|------|----|-----|-----|
| AAF32     | pull studs sk 7388/2-b 45° without coolant through, with O-Ring | SK 40 | 22,5  | 17 | 44,5 | 16,4 | 11,1 | 18 | M16 | 45° |
| AAF33     | pull studs sk 7388/2-b 45° without coolant through, with O-Ring | SK 45 | 24,05 | 21 | 56   | 20,9 | 14,8 | 24 | M20 | 45° |
| AAF34     | pull studs sk 7388/2-b 45° without coolant through, with O-Ring | SK 50 | 29,1  | 25 | 65,5 | 25,6 | 17,9 | 30 | M24 | 45° |



**PULL STUDS SK 7388/2-B 45° WITH COOLANT THROUGH**

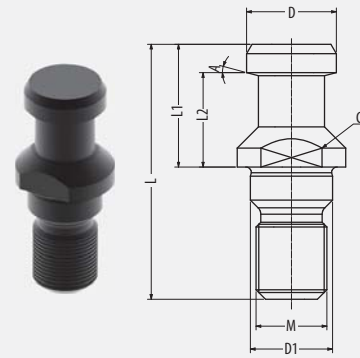
| Part code | Description                                     | SK    | D    | D1 | L    | L1   | L2   | C  | F    | M   | A   |
|-----------|---|-------|------|----|------|------|------|----|------|-----|-----|
| AAF35     | pull studs sk 7388/2-b 45° with coolant through | SK 40 | 22,5 | 17 | 44,5 | 16,4 | 11,1 | 18 | 7,3  | M16 | 45° |
| AAF36     | pull studs sk 7388/2-b 45° with coolant through | SK 45 | 24   | 21 | 56   | 20,9 | 14,8 | 24 | 9,5  | M20 | 45° |
| AAF37     | pull studs sk 7388/2-b 45° with coolant through | SK 50 | 29,1 | 25 | 65,5 | 25,5 | 17,9 | 30 | 11,5 | M24 | 45° |



**PULL STUDS SK 7388/2-B ANSI 45° WITH COOLANT THROUGH, WITH O-RING**

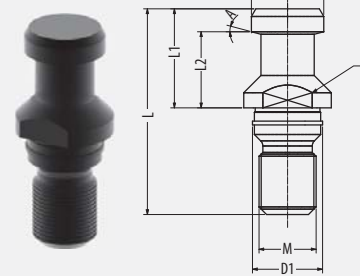
| Part code | Description   | SK    | D     | D1 | L    | L1   | L2   | C  | F    | M   | A   |
|-----------|---|-------|-------|----|------|------|------|----|------|-----|-----|
| AAF38     | pull studs sk 7388/2-b ansi 45° with coolant through, with O-Ring | SK 40 | 22,5  | 17 | 44,5 | 16,4 | 11,1 | 18 | 7,3  | M16 | 45° |
| AAF39     | pull studs sk 7388/2-b ansi 45° with coolant through, with O-Ring | SK 45 | 24,05 | 21 | 56   | 20,9 | 14,8 | 24 | 9,5  | M20 | 45° |
| AAF40     | pull studs sk 7388/2-b ansi 45° with coolant through, with O-Ring | SK 50 | 29,1  | 25 | 65,5 | 25,5 | 17,9 | 30 | 11,5 | M24 | 45° |





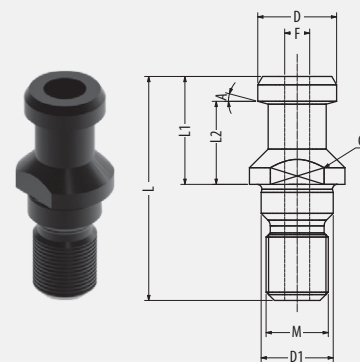
**PULL STUDS SK DIN 69872/B WITHOUT COOLANT THROUGH**

| Part code | Description                                       | SK    | D  | D1 | L  | L1 | L2 | C  | M   | A   |
|-----------|---|-------|----|----|----|----|----|----|-----|-----|
| AAF41     | pull studs sk DIN 69872/B without coolant through | SK 30 | 13 | 13 | 44 | 24 | 19 | 14 | M12 | 15° |
| AAF42     | pull studs sk DIN 69872/B without coolant through | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | M16 | 15° |
| AAF43     | pull studs sk DIN 69872/B without coolant through | SK 45 | 23 | 21 | 65 | 30 | 23 | 24 | M20 | 15° |
| AAF44     | pull studs sk DIN 69872/B without coolant through | SK 50 | 28 | 25 | 74 | 34 | 25 | 30 | M24 | 15° |
| AAF45     | pull studs sk DIN 69872/B without coolant through | SK 60 | 40 | 32 | 90 | 40 | 30 | 46 | M30 | 15° |



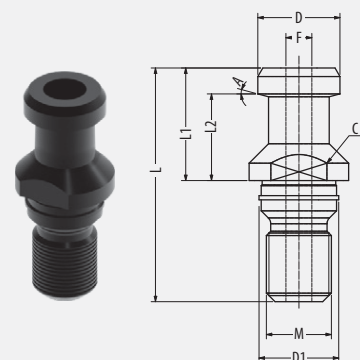
**PULL STUDS SK DIN 69872/B WITHOUT COOLANT THROUGH, WITH O-RING**

| Part code | Description  | SK    | D  | D1 | L  | L1 | L2 | C  | M   | A   |
|-----------|--|-------|----|----|----|----|----|----|-----|-----|
| AAF46     | pull studs sk DIN 69872/B without coolant through, with O-Ring | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | M16 | 15° |
| AAF47     | pull studs sk DIN 69872/B without coolant through, with O-Ring | SK 45 | 23 | 21 | 65 | 30 | 23 | 24 | M20 | 15° |
| AAF48     | pull studs sk DIN 69872/B without coolant through, with O-Ring | SK 50 | 28 | 25 | 74 | 34 | 25 | 30 | M24 | 15° |



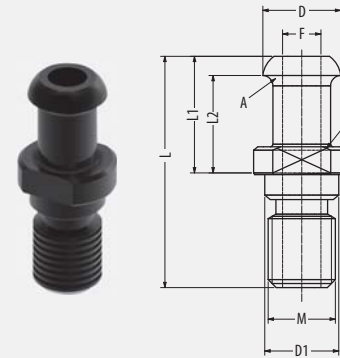
**PULL STUDS SK DIN 69872/B WITH COOLANT THROUGH**

| Part code | Description                                    | SK    | D  | D1 | L  | L1 | L2 | C  | F    | M   | A   |
|-----------|--|-------|----|----|----|----|----|----|------|-----|-----|
| AAF49     | pull studs sk DIN 69872/B with coolant through | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | 7    | M16 | 15° |
| AAF50     | pull studs sk DIN 69872/B with coolant through | SK 45 | 23 | 21 | 65 | 30 | 23 | 24 | 9,5  | M20 | 15° |
| AAF51     | pull studs sk DIN 69872/B with coolant through | SK 50 | 28 | 25 | 74 | 34 | 25 | 30 | 11,5 | M24 | 15° |
| AAF52     | pull studs sk DIN 69872/B with coolant through | SK 60 | 40 | 32 | 90 | 40 | 30 | 46 | 14   | M30 | 15° |



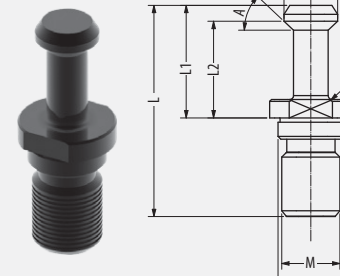
**PULL STUDS SK DIN 69872/B WITH COOLANT THROUGH, WITH O-RING**

| Part code | Description   | SK    | D  | D1 | L  | L1 | L2 | C  | F    | M   | A   |
|-----------|---|-------|----|----|----|----|----|----|------|-----|-----|
| AAF53     | pull studs sk DIN 69872/B with coolant through, with O-Ring | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | 7    | M16 | 15° |
| AAF54     | pull studs sk DIN 69872/B with coolant through, with O-Ring | SK 45 | 23 | 21 | 65 | 30 | 23 | 24 | 9,5  | M20 | 15° |
| AAF55     | pull studs sk DIN 69872/B with coolant through, with O-Ring | SK 50 | 28 | 25 | 74 | 34 | 25 | 30 | 11,5 | M24 | 15° |



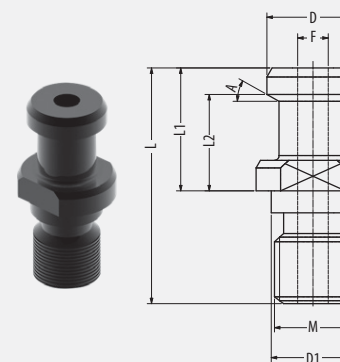
**"CB FERRARI" PULL STUDS**

| Part code | Description             | SK    | D  | D1 | L  | L1 | L2    | C  | F | M   | A      |
|-----------|-------------------------|-------|----|----|----|----|-------|----|---|-----|--------|
| AAF56     | "CB Ferrari" pull studs | SK 40 | 19 | 17 | 54 | 26 | 20,31 | 19 | 5 | M16 | Raggio |



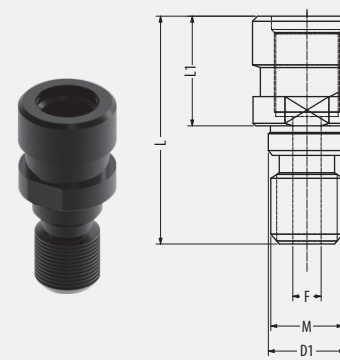
**"CHIRON" PULL STUDS**

| Part code | Description         | SK    | D  | D1 | L  | L1 | L2 | C  | M   | A   |
|-----------|---------------------|-------|----|----|----|----|----|----|-----|-----|
| AAF57     | "Chiron" pull studs | SK 30 | 10 | 13 | 36 | 20 | 15 | 14 | M12 | 45° |



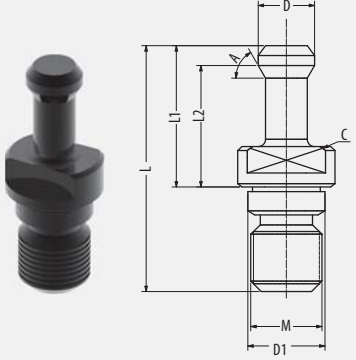
**JIS B 6339 PULL STUDS**

| Part code | Description           | SK    | D  | D1 | L  | L1 | L2 | C  | F | M   | A   |
|-----------|-----------------------|-------|----|----|----|----|----|----|---|-----|-----|
| AAF58     | JIS B 6339 pull studs | SK 40 | 19 | 17 | 54 | 29 | 23 | 19 | 7 | M16 | 15° |



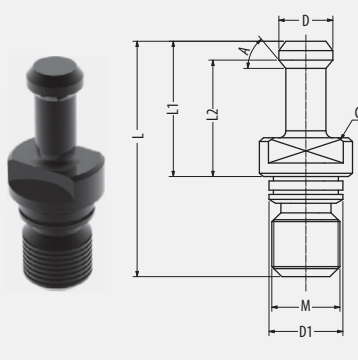
**ADAPTER PULL STUD FROM SK/BT TO DIN2080**

| Part code | Description                             | TYPE           | D    | D1 | L  | L1 | C  | F | M   |
|-----------|---|----------------|------|----|----|----|----|---|-----|
| AAF59     | adapter pull stud from SK/BT to DIN2080 | SK 40/DIN 2080 | 25,3 | 17 | 53 | 25 | 19 | 4 | M16 |
| AAF60     | adapter pull stud from SK/BT to DIN2080 | BT 40/DIN 2080 | 25,3 | 17 | 56 | 28 | 19 | 4 | M16 |
| AAF61     | adapter pull stud from SK/BT to DIN2080 | BT 50/DIN 2080 | 39,6 | 25 | 65 | 25 | 30 | 6 | M24 |



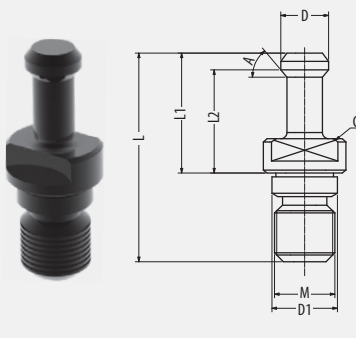
**ADAPTER PULL STUD FROM BT TO SK 30° WITHOUT COOLANT THROUGH**

| Part code | Description   | BT/SK    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|---|----------|----|----|----|----|----|-----|-----|
| AAF62     | adapter pull stud from bt to sk 30° without coolant through | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | M16 | 30° |



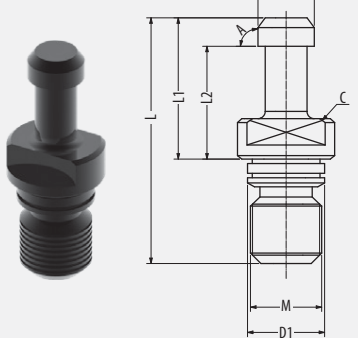
**ADAPTER PULL STUD FROM BT TO SK 45° WITHOUT COOLANT THROUGH, WITH O-RING**

| Part code | Description  | BT/SK    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|--|----------|----|----|----|----|----|-----|-----|
| AAF66     | adapter pull stud from bt to sk 45° without coolant through, with O-Ring | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | M16 | 45° |



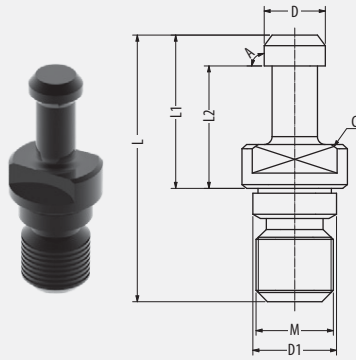
**ADAPTER PULL STUD FROM BT TO SK 45° WITHOUT COOLANT THROUGH**

| Part code | Description   | BT/SK    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|---|----------|----|----|----|----|----|-----|-----|
| AAF63     | adapter pull stud from bt to sk 45° without coolant through | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | M16 | 45° |



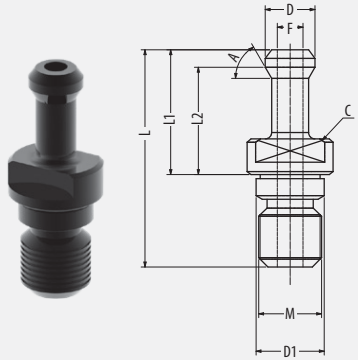
**ADAPTER PULL STUD FROM BT TO SK 90° WITHOUT COOLANT THROUGH, WITH O-RING**

| Part code | Description  | BT/SK    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|--|----------|----|----|----|----|----|-----|-----|
| AAF67     | adapter pull stud from bt to sk 90° without coolant through, with O-Ring | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | M16 | 90° |



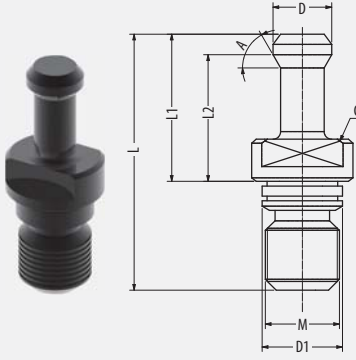
**ADAPTER PULL STUD FROM BT TO SK 90° WITHOUT COOLANT THROUGH**

| Part code | Description   | BT/SK    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|---|----------|----|----|----|----|----|-----|-----|
| AAF64     | adapter pull stud from bt to sk 90° without coolant through | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | M16 | 90° |



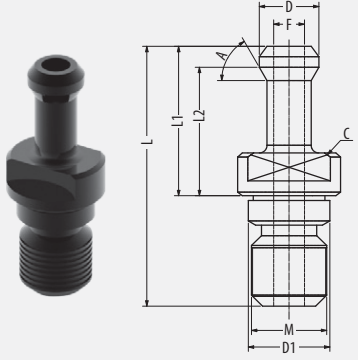
**ADAPTER PULL STUD FROM BT TO SK 30° WITH COOLANT THROUGH**

| Part code | Description  | BT/SK    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|--|----------|----|----|----|----|----|---|-----|-----|
| AAF68     | adapter pull stud from bt to sk 30° with coolant through | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | 4 | M16 | 30° |



**ADAPTER PULL STUD FROM BT TO SK 30° WITHOUT COOLANT THROUGH, WITH O-RING**

| Part code | Description  | BT/SK    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|--|----------|----|----|----|----|----|-----|-----|
| AAF65     | adapter pull stud from bt to sk 30° without coolant through, with O-Ring | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | M16 | 30° |



**ADAPTER PULL STUD FROM BT TO SK 45° WITH COOLANT THROUGH**

| Part code | Description  | BT/SK    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|--|----------|----|----|----|----|----|---|-----|-----|
| AAF69     | adapter pull stud from bt to sk 45° with coolant through | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | 4 | M16 | 45° |

**ADAPTER PULL STUD FROM BT TO SK 90° WITH COOLANT THROUGH**

| Part code | Description  | BT/SK    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|--|----------|----|----|----|----|----|---|-----|-----|
| AAF70     | adapter pull stud from bt to sk 90° with coolant through | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | 4 | M16 | 90° |

**ADAPTER PULL STUD FROM BT TO SK 30° WITH COOLANT THROUGH, WITH O-RING**

| Part code | Description   | BT/SK    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---|----------|----|----|----|----|----|---|-----|-----|
| AAF71     | adapter pull stud from bt to sk 30° with coolant through, with O-Ring | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | 4 | M16 | 30° |

**ADAPTER PULL STUD FROM BT TO SK 45° WITH COOLANT THROUGH, WITH O-RING**

| Part code | Description   | BT/SK    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---|----------|----|----|----|----|----|---|-----|-----|
| AAF72     | adapter pull stud from bt to sk 45° with coolant through, with O-Ring | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | 4 | M16 | 45° |

**ADAPTER PULL STUD FROM BT TO SK 90° WITH COOLANT THROUGH, WITH O-RING**

| Part code | Description   | BT/SK    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---|----------|----|----|----|----|----|---|-----|-----|
| AAF73     | adapter pull stud from bt to sk 90° with coolant through, with O-Ring | BT/SK 40 | 15 | 17 | 57 | 32 | 19 | 4 | M16 | 90° |

**PULL STUD BT 30° WITHOUT COOLANT THROUGH**

| Part code | Description                              | BT    | D  | D1   | L  | L1 | C  | M   | A   |
|-----------|--|-------|----|------|----|----|----|-----|-----|
| AAF74     | pull stud bt 30° without coolant through | BT 30 | 11 | 12,5 | 43 | 23 | 14 | M12 | 30° |
| AAF76     | pull stud bt 30° without coolant through | BT 40 | 15 | 17   | 60 | 35 | 19 | M16 | 30° |
| AAF79     | pull stud bt 30° without coolant through | BT 50 | 23 | 25   | 85 | 45 | 30 | M24 | 30° |

**PULL STUD BT 45° WITHOUT COOLANT THROUGH**

| Part code | Description                              | BT    | D  | D1   | L  | L1 | C  | M   | A   |
|-----------|--|-------|----|------|----|----|----|-----|-----|
| AAF75     | pull stud bt 45° without coolant through | BT 30 | 11 | 12,5 | 43 | 23 | 14 | M12 | 45° |
| AAF77     | pull stud bt 45° without coolant through | BT 40 | 15 | 17   | 60 | 35 | 19 | M16 | 45° |
| AAF80     | pull stud bt 45° without coolant through | BT 50 | 23 | 25   | 85 | 45 | 30 | M24 | 45° |

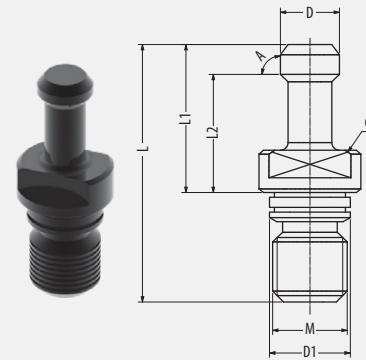
**PULL STUD BT 90° WITHOUT COOLANT THROUGH**

| Part code | Description                              | BT    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|--|-------|----|----|----|----|----|-----|-----|
| AAF78     | pull stud bt 90° without coolant through | BT 40 | 15 | 17 | 60 | 35 | 19 | M16 | 90° |
| AAF81     | pull stud bt 90° without coolant through | BT 50 | 23 | 25 | 85 | 45 | 30 | M24 | 90° |

**PULL STUD BT 30° WITHOUT COOLANT THROUGH WITH O-RING**

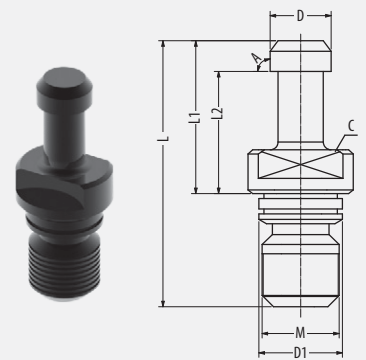
| Part code | Description  | BT    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|--|-------|----|----|----|----|----|-----|-----|
| AAF82     | pull stud bt 30° without coolant through with O-Ring | BT 40 | 15 | 17 | 60 | 35 | 19 | M16 | 30° |
| AAF85     | pull stud bt 30° without coolant through with O-Ring | BT 50 | 23 | 25 | 85 | 45 | 30 | M24 | 30° |

Pull Studs



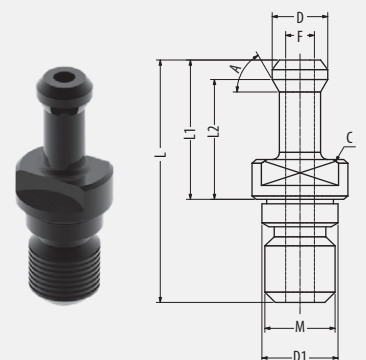
**PULL STUD BT 45° WITHOUT COOLANT THROUGH WITH O-RING**

| Part code | Description  | BT    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|--|-------|----|----|----|----|----|-----|-----|
| AAF83     | pull stud bt 45° without coolant through with o-ring | BT 40 | 15 | 17 | 60 | 35 | 19 | M16 | 45° |
| AAF86     | pull stud bt 45° without coolant through with o-ring | BT 50 | 23 | 25 | 85 | 45 | 30 | M24 | 45° |



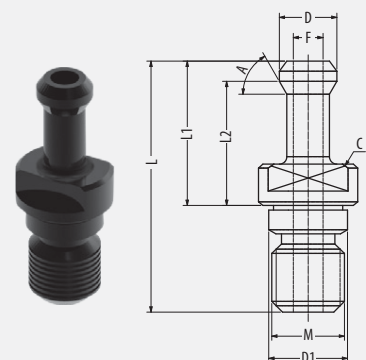
**PULL STUD BT 90° WITHOUT COOLANT THROUGH WITH O-RING**

| Part code | Description  | BT    | D  | D1 | L  | L1 | C  | M   | A   |
|-----------|--|-------|----|----|----|----|----|-----|-----|
| AAF84     | pull stud bt 90° without coolant through with o-ring | BT 40 | 15 | 17 | 60 | 35 | 19 | M16 | 90° |
| AAF87     | pull stud bt 90° without coolant through with o-ring | BT 50 | 23 | 25 | 85 | 45 | 30 | M24 | 90° |



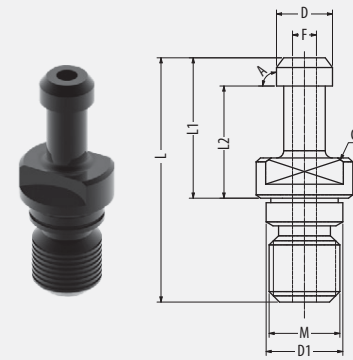
**PULL STUD BT 30° WITH COOLANT THROUGH**

| Part code | Description                           | BT    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---------------------------------------|-------|----|----|----|----|----|---|-----|-----|
| AAF88     | pull stud bt 30° with coolant through | BT 40 | 15 | 17 | 60 | 35 | 19 | 4 | M16 | 30° |
| AAF91     | pull stud bt 30° with coolant through | BT 50 | 23 | 25 | 85 | 45 | 30 | 6 | M24 | 30° |



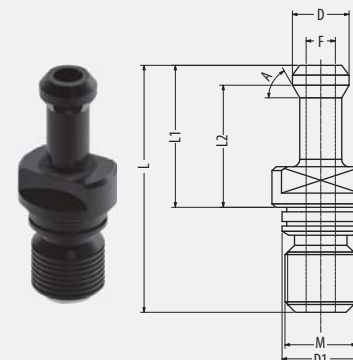
**PULL STUD BT 45° WITH COOLANT THROUGH**

| Part code | Description                           | BT    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---------------------------------------|-------|----|----|----|----|----|---|-----|-----|
| AAF89     | pull stud bt 45° with coolant through | BT 40 | 15 | 17 | 60 | 35 | 19 | 4 | M16 | 45° |
| AAF92     | pull stud bt 45° with coolant through | BT 50 | 23 | 25 | 85 | 45 | 30 | 6 | M24 | 45° |



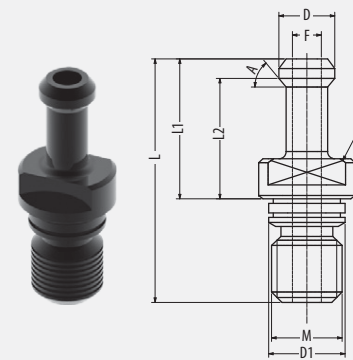
**PULL STUD BT 90° WITH COOLANT THROUGH**

| Part code | Description                           | BT    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---------------------------------------|-------|----|----|----|----|----|---|-----|-----|
| AAF90     | pull stud bt 90° with coolant through | BT 40 | 15 | 17 | 60 | 35 | 19 | 4 | M16 | 90° |
| AAF93     | pull stud bt 90° with coolant through | BT 50 | 23 | 25 | 85 | 45 | 30 | 6 | M24 | 90° |



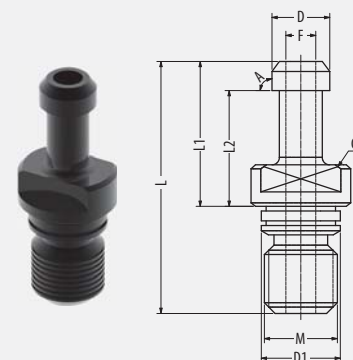
**PULL STUD BT 30° WITH COOLANT THROUGH WITH O-RING**

| Part code | Description                                       | BT    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---|-------|----|----|----|----|----|---|-----|-----|
| AAF94     | pull stud bt 30° with coolant through with o-ring | BT 40 | 15 | 17 | 60 | 35 | 19 | 4 | M16 | 30° |
| AAF97     | pull stud bt 30° with coolant through with o-ring | BT 50 | 23 | 25 | 85 | 45 | 30 | 6 | M24 | 30° |



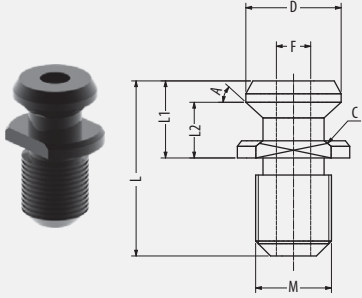
**PULL STUD BT 45° WITH COOLANT THROUGH WITH O-RING**

| Part code | Description                                       | BT    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---|-------|----|----|----|----|----|---|-----|-----|
| AAF95     | pull stud bt 45° with coolant through with o-ring | BT 40 | 15 | 17 | 60 | 35 | 19 | 4 | M16 | 45° |
| AAF98     | pull stud bt 45° with coolant through with o-ring | BT 50 | 23 | 25 | 85 | 45 | 30 | 6 | M24 | 45° |



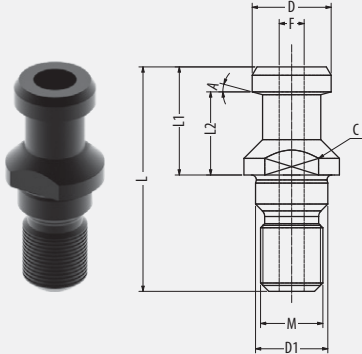
**PULL STUD BT 90° WITH COOLANT THROUGH WITH O-RING**

| Part code | Description                                       | BT    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---|-------|----|----|----|----|----|---|-----|-----|
| AAF96     | pull stud bt 90° with coolant through with o-ring | BT 40 | 15 | 17 | 60 | 35 | 19 | 4 | M16 | 90° |
| AAF99     | pull stud bt 90° with coolant through with o-ring | BT 50 | 23 | 25 | 85 | 45 | 30 | 6 | M24 | 90° |



**CAT PULL STUD**

| Part code | Description | CAT    | D      | L      | L1    | L2    | C     | F     | INCH         | A   |
|-----------|-------------|--------|--------|--------|-------|-------|-------|-------|--------------|-----|
| AAG00     | pull stud   | CAT 40 | .744"  | 1,496" | .640" | .437" | .748" | .280" | 5/8"-11 UNC" | 45° |
| AAG01     | pull stud   | CAT 50 | .1146" | 2,244" | 1000" | .700" | 1185" | .471" | 1"-8"        | 45° |

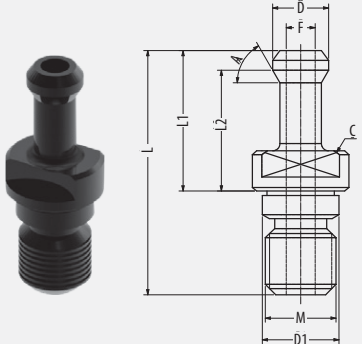


**PULL STUD SK 30 DIN 69872/B WITH COOLANT THROUGH**

| Part code | Description                                | SK    | D  | D1 | L  | L1 | L2 | C  | F | M   | A   |
|-----------|--|-------|----|----|----|----|----|----|---|-----|-----|
| AAG02     | pull stud DIN 69872/B with coolant through | SK 30 | 13 | 13 | 44 | 24 | 19 | 14 | 3 | M12 | 15° |

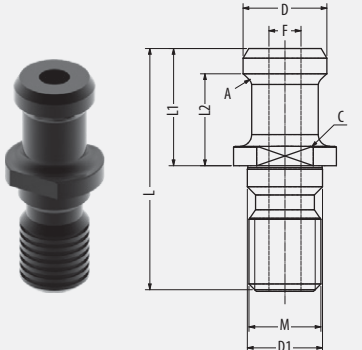
**"NEPTUN" PULL STUD**

| Part code | Description        | SK | D  | D1 | L    | L1   | L2   | C  | F | M  | A      |
|-----------|--------------------|----|----|----|------|------|------|----|---|----|--------|
| AAG21     | "Neptun" pull stud | 30 | 13 | 13 | 43,5 | 23,5 | 18,5 | 14 | 4 | 12 | Radius |



**PULL STUD BT 30 WITH COOLANT THROUGH**

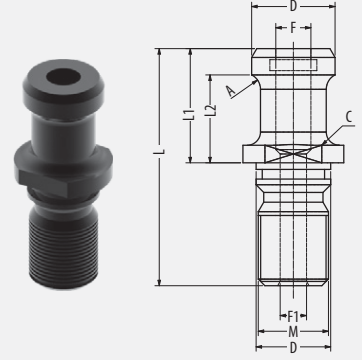
| Part code | Description                    | BT    | D  | D1   | L  | L1 | C  | F   | M   | A   |
|-----------|--------------------------------|-------|----|------|----|----|----|-----|-----|-----|
| AAG03     | pull stud with coolant through | BT 30 | 11 | 12,5 | 43 | 23 | 14 | 2,5 | M12 | 45° |



**"INTERMAC", "BUSETTI", "FARNESE" PULL STUD**

| Part code | Description   | SK    | D  | D1 | L  | L1 | L2 | C  | F | M   | A      |
|-----------|---|-------|----|----|----|----|----|----|---|-----|--------|
| AAG04     | "Intermac", "Busetti", "Farnese" pull stud with coolant through | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | 6 | M16 | Radius |

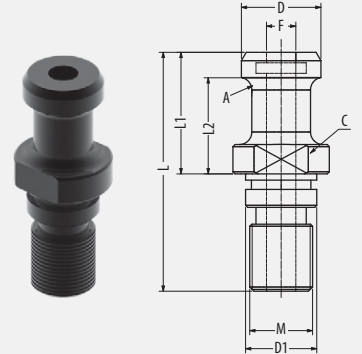
Optional finishes: nickel



**"BIMATECH" PULL STUD**

| Part code | Description   | SK    | D  | D1 | L  | L1 | L2 | C  | F   | M   | A      |
|-----------|---|-------|----|----|----|----|----|----|-----|-----|--------|
| AAG05     | "Bimatech" pull stud with coolant through with o-ring | SK 40 | 19 | 17 | 54 | 26 | 20 | 19 | 8/6 | M16 | Radius |

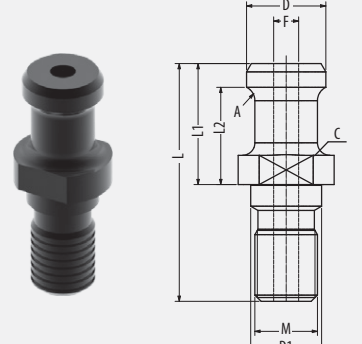
Optional finishes: nickel



**"HELIOS" PULL STUD**

| Part code | Description   | BT    | D  | D1 | L  | L1 | C  | F   | M   | A      |
|-----------|---|-------|----|----|----|----|----|-----|-----|--------|
| AAG06     | "Helios" pull stud with coolant through with o-ring | BT 40 | 19 | 17 | 57 | 29 | 19 | 8/6 | M16 | Radius |

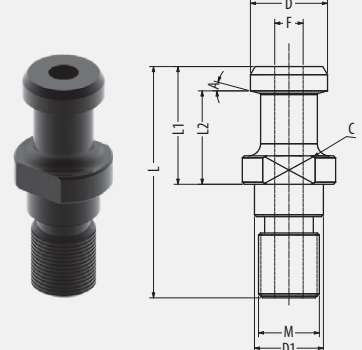
Optional finishes: nickel



**"THIBAUT" PULL STUD**

| Part code | Description                              | BT    | D  | D1 | L  | L1 | C  | F | M   | A      |
|-----------|--|-------|----|----|----|----|----|---|-----|--------|
| AAG07     | "Thibaut" pull stud with coolant through | BT 40 | 19 | 17 | 57 | 29 | 19 | 6 | M16 | Radius |

Optional finishes: nickel



**"OMAG", "LOVATI" PULL STUD**

| Part code | Description                                     | BT    | D  | D1 | L  | L1 | C  | F | M   | A   |
|-----------|---|-------|----|----|----|----|----|---|-----|-----|
| AAG08     | "Omag", "Lovati" pull stud with coolant through | BT 40 | 19 | 17 | 54 | 29 | 19 | 6 | M16 | 15° |

Optional finishes: nickel

# Coolant Tubes

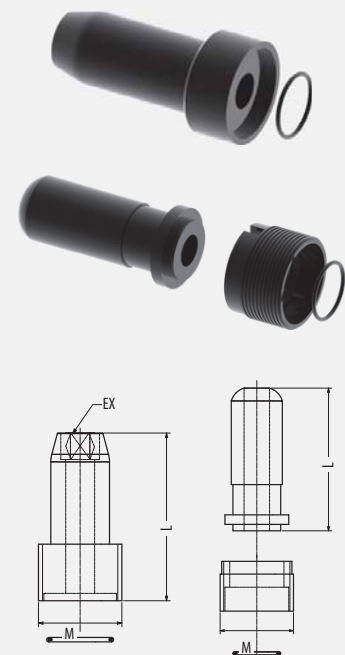
Coolant Tubes provides cooling fluid passage. They are used for HSK tool holders in the A, C, E, B, D and F styles.



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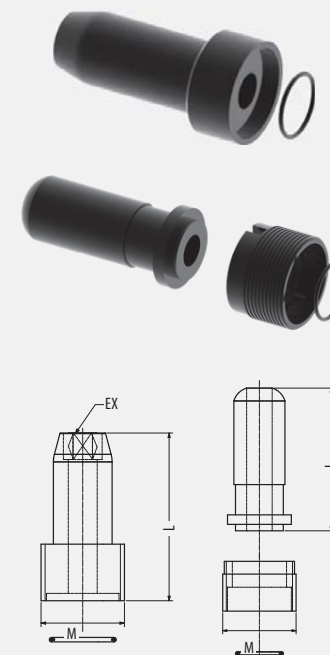


### HSK COOLANT TUBES



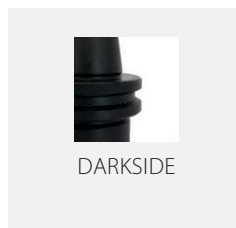
| Part code | Description                              | M/<br>bush | L/<br>pivot | D/<br>pivot | Connection    |
|-----------|--|------------|-------------|-------------|---------------|
| AAG09     | coolant tube for water passage - mounted | 8 x 1      | 22          | 5           | HSK 25 A-C-E  |
| AAG10     | coolant tube for water passage - mounted | 10 x 1     | 26          | 6           | HSK 32 A-C-E  |
| AAG11     | coolant tube for water passage           | 12 x 1     | 29,3        | 8           | HSK 40 A-C-E  |
| AAG12     | coolant tube for water passage           | 16 x 1     | 33          | 10          | HSK 50 A-C-E  |
| AAG13     | coolant tube for water passage           | 18 x 1     | 36,6        | 12          | HSK 63 A-C-E  |
| AAG14     | coolant tube for water passage           | 20 x 1,5   | 40          | 14          | HSK 80 A-C-E  |
| AAG15     | coolant tube for water passage           | 24 x 1,5   | 44          | 16          | HSK 100 A-C-E |
| AAG16     | coolant tube for water passage           | 30 x 1,5   | 48          | 18          | HSK 125 A-C-E |
| AAG17     | coolant tube for water passage           | 35 x 1,5   | 52          | 20          | HSK 160 A-C-E |

### HSK COOLANT TUBES



| Part code | Description                              | M/<br>rondella | L/<br>pivot | D/<br>pivot | Connection |
|-----------|--|----------------|-------------|-------------|------------|
| AAG09     | coolant tube for water passage - mounted | 8 x 1          | 22          | 5           | 32 B-D-F   |
| AAG10     | coolant tube for water passage - mounted | 10 x 1         | 26          | 6           | 40 B-D-F   |
| AAG11     | coolant tube for water passage           | 12 x 1         | 29,3        | 8           | 50 B-D-F   |
| AAG12     | coolant tube for water passage           | 16 x 1         | 33          | 10          | 63 B-D-F   |
| AAG13     | coolant tube for water passage           | 18 x 1         | 36,6        | 12          | 80 B-D-F   |
| AAG14     | coolant tube for water passage           | 20 x 1,5       | 40          | 14          | 100 B-D-F  |
| AAG15     | coolant tube for water passage           | 24 x 1,5       | 44          | 16          | 125 B-D-F  |

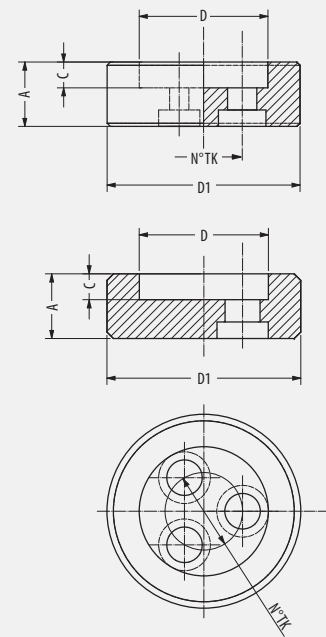
● MANUFACTURING MATERIAL ● OPTIONAL FINISHES\*



\*By choosing optional materials, the specific hardness may vary.

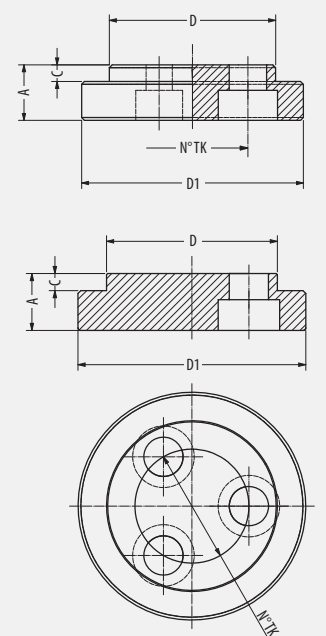
# End Caps

IMS End Caps provide safer operations when machining with mill holder arbors. The three-screw system ensures a secure and constant locking even in complex operations.



### RECESSED END CAPS

| Part code | Description      | D        | D1 | A  | C | N°/TK |
|-----------|------------------|----------|----|----|---|-------|
| AAI00     | recessed end cap | 20       | 30 | 10 | 4 | 3/12  |
| AAI01     | recessed end cap | 25       | 40 | 13 | 4 | 3/16  |
| AAI02     | recessed end cap | 30       | 40 | 13 | 5 | 3/20  |
| AAI03     | recessed end cap | 35       | 45 | 15 | 5 | 3/25  |
| AAI04     | recessed end cap | 40       | 50 | 15 | 5 | 3/25  |
| AAI05     | recessed end cap | 50       | 60 | 15 | 5 | 3/25  |
| AAI06     | recessed end cap | 1" - 1/4 | 45 | 15 | 5 | 3/20  |
| AAI07     | recessed end cap | 1"       | 35 | 15 | 5 | 3/16  |



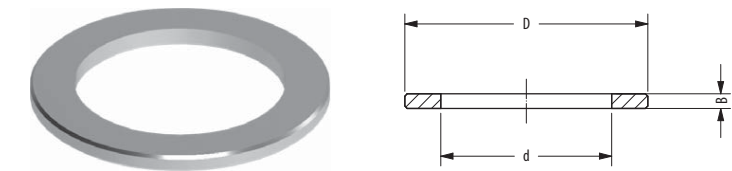
### EXPANDED END CAPS

| Part code | Description      | D        | D1 | A  | C | N°/TK |
|-----------|------------------|----------|----|----|---|-------|
| AAI08     | expanded end cap | 20       | 30 | 8  | 3 | 3/12  |
| AAI09     | expanded end cap | 25       | 40 | 8  | 3 | 3/16  |
| AAI10     | expanded end cap | 30       | 45 | 10 | 3 | 3/20  |
| AAI11     | expanded end cap | 35       | 45 | 10 | 3 | 3/25  |
| AAI12     | expanded end cap | 40       | 50 | 10 | 3 | 3/25  |
| AAI13     | expanded end cap | 50       | 60 | 10 | 3 | 3/25  |
| AAI14     | expanded end cap | 1" - 1/4 | 45 | 10 | 3 | 3/20  |
| AAI15     | expanded end cap | 1"       | 35 | 10 | 3 | 3/16  |

# Spacer Rings



IMS spacer rings are ideal to stabilize the tool without generating vibrations that could affect the machining result.



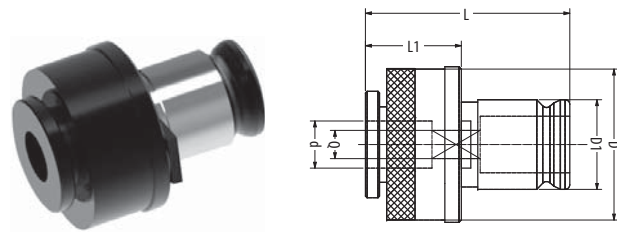
### SPACER RINGS

| Part code | Description | d  | D  | S  |
|-----------|-------------|----|----|----|
| AAM00     | spacer ring | 20 | 40 | 5  |
| AAM01     | spacer ring | 20 | 40 | 10 |
| AAM02     | spacer ring | 20 | 40 | 20 |
| AAM03     | spacer ring | 25 | 45 | 5  |
| AAM04     | spacer ring | 25 | 45 | 10 |
| AAM05     | spacer ring | 25 | 45 | 20 |
| AAM06     | spacer ring | 30 | 50 | 5  |
| AAM07     | spacer ring | 30 | 50 | 10 |
| AAM08     | spacer ring | 30 | 50 | 20 |
| AAM09     | spacer ring | 35 | 55 | 5  |
| AAM10     | spacer ring | 35 | 55 | 10 |
| AAM11     | spacer ring | 35 | 55 | 20 |
| AAM12     | spacer ring | 40 | 60 | 5  |
| AAM13     | spacer ring | 40 | 60 | 10 |
| AAM14     | spacer ring | 40 | 60 | 20 |
| AAM15     | spacer ring | 50 | 70 | 5  |
| AAM16     | spacer ring | 50 | 70 | 10 |
| AAM17     | spacer ring | 50 | 70 | 20 |
| AAM18     | spacer ring | 60 | 80 | 10 |
| AAM19     | spacer ring | 60 | 80 | 20 |

### SPACER RINGS IN IMPERIAL DIMENSIONS

| Part code | Description | d        | D  | S  |
|-----------|-------------|----------|----|----|
| AAM20     | spacer ring | 1/2"     | 35 | 5  |
| AAM21     | spacer ring | 1/2"     | 55 | 10 |
| AAM22     | spacer ring | 1/2"     | 35 | 20 |
| AAM23     | spacer ring | 1 - 1/4" | 55 | 5  |
| AAM24     | spacer ring | 1 - 1/4" | 55 | 10 |
| AAM25     | spacer ring | 1 - 1/4" | 55 | 20 |

Tap Collets with friction



TAP COLLETS WITH FRICTION

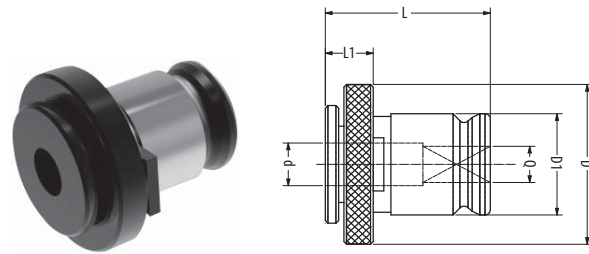
| Part code | Description              | d   | q    | M           | L    | L1 | D  | D1 | Gr. Bus. |
|-----------|--------------------------|-----|------|-------------|------|----|----|----|----------|
| AAJ00     | tap collet with friction | 3,5 | 2,8  | M3 - M5     | 40,5 | 21 | 23 | 13 | 0        |
| AAJ01     | tap collet with friction | 4   | 3,15 | M3,5 - M4,5 | 40,5 | 21 | 23 | 13 | 0        |
| AAJ02     | tap collet with friction | 4,5 | 3,4  | M4 - M6     | 40,5 | 21 | 23 | 13 | 0        |
| AAJ03     | tap collet with friction | 6   | 4,9  | M5 - M8     | 40,5 | 21 | 23 | 13 | 0        |
| AAJ04     | tap collet with friction | 7   | 5,5  | M9 - M10    | 40,5 | 21 | 23 | 13 | 0        |
| AAJ05     | tap collet with friction | 3,5 | 2,8  | M3 - M5     | 46,5 | 25 | 32 | 19 | 1        |
| AAJ06     | tap collet with friction | 4   | 3,15 | M3,5 - M4,5 | 46,5 | 25 | 32 | 19 | 1        |
| AAJ07     | tap collet with friction | 4,5 | 3,4  | M4 - M6     | 46,5 | 25 | 32 | 19 | 1        |
| AAJ08     | tap collet with friction | 6   | 4,9  | M5 - M8     | 46,5 | 25 | 32 | 19 | 1        |
| AAJ09     | tap collet with friction | 7   | 5,5  | M9 - M10    | 46,5 | 25 | 32 | 19 | 1        |
| AAJ10     | tap collet with friction | 8   | 6,2  | M11         | 46,5 | 25 | 32 | 19 | 1        |
| AAJ11     | tap collet with friction | 9   | 7    | M12         | 46,5 | 25 | 32 | 19 | 1        |
| AAJ12     | tap collet with friction | 10  | 8    | M10 - M12   | 46,5 | 25 | 32 | 19 | 1        |
| AAJ13     | tap collet with friction | 12  | 9    | M16         | 46,5 | 25 | 32 | 19 | 1        |
| AAJ14     | tap collet with friction | 4   | 3,15 | M3,5 - M4,5 | 69   | 34 | 50 | 31 | 2        |
| AAJ15     | tap collet with friction | 6   | 4,9  | M5 - M6     | 69   | 34 | 50 | 31 | 2        |
| AAJ16     | tap collet with friction | 7   | 5,5  | M9 - M10    | 69   | 34 | 50 | 31 | 2        |
| AAJ17     | tap collet with friction | 8   | 6,2  | M11         | 69   | 34 | 50 | 31 | 2        |
| AAJ18     | tap collet with friction | 9   | 7    | M12         | 69   | 34 | 50 | 31 | 2        |
| AAJ19     | tap collet with friction | 10  | 8    | M10 - M12   | 69   | 34 | 50 | 31 | 2        |
| AAJ20     | tap collet with friction | 11  | 8,5  | M14         | 69   | 34 | 50 | 31 | 2        |
| AAJ21     | tap collet with friction | 12  | 9    | M16         | 69   | 34 | 50 | 31 | 2        |
| AAJ22     | tap collet with friction | 14  | 11   | M18         | 69   | 34 | 50 | 31 | 2        |

TAP COLLETS WITH FRICTION

| Part code | Description              | d  | q    | M         | L     | L1 | D  | D1 | Gr. Bus. |
|-----------|--------------------------|----|------|-----------|-------|----|----|----|----------|
| AAJ23     | tap collet with friction | 16 | 12   | M20       | 69    | 34 | 50 | 31 | 2        |
| AAJ24     | tap collet with friction | 18 | 14,5 | M22 - M24 | 69    | 34 | 50 | 31 | 2        |
| AAJ25     | tap collet with friction | 12 | 9    | M16       | 100,5 | 45 | 72 | 48 | 3        |
| AAJ26     | tap collet with friction | 14 | 11   | M18       | 100,5 | 45 | 72 | 48 | 3        |
| AAJ27     | tap collet with friction | 16 | 12   | M20       | 100,5 | 45 | 72 | 48 | 3        |
| AAJ28     | tap collet with friction | 18 | 14,5 | M22 - M24 | 100,5 | 45 | 72 | 48 | 3        |
| AAJ29     | tap collet with friction | 20 | 16   | M27       | 100,5 | 45 | 72 | 48 | 3        |
| AAJ30     | tap collet with friction | 22 | 18   | M30       | 100,5 | 45 | 72 | 48 | 3        |
| AAJ31     | tap collet with friction | 25 | 20   | M33       | 100,5 | 45 | 72 | 48 | 3        |
| AAJ32     | tap collet with friction | 18 | 14,5 | M22 - M24 | 131   | 60 | 95 | 60 | 4        |
| AAJ33     | tap collet with friction | 20 | 16   | M27       | 131   | 60 | 95 | 60 | 4        |
| AAJ34     | tap collet with friction | 22 | 18   | M30       | 131   | 60 | 95 | 60 | 4        |
| AAJ35     | tap collet with friction | 25 | 20   | M33       | 131   | 60 | 95 | 60 | 4        |
| AAJ36     | tap collet with friction | 28 | 22   | M36       | 131   | 60 | 95 | 60 | 4        |
| AAJ37     | tap collet with friction | 32 | 24   | M39 - M42 | 131   | 60 | 95 | 60 | 4        |
| AAJ38     | tap collet with friction | 36 | 29   | M45 - M48 | 131   | 60 | 95 | 60 | 4        |



# Tap Collets without friction



TAP COLLETS WITHOUT FRICTION

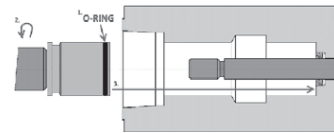
| Part code | Description                 | d   | q    | M           | L    | L1  | D  | D1 | Gr. Bus. |
|-----------|-----------------------------|-----|------|-------------|------|-----|----|----|----------|
| AAJ39     | tap collet without friction | 3   | 2,4  | M1 - M2,5   | 26,5 | 7   | 22 | 13 | 0        |
| AAJ40     | tap collet without friction | 3,5 | 2,8  | M3 - M5     | 26,5 | 7   | 22 | 13 | 0        |
| AAJ41     | tap collet without friction | 4   | 3,15 | M3,5 - M4,5 | 26,5 | 7   | 22 | 13 | 0        |
| AAJ42     | tap collet without friction | 4,5 | 3,4  | M4 - M6     | 26,5 | 7   | 22 | 13 | 0        |
| AAJ43     | tap collet without friction | 6   | 4,9  | M5 - M8     | 26,5 | 7   | 22 | 13 | 0        |
| AAJ44     | tap collet without friction | 7   | 5,5  | M9 - M10    | 26,5 | 7   | 22 | 13 | 0        |
| AAJ45     | tap collet without friction | 3,5 | 2,8  | M3 - M5     | 28,5 | 7   | 30 | 19 | 1        |
| AAJ46     | tap collet without friction | 4   | 3,15 | M3,5 - M4,5 | 28,5 | 7   | 30 | 19 | 1        |
| AAJ47     | tap collet without friction | 4,5 | 3,4  | M4 - M6     | 28,5 | 7   | 30 | 19 | 1        |
| AAJ48     | tap collet without friction | 6   | 4,9  | M5 - M8     | 28,5 | 7   | 30 | 19 | 1        |
| AAJ49     | tap collet without friction | 7   | 5,5  | M9 - M10    | 28,5 | 7   | 30 | 19 | 1        |
| AAJ50     | tap collet without friction | 8   | 6,2  | M11         | 28,5 | 7   | 30 | 19 | 1        |
| AAJ51     | tap collet without friction | 9   | 7    | M12         | 28,5 | 7   | 30 | 19 | 1        |
| AAJ52     | tap collet without friction | 10  | 8    | M10 - M12   | 28,5 | 7   | 30 | 19 | 1        |
| AAJ53     | tap collet without friction | 12  | 9    | M16         | 28,5 | 7   | 30 | 19 | 1        |
| AAJ54     | tap collet without friction | 4   | 3,15 | M3,5 - M4,5 | 46   | 11  | 46 | 31 | 2        |
| AAJ55     | tap collet without friction | 6   | 4,9  | M5 - M8     | 46   | 11  | 46 | 31 | 2        |
| AAJ56     | tap collet without friction | 7   | 5,5  | M9 - M10    | 46   | 11  | 46 | 31 | 2        |
| AAJ57     | tap collet without friction | 8   | 6,2  | M11         | 46   | 11  | 46 | 31 | 2        |
| AAJ58     | tap collet without friction | 9   | 7    | M12         | 46   | 11  | 46 | 31 | 2        |
| AAJ59     | tap collet without friction | 10  | 8    | M10 - M12   | 46   | 11  | 46 | 31 | 2        |
| AAJ60     | tap collet without friction | 11  | 8,5  | M14         | 46   | 11  | 46 | 31 | 2        |
| AAJ61     | tap collet without friction | 12  | 9    | M16         | 46   | 11  | 46 | 31 | 2        |
| AAJ62     | tap collet without friction | 14  | 11   | M18         | 46   | 11  | 46 | 31 | 2        |
| AAJ63     | tap collet without friction | 16  | 12   | M20         | 46   | 11  | 46 | 31 | 2        |
| AAJ64     | tap collet without friction | 18  | 14,5 | M22 - M24   | 46   | 11  | 46 | 31 | 2        |
| AAJ65     | tap collet without friction | 20  | 16   | M27         | 35   | 8,5 | 46 | 31 | 2K       |



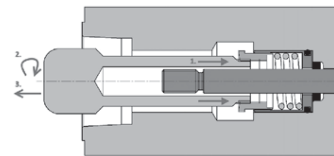
TAP COLLETS WITHOUT FRICTION

| Part code | Description                 | d  | q    | M         | L    | L1  | D  | D1 | Gr. Bus. |
|-----------|-----------------------------|----|------|-----------|------|-----|----|----|----------|
| AAJ66     | tap collet without friction | 22 | 18   | M30       | 35   | 8,5 | 46 | 31 | 2K       |
| AAJ67     | tap collet without friction | 12 | 9    | M16       | 69,5 | 14  | 68 | 48 | 3        |
| AAJ68     | tap collet without friction | 14 | 11   | M18       | 69,5 | 14  | 68 | 48 | 3        |
| AAJ69     | tap collet without friction | 16 | 12   | M20       | 69,5 | 14  | 68 | 48 | 3        |
| AAJ70     | tap collet without friction | 18 | 14,5 | M22 - M24 | 69,5 | 14  | 68 | 48 | 3        |
| AAJ71     | tap collet without friction | 20 | 16   | M27       | 69,5 | 14  | 68 | 48 | 3        |
| AAJ72     | tap collet without friction | 22 | 18   | M30       | 69,5 | 14  | 68 | 48 | 3        |
| AAJ73     | tap collet without friction | 25 | 20   | M33       | 69,5 | 14  | 68 | 48 | 3        |
| AAJ74     | tap collet without friction | 28 | 22   | M36       | 55,5 | 9   | 68 | 48 | 3K       |
| AAJ75     | tap collet without friction | 32 | 24   | M39 - M42 | 55,5 | 9   | 68 | 48 | 3K       |
| AAJ76     | tap collet without friction | 36 | 29   | M45 - M48 | 55,5 | 9   | 68 | 48 | 3K       |
| AAJ77     | tap collet without friction | 18 | 14,5 | M22 - M24 | 105  | 42  | 83 | 60 | 4        |
| AAJ78     | tap collet without friction | 20 | 16   | M27       | 105  | 42  | 83 | 60 | 4        |
| AAJ79     | tap collet without friction | 22 | 18   | M30       | 105  | 42  | 83 | 60 | 4        |
| AAJ80     | tap collet without friction | 25 | 20   | M33       | 105  | 42  | 83 | 60 | 4        |
| AAJ81     | tap collet without friction | 28 | 22   | M36       | 105  | 42  | 83 | 60 | 4        |
| AAJ82     | tap collet without friction | 32 | 24   | M39 - M42 | 105  | 42  | 83 | 60 | 4        |
| AAJ83     | tap collet without friction | 36 | 29   | M45 - M48 | 105  | 42  | 83 | 60 | 4        |
| AAJ84     | tap collet without friction | 40 | 32   | M52       | 105  | 42  | 83 | 60 | 4K       |
| AAJ85     | tap collet without friction | 45 | 36   | M56 - M60 | 105  | 42  | 83 | 60 | 4K       |

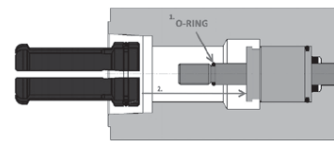
# Petal Collets mounting instruction



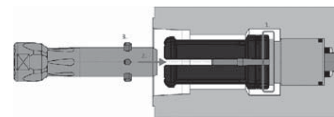
Place the bush as shown in the picture, making sure the O-Ring faces the bottom of the bush housing.



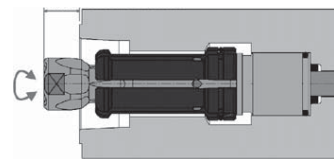
Release the pivot and remove it; test the bush functionality by pushing on it.



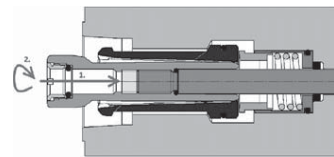
Introduce the gripper assembly inside the spindle. Let the petals group rest against the bush previously inserted.



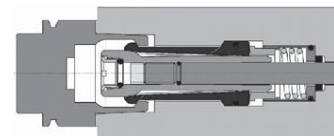
Insert the main body. Its teeth, need to fit among the petals. This will allow the petal assembly to open.



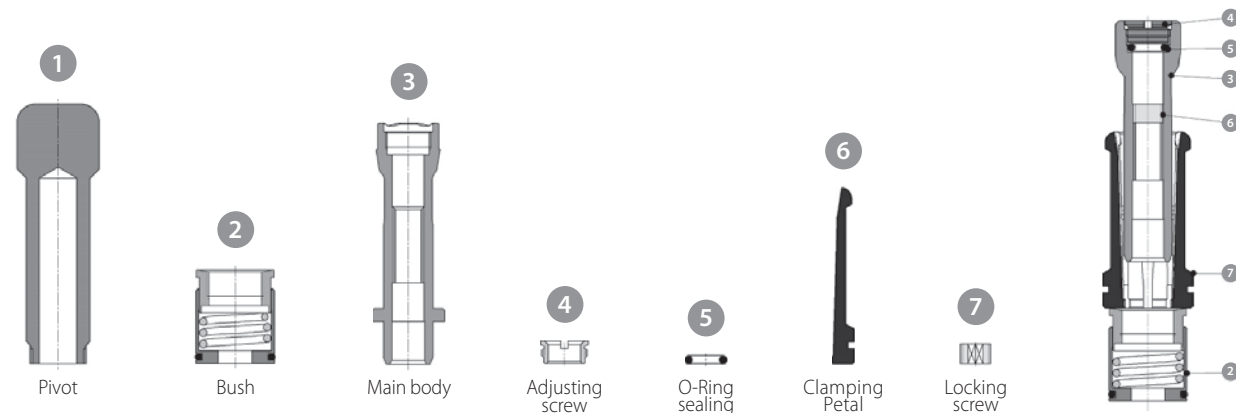
Once the petal collet assembly is leaned against the draw bar, set the tool ejector into release mode and tighten or release the adjusting screw to regulate the height.



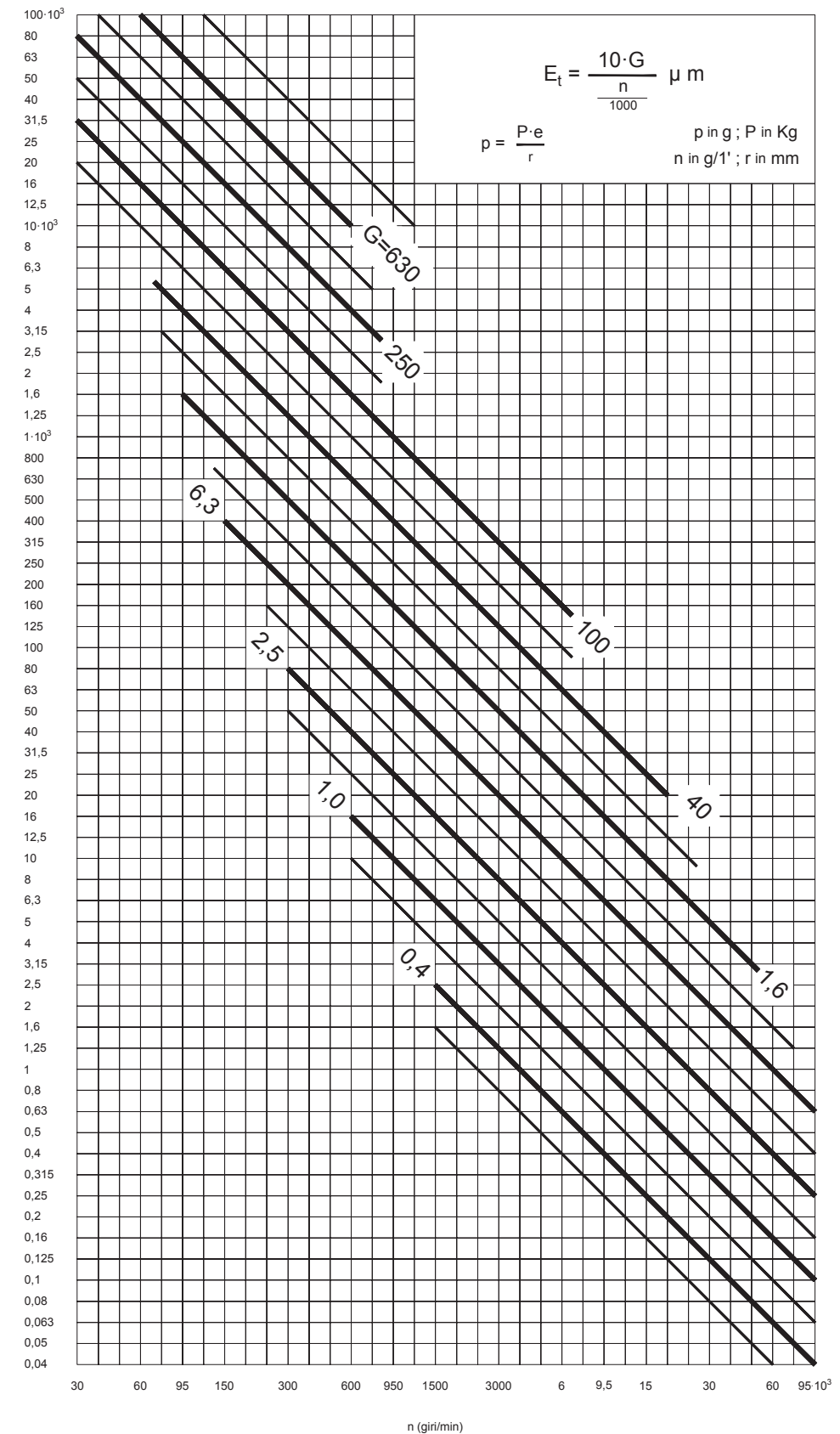
Tighten the locking screw.



Check that the tool holder can be properly clamped and released.



# Balancing specs



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The historical period in which our company saw its beginnings was a decisive moment in Italian history: for the first time since the end of the Risorgimento, **our country was once again an innovative**, leader and world leader, as always basing its success on that inimitable mixture of **creativity, quality** and **open-mindedness** that have always characterized the Italian people. In this flourishing context, the idea of devoting itself to a sector that was not considered as essential as that of the **tool holder**, immediately found fertile ground: the uniqueness of the product, together with the precision of the work and the skill in commercial action, soon granted an important feedback on the national market. Since the end of the last century, the market focus shifted from Europe to a global market made of exasperated competitiveness, sudden changes and innovation at all costs.

The new reality led to the opening of new markets, bringing new awareness to the most astute local entrepreneurs about the need to propose an always **cutting edge** and **qualitatively recognizable product**.

To date, there is not much left of the prosperous Italian industrial landscape of 1969, swallowed up by the crisis, by a lack of propensity for change and by the difficulty in getting used to the idea of no longer being the center of the world.

In this difficult economic situation, only the most skillful companies to combine their productive quality with an effective international strategy have survived.

Those who searched for the shortcut of the economic product have been crushed by the struggle against competitors from nations that have turned low-cost market into their culture. Equally, those relying on a romantic sense of patriotism and on a mistaken conception of events, remained firm in the conviction of a return to the ancient glories, were soon met with no requests.

The **adaptation to the new canons of the industrial distribution** while maintaining the **Italian production quality** were, however, the key to success for IMS.

Our **company is one of the longest-lasting tool-manufacturing companies in the world**, but our vision and corporate mission are definitely oriented towards a future of innovation and digitalization.

With the advent of the **Industry 4.0**, the contribution of a company like IMS, which combines constructive experience and international standards, is essential for maintaining quality standards of excellence, in a market that nowadays too often tends to level down.

This catalog, with its innovative approach to the search for the ideal product, wants to be an important tool in this path of growth, modernization and maintenance of performance.

”



**Alberto Aprà**

CEO IMS srl Industrial Machining Solutions



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