

**LIVETOOLS®**

**Machine Tool People.**  
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**bilz**

## CNC Tool Holders





Liebe Leserin, lieber Leser,

an der „Schneide“ wird bekanntlich das Geld verdient. Dabei beeinflusst die Produktivität dieser Schneide die Gesamtkosten von Zerspanungsprozessen, zu denen sie selbst nur zwischen 4 – 6 % beiträgt. Diesen Aussagen werden wohl die Mehrzahl aller Produktions und Zerspanungsfachleute zustimmen.

Doch was unternehmen Sie, um die Leistungsfähigkeit der Schneide voll auszunutzen und deren Standwege zu erhöhen?

Das vorliegende Handbuch soll Sie bei der Auswahl von optimalen Spannmitteln für Ihre „Schneiden“ unterstützen.

Unsere lange Erfahrung als traditionsreiches Familienunternehmen hilft uns dabei, Produkte zu entwickeln, denen Sie vertrauen können, und in diesem Handbuch ein umfassendes Produktspektrum für Sie zusammenzustellen.

Dabei sind zahlreiche Verbesserungen eingeflossen. „Immer besser“ ist für uns kein Schlagwort. Es ist ein Qualitätsversprechen.

Und unsere Produkte und wir selbst halten, was wir versprechen.

Über das dargestellte Programm hinaus können wir Ihnen unterschiedlichste anwendungs-spezifische Lösungen anbieten.

Sprechen Sie uns auch für neue Lösungen gerne an.

Viele denken nach, wir denken gerne vor.

Im Namen des ganzen Bilz Teams

Dear Reader,

As everyone knows, money is made at the “cutting edge”. The productivity of this cutting edge influences the total costs of cutting processes, whereas its share amounts to 4 – 6 % only.

Most production and cutting experts will agree with these statements.

What do you undertake to fully profit from the performance of the cutting edge and to increase its tool life?

This manual will support you in selecting the optimal clamping tools for your “cutting edges”.

Our long experience as a traditional family-run company helps us to develop products you can rely on and to compile a comprehensive product range in this manual. Many improvements have been included.

“Always better” is not just a slogan for us. It is a promise for quality. And we and our products keep our promises.

Beyond this product range we can offer you various custom-designed solutions.

Please talk to us about new solutions for your applications.

Many people react, we act.

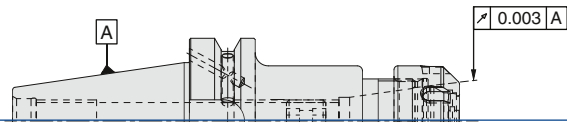
On behalf of the whole Bilz Team

|   |  |
|---|--|
| A | JIS B 6339 / MAS 403 BT / ISO7388-2 (BT)<br>Werkzeugaufnahmen<br>JIS B 6339 / MAS 403 BT / ISO7388-2 (BT) Tool holders |
|   | FBT - Steilkegel mit Plananlage<br>FBT - Face contact holders  |
| B | DIN 69871 / ISO7388-1 (SK) Werkzeugaufnahmen<br>DIN 69871 / ISO7388-1 (SK) Tool holders                                |
| C | DIN 69893(HSK-A) Werkzeugaufnahmen<br>DIN 69893 (HSK-A) Tool holders   |
|   | DIN 69893(HSK-E) Werkzeugaufnahmen<br>DIN 69893 (HSK-E) Tool holders   |
|   | DIN 69893(HSK-F) Werkzeugaufnahmen<br>DIN 69893 (HSK-F) Tool holders   |
| D | Zubehör<br>Accessories   |
| E | Ersatzteile<br>Spare parts   |
| F | Technische Spezifikationen<br>Technical details  |

Erklärung der Piktogramme  
Illustration of the Pictograms



Rundlaufgenauigkeit CNC Halter  
Concentricity of the CNC holders



G2.5  
25000  
R.P.M.

Wuchtgute: Die Futter sind werkseitig feingewuchtet mit G2,5 bei 25.000 U/min, bei Futter mit Masse  $> = 1$  kg bzw. bei Futter mit Masse  $< 1$  kg mit Restunwucht  $< 1$  g mm

Balancing: The chucks are factory-made finely balanced with G2,5 at 25.000 rpm, for chucks with the mass of  $> = 1$  kg; or chucks with the mass of  $< 1$  kg with residual imbalance  $< 1$  g mm



Kühlmitteldurchführung  
Coolant feed



Mit Datenträgerbohrung  
With data carrier bore



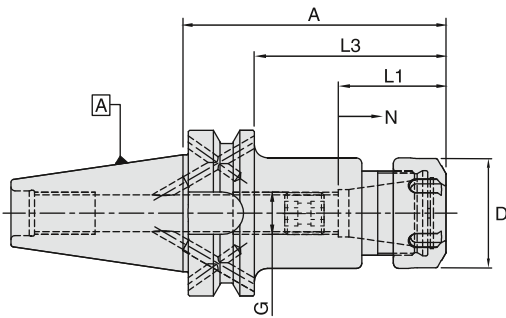
Für tiefe Kavitäten geeignet – speziell für den Gesenk- und Formenbau  
Suitable for deep cavities – especially for the mold and die industry

|  |           |
|--|-----------|
| Spannzangenfutter ER<br>Collet chuck ER  | A2 - A5   |
| Super collet Spannzangenfutter<br>Super collet chuck                                 | A6 - A7   |
| Fräseraufnahmen (Weldon / Whistle Notch)<br>End mill holder (Weldon / Whistle Notch) | A8 - A11  |
| Hochleistungsfräaserspannfutter<br>Hi-power milling chuck                            | A12       |
| Schlanke Hochleistungsfräaserspannfutter<br>Slim Hi-power milling chuck              | A13       |
| Micro-Spannzangenhalter<br>Micro collet holder                                       | A14       |
| Hydrodehnspannfutter<br>Hydraulic expansion chuck                                    | A15 - A16 |
| NC Bohrfutter<br>NC Drill chuck  | A17       |
| Aufnahmen für Morse-Kegel<br>Morse taper holder                                      | A17 - A18 |
| Aufnahmen für Einschraubfräser<br>Chuck for threaded milling heads                   | A19       |
| Kombi-Aufsteckfräserdorn<br>Combi shell mill holder                                  | A20       |
| Aufsteckfräserdorn<br>Shell mill holder  | A21       |
| Reduzierhülsen<br>Reduction Sleeves  | A22       |
| Bohrstangenrohlinge<br>Boring bar blanks   | A22       |
| Kontrolldorn<br>Test Arbor   | A23       |



# Spannzangenfutter Typ ER für Spannzangen ISO 15488 (DIN 6499)

Collet chuck Type ER for collets to ISO 15488 (DIN 6499)

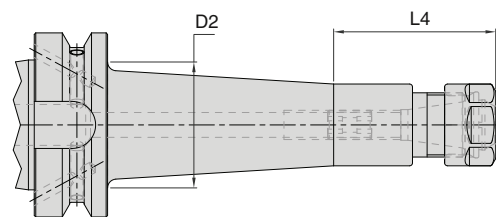


| BT30                      |                  |           |           |            |            |           |    |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|----|------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER 16                     | 1-10             | 28        | 70        | 32.5       | 48         | M10       | 12 | Form "AD"                          | 0.6         | WCCH/ER16-70/BT30          | 4600581   |
| ER 20                     | 1-13             | 34        | 70        | 38.0       | 48         | M12       | 12 | Form "AD"                          | 0.7         | WCCH/ER20-70/BT30          | 5065866   |
| ER 25                     | 2-16             | 42        | 70        | 41.0       | 48         | M12       | 12 | Form "AD"                          | 0.7         | WCCH/ER25-70/BT30          | 4600583   |
| ER 32                     | 2-20             | 50        | 70        | 47.0       | 48         | M12       | 12 | Form "AD"                          | 0.8         | WCCH/ER32-70/BT30          | 5044372   |
| ER 16                     | 1-10             | 28        | 100       | 32.5       | 78         | M10       | 12 | Form "AD"                          | 0.7         | WCCH/ER16-100/BT30         | 6733380   |
| ER 20                     | 1-13             | 34        | 100       | 38.0       | 78         | M12       | 12 | Form "AD"                          | 0.9         | WCCH/ER20-100/BT30         | 6733382   |
| ER 25                     | 2-16             | 42        | 100       | 41.0       | 78         | M12       | 12 | Form "AD"                          | 0.9         | WCCH/ER25-100/BT30         | 6733384   |
| ER 32                     | 2-20             | 50        | 100       | 47.0       | 78         | M12       | 12 | Form "AD"                          | 1.0         | WCCH/ER32-100/BT30         | 6733386   |

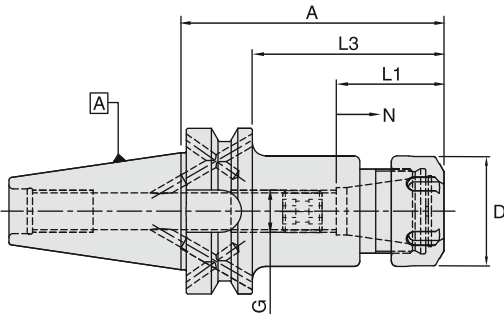
| BT40                      |                  |           |           |            |            |           |    |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|----|------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER 16                     | 1-10             | 28        | 70        | 32.5       | 43         | M10       | 12 | Form "AD/B"                        | 1.2         | WCCH/ER16-70/BT40          | 6733387   |
| ER 20                     | 1-13             | 34        | 70        | 38.0       | 43         | M12       | 12 | Form "AD/B"                        | 1.2         | WCCH/ER20-70/BT40          | 6733390   |
| ER 25                     | 2-16             | 42        | 70        | 41.0       | 43         | M16       | 12 | Form "AD/B"                        | 1.3         | WCCH/ER25-70/BT40          | 6733393   |
| ER 32                     | 2-20             | 50        | 70        | 47.0       | 43         | M22X1.5   | 12 | Form "AD/B"                        | 1.4         | WCCH/ER32-70/BT40          | 6733396   |
| ER 40                     | 3-26             | 63        | 80        | 58.5       | 53         | M22X1.5   | 12 | Form "AD/B"                        | 1.5         | WCCH/ER40-80/BT40          | 6733399   |
| ER 16                     | 1-10             | 28        | 100       | 32.5       | 73         | M10       | 12 | Form "AD/B"                        | 1.3         | WCCH/ER16-100/BT40         | 6733388   |
| ER 20                     | 1-13             | 34        | 100       | 38.0       | 73         | M12       | 12 | Form "AD/B"                        | 1.4         | WCCH/ER20-100/BT40         | 6733391   |
| ER 25                     | 2-16             | 42        | 100       | 41.0       | 73         | M16       | 12 | Form "AD/B"                        | 1.4         | WCCH/ER25-100/BT40         | 6733394   |
| ER 32                     | 2-20             | 50        | 100       | 47.0       | 73         | M22X1.5   | 12 | Form "AD/B"                        | 1.7         | WCCH/ER32-100/BT40         | 6733397   |
| ER 40                     | 3-26             | 63        | 100       | 58.5       | 73         | M22X1.5   | 12 | Form "AD/B"                        | 1.9         | WCCH/ER40-100/BT40         | 6733400   |
| ER 16                     | 1-10             | 28        | 160       | 32.5       | 133        | M10       | 12 | Form "AD/B"                        | 1.5         | WCCH/ER16-160/BT40 ❖       | 5062757   |
| ER 20                     | 1-13             | 34        | 160       | 38.0       | 133        | M12       | 12 | Form "AD/B"                        | 1.8         | WCCH/ER20-160/BT40         | 5062758   |
| ER 25                     | 2-16             | 42        | 160       | 41.0       | 133        | M16       | 12 | Form "AD/B"                        | 2.0         | WCCH/ER25-160/BT40         | 5062759   |
| ER 32                     | 2-20             | 50        | 160       | 47.0       | 133        | M22X1.5   | 12 | Form "AD/B"                        | 2.5         | WCCH/ER32-160/BT40         | 5062760   |
| ER 40                     | 3-26             | 63        | 160       | 58.5       | 133        | M22X1.5   | 12 | Form "AD/B"                        | 2.6         | WCCH/ER40-160/BT40         | 5062761   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20 Pg.D2-D4 Pg.D5 Pg.D7

- Im Lieferumfang enthalten: mit Spannmutter (gewuchtet) und Verstelle schraube
- Höhere Wuchtgüte auf Anfrage
- siehe Seite D17-D18 für Drehmomentschlüssel Spezifikationen
- ❖ Für WCCH/ER16-160/BT40, D2=43.2mm & L4=55.5mm
- Delivery includes: Clamping nut (balanced) & adjusting screw
- Higher balancing grade on request
- Please refer page no.D17-D18 for torque wrench details
- ❖ Note: For WCCH/ER16-160/BT40, D2=43.2mm & L4=55.5mm



Spannzangenfutter Typ ER für Spannzangen ISO 15488 (DIN 6499)  
Collet chuck Type ER for collets to ISO 15488 (DIN 6499)



BT50

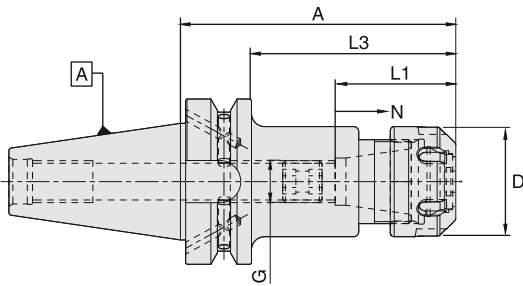
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|----|------------------------------------|-------------|----------------------------|-----------|
| ER 20                     | 1-13             | 34        | 70        | 38.0       | 32         | M12       | 12 | Form "AD/B"                        | 3.8         | WCCH/ER20-70/BT50          | 5062762   |
| ER 25                     | 2-16             | 42        | 70        | 41.0       | 32         | M16       | 12 | Form "AD/B"                        | 3.7         | WCCH/ER25-70/BT50          | 5062763   |
| ER 32                     | 2-20             | 50        | 70        | 47.0       | 32         | M22X1.5   | 12 | Form "AD/B"                        | 3.8         | WCCH/ER32-70/BT50          | 5062764   |
| ER 40                     | 3-26             | 63        | 80        | 58.5       | 42         | M22X1.5   | 12 | Form "AD/B"                        | 4.0         | WCCH/ER40-80/BT50          | 5062765   |
| ER 16                     | 1-10             | 28        | 100       | 32.5       | 62         | M10       | 12 | Form "AD/B"                        | 3.8         | WCCH/ER16-100/BT50         | 6733403   |
| ER 20                     | 1-13             | 34        | 100       | 38.0       | 62         | M12       | 12 | Form "AD/B"                        | 3.9         | WCCH/ER20-100/BT50         | 6733405   |
| ER 25                     | 2-16             | 42        | 100       | 41.0       | 62         | M16       | 12 | Form "AD/B"                        | 3.9         | WCCH/ER25-100/BT50         | 5062405   |
| ER 32                     | 2-20             | 50        | 100       | 47.0       | 62         | M22X1.5   | 12 | Form "AD/B"                        | 4.1         | WCCH/ER32-100/BT50         | 6733407   |
| ER 40                     | 3-26             | 63        | 100       | 58.5       | 62         | M22X1.5   | 12 | Form "AD/B"                        | 4.2         | WCCH/ER40-100/BT50         | 6733409   |
| ER 16                     | 1-10             | 28        | 160       | 32.5       | 122        | M10       | 12 | Form "AD/B"                        | 4.1         | WCCH/ER16-160/BT50         | 5062789   |
| ER 20                     | 1-13             | 34        | 160       | 38.0       | 122        | M12       | 12 | Form "AD/B"                        | 4.5         | WCCH/ER20-160/BT50         | 5062790   |
| ER 25                     | 2-16             | 42        | 160       | 41.0       | 122        | M16       | 12 | Form "AD/B"                        | 4.6         | WCCH/ER25-160/BT50         | 5062791   |
| ER 32                     | 2-20             | 50        | 160       | 47.0       | 122        | M22X1.5   | 12 | Form "AD/B"                        | 4.9         | WCCH/ER32-160/BT50         | 5062792   |
| ER 40                     | 3-26             | 63        | 160       | 58.5       | 122        | M22X1.5   | 12 | Form "AD/B"                        | 5.0         | WCCH/ER40-160/BT50         | 5062793   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20 Pg.D2-D4 Pg.D5 Pg.D7

- Im Lieferumfang enthalten: mit Spannmutter (gewuchtet) und Verstellechraube
- Höhere Wuchtgüte auf Anfrage
- siehe Seite D17-D18 für Drehmomentschlüssel Spezifikationen
- Delivery includes: Clamping nut (balanced) & adjusting screw
- Higher balancing grade on request
- Please refer page no.D17-D18 for torque wrench details

# Spannzangenfutter Typ ERC mit interner Kühlung

Collet chuck Type ERC with internal coolant (ER-IC / EX-IC coolant nut)



| BT30                      |                  |           |           |            |            |           |    |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|----|------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER 16                     | 1-10             | 28        | 75        | 37.5       | 53         | M10       | 12 | Form "AD"                          | 0.7         | WCCH/ERC16-75/BT30         | 5104129   |
| ER 20                     | 1-13             | 34        | 75        | 43.0       | 53         | M12       | 12 | Form "AD"                          | 0.9         | WCCH/ERC20-75/BT30         | 5104130   |
| ER 25                     | 2-16             | 42        | 75        | 46.0       | 53         | M12       | 12 | Form "AD"                          | 0.6         | WCCH/ERC25-75/BT30         | 5104131   |
| ER 32                     | 2-20             | 50        | 75        | 52.0       | 53         | M12       | 12 | Form "AD"                          | 0.8         | WCCH/ERC32-75/BT30         | 5104132   |
| ER 16                     | 1-10             | 28        | 105       | 37.5       | 83         | M10       | 12 | Form "AD"                          | 0.7         | WCCH/ERC16-105/BT30        | 5104134   |
| ER 20                     | 1-13             | 34        | 105       | 43.0       | 83         | M12       | 12 | Form "AD"                          | 1.3         | WCCH/ERC20-105/BT30        | 5104136   |
| ER 25                     | 2-16             | 42        | 105       | 46.0       | 83         | M12       | 12 | Form "AD"                          | 0.6         | WCCH/ERC25-105/BT30        | 5104137   |

| BT40                      |                  |           |           |            |            |           |    |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|----|------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER 16                     | 1-10             | 28        | 75        | 37.5       | 48         | M10       | 12 | Form "AD/B"                        | 1.0         | WCCH/ERC16-75/BT40         | 5104138   |
| ER 20                     | 1-13             | 34        | 75        | 43.0       | 48         | M12       | 12 | Form "AD/B"                        | 1.2         | WCCH/ERC20-75/BT40         | 5104139   |
| ER 25                     | 2-16             | 42        | 75        | 46.0       | 48         | M16       | 12 | Form "AD/B"                        | 1.0         | WCCH/ERC25-75/BT40         | 5104141   |
| ER 32                     | 2-20             | 50        | 75        | 52.0       | 48         | M22X1.5   | 12 | Form "AD/B"                        | 1.2         | WCCH/ERC32-75/BT40         | 5104142   |
| ER 40                     | 3-26             | 63        | 85        | 63.5       | 58         | M22X1.5   | 12 | Form "AD/B"                        | 1.2         | WCCH/ERC40-85/BT40         | 5104143   |
| ER 16                     | 1-10             | 28        | 105       | 37.5       | 78         | M10       | 12 | Form "AD/B"                        | 1.2         | WCCH/ERC16-105/BT40        | 5104144   |
| ER 20                     | 1-13             | 34        | 105       | 43.0       | 78         | M12       | 12 | Form "AD/B"                        | 1.4         | WCCH/ERC20-105/BT40        | 5104145   |
| ER 25                     | 2-16             | 42        | 105       | 46.0       | 78         | M16       | 12 | Form "AD/B"                        | 1.4         | WCCH/ERC25-105/BT40        | 5104146   |
| ER 32                     | 2-20             | 50        | 105       | 52.0       | 78         | M22X1.5   | 12 | Form "AD/B"                        | 1.5         | WCCH/ERC32-105/BT40        | 5104147   |
| ER 40                     | 3-26             | 63        | 105       | 63.5       | 78         | M22X1.5   | 12 | Form "AD/B"                        | 1.8         | WCCH/ERC40-105/BT40        | 5104148   |
| ER 16                     | 1-10             | 28        | 165       | 37.5       | 138        | M10       | 12 | Form "AD/B"                        | 1.6         | WCCH/ERC16-165/BT40        | 5104149   |
| ER 20                     | 1-13             | 34        | 165       | 43.0       | 138        | M12       | 12 | Form "AD/B"                        | 1.6         | WCCH/ERC20-165/BT40        | 5104150   |
| ER 25                     | 2-16             | 42        | 165       | 46.0       | 138        | M16       | 12 | Form "AD/B"                        | 2.1         | WCCH/ERC25-165/BT40        | 5104151   |
| ER 32                     | 2-20             | 50        | 165       | 52.0       | 138        | M22X1.5   | 12 | Form "AD/B"                        | 2.5         | WCCH/ERC32-165/BT40        | 5104153   |
| ER 40                     | 3-26             | 63        | 165       | 63.5       | 138        | M22X1.5   | 12 | Form "AD/B"                        | 2.6         | WCCH/ERC40-165/BT40        | 5104154   |

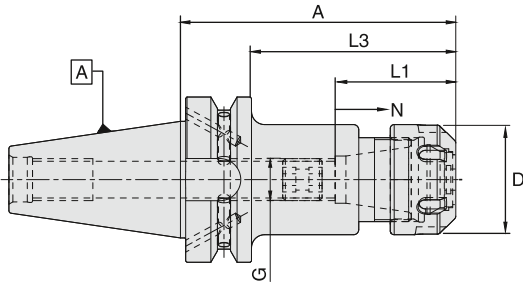
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20 Pg.D2-D4 Pg.D5 Pg.D7

- Im Lieferumfang enthalten: Spannmutter (gewuchtet) und Einstellschraube
- Höhere Wuchtgüte auf Anfrage
- siehe Seite D17-D18 für Drehmomentschlüssel Spezifikationen
- ❖ Für WCCH/ERC16-165/BT40, D2=43.2mm & L2=60.5mm

- Delivery includes: Clamping nut (balanced) & adjusting screw
- Higher balancing grade on request
- Please refer page no.D17-D18 for torque wrench details
- ❖ Note: For WCCH/ERC16-165/BT40, D2=43.2mm & L4=60.5mm



Spannzangenfutter Typ ERC mit interner Kühlung  
Collet chuck Type ERC with internal coolant (ER-IC / EX-IC coolant nut)



BT50

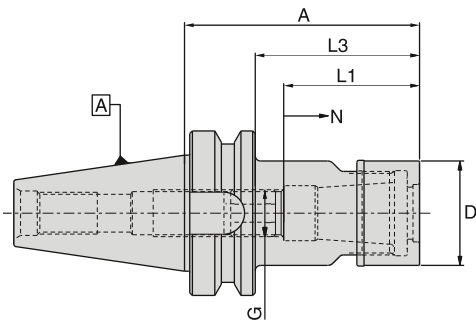
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|----|------------------------------------|-------------|----------------------------|-----------|
| ER 20                     | 1-13             | 34        | 75        | 43.0       | 37         | M12       | 12 | Form "AD/B"                        | 4.0         | WCCH/ERC20-75/BT50         | 5104236   |
| ER 25                     | 2-16             | 42        | 75        | 46.0       | 37         | M16       | 12 | Form "AD/B"                        | 3.4         | WCCH/ERC25-75/BT50         | 5104237   |
| ER 32                     | 2-20             | 50        | 75        | 52.0       | 37         | M22X1.5   | 12 | Form "AD/B"                        | 3.5         | WCCH/ERC32-75/BT50         | 5104238   |
| ER 40                     | 3-26             | 63        | 85        | 63.5       | 47         | M22X1.5   | 12 | Form "AD/B"                        | 3.6         | WCCH/ERC40-85/BT50         | 5104239   |
| ER 16                     | 1-10             | 28        | 105       | 37.5       | 67         | M10       | 12 | Form "AD/B"                        | 3.6         | WCCH/ERC16-105/BT50        | 5104240   |
| ER 20                     | 1-13             | 34        | 105       | 43.0       | 67         | M12       | 12 | Form "AD/B"                        | 4.0         | WCCH/ERC20-105/BT50        | 5104241   |
| ER 25                     | 2-16             | 42        | 105       | 46.0       | 67         | M16       | 12 | Form "AD/B"                        | 3.8         | WCCH/ERC25-105/BT50        | 5104242   |
| ER 32                     | 2-20             | 50        | 105       | 52.0       | 67         | M22X1.5   | 12 | Form "AD/B"                        | 3.9         | WCCH/ERC32-105/BT50        | 5104243   |
| ER 40                     | 3-26             | 63        | 105       | 63.5       | 67         | M22X1.5   | 12 | Form "AD/B"                        | 3.8         | WCCH/ERC40-105/BT50        | 5104244   |
| ER 16                     | 1-10             | 28        | 165       | 37.5       | 127        | M10       | 12 | Form "AD/B"                        | 4.1         | WCCH/ERC16-165/BT50        | 5104245   |
| ER 20                     | 1-13             | 34        | 165       | 43.0       | 127        | M12       | 12 | Form "AD/B"                        | 4.1         | WCCH/ERC20-165/BT50        | 5104246   |
| ER 25                     | 2-16             | 42        | 165       | 46.0       | 127        | M16       | 12 | Form "AD/B"                        | 4.1         | WCCH/ERC25-165/BT50        | 5104247   |
| ER 32                     | 2-20             | 50        | 165       | 52.0       | 127        | M22X1.5   | 12 | Form "AD/B"                        | 4.6         | WCCH/ERC32-165/BT50        | 5104248   |
| ER 40                     | 3-26             | 63        | 165       | 63.5       | 127        | M22X1.5   | 12 | Form "AD/B"                        | 4.6         | WCCH/ERC40-165/BT50        | 5104249   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20 Pg.D2-D4 Pg.D5 Pg.D7

- Im Lieferumfang enthalten: mit Spannmutter (gewuchtet) und Verstelle schraube
- Höhere Wuchtgüte auf Anfrage
- siehe Seite D17-D18 für Drehmomentschlüssel Spezifikationen
- Delivery includes: Clamping nut (balanced) & adjusting screw
- Higher balancing grade on request
- Please refer page no.D17-D18 for torque wrench details

# Super collet Spannzangenfutter

## Super collet chuck



| BT30                      |                  |           |           |            |            |           |           |                                     |             |                            | ≤ 2µm     | G2.5<br>25000<br>RPM | bar |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|-------------------------------------|-------------|----------------------------|-----------|----------------------|-----|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                      |     |
| SC06                      | 2-6              | 19.5      | 60        | 31.5       | 38         | M8 x1     | 12        | Form "AD"                           | 0,53        | WSCH/SCF06-60/BT30         | 5100405   |                      |     |
| SC06                      | 2-6              | 19.5      | 90        | 31.5       | 68         | M8 x1     | 12        | Form "AD"                           | 0,56        | WSCH/SCF06-90/BT30         | 5100407   |                      |     |
| SC10                      | 2-10             | 27.1      | 60        | 35.0       | 38         | M12 x1    | 12        | Form "AD"                           | 0,60        | WSCH/SCF10-60/BT30         | 5100408   |                      |     |
| SC10                      | 2-10             | 27.1      | 90        | 35.0       | 68         | M12 x1    | 12        | Form "AD"                           | 0,62        | WSCH/SCF10-90/BT30         | 5100416   |                      |     |
| SC13                      | 3-13             | 33.0      | 60        | 43.0       | 38         | M15 x1    | 16        | Form "AD"                           | 0,62        | WSCH/SCF13-60/BT30         | 5100420   |                      |     |
| SC13                      | 3-13             | 33.0      | 90        | 43.0       | 68         | M15 x1    | 16        | Form "AD"                           | 0,75        | WSCH/SCF13-90/BT30         | 5100421   |                      |     |
| SC16                      | 3-16             | 40.0      | 60        | 52.0       | 38         | M18 x1    | 16        | Form "AD"                           | 0,65        | WSCH/SCF16-60/BT30         | 5100423   |                      |     |
| SC16                      | 3-16             | 40.0      | 90        | 52.0       | 68         | M18 x1    | 16        | Form "AD"                           | 0,90        | WSCH/SCF16-90/BT30         | 5100425   |                      |     |
| SC20                      | 6-20             | 48.0      | 60        | 59.5       | 38         | M22 x1    | 16        | Form "AD"                           | 0,70        | WSCH/SCF20-60/BT30         | 5100426   |                      |     |
| SC20                      | 6-20             | 48.0      | 90        | 59.5       | 68         | M22 x1    | 16        | Form "AD"                           | 0,90        | WSCH/SCF20-90/BT30         | 5100427   |                      |     |
| SC25                      | 6-25             | 55.0      | 90        | 63.5       | 68         | M28 x1    | 20        | Form "AD"                           | 1,15        | WSCH/SCF25-90/BT30         | 5100429   |                      |     |

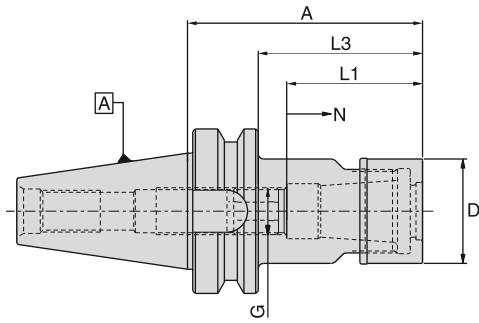
| BT40                      |                  |           |           |            |            |           |           |                                     |             |                            | ≤ 2µm     | G2.5<br>25000<br>RPM | bar |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|-------------------------------------|-------------|----------------------------|-----------|----------------------|-----|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                      |     |
| SC06                      | 2-6              | 19.5      | 90        | 31.5       | 63         | M8 x1     | 12        | Form "AD"                           | 1,10        | WSCH/SCF06-90/BT40         | 5100431   |                      |     |
| SC06                      | 2-6              | 19.5      | 120       | 31.5       | 93         | M8 x1     | 12        | Form "AD"                           | 1,20        | WSCH/SCF06-120/BT40        | 5100434   |                      |     |
| SC06                      | 2-6              | 19.5      | 150       | 31.5       | 123        | M8 x1     | 12        | Form "AD"                           | 1,25        | WSCH/SCF06-150/BT40        | 5100435   |                      |     |
| SC10                      | 2-10             | 27.1      | 90        | 35.0       | 63         | M12 x1    | 12        | Form "AD"                           | 1,20        | WSCH/SCF10-90/BT40         | 5100436   |                      |     |
| SC10                      | 2-10             | 27.1      | 120       | 35.0       | 93         | M12 x1    | 12        | Form "AD"                           | 1,35        | WSCH/SCF10-120/BT40        | 5100437   |                      |     |
| SC10                      | 2-10             | 27.1      | 150       | 35.0       | 123        | M12 x1    | 12        | Form "AD"                           | 1,45        | WSCH/SCF10-150/BT40        | 5100439   |                      |     |
| SC13                      | 3-13             | 33.0      | 90        | 43.0       | 63         | M15 x1    | 16        | Form "AD"                           | 1,40        | WSCH/SCF13-90/BT40         | 5100441   |                      |     |
| SC13                      | 3-13             | 33.0      | 120       | 43.0       | 93         | M15 x1    | 16        | Form "AD"                           | 1,50        | WSCH/SCF13-120/BT40        | 5100442   |                      |     |
| SC13                      | 3-13             | 33.0      | 150       | 43.0       | 123        | M15 x1    | 16        | Form "AD"                           | 1,71        | WSCH/SCF13-150/BT40        | 5100443   |                      |     |
| SC16                      | 3-16             | 40.0      | 90        | 52.0       | 63         | M18 x1    | 16        | Form "AD"                           | 1,50        | WSCH/SCF16-90/BT40         | 5100444   |                      |     |
| SC16                      | 3-16             | 40.0      | 120       | 52.0       | 93         | M18 x1    | 16        | Form "AD"                           | 1,70        | WSCH/SCF16-120/BT40        | 5100446   |                      |     |
| SC16                      | 3-16             | 40.0      | 150       | 52.0       | 123        | M18 x1    | 16        | Form "AD"                           | 2,00        | WSCH/SCF16-150/BT40        | 5100447   |                      |     |
| SC20                      | 6-20             | 48.0      | 90        | 59.5       | 63         | M22 x1    | 16        | Form "AD"                           | 1,41        | WSCH/SCF20-90/BT40         | 5100448   |                      |     |
| SC20                      | 6-20             | 48.0      | 120       | 59.5       | 93         | M22 x1    | 16        | Form "AD"                           | 2,01        | WSCH/SCF20-120/BT40        | 5100449   |                      |     |
| SC20                      | 6-20             | 48.0      | 150       | 59.5       | 123        | M22 x1    | 16        | Form "AD"                           | 2,45        | WSCH/SCF20-150/BT40        | 5100450   |                      |     |
| SC25                      | 6-25             | 55.0      | 90        | 63.5       | 63         | M28 x1    | 20        | Form "AD"                           | 1,55        | WSCH/SCF25-90/BT40         | 5100452   |                      |     |
| SC25                      | 6-25             | 55.0      | 120       | 63.5       | 93         | M28 x1    | 20        | Form "AD"                           | 2,20        | WSCH/SCF25-120/BT40        | 5100453   |                      |     |
| SC25                      | 6-25             | 55.0      | 150       | 63.5       | 123        | M28 x1    | 20        | Form "AD"                           | 2,70        | WSCH/SCF25-150/BT40        | 5100456   |                      |     |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D8-D9 Pg.D10 Pg.D9 Pg.D20

• Im Lieferumfang enthalten: mit Spannmutter (gewuchtet) und Verstellechraube • Delivery includes: Clamping nut (friction type), Adjusting screw

Technische Details siehe Seite F6-F7 / For technical details please refer the instruction manual provided in the packing box or refer page F6-F7

Super collet Spannzangenfutter  
Super collet chuck



BT50

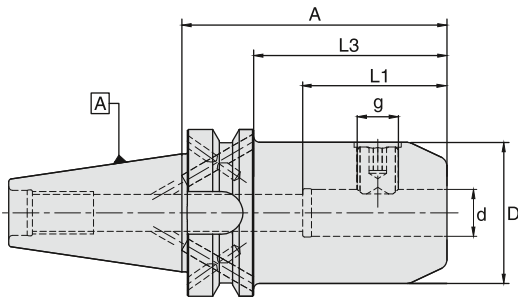
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|------------------------------------|-------------|----------------------------|-----------|
| SC06                      | 2-6              | 19.5      | 105       | 31.5       | 67         | M8 x1     | 12        | Form "AD"                          | 3,70        | WSCH/SCF06-105/BT50        | 5100457   |
| SC06                      | 2-6              | 19.5      | 135       | 31.5       | 97         | M8 x1     | 12        | Form "AD"                          | 3,80        | WSCH/SCF06-135/BT50        | 5100458   |
| SC06                      | 2-6              | 19.5      | 165       | 31.5       | 127        | M8 x1     | 12        | Form "AD"                          | 3,85        | WSCH/SCF06-165/BT50        | 5100459   |
| SC10                      | 2-10             | 27.1      | 105       | 35.0       | 67         | M12 x1    | 12        | Form "AD"                          | 3,85        | WSCH/SCF10-105/BT50        | 5100460   |
| SC10                      | 2-10             | 27.1      | 135       | 35.0       | 97         | M12 x1    | 12        | Form "AD"                          | 3,92        | WSCH/SCF10-135/BT50        | 5100461   |
| SC10                      | 2-10             | 27.1      | 165       | 35.0       | 127        | M12 x1    | 12        | Form "AD"                          | 4,10        | WSCH/SCF10-165/BT50        | 5100462   |
| SC13                      | 3-13             | 33.0      | 105       | 43.0       | 67         | M15 x1    | 16        | Form "AD"                          | 4,10        | WSCH/SCF13-105/BT50        | 5101997   |
| SC13                      | 3-13             | 33.0      | 135       | 43.0       | 97         | M15 x1    | 16        | Form "AD"                          | 4,20        | WSCH/SCF13-135/BT50        | 5101998   |
| SC13                      | 3-13             | 33.0      | 165       | 43.0       | 127        | M15 x1    | 16        | Form "AD"                          | 4,35        | WSCH/SCF13-165/BT50        | 5101999   |
| SC16                      | 3-16             | 40.0      | 105       | 52.0       | 67         | M18 x1.5  | 16        | Form "AD"                          | 4,10        | WSCH/SCF16-105/BT50        | 5102000   |
| SC16                      | 3-16             | 40.0      | 135       | 52.0       | 97         | M18 x1.5  | 16        | Form "AD"                          | 4,30        | WSCH/SCF16-135/BT50        | 5102001   |
| SC16                      | 3-16             | 40.0      | 165       | 52.0       | 127        | M18 x1.5  | 16        | Form "AD"                          | 4,50        | WSCH/SCF16-165/BT50        | 5102002   |
| SC20                      | 6-20             | 48.0      | 105       | 59.5       | 67         | M22 x1.5  | 16        | Form "AD"                          | 4,30        | WSCH/SCF20-105/BT50        | 5102003   |
| SC20                      | 6-20             | 48.0      | 135       | 59.5       | 97         | M22 x1.5  | 16        | Form "AD"                          | 4,65        | WSCH/SCF20-135/BT50        | 5102004   |
| SC20                      | 6-20             | 48.0      | 165       | 59.5       | 127        | M22 x1.5  | 16        | Form "AD"                          | 5,00        | WSCH/SCF20-165/BT50        | 5102005   |
| SC25                      | 6-25             | 55.0      | 105       | 63.5       | 67         | M28 x1.5  | 20        | Form "AD"                          | 4,30        | WSCH/SCF25-105/BT50        | 5102006   |
| SC25                      | 6-25             | 55.0      | 135       | 63.5       | 97         | M28 x1.5  | 20        | Form "AD"                          | 4,80        | WSCH/SCF25-135/BT50        | 5102007   |
| SC25                      | 6-25             | 55.0      | 165       | 63.5       | 127        | M28 x1.5  | 20        | Form "AD"                          | 5,30        | WSCH/SCF25-165/BT50        | 5102008   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D8-D9 Pg.D10 Pg.D9 Pg.D20

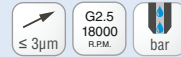
• Im Lieferumfang enthalten: mit Spannmutter (gewuchtet) und Verstelle schraube • Delivery includes: Clamping nut (friction type), Adjusting screw

Technische Details siehe Seite F6-F7 / For technical details please refer the instruction manual provided in the packing box or refer page F6-F7

Fräseraufnahmen (Weldon) - für Zylinderschäfte gemäß DIN 1835B  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835B



| BT30   |        |        |         |         |     |                                    |          |                            |           |
|--------|--------|--------|---------|---------|-----|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g   | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06     | 25     | 50     | 37.0    | 28      | M6  | Form "AD"                          | 0.50     | WSLH/06-50/BT30            | 4600586   |
| 08     | 28     | 50     | 37.0    | 28      | M8  | Form "AD"                          | 0.50     | WSLH/08-50/BT30            | 4600587   |
| 10     | 35     | 50     | 41.0    | 28      | M10 | Form "AD"                          | 0.60     | WSLH/10-50/BT30            | 4600588   |
| 12     | 42     | 50     | 46.0    | 28      | M12 | Form "AD"                          | 0.65     | WSLH/12-50/BT30            | 4600589   |
| 14     | 44     | 50     | 46.0    | 28      | M12 | Form "AD"                          | 0.65     | WSLH/14-50/BT30            | 4600590   |
| 16     | 48     | 63     | 49.0    | 41      | M14 | Form "AD"                          | 0.90     | WSLH/16-63/BT30            | 4600591   |
| 18     | 50     | 63     | 49.0    | 41      | M14 | Form "AD"                          | 0.95     | WSLH/18-63/BT30            | 4600592   |
| 20     | 52     | 63     | 51.0    | 41      | M16 | Form "AD"                          | 0.95     | WSLH/20-63/BT30            | 5050529   |



| BT40   |        |        |         |         |        |                                    |          |                            |           |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 48     | 35     | 49.0    | 8       | M14    | Form "AD"                          | 1.05     | WSLH/16-35/BT40*           | 5062796   |
| 20     | 52     | 35     | 51.0    | 8       | M16    | Form "AD"                          | 1.10     | WSLH/20-35/BT40*           | 5062797   |
| 25     | 45     | 35     | 59.0    | 8       | M16    | Form "AD"                          | 1.00     | WSLH/25-35/BT40*           | 5062798   |
| 32     | 63     | 65     | 63.0    | 38      | M20 x2 | Form "AD"                          | 1.50     | WSLH/32-65/BT40*           | 5062799   |
| 06     | 25     | 50     | 37.0    | 23      | M6     | Form "AD/B"                        | 1.02     | WSLH/06-50/BT40            | 5062843   |
| 08     | 28     | 50     | 37.0    | 23      | M8     | Form "AD/B"                        | 1.10     | WSLH/08-50/BT40            | 5062846   |
| 10     | 35     | 63     | 41.0    | 36      | M10    | Form "AD/B"                        | 1.25     | WSLH/10-63/BT40            | 5062847   |
| 12     | 42     | 63     | 46.0    | 36      | M12    | Form "AD/B"                        | 1.30     | WSLH/12-63/BT40            | 5062848   |
| 14     | 44     | 63     | 46.0    | 36      | M12    | Form "AD/B"                        | 1.30     | WSLH/14-63/BT40            | 5062849   |
| 16     | 48     | 63     | 49.0    | 36      | M14    | Form "AD/B"                        | 1.40     | WSLH/16-63/BT40            | 5062851   |
| 18     | 50     | 63     | 49.0    | 36      | M14    | Form "AD/B"                        | 1.40     | WSLH/18-63/BT40            | 5062852   |
| 20     | 52     | 63     | 51.0    | 36      | M16    | Form "AD/B"                        | 1.50     | WSLH/20-63/BT40            | 5062853   |
| 25     | 65     | 90     | 59.0    | 63      | M18 x2 | Form "AD/B"                        | 2.20     | WSLH/25-90/BT40 **         | 5062856   |
| 32     | 72     | 100    | 63.0    | 73      | M20 x2 | Form "AD/B"                        | 2.70     | WSLH/32-100/BT40 **        | 5062883   |
| 40     | 80     | 120    | 73.0    | 93      | M20 x2 | Form "AD/B"                        | 3.55     | WSLH/40-120/BT40 **        | 5062884   |
| 06     | 25     | 100    | 37.0    | 73      | M6     | Form "AD/B"                        | 1.22     | WSLH/06-100/BT40           | 5062897   |
| 08     | 28     | 100    | 37.0    | 73      | M8     | Form "AD/B"                        | 1.30     | WSLH/08-100/BT40           | 5062898   |
| 10     | 35     | 100    | 41.0    | 73      | M10    | Form "AD/B"                        | 1.50     | WSLH/10-100/BT40           | 5062899   |
| 12     | 42     | 100    | 46.0    | 73      | M12    | Form "AD/B"                        | 1.70     | WSLH/12-100/BT40           | 5062900   |
| 14     | 44     | 100    | 46.0    | 73      | M12    | Form "AD/B"                        | 1.70     | WSLH/14-100/BT40           | 5062901   |
| 16     | 48     | 100    | 49.0    | 73      | M14    | Form "AD/B"                        | 1.85     | WSLH/16-100/BT40           | 5062902   |
| 18     | 50     | 100    | 49.0    | 73      | M14    | Form "AD/B"                        | 1.90     | WSLH/18-100/BT40           | 5062903   |
| 20     | 52     | 100    | 51.0    | 73      | M16    | Form "AD/B"                        | 2.00     | WSLH/20-100/BT40           | 5062904   |
| 06     | 25     | 160    | 37.0    | 133     | M6     | Form "AD/B"                        | 1.60     | WSLH/06-160/BT40 ❖         | 5063409   |
| 08     | 28     | 160    | 37.0    | 133     | M8     | Form "AD/B"                        | 1.75     | WSLH/08-160/BT40 ❖         | 5063412   |
| 10     | 35     | 160    | 41.0    | 133     | M10    | Form "AD/B"                        | 2.05     | WSLH/10-160/BT40 ❖         | 5063413   |
| 12     | 42     | 160    | 46.0    | 133     | M12    | Form "AD/B"                        | 2.30     | WSLH/12-160/BT40           | 5063414   |
| 14     | 44     | 160    | 46.0    | 133     | M12    | Form "AD/B"                        | 2.40     | WSLH/14-160/BT40           | 5063415   |
| 16     | 48     | 160    | 49.0    | 133     | M14    | Form "AD/B"                        | 2.70     | WSLH/16-160/BT40           | 5063416   |
| 18     | 50     | 160    | 49.0    | 133     | M14    | Form "AD/B"                        | 2.80     | WSLH/18-160/BT40           | 5063417   |
| 20     | 52     | 160    | 51.0    | 133     | M16    | Form "AD/B"                        | 2.90     | WSLH/20-160/BT40           | 5063418   |
| 25     | 65     | 160    | 59.0    | 133     | M18 x2 | Form "AD/B"                        | 4.00     | WSLH/25-160/BT40 **        | 5063419   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20

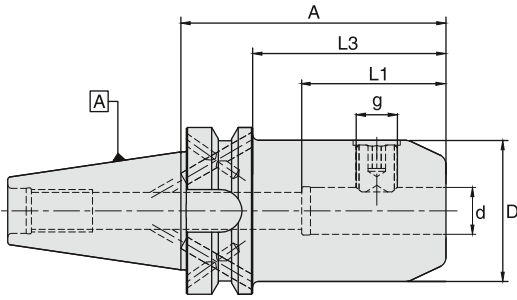
Pg.E2

\*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40 | • Bohrungstoleranz H4  
 \* Extra kurze Aufnahmen: • Die Spannschrauben sind im Mitnehmer  
 • Maximale Steifigkeit dank kurzer Auskraglänge | • Im Lieferumfang enthalten:  
 Spannschraube | • Höhere Wuchtgüte auf Anfrage | ❖ siehe Seite A9

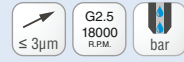
\*\* 2 locking screws for ID size = 25 / 32 / 40 | • Bore tolerance H4  
 \* Extra short holders:  
 • Locking screws are located in the same plane as drive slots.  
 • Gives maximum rigidity due to short projection  
 • Delivery includes: Locking screw | ❖ Refer page A9

Fräseraufnahmen (Weldon) - für Zylinderschäfte gemäß DIN 1835B  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835B

BT MAS 403  
 ISO7388-2



| BT50   |        |        |         |         |        |                                    |          |                            |           |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06     | 25     | 63     | 37      | 25      | M6     | Form "AD/B"                        | 3.70     | WSLH/06-63/BT50            | 5063475   |
| 08     | 28     | 63     | 37      | 25      | M8     | Form "AD/B"                        | 3.70     | WSLH/08-63/BT50            | 5063476   |
| 10     | 35     | 63     | 41      | 25      | M10    | Form "AD/B"                        | 3.80     | WSLH/10-63/BT50            | 5063477   |
| 12     | 42     | 80     | 46      | 42      | M12    | Form "AD/B"                        | 4.00     | WSLH/12-80/BT50            | 5063478   |
| 14     | 44     | 80     | 46      | 42      | M12    | Form "AD/B"                        | 4.00     | WSLH/14-80/BT50            | 5063486   |
| 16     | 48     | 80     | 49      | 42      | M14    | Form "AD/B"                        | 4.05     | WSLH/16-80/BT50            | 5063487   |
| 18     | 50     | 80     | 49      | 42      | M14    | Form "AD/B"                        | 4.10     | WSLH/18-80/BT50            | 5063489   |
| 20     | 52     | 80     | 51      | 42      | M16    | Form "AD/B"                        | 4.15     | WSLH/20-80/BT50            | 5063491   |
| 25     | 65     | 100    | 59      | 62      | M18 x2 | Form "AD/B"                        | 4.80     | WSLH/25-100/BT50 **        | 5063492   |
| 32     | 72     | 105    | 63      | 67      | M20 x2 | Form "AD/B"                        | 5.15     | WSLH/32-105/BT50 **        | 5063493   |
| 40     | 80     | 110    | 73      | 72      | M20 x2 | Form "AD/B"                        | 5.50     | WSLH/40-110/BT50 **        | 5063494   |
| 06     | 25     | 100    | 37      | 62      | M6     | Form "AD/B"                        | 3.80     | WSLH/06-100/BT50           | 5063549   |
| 08     | 28     | 100    | 37      | 62      | M8     | Form "AD/B"                        | 3.85     | WSLH/08-100/BT50           | 5063550   |
| 10     | 35     | 100    | 41      | 62      | M10    | Form "AD/B"                        | 3.95     | WSLH/10-100/BT50           | 5063551   |
| 12     | 42     | 100    | 46      | 62      | M12    | Form "AD/B"                        | 4.15     | WSLH/12-100/BT50           | 5063552   |
| 14     | 44     | 100    | 46      | 62      | M12    | Form "AD/B"                        | 4.25     | WSLH/14-100/BT50           | 5063553   |
| 16     | 48     | 100    | 49      | 62      | M14    | Form "AD/B"                        | 4.35     | WSLH/16-100/BT50           | 5063554   |
| 18     | 50     | 100    | 49      | 62      | M14    | Form "AD/B"                        | 4.40     | WSLH/18-100/BT50           | 5063555   |
| 20     | 52     | 100    | 51      | 62      | M16    | Form "AD/B"                        | 4.40     | WSLH/20-100/BT50           | 5063556   |
| 06     | 25     | 160    | 37      | 122     | M6     | Form "AD/B"                        | 4.10     | WSLH/06-160/BT50 ❖         | 5063560   |
| 08     | 28     | 160    | 37      | 122     | M8     | Form "AD/B"                        | 4.25     | WSLH/08-160/BT50 ❖         | 5063561   |
| 10     | 35     | 160    | 41      | 122     | M10    | Form "AD/B"                        | 4.60     | WSLH/10-160/BT50 ❖         | 5063562   |
| 12     | 42     | 160    | 46      | 122     | M12    | Form "AD/B"                        | 4.80     | WSLH/12-160/BT50           | 5063565   |
| 14     | 44     | 160    | 46      | 122     | M12    | Form "AD/B"                        | 4.90     | WSLH/14-160/BT50           | 5063566   |
| 16     | 48     | 160    | 49      | 122     | M14    | Form "AD/B"                        | 5.15     | WSLH/16-160/BT50           | 5063567   |
| 18     | 50     | 160    | 49      | 122     | M14    | Form "AD/B"                        | 5.25     | WSLH/18-160/BT50           | 5063568   |
| 20     | 52     | 160    | 51      | 122     | M16    | Form "AD/B"                        | 5.40     | WSLH/20-160/BT50           | 5063569   |
| 25     | 65     | 160    | 59      | 122     | M18 x2 | Form "AD/B"                        | 6.25     | WSLH/25-160/BT50 **        | 5063570   |
| 32     | 72     | 160    | 63      | 122     | M20 x2 | Form "AD/B"                        | 6.80     | WSLH/32-160/BT50 **        | 5063571   |



SK DIN 69871  
 ISO7388-1

HSK DIN 69893

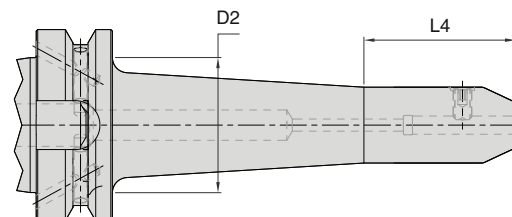
Zubehör  
 Accessories

Ersatzteile und Zubehör / Spare Parts & Accessories:



- \*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40
- Bohrungstoleranz H4
- Im Lieferumfang enthalten: Spannschraube
- Höhere Wuchtgüte auf Anfrage
- ❖ Für WSLH/06-160/BT40, D2=44.6mm & L4=50mm
- Für WSLH/08-160/BT40, D2=47.6mm & L4=50mm
- Für WSLH/10-160/BT40, D2=53.3mm & L4=60mm
- Für WSLH/06-160/BT50, D2=39.5mm & L4=50mm
- Für WSLH/08-160/BT50, D2=42.4mm & L4=50mm
- Für WSLH/10-160/BT50, D2=49.4mm & L4=50mm

- \*\* 2 locking screws for ID size = 25 / 32 / 40
- Bore tolerance H4
- Delivery includes: Locking screw
- Higher balancing grade on request
- ❖ For WSLH/06-160/BT40, D2=44.6mm & L4=50mm
- For WSLH/08-160/BT40, D2=47.6mm & L4=50mm
- For WSLH/10-160/BT40, D2=53.3mm & L4=60mm
- For WSLH/06-160/BT50, D2=39.5mm & L4=50mm
- For WSLH/08-160/BT50, D2=42.4mm & L4=50mm
- For WSLH/10-160/BT50, D2=49.4mm & L4=50mm



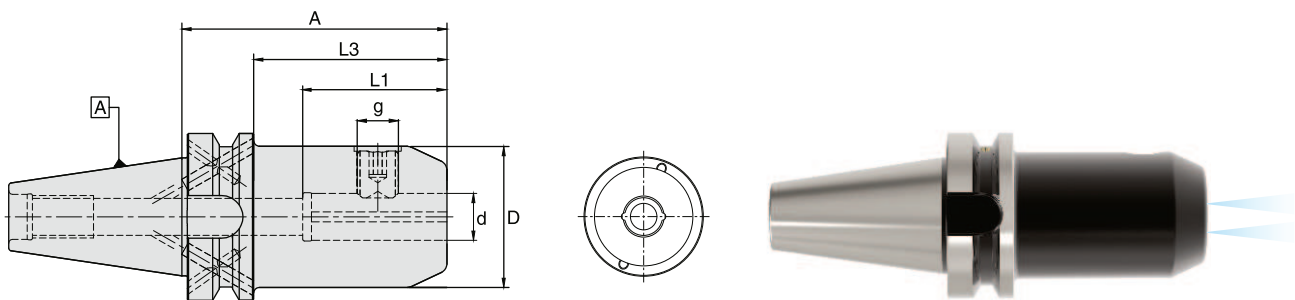
Ersatzteile  
 Spare Parts

Technische Spezifikationen  
 Technical Details



# Fräseraufnahmen DIN 6359 mit Kühlkanal (für Zylinderschäfte gemäß DIN 1835 B)

End mill holder to DIN 6359 with coolant channel (For cylindrical shanks according to DIN 1835B)



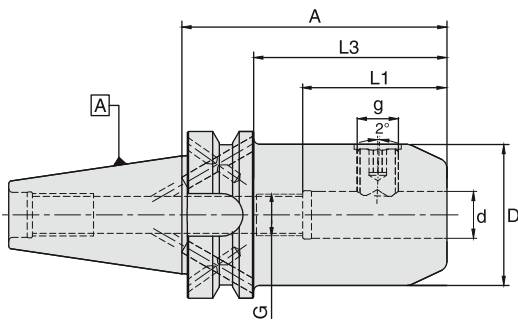
| BT40   |        |        |         |         |        |                                    |          |                            |           |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 48     | 35     | 49      | 8       | M14    | Form "AD"                          | 1.05     | WSLH-K/16-35/BT40*         | 5063572   |
| 20     | 52     | 35     | 51      | 8       | M16    | Form "AD"                          | 1.10     | WSLH-K/20-35/BT40*         | 5063573   |
| 25     | 45     | 35     | 59      | 8       | M16    | Form "AD"                          | 1.00     | WSLH-K/25-35/BT40*         | 5063574   |
| 32     | 63     | 65     | 63      | 38      | M20 x2 | Form "AD"                          | 1.50     | WSLH-K/32-65/BT40*         | 5063575   |
| 06     | 25     | 50     | 37      | 23      | M6     | Form "AD/B"                        | 1.02     | WSLH-K/06-50/BT40          | 5063576   |
| 08     | 28     | 50     | 37      | 23      | M8     | Form "AD/B"                        | 1.10     | WSLH-K/08-50/BT40          | 5063577   |
| 10     | 35     | 63     | 41      | 36      | M10    | Form "AD/B"                        | 1.25     | WSLH-K/10-63/BT40          | 5063578   |
| 12     | 42     | 63     | 46      | 36      | M12    | Form "AD/B"                        | 1.30     | WSLH-K/12-63/BT40          | 5063579   |
| 14     | 44     | 63     | 46      | 36      | M12    | Form "AD/B"                        | 1.30     | WSLH-K/14-63/BT40          | 5063580   |
| 16     | 48     | 63     | 49      | 36      | M14    | Form "AD/B"                        | 1.40     | WSLH-K/16-63/BT40          | 5063581   |
| 18     | 50     | 63     | 49      | 36      | M14    | Form "AD/B"                        | 1.40     | WSLH-K/18-63/BT40          | 5063582   |
| 20     | 52     | 63     | 51      | 36      | M16    | Form "AD/B"                        | 1.50     | WSLH-K/20-63/BT40          | 5063583   |
| 25     | 65     | 90     | 59      | 63      | M18 x2 | Form "AD/B"                        | 2.20     | WSLH-K/25-90/BT40 **       | 5063666   |
| 32     | 72     | 100    | 63      | 73      | M20 x2 | Form "AD/B"                        | 2.70     | WSLH-K/32-100/BT40 **      | 5063667   |
| 40     | 80     | 120    | 73      | 93      | M20 x2 | Form "AD/B"                        | 3.55     | WSLH-K/40-120/BT40 **      | 5063668   |

| BT50   |        |        |         |         |        |                                    |          |                            |           |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06     | 25     | 63     | 37      | 25      | M6     | Form "AD/B"                        | 3.70     | WSLH-K/06-63/BT50          | 5063686   |
| 08     | 28     | 63     | 37      | 25      | M8     | Form "AD/B"                        | 3.70     | WSLH-K/08-63/BT50          | 5063687   |
| 10     | 35     | 63     | 41      | 25      | M10    | Form "AD/B"                        | 3.80     | WSLH-K/10-63/BT50          | 5063688   |
| 12     | 42     | 80     | 46      | 42      | M12    | Form "AD/B"                        | 4.00     | WSLH-K/12-80/BT50          | 5063689   |
| 14     | 44     | 80     | 46      | 42      | M12    | Form "AD/B"                        | 4.00     | WSLH-K/14-80/BT50          | 5063690   |
| 16     | 48     | 80     | 49      | 42      | M14    | Form "AD/B"                        | 4.05     | WSLH-K/16-80/BT50          | 5063691   |
| 18     | 50     | 80     | 49      | 42      | M14    | Form "AD/B"                        | 4.10     | WSLH-K/18-80/BT50          | 5063692   |
| 20     | 52     | 80     | 51      | 42      | M16    | Form "AD/B"                        | 4.15     | WSLH-K/20-80/BT50          | 5063693   |
| 25     | 65     | 100    | 59      | 62      | M18 x2 | Form "AD/B"                        | 4.80     | WSLH-K/25-100/BT50 **      | 5063694   |
| 32     | 72     | 105    | 63      | 67      | M20 x2 | Form "AD/B"                        | 5.15     | WSLH-K/32-105/BT50 **      | 5063695   |
| 40     | 80     | 110    | 73      | 72      | M20 x2 | Form "AD/B"                        | 5.50     | WSLH-K/40-110/BT50 **      | 5063696   |

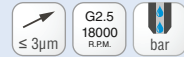
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20 Pg.E2

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Bohrungstoleranz H4</li> <li>• Mit 2 Kühlkanälen entlang der Aufnahmebohrung versehen</li> <li>** 2 Spannschrauben für ID Größe = 25 / 32 / 40</li> <li>* Extra kurze Aufnahmen:</li> <li>• Die Spannschrauben sind im Mitnehmer</li> <li>• Maximale Steifigkeit dank kurzer Auskraglänge</li> <li>• Im Lieferumfang enthalten: Spannschraube</li> <li>• Höhere Wuchtgüte auf Anfrage</li> </ul> | <ul style="list-style-type: none"> <li>• Bore tolerance H4</li> <li>• With two coolant channels along the side of the bore</li> <li>** 2 locking screws for ID size = 25 / 32 / 40</li> <li>* Extra short holders:</li> <li>• Locking screws are located in the same plane as drive slots</li> <li>• Gives maximum rigidity due to short projection.</li> <li>• Delivery includes: Locking screw</li> <li>• Higher balancing grade on request</li> </ul> |
|---|--|

Fräseraufnahmen DIN 6359 Whistle Notch (für Zylinderschäfte gemäß DIN 1835 E)  
 End mill holder to DIN 6359 Whistle Notch (For cylindrical shanks according to DIN 1835 E)



BT40



| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G   | g      | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-----|--------|-------------------------------------|----------|----------------------------|-----------|
| 06     | 25     | 50     | 36.5    | 23      | M5  | M6     | Form "AD/B"                         | 1.20     | WSLH-E/06-50/BT40          | 5063751   |
| 08     | 28     | 50     | 36.5    | 23      | M6  | M8     | Form "AD/B"                         | 1.20     | WSLH-E/08-50/BT40          | 5063752   |
| 10     | 35     | 63     | 40.5    | 36      | M8  | M10    | Form "AD/B"                         | 1.35     | WSLH-E/10-63/BT40          | 5063753   |
| 12     | 42     | 63     | 45.5    | 36      | M10 | M12    | Form "AD/B"                         | 1.45     | WSLH-E/12-63/BT40          | 5063754   |
| 14     | 44     | 63     | 45.5    | 36      | M10 | M12    | Form "AD/B"                         | 1.45     | WSLH-E/14-63/BT40          | 5063757   |
| 16     | 48     | 63     | 48.5    | 36      | M12 | M14    | Form "AD/B"                         | 1.50     | WSLH-E/16-63/BT40          | 5063758   |
| 18     | 50     | 63     | 48.5    | 36      | M12 | M14    | Form "AD/B"                         | 1.60     | WSLH-E/18-63/BT40          | 5063759   |
| 20     | 52     | 63     | 50.5    | 36      | M16 | M16    | Form "AD/B"                         | 1.60     | WSLH-E/20-63/BT40          | 5063760   |
| 25     | 65     | 90     | 56.5    | 63      | M20 | M18 x2 | Form "AD/B"                         | 2.25     | WSLH-E/25-90/BT40 **       | 5063761   |
| 32     | 72     | 100    | 60.5    | 73      | M20 | M20 x2 | Form "AD/B"                         | 2.75     | WSLH-E/32-100/BT40 **      | 5063762   |
| 40     | 80     | 120    | 70.5    | 93      | M20 | M20 x2 | Form "AD/B"                         | 3.70     | WSLH-E/40-120/BT40 **      | 5063763   |

BT50



| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G   | g      | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-----|--------|-------------------------------------|----------|----------------------------|-----------|
| 06     | 25     | 63     | 36.5    | 25      | M5  | M6     | Form "AD/B"                         | 3.80     | WSLH-E/06-63/BT50          | 4601432   |
| 08     | 28     | 63     | 36.5    | 25      | M6  | M8     | Form "AD/B"                         | 3.80     | WSLH-E/08-63/BT50          | 4601433   |
| 10     | 35     | 63     | 40.5    | 25      | M8  | M10    | Form "AD/B"                         | 3.85     | WSLH-E/10-63/BT50          | 4601434   |
| 12     | 42     | 80     | 45.5    | 42      | M10 | M12    | Form "AD/B"                         | 4.05     | WSLH-E/12-80/BT50          | 4601435   |
| 14     | 44     | 80     | 45.5    | 42      | M10 | M12    | Form "AD/B"                         | 4.10     | WSLH-E/14-80/BT50          | 4601436   |
| 16     | 48     | 80     | 48.5    | 42      | M12 | M14    | Form "AD/B"                         | 4.10     | WSLH-E/16-80/BT50          | 4601437   |
| 18     | 50     | 80     | 48.5    | 42      | M12 | M14    | Form "AD/B"                         | 4.20     | WSLH-E/18-80/BT50          | 4601438   |
| 20     | 52     | 80     | 50.5    | 42      | M16 | M16    | Form "AD/B"                         | 4.25     | WSLH-E/20-80/BT50          | 4601439   |
| 25     | 65     | 100    | 56.5    | 62      | M20 | M18 x2 | Form "AD/B"                         | 5.00     | WSLH-E/25-100/BT50 **      | 4601440   |
| 32     | 72     | 105    | 60.5    | 67      | M20 | M20 x2 | Form "AD/B"                         | 5.30     | WSLH-E/32-105/BT50 **      | 4601441   |
| 40     | 80     | 115    | 70.5    | 77      | M20 | M20 x2 | Form "AD/B"                         | 5.90     | WSLH-E/40-115/BT50 **      | 5064367   |

Ersatzteile und Zubehör / Spare Parts & Accessories:

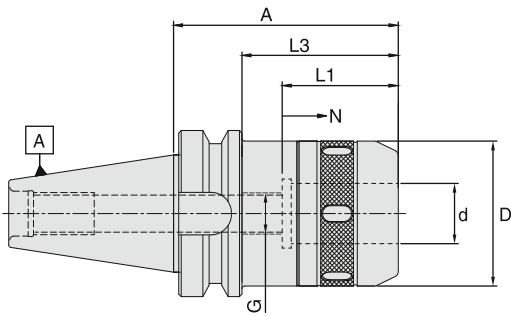


- Bohrungstoleranz H4
- \*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40
- Stirnseitige Nut als Erkennungsmerkmal (im Unterschied zu Weldon)
- Im Lieferumfang enthalten: Spannschraube und Verstellerschraube
- Höhere Wuchtgüte auf Anfrage

- Bore tolerance H4
- \*\* 2 locking screws for ID size = 25 / 32 / 40
- Groove on face for easy identification (to distinguish from Weldon)
- Delivery includes: Locking screw & adjusting screw
- Higher balancing grade on request

# Hochleistungsfräserspannfutter

## Hi-Power Milling Chuck



| BT30   |        |        |         |         |       |    |                                    |          |                            | ≤ 3µm     | G2.5<br>10000<br>R.P.M. | bar |
|--------|--------|--------|---------|---------|-------|----|------------------------------------|----------|----------------------------|-----------|-------------------------|-----|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |                         |     |
| 20     | 52     | 90     | 60      | 68      | M12x1 | 15 | Form "AD"                          | 1.45     | WHPMC/20-90/BT30           | 5066331   |                         |     |
| 25     | 58     | 90     | 70      | 68      | M12x1 | 15 | Form "AD"                          | 1.55     | WHPMC/25-90/BT30           | 5066332   |                         |     |
| 32     | 66     | 105    | 75      | 83      | M12x1 | 15 | Form "AD"                          | 1.85     | WHPMC/32-105/BT30          | 5066333   |                         |     |

| BT40   |        |        |         |         |       |    |                                    |          |                            | ≤ 3µm     | G2.5<br>10000<br>R.P.M. | bar |
|--------|--------|--------|---------|---------|-------|----|------------------------------------|----------|----------------------------|-----------|-------------------------|-----|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |                         |     |
| 20     | 52     | 90     | 60      | 63      | M12x1 | 15 | Form "AD"                          | 2.35     | WHPMC/20-90/BT40           | 5061428   |                         |     |
| 25     | 58     | 90     | 70      | 63      | M16x1 | 15 | Form "AD"                          | 2.10     | WHPMC/25-90/BT40           | 5065112   |                         |     |
| 32     | 66     | 105    | 75      | 78      | M16x1 | 15 | Form "AD"                          | 2.60     | WHPMC/32-105/BT40          | 5061429   |                         |     |

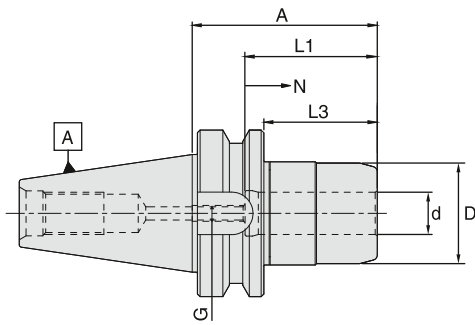
| BT50   |        |        |         |         |       |    |                                    |          |                            | ≤ 3µm     | G2.5<br>10000<br>R.P.M. | bar |
|--------|--------|--------|---------|---------|-------|----|------------------------------------|----------|----------------------------|-----------|-------------------------|-----|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |                         |     |
| 20     | 52     | 90     | 60      | 52      | M12x1 | 15 | Form "AD"                          | 5.55     | WHPMC/20-90/BT50           | 5061430   |                         |     |
| 25     | 58     | 90     | 60      | 52      | M16x1 | 15 | Form "AD"                          | 4.55     | WHPMC/25-90/BT50           | 5065113   |                         |     |
| 32     | 66     | 105    | 75      | 67      | M16x1 | 15 | Form "AD"                          | 4.90     | WHPMC/32-105/BT50          | 5061431   |                         |     |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D12 Pg.D12 Pg.D20

Technische Details siehe Seite F4-F5 / For technical details please refer the instruction manual provided in the packing box or refer page F4-F5

# Schlanke Hochleistungsfräserspannfutter

## Slim Hi-Power Milling Chuck



| BT30   |        |        |         |         |      |    |                                     |          |                            |           |
|--------|--------|--------|---------|---------|------|----|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G    | N  | Kühlmittelezufuhr<br>Coolant Supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 6      | 25     | 100    | 36      | 78      | M5   | 8  | Form "AD"                           | 0,90     | WHPMC/S06-100/BT30         | 5105329   |
| 8      | 25     | 100    | 36      | 78      | M6   | 8  | Form "AD"                           | 0,90     | WHPMC/S08-100/BT30         | 5105331   |
| 10     | 30     | 100    | 42      | 78      | M8x1 | 8  | Form "AD"                           | 0,90     | WHPMC/S10-100/BT30         | 5105332   |
| 12     | 30     | 70     | 45      | 48      | M8   | 8  | Form "AD"                           | 0,85     | WHPMC/S12-70/BT30          | 5097447   |
| 12     | 30     | 120    | 45      | 98      | M8   | 8  | Form "AD"                           | 1,20     | WHPMC/S12-120/BT30         | 5097450   |
| 16     | 38     | 70     | 50      | 48      | M8   | 10 | Form "AD"                           | 0,80     | WHPMC/S16-70/BT30          | 5097451   |
| 16     | 38     | 120    | 50      | 98      | M8   | 10 | Form "AD"                           | 1,20     | WHPMC/S16-120/BT30         | 5097452   |

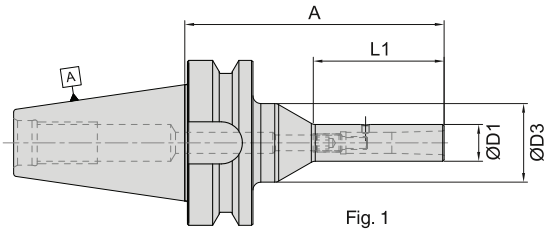
| BT40   |        |        |         |         |       |    |                                     |          |                            |           |
|--------|--------|--------|---------|---------|-------|----|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelezufuhr<br>Coolant Supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 6      | 25     | 100    | 36      | 73      | M5    | 8  | Form "AD"                           | 1,70     | WHPMC/S06-100/BT40         | 5105333   |
| 8      | 25     | 100    | 36      | 73      | M6    | 8  | Form "AD"                           | 1,70     | WHPMC/S08-100/BT40         | 5105334   |
| 10     | 30     | 100    | 42      | 73      | M8x1  | 8  | Form "AD"                           | 1,70     | WHPMC/S10-100/BT40         | 5105335   |
| 12     | 30     | 70     | 45      | 43      | M8    | 8  | Form "AD"                           | 1,55     | WHPMC/S12-70/BT40          | 5097453   |
| 12     | 30     | 120    | 45      | 93      | M8    | 8  | Form "AD"                           | 1,85     | WHPMC/S12-120/BT40         | 5097454   |
| 16     | 38     | 70     | 50      | 43      | M8    | 10 | Form "AD"                           | 1,45     | WHPMC/S16-70/BT40          | 5097455   |
| 16     | 38     | 120    | 50      | 93      | M8    | 10 | Form "AD"                           | 2,20     | WHPMC/S16-120/BT40         | 5097456   |
| 20     | 44     | 90     | 55      | 63      | M12x1 | 10 | Form "AD"                           | 2,10     | WHPMC/S20-90/BT40          | 5097459   |
| 20     | 44     | 150    | 55      | 123     | M12x1 | 10 | Form "AD"                           | 2,90     | WHPMC/S20-150/BT40         | 5097460   |

| BT50   |        |        |         |         |       |    |                                     |          |                            |           |
|--------|--------|--------|---------|---------|-------|----|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelezufuhr<br>Coolant Supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 12     | 30     | 90     | 45      | 52      | M8    | 8  | Form "AD"                           | 4,95     | WHPMC/S12-90/BT50          | 5097461   |
| 12     | 30     | 120    | 45      | 82      | M8    | 8  | Form "AD"                           | 5,15     | WHPMC/S12-120/BT50         | 5097463   |
| 16     | 38     | 90     | 50      | 52      | M8    | 10 | Form "AD"                           | 5,20     | WHPMC/S16-90/BT50          | 5097465   |
| 16     | 38     | 120    | 50      | 82      | M8    | 10 | Form "AD"                           | 5,35     | WHPMC/S16-120/BT50         | 5097468   |
| 20     | 44     | 100    | 55      | 62      | -     | 10 | Form "AD"                           | 5,45     | WHPMC/S20-100/BT50         | 5097471   |
| 20     | 44     | 150    | 55      | 112     | M12x1 | 10 | Form "AD"                           | 6,00     | WHPMC/S20-150/BT50         | 5097473   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D13 Pg.D13 Pg.D20

Technische Details siehe Seite F4-F5 / For technical details please refer the instruction manual provided in the packing box or refer page F4-F5

Micro-Spannzangenhalter  
Micro collet holder



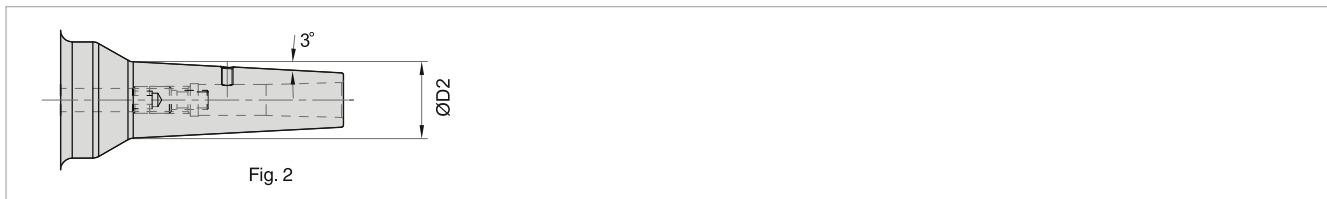
| BT30                      |                  |           |            |            |            |            |                                    |      |             |                            |           |
|---------------------------|------------------|-----------|------------|------------|------------|------------|------------------------------------|------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | A<br>(mm) | L1<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | Fig. | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| MC10                      | 3-4              | 90        | 45         | 10         | -          | 22         | Form "AD"                          | 1    | 0,45        | WMCH/D10-90/FBT30          | 5153133   |
| MC14                      | 3-6              | 90        | 40         | 14         | -          | 30         | Form "AD"                          | 1    | 0,55        | WMCH/D14-90/FBT30          | 5153134   |
| MC14                      | 3-6              | 120       | 70         | 14         | 21.3       | 30         | Form "AD"                          | 2    | 0,65        | WMCH/D14-120/FBT30         | 5153135   |



| BT40                      |                  |           |            |            |            |            |                                    |      |             |                            |           |
|---------------------------|------------------|-----------|------------|------------|------------|------------|------------------------------------|------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | A<br>(mm) | L1<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | Fig. | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| MC14                      | 3-6              | 90        | 40         | 14         | -          | 30         | Form "AD"                          | 1    | 0,55        | WMCH/D14-90/FBT40          | 5153136   |
| MC14                      | 3-6              | 120       | 70         | 14         | 21.3       | 30         | Form "AD"                          | 2    | 1,20        | WMCH/D14-120/FBT40         | 5153138   |



Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20 Pg.D16 Pg.D16 Pg.D16

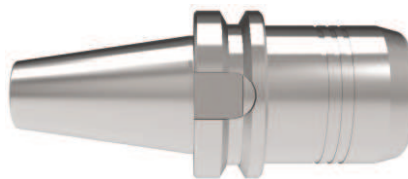
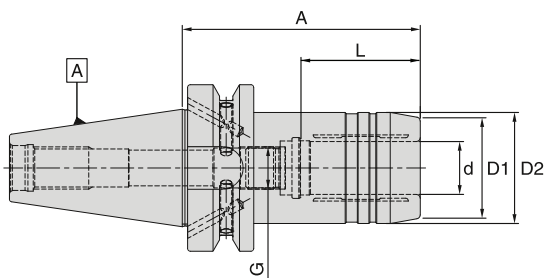


Für Technische Details siehe Seite F8 / For technical details please refer page F8 and also the instruction manual provided in the packing box.

Note: Micro collet holders are offered as FBT-face contact holders which also can be used as BT taper.



Hydrodehnspannfutter (kurze & verstärkt)  
 Hydraulic expansion chuck (short & rigid)



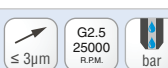
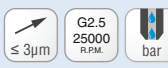
| BT30   |    |         |         |    |        |          |                                    |                            |           |
|--------|----|---------|---------|----|--------|----------|------------------------------------|----------------------------|-----------|
| d (mm) | A  | D1 (mm) | D2 (mm) | L  | G      | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 12     | 69 | 32      | 42      | 41 | M8X1.0 | 0.80     | Form "AD"                          | WHEC-P/12-69/BT30          | 5159314   |
| 20     | 90 | 38      | 42      | 48 | M8X1.0 | 0.90     | Form "AD"                          | WHEC-P/20-90/BT30          | 5159315   |

| BT40   |      |         |         |    |        |          |                                    |                            |           |
|--------|------|---------|---------|----|--------|----------|------------------------------------|----------------------------|-----------|
| d (mm) | A    | D1 (mm) | D2 (mm) | L  | G      | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 12     | 58.0 | 32      | 42.0    | 41 | M8X1.0 | 1.10     | Form "AD/B"                        | WHEC-P/12-58/BT40          | 5159316   |
| 20     | 72.5 | 38      | 49.25   | 48 | M8X1.0 | 1.40     | Form "AD/B"                        | WHEC-P/20-72.5/BT40        | 5159317   |

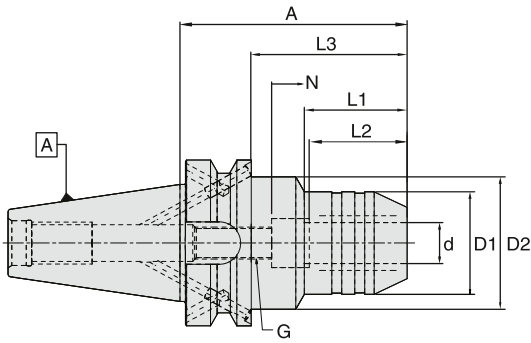
| BT50   |      |         |         |    |        |          |                                    |                            |           |
|--------|------|---------|---------|----|--------|----------|------------------------------------|----------------------------|-----------|
| d (mm) | A    | D1 (mm) | D2 (mm) | L  | G      | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 20     | 83.5 | 38.0    | 49.25   | 48 | M8X1.0 | 3.90     | Form "AD/B"                        | WHEC-P/20-83.5/BT50        | 5159318   |
| 32     | 90.0 | 58.5    | 72.0    | 57 | M8X1.0 | 4.60     | Form "AD/B"                        | WHEC-P/32-90/BT50          | 5159319   |



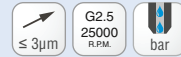
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D14 Pg.D20

# Hydrodehnspannfutter

## Hydraulic expansion chuck



| BT30   |    |         |         |      |    |    |         |    |          |                                     |                            |           |
|--------|----|---------|---------|------|----|----|---------|----|----------|-------------------------------------|----------------------------|-----------|
| d (mm) | A  | D1 (mm) | D2 (mm) | L1   | L2 | L3 | G       | N  | N/W (Kg) | Kühlmittelezufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 06     | 70 | 26      | 44.5    | 29.5 | 27 | 48 | M5X0.8  | 10 | 0.65     | Form "AD"                           | WHEC/06-70/BT30            | 5066322   |
| 08     | 70 | 28      | 44.5    | 30.0 | 27 | 48 | M6X1.0  | 10 | 0.65     | Form "AD"                           | WHEC/08-70/BT30            | 5066324   |
| 10     | 75 | 30      | 44.5    | 31.0 | 32 | 53 | M8X1.0  | 10 | 0.73     | Form "AD"                           | WHEC/10-75/BT30            | 5066325   |
| 12     | 85 | 32      | 45.0    | 45.0 | 37 | 63 | M10X1.0 | 10 | 0.80     | Form "AD"                           | WHEC/12-85/BT30            | 5066326   |
| 14     | 85 | 34      | 45.0    | 45.0 | 37 | 63 | M10X1.0 | 10 | 0.80     | Form "AD"                           | WHEC/14-85/BT30            | 5066327   |
| 16     | 90 | 38      | 45.0    | 50.0 | 42 | 68 | M12X1.0 | 10 | 0.90     | Form "AD"                           | WHEC/16-90/BT30            | 5066328   |
| 20     | 90 | 42      | 45.0    | 50.0 | 42 | 68 | M16X1.0 | 10 | 0.90     | Form "AD"                           | WHEC/20-90/BT30            | 5066329   |



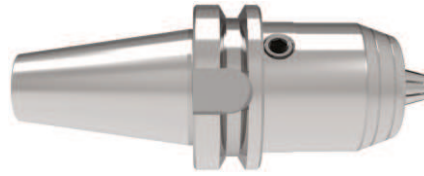
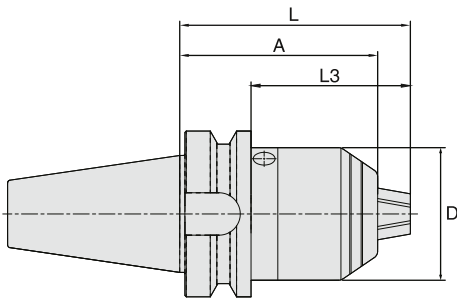
| BT40   |     |         |         |      |    |    |         |    |          |                                     |                            |           |
|--------|-----|---------|---------|------|----|----|---------|----|----------|-------------------------------------|----------------------------|-----------|
| d (mm) | A   | D1 (mm) | D2 (mm) | L1   | L2 | L3 | G       | N  | N/W (Kg) | Kühlmittelezufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 06     | 90  | 26      | 44.5    | 43.0 | 27 | 63 | M5X0.8  | 10 | 1.30     | Form "AD/B"                         | WHEC/06-90/BT40            | 5062989   |
| 08     | 90  | 28      | 44.5    | 44.5 | 27 | 63 | M6X1.0  | 10 | 1.30     | Form "AD/B"                         | WHEC/08-90/BT40            | 5062991   |
| 10     | 90  | 30      | 44.5    | 44.5 | 32 | 63 | M8X1.0  | 10 | 1.35     | Form "AD/B"                         | WHEC/10-90/BT40            | 5062992   |
| 12     | 90  | 32      | 44.5    | 44.5 | 37 | 63 | M10X1.0 | 10 | 1.35     | Form "AD/B"                         | WHEC/12-90/BT40            | 5062994   |
| 14     | 90  | 34      | 44.5    | 44.5 | 37 | 63 | M10X1.0 | 10 | 1.35     | Form "AD/B"                         | WHEC/14-90/BT40            | 5062995   |
| 16     | 90  | 38      | 44.5    | 47.5 | 42 | 63 | M12X1.0 | 10 | 1.40     | Form "AD/B"                         | WHEC/16-90/BT40            | 5062996   |
| 18     | 90  | 40      | 44.5    | 47.5 | 42 | 63 | M12X1.0 | 10 | 1.45     | Form "AD/B"                         | WHEC/18-90/BT40            | 5062997   |
| 20     | 90  | 42      | 44.5    | 47.5 | 42 | 63 | M16X1.0 | 10 | 1.50     | Form "AD/B"                         | WHEC/20-90/BT40            | 5062998   |
| 25     | 100 | 50      | 60.0    | 47.5 | 48 | 73 | M16X1.0 | 10 | 1.70     | Form "AD/B"                         | WHEC/25-100/BT40           | 5062999   |
| 32     | 105 | 60      |         |      | 55 | 78 | M16X1.0 | 10 | 2.10     | Form "AD/B"                         | WHEC/32-105/BT40           | 5063000   |



| BT50   |     |         |         |      |    |    |         |    |          |                                     |                            |           |
|--------|-----|---------|---------|------|----|----|---------|----|----------|-------------------------------------|----------------------------|-----------|
| d (mm) | A   | D1 (mm) | D2 (mm) | L1   | L2 | L3 | G       | N  | N/W (Kg) | Kühlmittelezufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 06     | 90  | 26      | 44.5    | 34.0 | 27 | 52 | M5X0.8  | 10 | 3.75     | Form "AD/B"                         | WHEC/06-90/BT50            | 5063003   |
| 08     | 90  | 28      | 44.5    | 34.0 | 27 | 52 | M6X1.0  | 10 | 3.75     | Form "AD/B"                         | WHEC/08-90/BT50            | 5063016   |
| 10     | 90  | 30      | 44.5    | 34.0 | 32 | 52 | M8X1.0  | 10 | 3.90     | Form "AD/B"                         | WHEC/10-90/BT50            | 5063017   |
| 12     | 90  | 32      | 44.5    | 34.0 | 37 | 52 | M10X1.0 | 10 | 3.90     | Form "AD/B"                         | WHEC/12-90/BT50            | 5063018   |
| 14     | 90  | 34      | 44.5    | 34.0 | 37 | 52 | M10X1.0 | 10 | 3.90     | Form "AD/B"                         | WHEC/14-90/BT50            | 5063019   |
| 16     | 90  | 38      | 44.5    | 34.0 | 42 | 52 | M12X1.0 | 10 | 4.00     | Form "AD/B"                         | WHEC/16-90/BT50            | 5063020   |
| 18     | 90  | 40      | 44.5    | 34.0 | 42 | 52 | M12X1.0 | 10 | 4.00     | Form "AD/B"                         | WHEC/18-90/BT50            | 5063022   |
| 20     | 90  | 42      | 44.5    | 34.0 | 42 | 52 | M16X1.0 | 10 | 4.00     | Form "AD/B"                         | WHEC/20-90/BT50            | 5063023   |
| 25     | 105 | 57      | 63.0    | 52.0 | 48 | 67 | M16X1.0 | 10 | 4.40     | Form "AD/B"                         | WHEC/25-105/BT50           | 5063024   |
| 32     | 115 | 64      | 75.0    | 62.0 | 55 | 77 | M16X1.0 | 10 | 4.70     | Form "AD/B"                         | WHEC/32-115/BT50           | 5063025   |



Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D14 Pg.D20

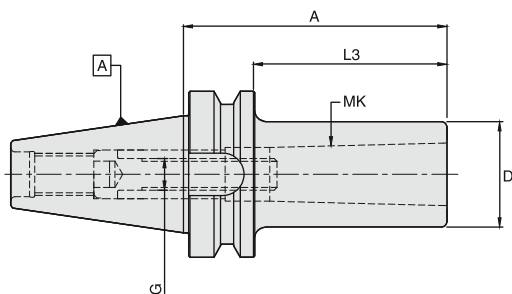


| BT40   |        |        |         |               |                                  |          |                         |           |
|--------|--------|--------|---------|---------------|----------------------------------|----------|-------------------------|-----------|
| D (mm) | A (mm) | L (mm) | L3 (mm) | Bereich Range | Kühlmittelezufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 50     | 88     | 100    | 73      | 1-16          | Form "A/AD"                      | 1.80     | WNDC/1-16-88/BT40       | 5064948   |

| BT50   |        |        |         |               |                                  |          |                         |           |
|--------|--------|--------|---------|---------------|----------------------------------|----------|-------------------------|-----------|
| D (mm) | A (mm) | L (mm) | L3 (mm) | Bereich Range | Kühlmittelezufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 50     | 99     | 111    | 73      | 1-16          | Form "A/AD"                      | 3.90     | WNDC/1-16-99/BT50       | 5064951   |

Zwischenhülsen für Morse-Kegel mit Anzugsgewinde DIN 6364 / 228A  
Adaptor sleeves for Morse taper with thread DIN 6364 / 228A



| BT40 |        |        |         |     |                                  |          |                         |           |
|------|--------|--------|---------|-----|----------------------------------|----------|-------------------------|-----------|
| MK   | D (mm) | A (mm) | L3 (mm) | G   | Kühlmittelezufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 1    | 25     | 50     | 25      | M6  | -                                | 1.10     | WMTB/MT1-50/BT40        | 5064368   |
| 2    | 32     | 50     | 32      | M10 | -                                | 1.20     | WMTB/MT2-50/BT40        | 5064369   |
| 3    | 40     | 70     | 40      | M12 | -                                | 1.30     | WMTB/MT3-70/BT40        | 5064370   |
| 4    | 48     | 95     | 48      | M16 | -                                | 1.50     | WMTB/MT4-95/BT40        | 5064371   |

| BT50 |        |        |         |     |                                  |          |                         |           |
|------|--------|--------|---------|-----|----------------------------------|----------|-------------------------|-----------|
| MK   | D (mm) | A (mm) | L3 (mm) | G   | Kühlmittelezufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 1    | 25     | 45     | 25      | M6  | -                                | 3.80     | WMTB/MT1-45/BT50        | 5064374   |
| 2    | 32     | 60     | 32      | M10 | -                                | 3.90     | WMTB/MT2-60/BT50        | 5064375   |
| 3    | 40     | 65     | 40      | M12 | -                                | 3.90     | WMTB/MT3-65/BT50        | 5064376   |
| 4    | 48     | 85     | 48      | M16 | -                                | 4.00     | WMTB/MT4-85/BT50        | 5064377   |
| 5    | 63     | 118    | 63      | M20 | -                                | 4.20     | WMTB/MT5-118/BT50       | 5064378   |

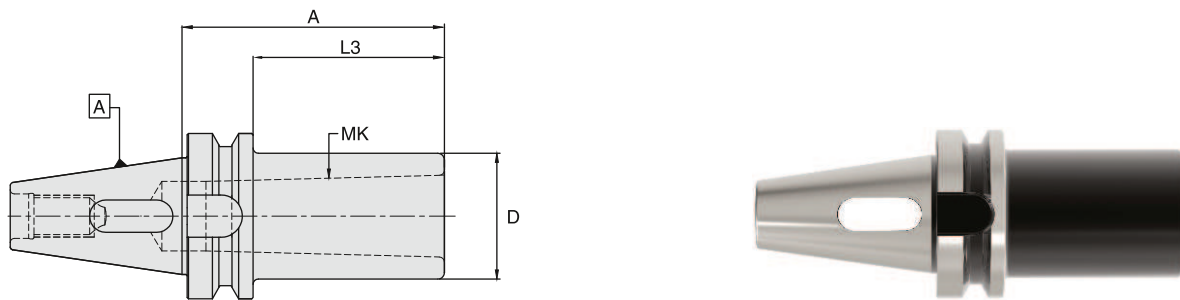


Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E5 Pg.D20 Pg.E5

- Im Lieferumfang enthalten: eingebaute Innensechskantschraube
- Delivery includes: built-in draw screw

## Zwischenhülsen für Morse-Kegel mit Austreibblappen DIN 6383

Adaptor sleeves for Morse taper with tang to DIN 6383



| BT30 |        |        |         |                                     |          |                            |           |
|------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| MK   | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1    | 25     | 45     | 23      | -                                   | 1.1      | WMTA/MT1-45/BT30           | 5066658   |
| 2    | 32     | 60     | 38      | -                                   | 1.2      | WMTA/MT2-60/BT30           | 5066659   |
| 3    | 40     | 75     | 53      | -                                   | 1.3      | WMTA/MT3-75/BT30           | 5066660   |

≤ 10µm
 G2.5  
18000 R.P.M.

| BT40 |        |        |         |                                     |          |                            |           |
|------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| MK   | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1    | 25     | 50     | 23      | -                                   | 1.20     | WMTA/MT1-50/BT40           | 5064401   |
| 2    | 32     | 50     | 23      | -                                   | 1.20     | WMTA/MT2-50/BT40           | 5064402   |
| 3    | 40     | 70     | 43      | -                                   | 1.30     | WMTA/MT3-70/BT40           | 5064403   |
| 4    | 48     | 95     | 68      | -                                   | 1.50     | WMTA/MT4-95/BT40           | 5064404   |

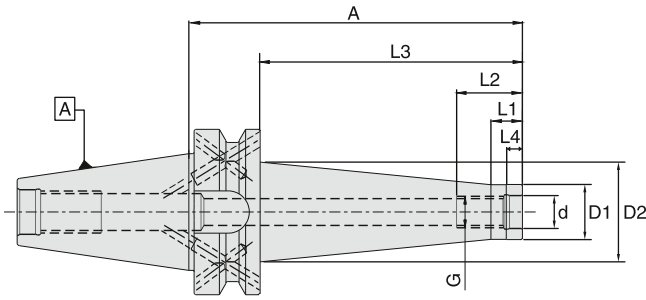
≤ 10µm
 G2.5  
18000 R.P.M.

| BT50 |        |        |         |                                     |          |                            |           |
|------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| MK   | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1    | 25     | 45     | 7       | -                                   | 3.65     | WMTA/MT1-45/BT50           | 5064405   |
| 2    | 32     | 60     | 22      | -                                   | 3.70     | WMTA/MT2-60/BT50           | 5064406   |
| 3    | 40     | 65     | 27      | -                                   | 3.70     | WMTA/MT3-65/BT50           | 5064407   |
| 4    | 48     | 95     | 57      | -                                   | 3.90     | WMTA/MT4-95/BT50           | 5064408   |
| 5    | 70     | 105    | 67      | -                                   | 4.20     | WMTA/MT5-105/BT50          | 5064410   |

≤ 10µm
 G2.5  
18000 R.P.M.

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20

Aufnahme für Einschraubfräser  
Chuck for threaded milling heads



**BT40**

| G   | d (mm) | D1 (mm) | D2 (mm) | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|-----|--------|---------|---------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| M8  | 8.5    | 13.8    | 15      | 52     | 12      | 19      | 25      | 6.5     | Form "AD/B"                         | 1.0      | WTA/M8-52/BT40             | 5065018   |
| M8  | 8.5    | 13.8    | 23      | 77     | 12      | 19      | 50      | 6.5     | Form "AD/B"                         | 1.1      | WTA/M8-77/BT40             | 5065019   |
| M8  | 8.5    | 13.8    | 25      | 102    | 12      | 19      | 75      | 6.5     | Form "AD/B"                         | 1.3      | WTA/M8-102/BT40            | 5065020   |
| M10 | 10.5   | 18.0    | 23      | 52     | 12      | 19      | 25      | 6.5     | Form "AD/B"                         | 1.0      | WTA/M10-52/BT40            | 5065021   |
| M10 | 10.5   | 18.0    | 25      | 77     | 12      | 19      | 50      | 6.5     | Form "AD/B"                         | 1.2      | WTA/M10-77/BT40            | 5065022   |
| M10 | 10.5   | 18.0    | 30      | 102    | 12      | 19      | 75      | 6.5     | Form "AD/B"                         | 1.3      | WTA/M10-102/BT40           | 5065023   |
| M12 | 12.5   | 21.0    | 24      | 52     | 12      | 25      | 25      | 7.0     | Form "AD/B"                         | 1.0      | WTA/M12-52/BT40            | 5065024   |
| M12 | 12.5   | 21.0    | 30      | 77     | 12      | 25      | 50      | 7.0     | Form "AD/B"                         | 1.2      | WTA/M12-77/BT40            | 5065025   |
| M12 | 12.5   | 21.0    | 35      | 102    | 12      | 25      | 75      | 7.0     | Form "AD/B"                         | 1.3      | WTA/M12-102/BT40           | 5065031   |
| M12 | 12.5   | 21.0    | 38      | 127    | 12      | 25      | 100     | 7.0     | Form "AD/B"                         | 1.5      | WTA/M12-127/BT40           | 5065032   |
| M16 | 17.0   | 29.0    | 29      | 52     | 12      | 31      | 25      | 8.0     | Form "AD/B"                         | 1.1      | WTA/M16-52/BT40            | 5065034   |
| M16 | 17.0   | 29.0    | 34      | 77     | 12      | 31      | 50      | 8.0     | Form "AD/B"                         | 1.2      | WTA/M16-77/BT40            | 5065035   |
| M16 | 17.0   | 29.0    | 35      | 102    | 12      | 31      | 75      | 8.0     | Form "AD/B"                         | 1.4      | WTA/M16-102/BT40           | 5065036   |
| M16 | 17.0   | 29.0    | 40      | 127    | 12      | 31      | 100     | 8.0     | Form "AD/B"                         | 1.6      | WTA/M16-127/BT40           | 5065038   |
| M16 | 17.0   | 29.0    | 48      | 152    | 12      | 31      | 125     | 8.0     | Form "AD/B"                         | 2.0      | WTA/M16-152/BT40           | 5065040   |
| M16 | 17.0   | 29.0    | 52      | 177    | 12      | 31      | 150     | 8.0     | Form "AD/B"                         | 2.4      | WTA/M16-177/BT40           | 5065041   |

**BT50**

| G   | d (mm) | D1 (mm) | D2 (mm) | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|-----|--------|---------|---------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| M12 | 12.5   | 21.0    | 35      | 88     | 12      | 25      | 50      | 7.0     | Form "AD/B"                         | 3.9      | WTA/M12-88/BT50            | 5065046   |
| M12 | 12.5   | 21.0    | 38      | 138    | 12      | 25      | 100     | 7.0     | Form "AD/B"                         | 4.0      | WTA/M12-138/BT50           | 5065047   |
| M12 | 12.5   | 21.0    | 48      | 188    | 12      | 25      | 150     | 7.0     | Form "AD/B"                         | 4.6      | WTA/M12-188/BT50           | 5065048   |
| M16 | 17.0   | 29.0    | 35      | 88     | 12      | 31      | 50      | 8.0     | Form "AD/B"                         | 3.9      | WTA/M16-88/BT50            | 5065049   |
| M16 | 17.0   | 29.0    | 40      | 113    | 12      | 31      | 75      | 8.0     | Form "AD/B"                         | 4.1      | WTA/M16-113/BT50           | 5065050   |
| M16 | 17.0   | 29.0    | 48      | 138    | 12      | 31      | 100     | 8.0     | Form "AD/B"                         | 4.4      | WTA/M16-138/BT50           | 5065051   |
| M16 | 17.0   | 29.0    | 52      | 188    | 12      | 31      | 150     | 8.0     | Form "AD/B"                         | 5.0      | WTA/M16-188/BT50           | 5065052   |

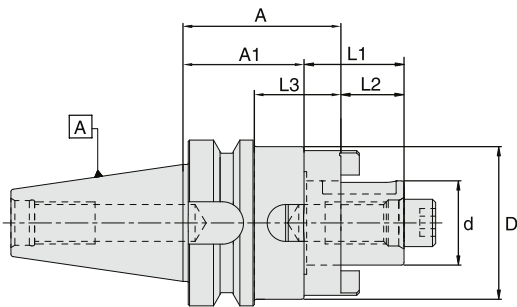
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20

Siehe Seite D15 für Einschraubfräser Verlängerung & Reduzierung Refer page. D15 for Threaded Arbor extensions & reductions.



# Aufsteckfräserdorn DIN 6358 mit Längs- und Quernut (Kombination)

Shell mill holder with DIN 6358 (Combination)



| BT30   |        |        |         |         |         |         |                                     |          |                            |           |
|--------|--------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 32     | 45     | 35      | 27      | 17      | 23      | -                                   | 0.75     | WFSH/16-45/BT30 *          | 6733419   |
| 22     | 40     | 47     | 35      | 31      | 19      | 25      | -                                   | 0.85     | WFSH/22-47/BT30 *          | 6733420   |
| 27     | 46     | 49     | 37      | 33      | 21      | 27      | -                                   | 1.00     | WFSH/27-49/BT30 *          | 6733421   |
| 16     | 32     | 80     | 70      | 27      | 17      | 58      | -                                   | 1.00     | WFSH/16-80/BT30 *          | 9202189   |
| 22     | 40     | 80     | 68      | 31      | 19      | 58      | -                                   | 1.15     | WFSH/22-80/BT30 *          | 9202190   |
| 27     | 48     | 90     | 78      | 33      | 21      | 68      | -                                   | 1.60     | WFSH/27-90/BT30 *          | 9202191   |

≤ 5µm G2.5 18000 R.P.M.

| BT40   |        |        |         |         |         |         |                                     |          |                            |           |
|--------|--------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 32     | 55     | 45      | 27      | 17      | 28      | -                                   | 1.25     | WFSH/16-55/BT40            | 6733423   |
| 22     | 40     | 55     | 43      | 31      | 19      | 28      | -                                   | 1.40     | WFSH/22-55/BT40            | 6733425   |
| 27     | 48     | 55     | 43      | 33      | 21      | 28      | -                                   | 1.65     | WFSH/27-55/BT40            | 6733427   |
| 32     | 58     | 60     | 46      | 38      | 24      | 33      | -                                   | 2.00     | WFSH/32-60/BT40            | 6733429   |
| 40     | 70     | 60     | 46      | 41      | 27      | 33      | -                                   | 2.30     | WFSH/40-60/BT40 **         | 4600948   |
| 16     | 32     | 100    | 90      | 27      | 17      | 73      | -                                   | 1.60     | WFSH/16-100/BT40           | 6733424   |
| 22     | 40     | 100    | 88      | 31      | 19      | 73      | -                                   | 1.85     | WFSH/22-100/BT40           | 6733426   |
| 27     | 48     | 100    | 88      | 33      | 21      | 73      | -                                   | 2.30     | WFSH/27-100/BT40           | 6733428   |
| 32     | 58     | 100    | 86      | 38      | 24      | 73      | -                                   | 2.70     | WFSH/32-100/BT40           | 6733430   |
| 40     | 70     | 100    | 86      | 41      | 27      | 73      | -                                   | 3.50     | WFSH/40-100/BT40 **        | 4600949   |

≤ 5µm G2.5 18000 R.P.M.

| BT50   |        |        |         |         |         |         |                                     |          |                            |           |
|--------|--------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 32     | 70     | 60      | 27      | 17      | 32      | -                                   | 4.00     | WFSH/16-70/BT50            | 4601448   |
| 22     | 40     | 70     | 58      | 31      | 19      | 32      | -                                   | 4.20     | WFSH/22-70/BT50            | 4601449   |
| 27     | 48     | 70     | 58      | 33      | 21      | 32      | -                                   | 4.35     | WFSH/27-70/BT50            | 4601450   |
| 32     | 58     | 70     | 56      | 38      | 24      | 32      | -                                   | 4.70     | WFSH/32-70/BT50            | 4601451   |
| 40     | 70     | 70     | 56      | 41      | 27      | 32      | -                                   | 5.05     | WFSH/40-70/BT50 **         | 4601452   |

≤ 5µm G2.5 18000 R.P.M.

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E3 Pg.E4 Pg.E3 Pg.D21 Pg.D20

- Im Lieferumfang enthalten: Passfeder, Mitnehmerring, Fräseranzugsschraube und Spannschrauben (DIN 912)
- \* Im Lieferumfang enthalten: Spannschrauben (DIN 912 & DIN 6367)
- \*\* Im Lieferumfang enthalten: Spannschrauben (DIN 6367)

- Delivery includes: Parallel key, drive ring, clamping screw and locking screw (DIN 912)
- \* Delivery includes: Locking screw (DIN 912 & DIN 6367)
- \*\* Delivery includes: Locking screw (DIN 6367)

Aufnahmedorn mit Innenzentrierung DIN 6357 mit vergrößertem Bunddurchmesser  
Shell mill holder DIN 6357 for cutters with drive key

BT MAS 403  
ISO7388-2

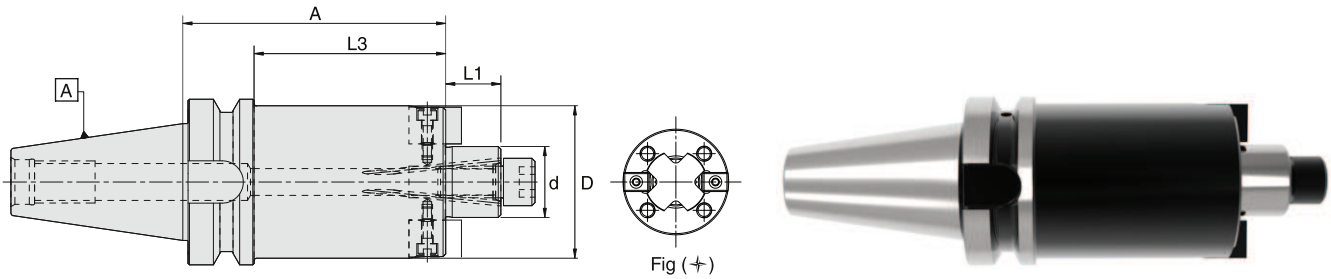


Fig (+)

|      |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|
| BT30 |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| 16     | 38     | 40     | 17      | 18      | Form "AD"                           | 0.70     | WSMH/16-40/BT30*           | 5067575   |
| 22     | 48     | 40     | 19      | 18      | Form "AD"                           | 0.85     | WSMH/22-40/BT30*           | 5067577   |
| 27     | 58     | 40     | 21      | 18      | Form "AD"                           | 1.00     | WSMH/27-40/BT30*           | 5067578   |
| 32     | 78     | 50     | 24      | 28      | Form "AD"                           | 1.00     | WSMH/32-50/BT30*           | 5067579   |

|      |  |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|--|
| BT40 |  |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|--|

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| 16     | 38     | 40     | 17      | 13      | Form "AD/B"                         | 1.20     | WSMH/16-40/BT40            | 5009952   |
| 22     | 48     | 40     | 19      | 13      | Form "AD/B"                         | 1.30     | WSMH/22-40/BT40            | 5009953   |
| 27     | 58     | 40     | 21      | 13      | Form "AD/B"                         | 1.55     | WSMH/27-40/BT40            | 5064794   |
| 32     | 78     | 50     | 24      | 23      | Form "AD/B"                         | 1.95     | WSMH/32-50/BT40            | 5064795   |
| 40     | 88     | 50     | 27      | 23      | Form "AD/B"                         | 2.45     | WSMH/40-50/BT40+           | 5064798   |
| 16     | 38     | 100    | 17      | 73      | Form "AD/B"                         | 1.70     | WSMH/16-100/BT40           | 5064801   |
| 22     | 48     | 100    | 19      | 73      | Form "AD/B"                         | 2.20     | WSMH/22-100/BT40           | 5064802   |
| 27     | 58     | 100    | 21      | 73      | Form "AD/B"                         | 2.70     | WSMH/27-100/BT40           | 5064803   |
| 32     | 78     | 100    | 24      | 73      | Form "AD/B"                         | 3.80     | WSMH/32-100/BT40           | 5064804   |
| 40     | 88     | 100    | 27      | 73      | Form "AD/B"                         | 4.65     | WSMH/40-100/BT40+          | 5064805   |
| 16     | 38     | 160    | 17      | 133     | Form "AD/B"                         | 2.20     | WSMH/16-160/BT40           | 5064806   |
| 22     | 48     | 160    | 19      | 133     | Form "AD/B"                         | 2.95     | WSMH/22-160/BT40           | 5064810   |
| 27     | 58     | 160    | 21      | 133     | Form "AD/B"                         | 3.90     | WSMH/27-160/BT40           | 5064827   |
| 32     | 78     | 160    | 24      | 133     | Form "AD/B"                         | 5.90     | WSMH/32-160/BT40           | 5064829   |
| 40     | 88     | 160    | 27      | 133     | Form "AD/B"                         | 7.45     | WSMH/40-160/BT40+          | 5064830   |

|      |  |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|--|
| BT50 |  |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|--|

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| 16     | 38     | 63     | 17      | 25      | Form "AD/B"                         | 3.85     | WSMH/16-63/BT50            | 5064832   |
| 22     | 48     | 63     | 19      | 25      | Form "AD/B"                         | 4.00     | WSMH/22-63/BT50            | 5064834   |
| 27     | 58     | 63     | 21      | 25      | Form "AD/B"                         | 4.30     | WSMH/27-63/BT50            | 5064835   |
| 32     | 78     | 60     | 24      | 22      | Form "AD/B"                         | 4.50     | WSMH/32-60/BT50            | 5064836   |
| 40     | 88     | 60     | 27      | 22      | Form "AD/B"                         | 5.10     | WSMH/40-60/BT50+           | 5064820   |
| 60     | 129    | 80     | 40      | 42      | -                                   | 8.80     | WSMH/60-80/BT50+           | 5064837   |
| 16     | 38     | 100    | 17      | 62      | Form "AD/B"                         | 4.25     | WSMH/16-100/BT50           | 5064929   |
| 22     | 48     | 100    | 19      | 62      | Form "AD/B"                         | 4.60     | WSMH/22-100/BT50           | 5064930   |
| 27     | 58     | 100    | 21      | 62      | Form "AD/B"                         | 5.10     | WSMH/27-100/BT50           | 5064931   |
| 32     | 78     | 100    | 24      | 62      | Form "AD/B"                         | 6.30     | WSMH/32-100/BT50           | 5064933   |
| 40     | 88     | 100    | 27      | 62      | Form "AD/B"                         | 6.80     | WSMH/40-100/BT50+          | 5064934   |
| 16     | 38     | 160    | 17      | 122     | Form "AD/B"                         | 4.70     | WSMH/16-160/BT50           | 5064936   |
| 22     | 48     | 160    | 19      | 122     | Form "AD/B"                         | 5.40     | WSMH/22-160/BT50           | 5064937   |
| 27     | 58     | 160    | 21      | 122     | Form "AD/B"                         | 6.30     | WSMH/27-160/BT50           | 5064938   |
| 32     | 78     | 160    | 24      | 122     | Form "AD/B"                         | 8.40     | WSMH/32-160/BT50           | 5064940   |
| 40     | 88     | 160    | 27      | 122     | Form "AD/B"                         | 9.65     | WSMH/40-160/BT50+          | 5064941   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D21 Pg.E3 Pg.E4 Pg.E4 Pg.D20

- Kühlbohrung an der Stirnseite Standard bei allen Grundhaltern
- + d = Ø 40, Ø 60 Mit 4 zusätzlichen Gewindebohrungen nach DIN 2079
- Im Lieferumfang enthalten: Mitnehmersteine, Fräseranzugsschraube und Spanschrauben (DIN 912)
- \* Im Lieferumfang enthalten: Spanschrauben (DIN 912 & DIN 6367)
- Coolant bore on the pilot face (holder with Form "AD/B") as standard for all holders
- + d = Ø 40, Ø 60 with additional 4 screw holes to DIN 2079 and with locking screw (DIN 6367) for Ø40
- Delivery includes: Drive keys, clamping screw and locking screw (DIN 912)
- \* Delivery includes: Locking screw (both DIN 912 & DIN 6367)

SK DIN 69871  
ISO7388-1

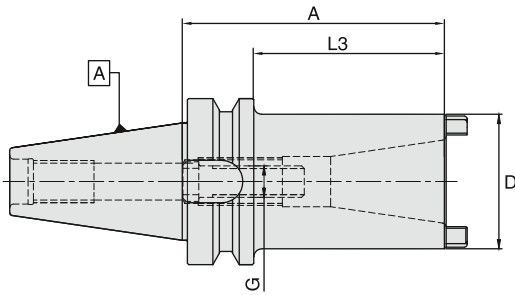
HSK DIN 69893

Zubehör  
Accessories

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

## Zwischenhülsen Reduction Sleeves



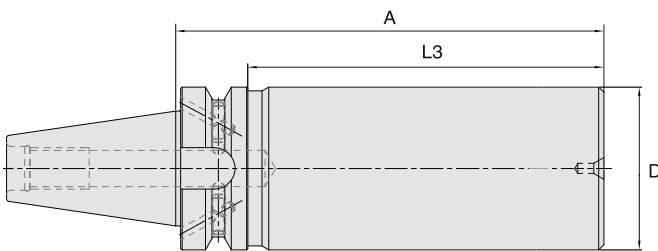
| BT40                            |           |           |            |     |                                    |             |                            | ≤ 5µm     | G2.5<br>18000<br>R.P.M. |
|---------------------------------|-----------|-----------|------------|-----|------------------------------------|-------------|----------------------------|-----------|-------------------------|
| Innenkegelgröße<br>Inside Taper | D<br>(mm) | A<br>(mm) | L3<br>(mm) | G   | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                         |
| SK 30                           | 51        | 60        | 33         | M12 | -                                  | 1.65        | BT40-SK30-60               | 4600865   |                         |
| SK 40                           | 63        | 100       | -          | M16 | -                                  | 2.50        | BT40-SK40-100              | 4600866   |                         |

| BT50                            |           |           |            |     |                                    |             |                            | ≤ 5µm     | G2.5<br>18000<br>R.P.M. |
|---------------------------------|-----------|-----------|------------|-----|------------------------------------|-------------|----------------------------|-----------|-------------------------|
| Innenkegelgröße<br>Inside Taper | D<br>(mm) | A<br>(mm) | L3<br>(mm) | G   | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                         |
| SK 40                           | 63        | 70        | 32         | M16 | -                                  | 4.00        | BT50-SK40-70               | 4601387   |                         |
| SK 50                           | 97        | 120       | 82         | M24 | -                                  | 7.60        | BT50-SK50-120              | 4601388   |                         |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E7 Pg.D20 Pg.E7

- Im Lieferumfang enthalten: eingebaute Innensechskantschraube
- Delivery includes: built-in draw screw

## Bohrstangenrohlinge Boring bar blanks



| BT40      |           |            |                                    |             |                            |           | 35 ± 5<br>HRC |
|-----------|-----------|------------|------------------------------------|-------------|----------------------------|-----------|---------------|
| D<br>(mm) | A<br>(mm) | L3<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |               |
| 63        | 250       | 223        | Form "AD/B"                        | 6.45        | WBBB/63-250/BT40           | 5064955   |               |

| BT50      |           |            |                                    |             |                            |           | 35 ± 5<br>HRC |
|-----------|-----------|------------|------------------------------------|-------------|----------------------------|-----------|---------------|
| D<br>(mm) | A<br>(mm) | L3<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |               |
| 63.5      | 300       | 262        | Form "AD/B"                        | 10.30       | WBBB/63.5-300/BT50         | 5064956   |               |

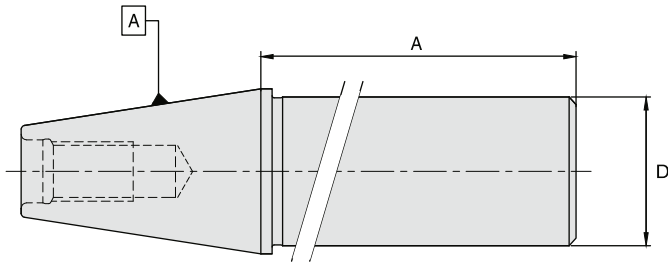
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20

- Im Lieferumfang enthalten: Steilkegel und Bund gehärtet und geschliffen, Schaft weich zur weiteren Bearbeitung
- Delivery includes: Steep taper and flange hardened, body left soft

Kontrolldorn  
Test Arbor



BT MAS 403  
ISO7388-2



| BT40 <span style="float: right;">↗<br/>≤ 2µm</span> |        |                                     |          |                            |           |
|---|--------|-------------------------------------|----------|----------------------------|-----------|
| D (mm)  | A (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 40  | 330    | -                                   | 4.10     | WTMM/40-330/BT40           | 5083039   |

| BT50 <span style="float: right;">↗<br/>≤ 2µm</span> |        |                                     |          |                            |           |
|---|--------|-------------------------------------|----------|----------------------------|-----------|
| D (mm)  | A (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 50  | 330    | -                                   | 7.60     | WTMM/50-330/BT50           | 5056227   |

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Diese Dorne haben keinen Bund</li> <li>• Kontrolldorne im Holzkasten geliefert</li> </ul> | <ul style="list-style-type: none"> <li>• These gauge are without flange</li> <li>• Delivered in wooden box</li> </ul> |
|--|---|

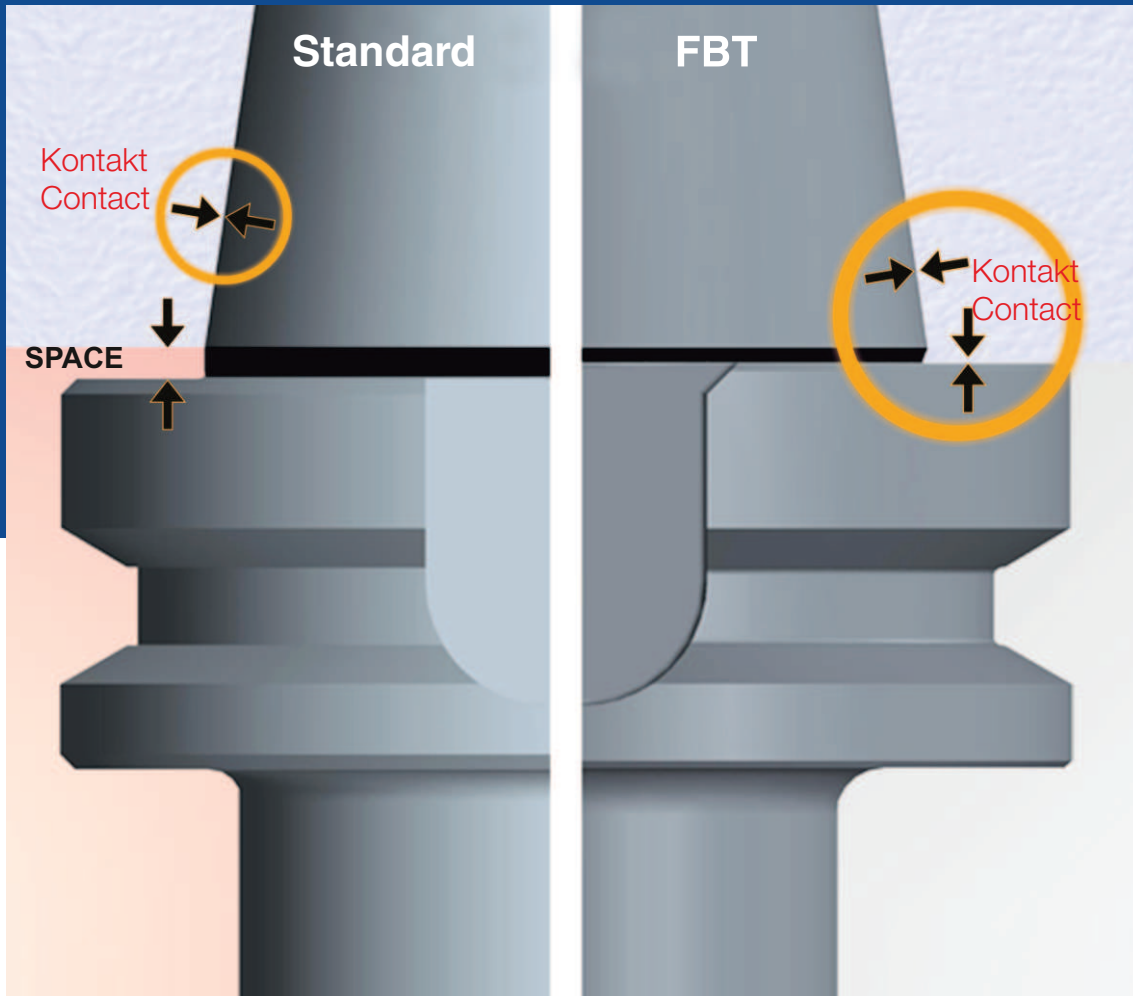
SK DIN 69871  
ISO7388-1

HSK DIN 69893

Zubehör  
Accessories

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details



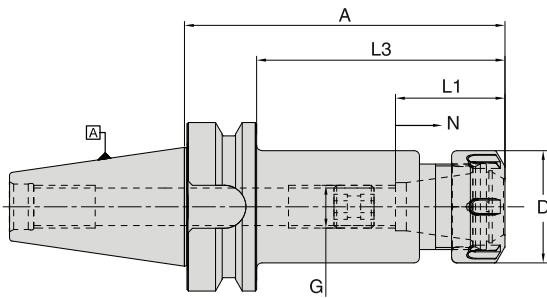
- Großflächiger und konischer Kontakt für optimierte Festigkeit und Steifigkeit
- Erhöhte Steifigkeit durch vergrößerte Anlagefläche
- Kein Axialspiel bei hohen Bearbeitungskräften
- Verbesserte Rundlaufeigenschaften
- Optimiertes Oberflächenfinish und höhere Maßhaltigkeit
- Large face and taper contact for optimized strength and rigidity
- Extremely high rigidity
- Maximum stability even at higher speeds
- Precise run-out
- Improved surface finish quality and accuracy compared to conventional BT spindle tapers



|  |           |
|--|-----------|
| Spannzangenfutter ER<br>Collet chuck ER  | A26 - A27 |
| Super collet Spannzangenfutter<br>Super collet chuck                                 | A28       |
| Fräseraufnahmen (Weldon / Whistle Notch)<br>End mill holder (Weldon / Whistle Notch) | A29 - A30 |
| Hochleistungsfräaserspannfutter<br>Hi-power milling chuck                            | A31       |
| Schlanke Hochleistungsfräaserspannfutter<br>Slim Hi-power milling chuck              | A32       |
| Micro-Spannzangenhalter<br>Micro collet holder                                       | A33       |
| Hydrodehnspannfutter<br>Hydraulic expansion chuck                                    | A34       |
| Aufnahmen für Morse-Kegel<br>Morse taper holder                                      | A35       |
| Aufnahmen für Einschraubfräser<br>Chuck for threaded milling heads                   | A36       |
| Kombi-Aufsteckfräserdorn<br>Combi shell mill holder                                  | A37       |
| Aufsteckfräserdorn<br>Shell mill holder  | A38       |
| Kontrolldorn<br>Test Arbor   | A39       |

# FBT - Spannzangenfutter Typ ER für Spannzangen ISO 15488 (DIN 6499)

FBT - Collet chuck Type ER for collets to ISO 15488 (DIN 6499)

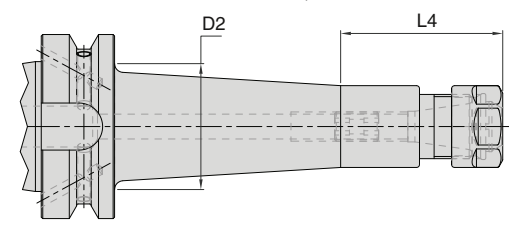


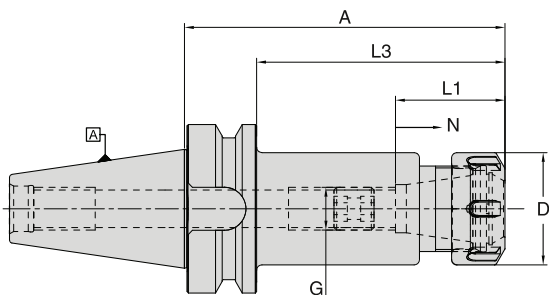
| FBT30                     |                  |           |           |            |            |           |    |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|----|-------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N  | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER 16                     | 1-10             | 28        | 70        | 32.5       | 48         | M10       | 12 | Form "AD"                           | 0.6         | WCCH/ER16-70/FBT30         | 5126734   |
| ER 20                     | 1-13             | 34        | 70        | 38.0       | 48         | M12       | 12 | Form "AD"                           | 0.7         | WCCH/ER20-70/FBT30         | 5126736   |
| ER 25                     | 2-16             | 42        | 70        | 41.0       | 48         | M12       | 12 | Form "AD"                           | 0.7         | WCCH/ER25-70/FBT30         | 5126737   |
| ER 32                     | 2-20             | 50        | 70        | 47.0       | 48         | M12       | 12 | Form "AD"                           | 0.8         | WCCH/ER32-70/FBT30         | 5126738   |
| ER 16                     | 1-10             | 28        | 100       | 32.5       | 78         | M10       | 12 | Form "AD"                           | 0.7         | WCCH/ER16-100/FBT30        | 5126739   |
| ER 20                     | 1-13             | 34        | 100       | 38.0       | 78         | M12       | 12 | Form "AD"                           | 0.9         | WCCH/ER20-100/FBT30        | 5126740   |
| ER 25                     | 2-16             | 42        | 100       | 41.0       | 78         | M12       | 12 | Form "AD"                           | 0.9         | WCCH/ER25-100/FBT30        | 5126741   |

| FBT40                     |                  |           |           |            |            |           |    |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|----|-------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N  | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER 16                     | 1-10             | 28        | 70        | 32.5       | 43         | M10       | 12 | Form "AD"                           | 1.2         | WCCH/ER16-70/FBT40         | 5126742   |
| ER 20                     | 1-13             | 34        | 70        | 38.0       | 43         | M12       | 12 | Form "AD"                           | 1.2         | WCCH/ER20-70/FBT40         | 5126743   |
| ER 25                     | 2-16             | 42        | 70        | 41.0       | 43         | M16       | 12 | Form "AD"                           | 1.3         | WCCH/ER25-70/FBT40         | 5126744   |
| ER 32                     | 2-20             | 50        | 70        | 47.0       | 43         | M22X1.5   | 12 | Form "AD"                           | 1.4         | WCCH/ER32-70/FBT40         | 5126745   |
| ER 40                     | 3-26             | 63        | 80        | 58.5       | 53         | M22X1.5   | 12 | Form "AD"                           | 1.5         | WCCH/ER40-80/FBT40         | 5126746   |
| ER 16                     | 1-10             | 28        | 100       | 32.5       | 73         | M10       | 12 | Form "AD"                           | 1.3         | WCCH/ER16-100/FBT40        | 5126747   |
| ER 20                     | 1-13             | 34        | 100       | 38.0       | 73         | M12       | 12 | Form "AD"                           | 1.4         | WCCH/ER20-100/FBT40        | 5126748   |
| ER 25                     | 2-16             | 42        | 100       | 41.0       | 73         | M16       | 12 | Form "AD"                           | 1.4         | WCCH/ER25-100/FBT40        | 5126749   |
| ER 32                     | 2-20             | 50        | 100       | 47.0       | 73         | M22X1.5   | 12 | Form "AD"                           | 1.7         | WCCH/ER32-100/FBT40        | 5126750   |
| ER 40                     | 3-26             | 63        | 100       | 58.5       | 73         | M22X1.5   | 12 | Form "AD"                           | 1.9         | WCCH/ER40-100/FBT40        | 5126756   |
| ER 16                     | 1-10             | 28        | 160       | 32.5       | 133        | M10       | 12 | Form "AD"                           | 1.5         | WCCH/ER16-160/FBT40 ❖      | 5126757   |
| ER 20                     | 1-13             | 34        | 160       | 38.0       | 133        | M12       | 12 | Form "AD"                           | 1.8         | WCCH/ER20-160/FBT40        | 5126758   |
| ER 25                     | 2-16             | 42        | 160       | 41.0       | 133        | M16       | 12 | Form "AD"                           | 2.0         | WCCH/ER25-160/FBT40        | 5126762   |
| ER 32                     | 2-20             | 50        | 160       | 47.0       | 133        | M22X1.5   | 12 | Form "AD"                           | 2.5         | WCCH/ER32-160/FBT40        | 5126876   |
| ER 40                     | 3-26             | 63        | 160       | 58.5       | 133        | M22X1.5   | 12 | Form "AD"                           | 2.6         | WCCH/ER40-160/FBT40        | 5126878   |

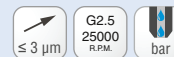
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20 Pg.D2-D4 Pg.D5 Pg.D7

- Im Lieferumfang enthalten: mit Spannmutter (gewuchtet) und Verstelle schraube
- Höhere Wuchtgüte auf Anfrage
- ❖ Für WCCH/ER16-160/FBT40, D2=43.2mm & L4=55.5mm
- Delivery includes: Clamping nut (balanced) & adjusting screw
- Higher balancing grade on request
- ❖ Note: For WCCH/ER16-160/FBT40, D2=43.2mm & L4=55.5mm





FBT50

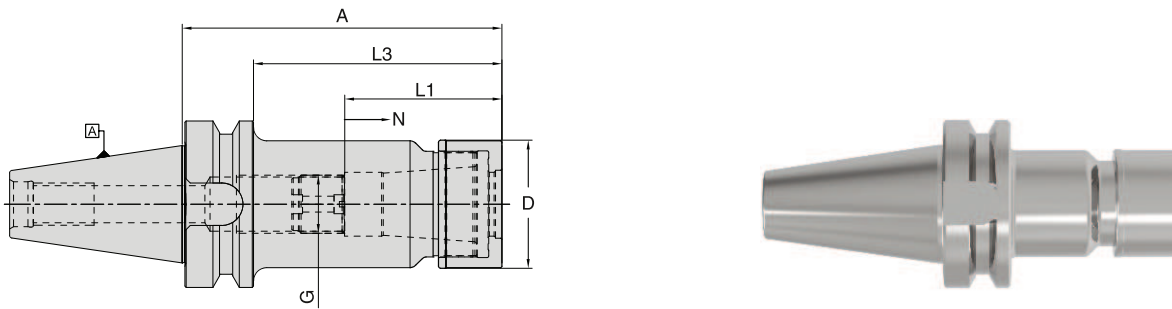


| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|----|------------------------------------|-------------|----------------------------|-----------|
| ER 20                     | 1-13             | 34        | 70        | 38.0       | 32         | M12       | 12 | Form "AD"                          | 3.8         | WCCH/ER20-70/FBT50         | 5126880   |
| ER 25                     | 2-16             | 42        | 70        | 41.0       | 32         | M16       | 12 | Form "AD"                          | 3.7         | WCCH/ER25-70/FBT50         | 5126881   |
| ER 32                     | 2-20             | 50        | 70        | 47.0       | 32         | M22X1.5   | 12 | Form "AD"                          | 3.8         | WCCH/ER32-70/FBT50         | 5126882   |
| ER 40                     | 3-26             | 63        | 80        | 58.5       | 42         | M22X1.5   | 12 | Form "AD"                          | 4.0         | WCCH/ER40-80/FBT50         | 5126883   |
| ER 16                     | 1-10             | 28        | 100       | 32.5       | 62         | M10       | 12 | Form "AD"                          | 3.8         | WCCH/ER16-100/FBT50        | 5126884   |
| ER 20                     | 1-13             | 34        | 100       | 38.0       | 62         | M12       | 12 | Form "AD"                          | 3.9         | WCCH/ER20-100/FBT50        | 5126886   |
| ER 25                     | 2-16             | 42        | 100       | 41.0       | 62         | M16       | 12 | Form "AD"                          | 3.9         | WCCH/ER25-100/FBT50        | 5126887   |
| ER 32                     | 2-20             | 50        | 100       | 47.0       | 62         | M22X1.5   | 12 | Form "AD"                          | 4.1         | WCCH/ER32-100/FBT50        | 5126889   |
| ER 40                     | 3-26             | 63        | 100       | 58.5       | 62         | M22X1.5   | 12 | Form "AD"                          | 4.2         | WCCH/ER40-100/FBT50        | 5126891   |
| ER 16                     | 1-10             | 28        | 160       | 32.5       | 122        | M10       | 12 | Form "AD"                          | 4.1         | WCCH/ER16-160/FBT50        | 5126892   |
| ER 20                     | 1-13             | 34        | 160       | 38.0       | 122        | M12       | 12 | Form "AD"                          | 4.5         | WCCH/ER20-160/FBT50        | 5126893   |
| ER 25                     | 2-16             | 42        | 160       | 41.0       | 122        | M16       | 12 | Form "AD"                          | 4.6         | WCCH/ER25-160/FBT50        | 5126894   |
| ER 32                     | 2-20             | 50        | 160       | 47.0       | 122        | M22X1.5   | 12 | Form "AD"                          | 4.9         | WCCH/ER32-160/FBT50        | 5126895   |
| ER 40                     | 3-26             | 63        | 160       | 58.5       | 122        | M22X1.5   | 12 | Form "AD"                          | 5.0         | WCCH/ER40-160/FBT50        | 5126896   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20 Pg.D2-D4 Pg.D5 Pg.D7

- Im Lieferumfang enthalten: mit Spannmutter (gewuchtet) und Verstelle schraube
- Höhere Wuchtgüte auf Anfrage
- Delivery includes: Clamping nut (balanced) & adjusting screw
- Higher balancing grade on request

Super collet Spannzangenfutter  
Super collet chuck



**FBT30**

| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|------------------------------------|-------------|----------------------------|-----------|
| SC06                      | 2-6              | 19.5      | 60        | 31.5       | 38         | M8 x1     | 12        | Form "AD"                          | 0,53        | WSCH/SCF06-60/FBT30        | 5127036   |
| SC10                      | 2-10             | 27.1      | 60        | 35.0       | 38         | M12 x1    | 12        | Form "AD"                          | 0,60        | WSCH/SCF10-60/FBT30        | 5127039   |
| SC13                      | 3-13             | 33.0      | 60        | 43.0       | 38         | M15 x1    | 16        | Form "AD"                          | 0,62        | WSCH/SCF13-60/FBT30        | 5127041   |
| SC16                      | 3-16             | 40.0      | 60        | 52.0       | 38         | M18 x1.5  | 16        | Form "AD"                          | 0,65        | WSCH/SCF16-60/FBT30        | 5127052   |
| SC20                      | 6-20             | 48.0      | 60        | 59.5       | 38         | M22 x1.5  | 16        | Form "AD"                          | 0,70        | WSCH/SCF20-60/FBT30        | 5127053   |

**FBT40**

| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|------------------------------------|-------------|----------------------------|-----------|
| SC06                      | 2-6              | 19.5      | 90        | 31.5       | 63         | M8 x1     | 12        | Form "AD"                          | 1,10        | WSCH/SCF06-90/FBT40        | 5127054   |
| SC06                      | 2-6              | 19.5      | 120       | 31.5       | 93         | M8 x1     | 12        | Form "AD"                          | 1,20        | WSCH/SCF06-120/FBT40       | 5127061   |
| SC10                      | 2-10             | 27.1      | 90        | 35.0       | 63         | M12 x1    | 12        | Form "AD"                          | 1,20        | WSCH/SCF10-90/FBT40        | 5127055   |
| SC10                      | 2-10             | 27.1      | 120       | 35.0       | 93         | M12 x1    | 12        | Form "AD"                          | 1,35        | WSCH/SCF10-120/FBT40       | 5127065   |
| SC13                      | 3-13             | 33.0      | 90        | 43.0       | 63         | M15 x1    | 16        | Form "AD"                          | 1,40        | WSCH/SCF13-90/FBT40        | 5127056   |
| SC13                      | 3-13             | 33.0      | 120       | 43.0       | 93         | M15 x1    | 16        | Form "AD"                          | 1,50        | WSCH/SCF13-120/FBT40       | 5127067   |
| SC16                      | 3-16             | 40.0      | 90        | 52.0       | 63         | M18 x1.5  | 16        | Form "AD"                          | 1,50        | WSCH/SCF16-90/FBT40        | 5127057   |
| SC16                      | 3-16             | 40.0      | 120       | 52.0       | 93         | M18 x1.5  | 16        | Form "AD"                          | 1,70        | WSCH/SCF16-120/FBT40       | 5127073   |
| SC20                      | 6-20             | 48.0      | 90        | 59.5       | 63         | M22 x1.5  | 16        | Form "AD"                          | 1,41        | WSCH/SCF20-90/FBT40        | 5127058   |
| SC20                      | 6-20             | 48.0      | 120       | 59.5       | 93         | M22 x1.5  | 16        | Form "AD"                          | 2,01        | WSCH/SCF20-120/FBT40       | 5127074   |
| SC25                      | 6-25             | 55.0      | 90        | 63.5       | 63         | M28 x1.5  | 20        | Form "AD"                          | 1,55        | WSCH/SCF25-90/FBT40        | 5127059   |
| SC25                      | 6-25             | 55.0      | 120       | 63.5       | 93         | M28 x1.5  | 20        | Form "AD"                          | 2,20        | WSCH/SCF25-120/FBT40       | 5127075   |

**FBT50**

| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|------------------------------------|-------------|----------------------------|-----------|
| SC06                      | 2-6              | 19.5      | 105       | 31.5       | 67         | M8 x1     | 12        | Form "AD"                          | 3,70        | WSCH/SCF06-105/FBT50       | 5127845   |
| SC06                      | 2-6              | 19.5      | 165       | 31.5       | 127        | M8 x1     | 12        | Form "AD"                          | 3,85        | WSCH/SCF06-165/FBT50       | 5127851   |
| SC10                      | 2-10             | 27.1      | 105       | 35.0       | 67         | M12 x1    | 12        | Form "AD"                          | 3,85        | WSCH/SCF10-105/FBT50       | 5127846   |
| SC10                      | 2-10             | 27.1      | 165       | 35.0       | 127        | M12 x1    | 12        | Form "AD"                          | 4,10        | WSCH/SCF10-165/FBT50       | 5127852   |
| SC13                      | 3-13             | 33.0      | 105       | 43.0       | 67         | M15 x1    | 16        | Form "AD"                          | 4,10        | WSCH/SCF13-105/FBT50       | 5127847   |
| SC13                      | 3-13             | 33.0      | 165       | 43.0       | 127        | M15 x1    | 16        | Form "AD"                          | 4,35        | WSCH/SCF13-165/FBT50       | 5127853   |
| SC16                      | 3-16             | 40.0      | 105       | 52.0       | 67         | M18 x1.5  | 16        | Form "AD"                          | 4,10        | WSCH/SCF16-105/FBT50       | 5127848   |
| SC16                      | 3-16             | 40.0      | 165       | 52.0       | 127        | M18 x1.5  | 16        | Form "AD"                          | 4,50        | WSCH/SCF16-165/FBT50       | 5127854   |
| SC20                      | 6-20             | 48.0      | 105       | 59.5       | 67         | M22 x1.5  | 16        | Form "AD"                          | 4,30        | WSCH/SCF20-105/FBT50       | 5127849   |
| SC20                      | 6-20             | 48.0      | 165       | 59.5       | 127        | M22 x1.5  | 16        | Form "AD"                          | 5,00        | WSCH/SCF20-165/FBT50       | 5127855   |
| SC25                      | 6-25             | 55.0      | 105       | 63.5       | 67         | M28 x1.5  | 20        | Form "AD"                          | 4,30        | WSCH/SCF25-105/FBT50       | 5127850   |
| SC25                      | 6-25             | 55.0      | 165       | 63.5       | 127        | M28 x1.5  | 20        | Form "AD"                          | 5,30        | WSCH/SCF25-165/FBT50       | 5127856   |

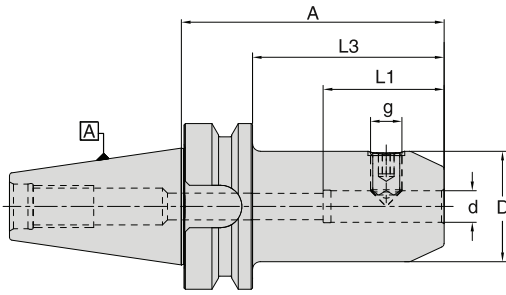
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D8-D9 Pg.D10 Pg.D9 Pg.D20

• Im Lieferumfang enthalten: mit Spannmutter (gewuchtet) und Verstelle schraube • Delivery includes: Clamping nut (friction type), Adjusting screw

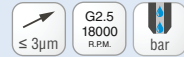
Technische Details siehe Seite F6-F7 / For technical details please refer the instruction manual provided in the packing box or refer page F6-F7

Fräseraufnahmen (Weldon) - für Zylinderschäfte gemäß DIN 1835B  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835B

BT MAS 403  
ISO7388-2



| FBT30  |        |        |         |         |     |                                    |          |                            |           |
|--------|--------|--------|---------|---------|-----|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g   | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06     | 25     | 50     | 37.0    | 28      | M6  | Form "AD"                          | 0.50     | WSLH/06-50/FBT30           | 5128896   |
| 08     | 28     | 50     | 37.0    | 28      | M8  | Form "AD"                          | 0.50     | WSLH/08-50/FBT30           | 5128899   |
| 10     | 35     | 50     | 41.0    | 28      | M10 | Form "AD"                          | 0.60     | WSLH/10-50/FBT30           | 5128901   |
| 12     | 42     | 50     | 46.0    | 28      | M12 | Form "AD"                          | 0.65     | WSLH/12-50/FBT30           | 5128902   |
| 14     | 44     | 50     | 46.0    | 28      | M12 | Form "AD"                          | 0.65     | WSLH/14-50/FBT30           | 5128903   |
| 16     | 48     | 63     | 49.0    | 41      | M14 | Form "AD"                          | 0.90     | WSLH/16-63/FBT30           | 5128904   |
| 18     | 50     | 63     | 49.0    | 41      | M14 | Form "AD"                          | 0.95     | WSLH/18-63/FBT30           | 5128905   |
| 20     | 52     | 63     | 51.0    | 41      | M16 | Form "AD"                          | 0.95     | WSLH/20-63/FBT30           | 5128906   |



SK DIN 69871  
ISO7388-1

| FBT40  |        |        |         |         |        |                                    |          |                            |           |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 48     | 35     | 49.0    | 8       | M14    | Form "AD"                          | 1.05     | WSLH/16-35/FBT40*          | 5128908   |
| 20     | 52     | 35     | 51.0    | 8       | M16    | Form "AD"                          | 1.10     | WSLH/20-35/FBT40*          | 5128909   |
| 25     | 45     | 35     | 59.0    | 8       | M16    | Form "AD"                          | 1.00     | WSLH/25-35/FBT40*          | 5128910   |
| 32     | 63     | 65     | 63.0    | 38      | M20 x2 | Form "AD"                          | 1.50     | WSLH/32-65/FBT40*          | 5128911   |
| 06     | 25     | 50     | 37.0    | 23      | M6     | Form "AD"                          | 1.02     | WSLH/06-50/FBT40           | 5128912   |
| 08     | 28     | 50     | 37.0    | 23      | M8     | Form "AD"                          | 1.10     | WSLH/08-50/FBT40           | 5128917   |
| 10     | 35     | 63     | 41.0    | 36      | M10    | Form "AD"                          | 1.25     | WSLH/10-63/FBT40           | 5128918   |
| 12     | 42     | 63     | 46.0    | 36      | M12    | Form "AD"                          | 1.30     | WSLH/12-63/FBT40           | 5128919   |
| 14     | 44     | 63     | 46.0    | 36      | M12    | Form "AD"                          | 1.30     | WSLH/14-63/FBT40           | 5128920   |
| 16     | 48     | 63     | 49.0    | 36      | M14    | Form "AD"                          | 1.40     | WSLH/16-63/FBT40           | 5128921   |
| 18     | 50     | 63     | 49.0    | 36      | M14    | Form "AD"                          | 1.40     | WSLH/18-63/FBT40           | 5128922   |
| 20     | 52     | 63     | 51.0    | 36      | M16    | Form "AD"                          | 1.50     | WSLH/20-63/FBT40           | 5128923   |
| 25     | 65     | 90     | 59.0    | 63      | M18 x2 | Form "AD"                          | 2.20     | WSLH/25-90/FBT40 **        | 5128924   |
| 32     | 72     | 100    | 63.0    | 73      | M20 x2 | Form "AD"                          | 2.70     | WSLH/32-100/FBT40 **       | 5128926   |
| 40     | 80     | 120    | 73.0    | 93      | M20 x2 | Form "AD"                          | 3.55     | WSLH/40-120/FBT40 **       | 5128927   |
| 06     | 25     | 100    | 37.0    | 73      | M6     | Form "AD"                          | 1.22     | WSLH/06-100/FBT40          | 5128929   |
| 08     | 28     | 100    | 37.0    | 73      | M8     | Form "AD"                          | 1.30     | WSLH/08-100/FBT40          | 5129001   |
| 10     | 35     | 100    | 41.0    | 73      | M10    | Form "AD"                          | 1.50     | WSLH/10-100/FBT40          | 5129002   |
| 12     | 42     | 100    | 46.0    | 73      | M12    | Form "AD"                          | 1.70     | WSLH/12-100/FBT40          | 5129003   |
| 14     | 44     | 100    | 46.0    | 73      | M12    | Form "AD"                          | 1.70     | WSLH/14-100/FBT40          | 5129004   |
| 16     | 48     | 100    | 49.0    | 73      | M14    | Form "AD"                          | 1.85     | WSLH/16-100/FBT40          | 5129006   |
| 18     | 50     | 100    | 49.0    | 73      | M14    | Form "AD"                          | 1.90     | WSLH/18-100/FBT40          | 5129007   |
| 20     | 52     | 100    | 51.0    | 73      | M16    | Form "AD"                          | 2.00     | WSLH/20-100/FBT40          | 5129008   |
| 06     | 25     | 160    | 37.0    | 133     | M6     | Form "AD"                          | 1.60     | WSLH/06-160/FBT40 ❖        | 5129832   |
| 08     | 28     | 160    | 37.0    | 133     | M8     | Form "AD"                          | 1.75     | WSLH/08-160/FBT40 ❖        | 5130641   |
| 10     | 35     | 160    | 41.0    | 133     | M10    | Form "AD"                          | 2.05     | WSLH/10-160/FBT40 ❖        | 5130642   |
| 12     | 42     | 160    | 46.0    | 133     | M12    | Form "AD"                          | 2.30     | WSLH/12-160/FBT40          | 5130643   |
| 14     | 44     | 160    | 46.0    | 133     | M12    | Form "AD"                          | 2.40     | WSLH/14-160/FBT40          | 5130644   |
| 16     | 48     | 160    | 49.0    | 133     | M14    | Form "AD"                          | 2.70     | WSLH/16-160/FBT40          | 5130645   |
| 18     | 50     | 160    | 49.0    | 133     | M14    | Form "AD"                          | 2.80     | WSLH/18-160/FBT40          | 5130646   |
| 20     | 52     | 160    | 51.0    | 133     | M16    | Form "AD"                          | 2.90     | WSLH/20-160/FBT40          | 5130647   |
| 25     | 65     | 160    | 59.0    | 133     | M18 x2 | Form "AD"                          | 4.00     | WSLH/25-160/FBT40 **       | 5130649   |

HSK DIN 69893

Zubehör  
Accessories

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

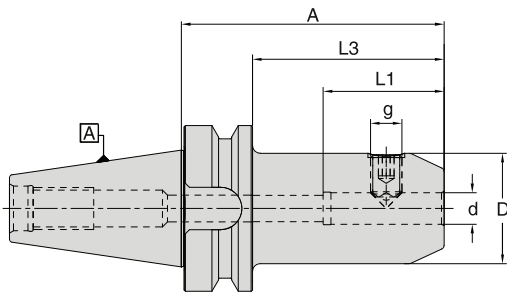
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20

Pg.E2

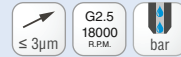
\*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40 | • Bohrungstoleranz H4  
 \* Extra kurze Aufnahmen: • Die Spannschrauben sind im Mitnehmer  
 • Maximale Steifigkeit dank kurzer Auskraglänge | • Im Lieferumfang enthalten:  
 Spannschraube | • Höhere Wuchtgüte auf Anfrage | ❖ siehe Seite A30

\*\* 2 locking screws for ID size = 25 / 32 / 40 | • Bore tolerance H4  
 \* Extra short holders:  
 • Locking screws are located in the same plane as drive slots.  
 • Gives maximum rigidity due to short projection  
 • Delivery includes: Locking screw | ❖ Refer page A30

Fräseraufnahmen (Weldon) - für Zylinderschäfte gemäß DIN 1835B  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835B



FBT50



| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| 06     | 25     | 63     | 37      | 25      | M6     | Form "AD"                          | 3.70     | WSLH/06-63/FBT50           | 5131410   |
| 08     | 28     | 63     | 37      | 25      | M8     | Form "AD"                          | 3.70     | WSLH/08-63/FBT50           | 5131411   |
| 10     | 35     | 63     | 41      | 25      | M10    | Form "AD"                          | 3.80     | WSLH/10-63/FBT50           | 5131412   |
| 12     | 42     | 80     | 46      | 42      | M12    | Form "AD"                          | 4.00     | WSLH/12-80/FBT50           | 5131413   |
| 14     | 44     | 80     | 46      | 42      | M12    | Form "AD"                          | 4.00     | WSLH/14-80/FBT50           | 5131415   |
| 16     | 48     | 80     | 49      | 42      | M14    | Form "AD"                          | 4.05     | WSLH/16-80/FBT50           | 5131416   |
| 18     | 50     | 80     | 49      | 42      | M14    | Form "AD"                          | 4.10     | WSLH/18-80/FBT50           | 5131417   |
| 20     | 52     | 80     | 51      | 42      | M16    | Form "AD"                          | 4.15     | WSLH/20-80/FBT50           | 5131768   |
| 25     | 65     | 100    | 59      | 62      | M18 x2 | Form "AD"                          | 4.80     | WSLH/25-100/FBT50 **       | 5131769   |
| 32     | 72     | 105    | 63      | 67      | M20 x2 | Form "AD"                          | 5.15     | WSLH/32-105/FBT50 **       | 5131770   |
| 40     | 80     | 110    | 73      | 72      | M20 x2 | Form "AD"                          | 5.50     | WSLH/40-110/FBT50 **       | 5131771   |
| 06     | 25     | 100    | 37      | 62      | M6     | Form "AD"                          | 3.80     | WSLH/06-100/FBT50          | 5131772   |
| 08     | 28     | 100    | 37      | 62      | M8     | Form "AD"                          | 3.85     | WSLH/08-100/FBT50          | 5131773   |
| 10     | 35     | 100    | 41      | 62      | M10    | Form "AD"                          | 3.95     | WSLH/10-100/FBT50          | 5131774   |
| 12     | 42     | 100    | 46      | 62      | M12    | Form "AD"                          | 4.15     | WSLH/12-100/FBT50          | 5131775   |
| 14     | 44     | 100    | 46      | 62      | M12    | Form "AD"                          | 4.25     | WSLH/14-100/FBT50          | 5131776   |
| 16     | 48     | 100    | 49      | 62      | M14    | Form "AD"                          | 4.35     | WSLH/16-100/FBT50          | 5131777   |
| 18     | 50     | 100    | 49      | 62      | M14    | Form "AD"                          | 4.40     | WSLH/18-100/FBT50          | 5131778   |
| 20     | 52     | 100    | 51      | 62      | M16    | Form "AD"                          | 4.40     | WSLH/20-100/FBT50          | 5131779   |
| 06     | 25     | 160    | 37      | 122     | M6     | Form "AD"                          | 4.10     | WSLH/06-160/FBT50 ❖        | 5131780   |
| 08     | 28     | 160    | 37      | 122     | M8     | Form "AD"                          | 4.25     | WSLH/08-160/FBT50 ❖        | 5131781   |
| 10     | 35     | 160    | 41      | 122     | M10    | Form "AD"                          | 4.60     | WSLH/10-160/FBT50 ❖        | 5131782   |
| 12     | 42     | 160    | 46      | 122     | M12    | Form "AD"                          | 4.80     | WSLH/12-160/FBT50          | 5131783   |
| 14     | 44     | 160    | 46      | 122     | M12    | Form "AD"                          | 4.90     | WSLH/14-160/FBT50          | 5131784   |
| 16     | 48     | 160    | 49      | 122     | M14    | Form "AD"                          | 5.15     | WSLH/16-160/FBT50          | 5131787   |
| 18     | 50     | 160    | 49      | 122     | M14    | Form "AD"                          | 5.25     | WSLH/18-160/FBT50          | 5131788   |
| 20     | 52     | 160    | 51      | 122     | M16    | Form "AD"                          | 5.40     | WSLH/20-160/FBT50          | 5131789   |
| 25     | 65     | 160    | 59      | 122     | M18 x2 | Form "AD"                          | 6.25     | WSLH/25-160/FBT50 **       | 5131790   |
| 32     | 72     | 160    | 63      | 122     | M20 x2 | Form "AD"                          | 6.80     | WSLH/32-160/FBT50 **       | 5131791   |

Ersatzteile und Zubehör / Spare Parts & Accessories:



Pg.E2

\*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40

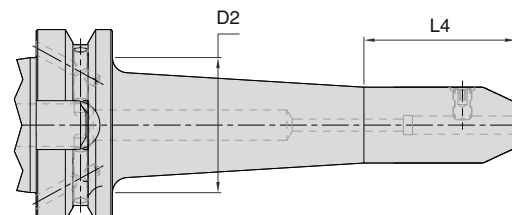
- Bohrungstoleranz H4
- Im Lieferumfang enthalten: Spannschraube
- Höhere Wuchtgüte auf Anfrage

- ❖ Für WSLH/06-160/FBT40, D2=44.6mm & L4=50mm
- Für WSLH/08-160/FBT40, D2=47.6mm & L4=50mm
- Für WSLH/10-160/FBT40, D2=53.3mm & L4=60mm
- Für WSLH/06-160/FBT50, D2=39.5mm & L4=50mm
- Für WSLH/08-160/FBT50, D2=42.4mm & L4=50mm
- Für WSLH/10-160/FBT50, D2=49.4mm & L4=50mm

\*\* 2 locking screws for ID size = 25 / 32 / 40

- Bore tolerance H4
- Delivery includes: Locking screw
- Higher balancing grade on request

- ❖ For WSLH/06-160/FBT40, D2=44.6mm & L4=50mm
- Für WSLH/08-160/FBT40, D2=47.6mm & L4=50mm
- Für WSLH/10-160/FBT40, D2=53.3mm & L4=60mm
- Für WSLH/06-160/FBT50, D2=39.5mm & L4=50mm
- Für WSLH/08-160/FBT50, D2=42.4mm & L4=50mm
- Für WSLH/10-160/FBT50, D2=49.4mm & L4=50mm

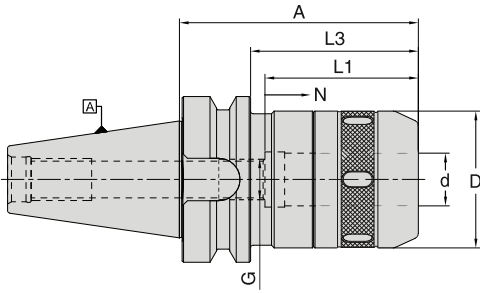




# Hochleistungsfräserspannfutter

## Hi-Power Milling Chuck

BT MAS 403  
ISO7388-2



| FBT30     |           |           |            |            |       |    |                                     |             |                            | ≤ 3µm     | G2.5<br>10000<br>R.P.M. | bar |
|-----------|-----------|-----------|------------|------------|-------|----|-------------------------------------|-------------|----------------------------|-----------|-------------------------|-----|
| d<br>(mm) | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G     | N  | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                         |     |
| 20        | 52        | 90        | 60         | 68         | M12x1 | 15 | Form "AD"                           | 1.45        | WHPMC/20-90/FBT30          | 5131797   |                         |     |
| 25        | 58        | 90        | 70         | 68         | M12x1 | 15 | Form "AD"                           | 1.55        | WHPMC/25-90/FBT30          | 5131819   |                         |     |
| 32        | 66        | 105       | 75         | 83         | M12x1 | 15 | Form "AD"                           | 1.85        | WHPMC/32-105/FBT30         | 5131820   |                         |     |

| FBT40     |           |           |            |            |       |    |                                     |             |                            | ≤ 3µm     | G2.5<br>10000<br>R.P.M. | bar |
|-----------|-----------|-----------|------------|------------|-------|----|-------------------------------------|-------------|----------------------------|-----------|-------------------------|-----|
| d<br>(mm) | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G     | N  | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                         |     |
| 20        | 52        | 90        | 60         | 63         | M12x1 | 15 | Form "AD"                           | 2.35        | WHPMC/20-90/FBT40          | 5131821   |                         |     |
| 25        | 58        | 90        | 70         | 63         | M16x1 | 15 | Form "AD"                           | 2.10        | WHPMC/25-90/FBT40          | 5131822   |                         |     |
| 32        | 66        | 105       | 75         | 78         | M16x1 | 15 | Form "AD"                           | 2.60        | WHPMC/32-105/FBT40         | 5131823   |                         |     |

| FBT50     |           |           |            |            |       |    |                                     |             |                            | ≤ 3µm     | G2.5<br>10000<br>R.P.M. | bar |
|-----------|-----------|-----------|------------|------------|-------|----|-------------------------------------|-------------|----------------------------|-----------|-------------------------|-----|
| d<br>(mm) | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G     | N  | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                         |     |
| 20        | 52        | 90        | 60         | 52         | M12x1 | 15 | Form "AD"                           | 5.55        | WHPMC/20-90/FBT50          | 5131824   |                         |     |
| 25        | 58        | 90        | 60         | 52         | M16x1 | 15 | Form "AD"                           | 4.55        | WHPMC/25-90/FBT50          | 5131825   |                         |     |
| 32        | 66        | 105       | 75         | 67         | M16x1 | 15 | Form "AD"                           | 4.90        | WHPMC/32-105/FBT50         | 5131826   |                         |     |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D12 Pg.D12 Pg.D20

Technische Details siehe Seite F4-F5 / For technical details please refer the instruction manual provided in the packing box or refer page F4-F5

SK DIN 69871  
ISO7388-1

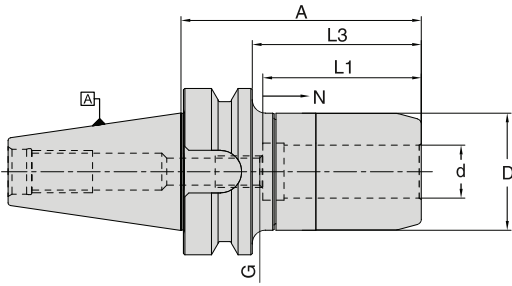
HSK DIN 69893

Zubehör  
Accessories

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

Schlanke Hochleistungsfräserspannfutter  
Slim Hi-Power Milling Chuck



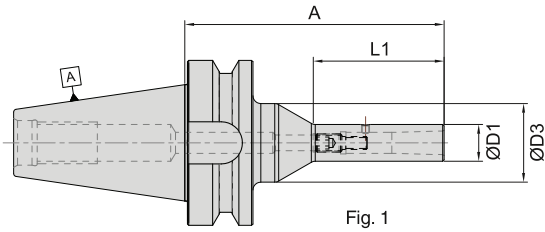
| FBT30     |           |           |            |            |      |    |                                     |             |                            | ≤ 3µm     | G2.5<br>25000<br>R.P.M. | bar |
|-----------|-----------|-----------|------------|------------|------|----|-------------------------------------|-------------|----------------------------|-----------|-------------------------|-----|
| d<br>(mm) | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G    | N  | Kühlmittelezufuhr<br>Coolant Supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                         |     |
| 6         | 25        | 100       | 36         | 78         | -    | 8  | Form "AD"                           | 0,90        | WHPMC/S06-100/FBT30        | 5131827   |                         |     |
| 8         | 25        | 100       | 36         | 78         | -    | 8  | Form "AD"                           | 0,90        | WHPMC/S08-100/FBT30        | 5131828   |                         |     |
| 10        | 30        | 100       | 42         | 78         | M8x1 | 8  | Form "AD"                           | 0,90        | WHPMC/S10-100/FBT30        | 5131830   |                         |     |
| 12        | 30        | 70        | 45         | 48         | M8   | 8  | Form "AD"                           | 0,85        | WHPMC/S12-70/FBT30         | 5131831   |                         |     |
| 12        | 30        | 120       | 45         | 98         | M8   | 8  | Form "AD"                           | 1,20        | WHPMC/S12-120/FBT30        | 5131832   |                         |     |
| 16        | 38        | 70        | 50         | 48         | -    | 10 | Form "AD"                           | 0,80        | WHPMC/S16-70/FBT30         | 5131833   |                         |     |
| 16        | 38        | 120       | 50         | 98         | -    | 10 | Form "AD"                           | 1,20        | WHPMC/S16-120/FBT30        | 5131834   |                         |     |

| FBT40     |           |           |            |            |       |    |                                     |             |                            | ≤ 3µm     | G2.5<br>25000<br>R.P.M. | bar |
|-----------|-----------|-----------|------------|------------|-------|----|-------------------------------------|-------------|----------------------------|-----------|-------------------------|-----|
| d<br>(mm) | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G     | N  | Kühlmittelezufuhr<br>Coolant Supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                         |     |
| 6         | 25        | 100       | 36         | 73         | -     | 8  | Form "AD"                           | 1,70        | WHPMC/S06-100/FBT40        | 5131875   |                         |     |
| 8         | 25        | 100       | 36         | 73         | -     | 8  | Form "AD"                           | 1,70        | WHPMC/S08-100/FBT40        | 5131880   |                         |     |
| 10        | 30        | 100       | 42         | 73         | -     | 8  | Form "AD"                           | 1,70        | WHPMC/S10-100/FBT40        | 5131883   |                         |     |
| 12        | 30        | 70        | 45         | 43         | -     | 8  | Form "AD"                           | 1,55        | WHPMC/S12-70/FBT40         | 5131884   |                         |     |
| 12        | 30        | 120       | 45         | 93         | -     | 8  | Form "AD"                           | 1,85        | WHPMC/S12-120/FBT40        | 5131885   |                         |     |
| 16        | 38        | 70        | 50         | 43         | -     | 10 | Form "AD"                           | 1,45        | WHPMC/S16-70/FBT40         | 5131886   |                         |     |
| 16        | 38        | 120       | 50         | 93         | M8    | 10 | Form "AD"                           | 2,20        | WHPMC/S16-120/FBT40        | 5131887   |                         |     |
| 20        | 44        | 90        | 55         | 63         | M12x1 | 10 | Form "AD"                           | 2,10        | WHPMC/S20-90/FBT40         | 5131889   |                         |     |
| 20        | 44        | 150       | 55         | 123        | -     | 10 | Form "AD"                           | 2,90        | WHPMC/S20-150/FBT40        | 5131890   |                         |     |

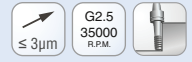
| FBT50     |           |           |            |            |   |    |                                     |             |                            | ≤ 3µm     | G2.5<br>25000<br>R.P.M. | bar |
|-----------|-----------|-----------|------------|------------|---|----|-------------------------------------|-------------|----------------------------|-----------|-------------------------|-----|
| d<br>(mm) | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G | N  | Kühlmittelezufuhr<br>Coolant Supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                         |     |
| 12        | 30        | 90        | 45         | 52         | - | 8  | Form "AD"                           | 4,95        | WHPMC/S12-90/FBT50         | 5131893   |                         |     |
| 12        | 30        | 120       | 45         | 82         | - | 8  | Form "AD"                           | 5,15        | WHPMC/S12-120/FBT50        | 5131894   |                         |     |
| 16        | 38        | 90        | 50         | 52         | - | 10 | Form "AD"                           | 5,20        | WHPMC/S16-90/FBT50         | 5131895   |                         |     |
| 16        | 38        | 120       | 50         | 82         | - | 10 | Form "AD"                           | 5,35        | WHPMC/S16-120/FBT50        | 5131896   |                         |     |
| 20        | 44        | 100       | 55         | 62         | - | 10 | Form "AD"                           | 5,45        | WHPMC/S20-100/FBT50        | 5131897   |                         |     |
| 20        | 44        | 150       | 55         | 112        | - | 10 | Form "AD"                           | 6,00        | WHPMC/S20-150/FBT50        | 5131898   |                         |     |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D13 Pg.D13 Pg.D20

Technische Details siehe Seite F4-F5 / For technical details please refer the instruction manual provided in the packing box or refer page F4-F5



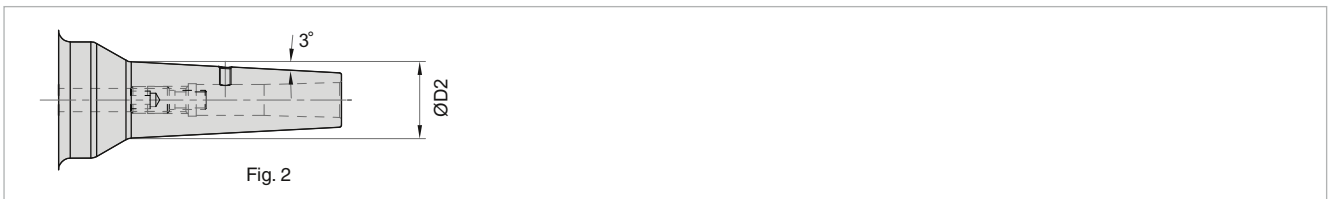
| FBT30                     |                  |           |            |            |            |            |                                    |      |             |                            |           |
|---------------------------|------------------|-----------|------------|------------|------------|------------|------------------------------------|------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | A<br>(mm) | L1<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | Fig. | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| MC10                      | 3-4              | 90        | 45         | 10         | -          | 22         | Form "AD"                          | 1    | 0,45        | WMCH/D10-90/FBT30          | 5153133   |
| MC14                      | 3-6              | 90        | 40         | 14         | -          | 30         | Form "AD"                          | 1    | 0,55        | WMCH/D14-90/FBT30          | 5153134   |
| MC14                      | 3-6              | 120       | 70         | 14         | 21.3       | 30         | Form "AD"                          | 2    | 0,65        | WMCH/D14-120/FBT30         | 5153135   |



| FBT40                     |                  |           |            |            |            |            |                                    |      |             |                            |           |
|---------------------------|------------------|-----------|------------|------------|------------|------------|------------------------------------|------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | A<br>(mm) | L1<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | Fig. | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| MC14                      | 3-6              | 90        | 40         | 14         | -          | 30         | Form "AD"                          | 1    | 0,55        | WMCH/D14-90/FBT40          | 5153136   |
| MC14                      | 3-6              | 120       | 70         | 14         | 21.3       | 30         | Form "AD"                          | 2    | 1,20        | WMCH/D14-120/FBT40         | 5153138   |



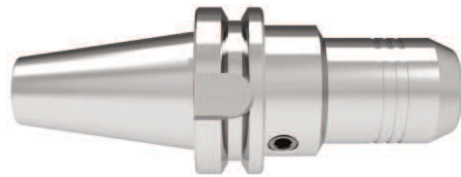
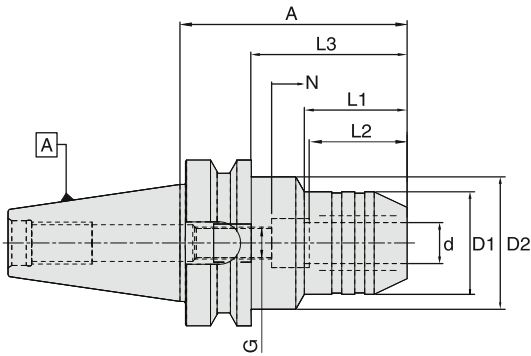
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20 Pg.D16 Pg.D16 Pg.D16



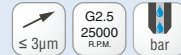
Für Technische Details siehe Seite F8 / For technical details please refer page F8 and also the instruction manual provided in the packing box.

# Hydrodehnspannfutter

## Hydraulic expansion chuck



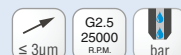
| FBT30  |    |         |         |      |    |    |         |    |          |                                    |                            |           |
|--------|----|---------|---------|------|----|----|---------|----|----------|------------------------------------|----------------------------|-----------|
| d (mm) | A  | D1 (mm) | D2 (mm) | L1   | L2 | L3 | G       | N  | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 06     | 70 | 26      | 44.5    | 29.5 | 27 | 48 | M5X0.8  | 10 | 0.65     | Form "AD"                          | WHEC/06-70/FBT30           | 5131900   |
| 08     | 70 | 28      | 44.5    | 30.0 | 27 | 48 | M6X1.0  | 10 | 0.65     | Form "AD"                          | WHEC/08-70/FBT30           | 5131901   |
| 10     | 75 | 30      | 44.5    | 31.0 | 32 | 53 | M8X1.0  | 10 | 0.73     | Form "AD"                          | WHEC/10-75/FBT30           | 5131902   |
| 12     | 85 | 32      | 45.0    | 45.0 | 37 | 63 | M10X1.0 | 10 | 0.80     | Form "AD"                          | WHEC/12-85/FBT30           | 5131903   |
| 14     | 85 | 34      | 45.0    | 45.0 | 37 | 63 | M10X1.0 | 10 | 0.80     | Form "AD"                          | WHEC/14-85/FBT30           | 5131904   |
| 16     | 90 | 38      | 45.0    | 50.0 | 42 | 68 | M12X1.0 | 10 | 0.90     | Form "AD"                          | WHEC/16-90/FBT30           | 5131905   |
| 20     | 90 | 42      | 45.0    | 50.0 | 42 | 68 | M16X1.0 | 10 | 0.90     | Form "AD"                          | WHEC/20-90/FBT30           | 5131906   |



| FBT40  |     |         |         |      |    |    |         |    |          |                                    |                            |           |
|--------|-----|---------|---------|------|----|----|---------|----|----------|------------------------------------|----------------------------|-----------|
| d (mm) | A   | D1 (mm) | D2 (mm) | L1   | L2 | L3 | G       | N  | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 06     | 90  | 26      | 44.5    | 43.0 | 27 | 63 | M5X0.8  | 10 | 1.30     | Form "AD"                          | WHEC/06-90/FBT40           | 5131908   |
| 08     | 90  | 28      | 44.5    | 44.5 | 27 | 63 | M6X1.0  | 10 | 1.30     | Form "AD"                          | WHEC/08-90/FBT40           | 5131909   |
| 10     | 90  | 30      | 44.5    | 44.5 | 32 | 63 | M8X1.0  | 10 | 1.35     | Form "AD"                          | WHEC/10-90/FBT40           | 5132040   |
| 12     | 90  | 32      | 44.5    | 44.5 | 37 | 63 | M10X1.0 | 10 | 1.35     | Form "AD"                          | WHEC/12-90/FBT40           | 5132041   |
| 14     | 90  | 34      | 44.5    | 44.5 | 37 | 63 | M10X1.0 | 10 | 1.35     | Form "AD"                          | WHEC/14-90/FBT40           | 5132042   |
| 16     | 90  | 38      | 44.5    | 47.5 | 42 | 63 | M12X1.0 | 10 | 1.40     | Form "AD"                          | WHEC/16-90/FBT40           | 5132043   |
| 18     | 90  | 40      | 44.5    | 47.5 | 42 | 63 | M12X1.0 | 10 | 1.45     | Form "AD"                          | WHEC/18-90/FBT40           | 5132044   |
| 20     | 90  | 42      | 44.5    | 47.5 | 42 | 63 | M16X1.0 | 10 | 1.50     | Form "AD"                          | WHEC/20-90/FBT40           | 5132045   |
| 25     | 100 | 50      | 60.0    | 47.5 | 48 | 73 | M16X1.0 | 10 | 1.70     | Form "AD"                          | WHEC/25-100/FBT40          | 5132046   |
| 32     | 105 | 60      |         |      | 55 | 78 | M16X1.0 | 10 | 2.10     | Form "AD"                          | WHEC/32-105/FBT40          | 5132048   |

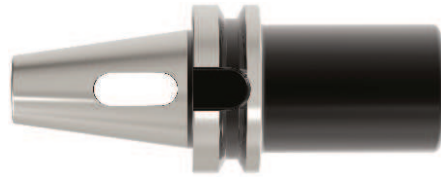
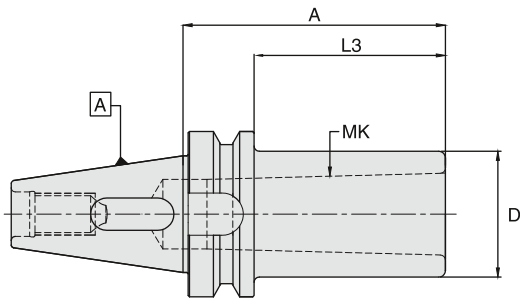


| FBT50  |     |         |         |      |    |    |         |    |          |                                    |                            |           |
|--------|-----|---------|---------|------|----|----|---------|----|----------|------------------------------------|----------------------------|-----------|
| d (mm) | A   | D1 (mm) | D2 (mm) | L1   | L2 | L3 | G       | N  | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 06     | 90  | 26      | 44.5    | 34.0 | 27 | 52 | M5X0.8  | 10 | 3.75     | Form "AD"                          | WHEC/06-90/FBT50           | 5132049   |
| 08     | 90  | 28      | 44.5    | 34.0 | 27 | 52 | M6X1.0  | 10 | 3.75     | Form "AD"                          | WHEC/08-90/FBT50           | 5132050   |
| 10     | 90  | 30      | 44.5    | 34.0 | 32 | 52 | M8X1.0  | 10 | 3.90     | Form "AD"                          | WHEC/10-90/FBT50           | 5132051   |
| 12     | 90  | 32      | 44.5    | 34.0 | 37 | 52 | M10X1.0 | 10 | 3.90     | Form "AD"                          | WHEC/12-90/FBT50           | 5132052   |
| 14     | 90  | 34      | 44.5    | 34.0 | 37 | 52 | M10X1.0 | 10 | 3.90     | Form "AD"                          | WHEC/14-90/FBT50           | 5132053   |
| 16     | 90  | 38      | 44.5    | 34.0 | 42 | 52 | M12X1.0 | 10 | 4.00     | Form "AD"                          | WHEC/16-90/FBT50           | 5132054   |
| 18     | 90  | 40      | 44.5    | 34.0 | 42 | 52 | M12X1.0 | 10 | 4.00     | Form "AD"                          | WHEC/18-90/FBT50           | 5132055   |
| 20     | 90  | 42      | 44.5    | 34.0 | 42 | 52 | M16X1.0 | 10 | 4.00     | Form "AD"                          | WHEC/20-90/FBT50           | 5132056   |
| 25     | 105 | 57      | 63.0    | 52.0 | 48 | 67 | M16X1.0 | 10 | 4.40     | Form "AD"                          | WHEC/25-105/FBT50          | 5132057   |
| 32     | 115 | 64      | 75.0    | 62.0 | 55 | 77 | M16X1.0 | 10 | 4.70     | Form "AD"                          | WHEC/32-115/FBT50          | 5132058   |



Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D14 Pg.D20

Zwischenhülsen für Morse-Kegel mit Austreibblappen DIN 6383  
Adaptor sleeves for Morse taper with tang to DIN 6383



| FBT30 |        |        |         |                                     |          |                            |           |
|-------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| MK    | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1     | 25     | 45     | 23      | -                                   | 1.1      | WMTA/MT1-45/FBT30          | 5132139   |
| 2     | 32     | 60     | 38      | -                                   | 1.2      | WMTA/MT2-60/FBT30          | 5132140   |
| 3     | 40     | 75     | 53      | -                                   | 1.3      | WMTA/MT3-75/FBT30          | 5132142   |

≤ 10µm G2.5  
18000 RPM

| FBT40 |        |        |         |                                     |          |                            |           |
|-------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| MK    | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1     | 25     | 50     | 23      | -                                   | 1.20     | WMTA/MT1-50/FBT40          | 5132143   |
| 2     | 32     | 50     | 23      | -                                   | 1.20     | WMTA/MT2-50/FBT40          | 5132144   |
| 3     | 40     | 70     | 43      | -                                   | 1.30     | WMTA/MT3-70/FBT40          | 5132145   |
| 4     | 48     | 95     | 68      | -                                   | 1.50     | WMTA/MT4-95/FBT40          | 5132146   |

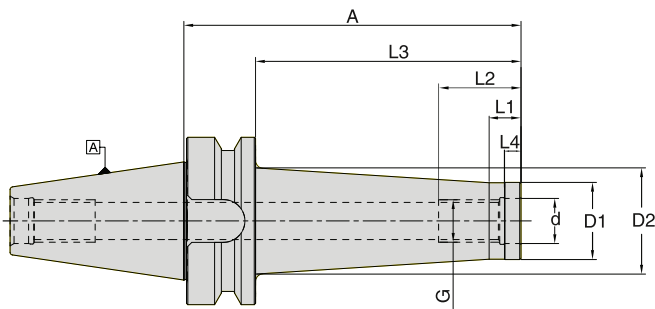
≤ 10µm G2.5  
18000 RPM

| FBT50 |        |        |         |                                     |          |                            |           |
|-------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| MK    | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1     | 25     | 45     | 7       | -                                   | 3.65     | WMTA/MT1-45/FBT50          | 5132229   |
| 2     | 32     | 60     | 22      | -                                   | 3.70     | WMTA/MT2-60/FBT50          | 5132230   |
| 3     | 40     | 65     | 27      | -                                   | 3.70     | WMTA/MT3-65/FBT50          | 5132231   |
| 4     | 48     | 95     | 57      | -                                   | 3.90     | WMTA/MT4-95/FBT50          | 5132233   |
| 5     | 70     | 105    | 67      | -                                   | 4.20     | WMTA/MT5-105/FBT50         | 5132237   |

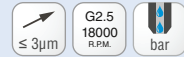
≤ 10µm G2.5  
18000 RPM

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20

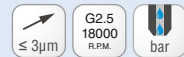
Aufnahme für Einschraubfräser  
Chuck for threaded milling heads



| FBT40 |        |         |         |        |         |         |         |         |                                     |          |                            |           |
|-------|--------|---------|---------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| G     | d (mm) | D1 (mm) | D2 (mm) | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| M8    | 8.5    | 13.8    | 23      | 77     | 12      | 19      | 50      | 6.5     | Form "AD"                           | 1.1      | WTA/M8-77/FBT40            | 5132238   |
| M8    | 8.5    | 13.8    | 25      | 102    | 12      | 19      | 75      | 6.5     | Form "AD"                           | 1.3      | WTA/M8-102/FBT40           | 5132239   |
| M10   | 10.5   | 18.0    | 25      | 77     | 12      | 19      | 50      | 6.5     | Form "AD"                           | 1.2      | WTA/M10-77/FBT40           | 5132240   |
| M10   | 10.5   | 18.0    | 30      | 102    | 12      | 19      | 75      | 6.5     | Form "AD"                           | 1.3      | WTA/M10-102/FBT40          | 5132241   |
| M12   | 12.5   | 21.0    | 30      | 77     | 12      | 25      | 50      | 7.0     | Form "AD"                           | 1.2      | WTA/M12-77/FBT40           | 5132242   |
| M12   | 12.5   | 21.0    | 35      | 102    | 12      | 25      | 75      | 7.0     | Form "AD"                           | 1.3      | WTA/M12-102/FBT40          | 5132243   |
| M12   | 12.5   | 21.0    | 38      | 127    | 12      | 25      | 100     | 7.0     | Form "AD"                           | 1.5      | WTA/M12-127/FBT40          | 5132244   |
| M16   | 17.0   | 29.0    | 34      | 77     | 12      | 31      | 50      | 8.0     | Form "AD"                           | 1.2      | WTA/M16-77/FBT40           | 5132245   |
| M16   | 17.0   | 29.0    | 35      | 102    | 12      | 31      | 75      | 8.0     | Form "AD"                           | 1.4      | WTA/M16-102/FBT40          | 5132246   |
| M16   | 17.0   | 29.0    | 40      | 127    | 12      | 31      | 100     | 8.0     | Form "AD"                           | 1.6      | WTA/M16-127/FBT40          | 5132247   |



| FBT50 |        |         |         |        |         |         |         |         |                                     |          |                            |           |
|-------|--------|---------|---------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| G     | d (mm) | D1 (mm) | D2 (mm) | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| M12   | 12.5   | 21.0    | 35      | 88     | 12      | 25      | 50      | 7.0     | Form "AD"                           | 3.9      | WTA/M12-88/FBT50           | 5132248   |
| M16   | 17.0   | 29.0    | 35      | 88     | 12      | 31      | 50      | 8.0     | Form "AD"                           | 3.9      | WTA/M16-88/FBT50           | 5132249   |



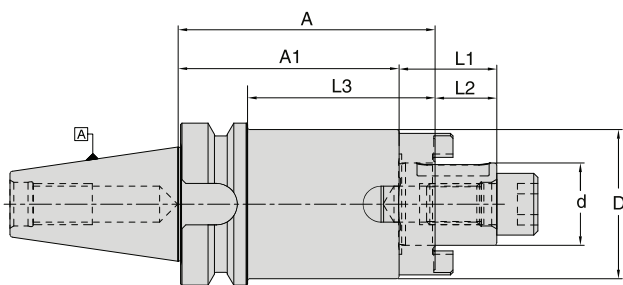
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D20

Siehe Seite D15 für Einschraubfräser Verlängerung & Reduzierung

Refer page. D15 for Threaded Arbor extensions & reductions.



Aufsteckfräserdorn DIN 6358 mit Längs- und Quernut (Kombination)  
Shell mill holder with DIN 6358 (Combination)



| FBT30  |        |        |         |         |         |         |                                     |          |                            |           |
|--------|--------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 32     | 45     | 35      | 27      | 17      | 23      | -                                   | 0.75     | WFSH/16-45/FBT30 *         | 5132301   |
| 22     | 40     | 47     | 35      | 31      | 19      | 25      | -                                   | 0.85     | WFSH/22-47/FBT30 *         | 5132302   |
| 27     | 46     | 49     | 37      | 33      | 21      | 27      | -                                   | 1.00     | WFSH/27-49/FBT30 *         | 5132303   |

≤ 5µm G2.5  
18000  
R.P.M.

| FBT40  |        |        |         |         |         |         |                                     |          |                            |           |
|--------|--------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 32     | 55     | 45      | 27      | 17      | 28      | -                                   | 1.25     | WFSH/16-55/FBT40           | 5132304   |
| 22     | 40     | 55     | 43      | 31      | 19      | 28      | -                                   | 1.40     | WFSH/22-55/FBT40           | 5132305   |
| 27     | 48     | 55     | 43      | 33      | 21      | 28      | -                                   | 1.65     | WFSH/27-55/FBT40           | 5132306   |
| 32     | 58     | 60     | 46      | 38      | 24      | 33      | -                                   | 2.00     | WFSH/32-60/FBT40           | 5132307   |
| 40     | 70     | 60     | 46      | 41      | 27      | 33      | -                                   | 2.30     | WFSH/40-60/FBT40 **        | 5132308   |
| 16     | 32     | 100    | 90      | 27      | 17      | 73      | -                                   | 1.60     | WFSH/16-100/FBT40          | 5132309   |
| 22     | 40     | 100    | 88      | 31      | 19      | 73      | -                                   | 1.85     | WFSH/22-100/FBT40          | 5132312   |
| 27     | 48     | 100    | 88      | 33      | 21      | 73      | -                                   | 2.30     | WFSH/27-100/FBT40          | 5132313   |
| 32     | 58     | 100    | 86      | 38      | 24      | 73      | -                                   | 2.70     | WFSH/32-100/FBT40          | 5132314   |
| 40     | 70     | 100    | 86      | 41      | 27      | 73      | -                                   | 3.50     | WFSH/40-100/FBT40 **       | 5132315   |

≤ 5µm G2.5  
18000  
R.P.M.

| FBT50  |        |        |         |         |         |         |                                     |          |                            |           |
|--------|--------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 32     | 70     | 60      | 27      | 17      | 32      | -                                   | 4.00     | WFSH/16-70/FBT50           | 5132399   |
| 22     | 40     | 70     | 58      | 31      | 19      | 32      | -                                   | 4.20     | WFSH/22-70/FBT50           | 5132401   |
| 27     | 48     | 70     | 58      | 33      | 21      | 32      | -                                   | 4.35     | WFSH/27-70/FBT50           | 5132402   |
| 32     | 58     | 70     | 56      | 38      | 24      | 32      | -                                   | 4.70     | WFSH/32-70/FBT50           | 5132403   |
| 40     | 70     | 70     | 56      | 41      | 27      | 32      | -                                   | 5.05     | WFSH/40-70/FBT50 **        | 5132404   |

≤ 5µm G2.5  
18000  
R.P.M.

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E3 Pg.E4 Pg.E3 Pg.D21 Pg.D20

- Im Lieferumfang enthalten: Passfeder, Mitnehmerring, Fräseranzugschraube und Spannschrauben (DIN 912)
- \* Im Lieferumfang enthalten: Spannschrauben (DIN 912 & DIN 6367)
- \*\* Im Lieferumfang enthalten: Spannschrauben (DIN 6367)
- Delivery includes: Parallel key, drive ring, clamping screw and locking screw (DIN 912)
- \* Delivery includes: Locking screw (DIN 912 & DIN 6367)
- \*\* Delivery includes: Locking screw (DIN 6367)

Aufnahmedorn mit Innenzentrierung DIN 6357 mit vergrößertem Bunddurchmesser  
Shell mill holder DIN 6357 for cutters with drive key

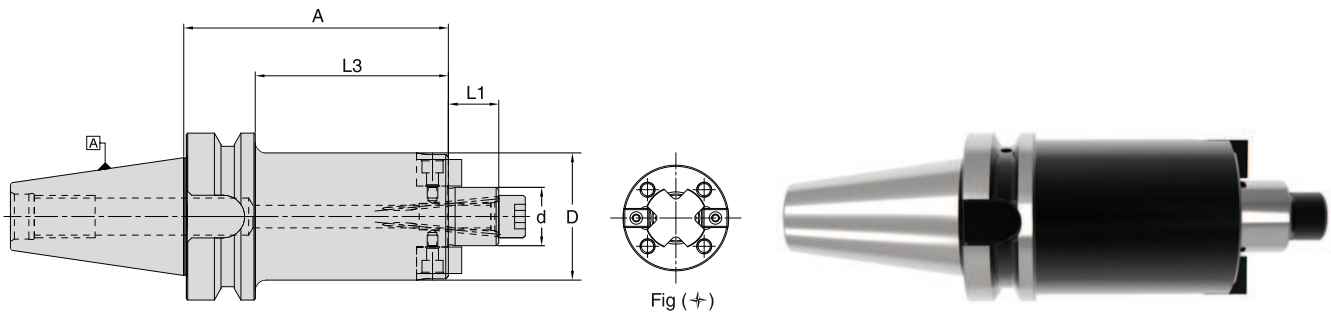


Fig (+)

|       |  |  |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|--|--|
| FBT30 |  |  |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|--|--|

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| 16     | 38     | 40     | 17      | 18      | Form "AD"                           | 0.70     | WSMH/16-40/FBT30*          | 5132405   |
| 22     | 48     | 40     | 19      | 18      | Form "AD"                           | 0.85     | WSMH/22-40/FBT30*          | 5132406   |
| 27     | 58     | 40     | 21      | 18      | Form "AD"                           | 1.00     | WSMH/27-40/FBT30*          | 5132407   |
| 32     | 78     | 50     | 24      | 28      | Form "AD"                           | 1.00     | WSMH/32-50/FBT30*          | 5132408   |

|       |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|
| FBT40 |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| 16     | 38     | 40     | 17      | 13      | Form "AD"                           | 1.20     | WSMH/16-40/FBT40           | 5132414   |
| 22     | 48     | 40     | 19      | 13      | Form "AD"                           | 1.30     | WSMH/22-40/FBT40           | 5132415   |
| 27     | 58     | 40     | 21      | 13      | Form "AD"                           | 1.55     | WSMH/27-40/FBT40           | 5132416   |
| 32     | 78     | 50     | 24      | 23      | Form "AD"                           | 1.95     | WSMH/32-50/FBT40           | 5132418   |
| 40     | 88     | 50     | 27      | 23      | Form "AD"                           | 2.45     | WSMH/40-50/FBT40+          | 5132427   |
| 16     | 38     | 100    | 17      | 73      | Form "AD"                           | 1.70     | WSMH/16-100/FBT40          | 5132431   |
| 22     | 48     | 100    | 19      | 73      | Form "AD"                           | 2.20     | WSMH/22-100/FBT40          | 5132433   |
| 27     | 58     | 100    | 21      | 73      | Form "AD"                           | 2.70     | WSMH/27-100/FBT40          | 5132544   |
| 32     | 78     | 100    | 24      | 73      | Form "AD"                           | 3.80     | WSMH/32-100/FBT40          | 5132546   |
| 40     | 88     | 100    | 27      | 73      | Form "AD"                           | 4.65     | WSMH/40-100/FBT40+         | 5132547   |
| 16     | 38     | 160    | 17      | 133     | Form "AD"                           | 2.20     | WSMH/16-160/FBT40          | 5132548   |
| 22     | 48     | 160    | 19      | 133     | Form "AD"                           | 2.95     | WSMH/22-160/FBT40          | 5132549   |
| 27     | 58     | 160    | 21      | 133     | Form "AD"                           | 3.90     | WSMH/27-160/FBT40          | 5132550   |
| 32     | 78     | 160    | 24      | 133     | Form "AD"                           | 5.90     | WSMH/32-160/FBT40          | 5132551   |
| 40     | 88     | 160    | 27      | 133     | Form "AD"                           | 7.45     | WSMH/40-160/FBT40+         | 5132553   |

|       |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|
| FBT50 |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| 16     | 38     | 63     | 17      | 25      | Form "AD"                           | 3.85     | WSMH/16-63/FBT50           | 5132554   |
| 22     | 48     | 63     | 19      | 25      | Form "AD"                           | 4.00     | WSMH/22-63/FBT50           | 5132555   |
| 27     | 58     | 63     | 21      | 25      | Form "AD"                           | 4.30     | WSMH/27-63/FBT50           | 5132556   |
| 32     | 78     | 60     | 24      | 22      | Form "AD"                           | 4.50     | WSMH/32-60/FBT50           | 5132557   |
| 40     | 88     | 60     | 27      | 22      | Form "AD"                           | 5.10     | WSMH/40-60/FBT50+          | 5132558   |
| 60     | 129    | 80     | 40      | 42      | -                                   | 8.80     | WSMH/60-80/FBT50+          | 5132559   |
| 16     | 38     | 100    | 17      | 62      | Form "AD"                           | 4.25     | WSMH/16-100/FBT50          | 5126640   |
| 22     | 48     | 100    | 19      | 62      | Form "AD"                           | 4.60     | WSMH/22-100/FBT50          | 5126641   |
| 27     | 58     | 100    | 21      | 62      | Form "AD"                           | 5.10     | WSMH/27-100/FBT50          | 5126643   |
| 32     | 78     | 100    | 24      | 62      | Form "AD"                           | 6.30     | WSMH/32-100/FBT50          | 5126644   |
| 40     | 88     | 100    | 27      | 62      | Form "AD"                           | 6.80     | WSMH/40-100/FBT50+         | 5126645   |
| 16     | 38     | 160    | 17      | 122     | Form "AD"                           | 4.70     | WSMH/16-160/FBT50          | 5126646   |
| 22     | 48     | 160    | 19      | 122     | Form "AD"                           | 5.40     | WSMH/22-160/FBT50          | 5126647   |
| 27     | 58     | 160    | 21      | 122     | Form "AD"                           | 6.30     | WSMH/27-160/FBT50          | 5126648   |
| 32     | 78     | 160    | 24      | 122     | Form "AD"                           | 8.40     | WSMH/32-160/FBT50          | 5126649   |
| 40     | 88     | 160    | 27      | 122     | Form "AD"                           | 9.65     | WSMH/40-160/FBT50+         | 5126650   |

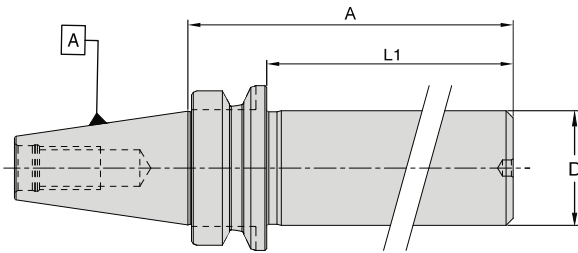
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D21 Pg.E3 Pg.E4 Pg.E4 Pg.D20

- + d = Ø 40, Ø 60 Mit 4 zusätzlichen Gewindebohrungen nach DIN 2079
- Im Lieferumfang enthalten: Mitnehmersteine, Fräseranzugsschraube und Spannschrauben (DIN 912)
- \* Im Lieferumfang enthalten: Spannschrauben (DIN 912 & DIN 6367)
- + d = Ø 40, Ø 60 with additional 4 screw holes to DIN 2079 and with locking screw (DIN 6367) for Ø40
- Delivery includes: Drive keys, clamping screw and locking screw (DIN 912)
- \* Delivery includes: Locking screw (both DIN 912 & DIN 6367)

Kontrolldorn  
Test Arbor



BT MAS 403  
ISO7388-2



**FBT30**

| D (mm) | A (mm) | L1 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| 32     | 230    | 208     | -                                   | 1.68     | WTMM/32-230/FBT30          | 5126651   |

**FBT40**

| D (mm) | A (mm) | L1 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| 40     | 330    | 303     | -                                   | 4.10     | WTMM/40-330/FBT40          | 5126652   |

**FBT50**

| D (mm) | A (mm) | L1 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| 50     | 330    | 292     | -                                   | 7.60     | WTMM/50-330/FBT50          | 5126654   |

- Diese Dorne haben keinen Bund
- Kontrolldorne im Holzkasten geliefert

- These gauge are without flange
- Delivered in wooden box

SK DIN 69871  
ISO7388-1

HSK DIN 69893

Zubehör  
Accessories

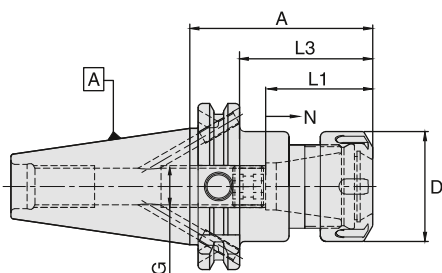
Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

|  |           |
|--|-----------|
| Spannzangenfutter ER<br>Collet chuck ER  | B2 - B3   |
| Super collet Spannzangenfutter<br>Super collet chuck                                 | B4        |
| Fräseraufnahmen (Weldon & Whistle Notch)<br>End mill holder (Weldon & Whistle Notch) | B5 - B8   |
| Hochleistungsfräuserspannfutter<br>Hi-power milling chuck                            | B9        |
| Schlanke Hochleistungsfräuserspannfutter<br>Slim Hi-power milling chuck              | B10       |
| Micro-Spannzangenhalter<br>Micro collet holder                                       | B11       |
| Hydrodehnspannfutter<br>Hydraulic expansion chuck                                    | B11 - B12 |
| NC Bohrfutter<br>NC Drill chuck  | B13       |
| Aufnahmen für Morse-Kegel<br>Morse taper holder (with thread & tang)                 | B13 - B14 |
| Aufnahmen für Einschraubfräser<br>Chuck for threaded milling heads                   | B15       |
| Kombi-Aufsteckfräserdorne<br>Combi shell mill holder                                 | B16       |
| Messerkopf-Aufnahme<br>Shell mill holder   | B17       |
| Reduzierhülsen<br>Reduction Sleeves  | B18       |
| Bohrstangenrohlinge<br>Boring bar blanks   | B18       |
| Kontrolldorn<br>Test Arbor   | B19       |

# Spannzangenfutter Typ ER für Spannzangen DIN 6499

## Collet chuck Type ER for collets to DIN 6499

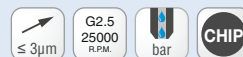


### SK30



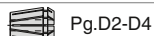
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G   | N  | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|------------------|-----------|-----------|------------|------------|-----|----|-------------------------------------|-------------|----------------------------|-----------|
| ER16                      | 1-10             | 28        | 70        | 32.5       | 50.9       | M10 | 12 | Form "AD"                           | 0.60        | WCCH/ER16-70/SK30          | 6733310   |
| ER25                      | 2-16             | 42        | 70        | 41.0       | 50.9       | M12 | 12 | Form "AD"                           | 0.75        | WCCH/ER25-70/SK30          | 4600545   |
| ER32                      | 2-20             | 50        | 70        | 47.0       | 50.9       | M12 | 12 | Form "AD"                           | 0.75        | WCCH/ER32-70/SK30          | 4600547   |
| ER16                      | 1-10             | 28        | 100       | 32.5       | 80.9       | M10 | 12 | Form "AD"                           | 0.70        | WCCH/ER16-100/SK30         | 6733311   |
| ER25                      | 2-16             | 42        | 100       | 41.0       | 80.9       | M12 | 12 | Form "AD"                           | 1.10        | WCCH/ER25-100/SK30         | 4600546   |
| ER32                      | 2-20             | 50        | 100       | 47.0       | 80.9       | M12 | 12 | Form "AD"                           | 1.10        | WCCH/ER32-100/SK30         | 4600548   |

### SK40



| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G       | N  | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|------------------|-----------|-----------|------------|------------|---------|----|-------------------------------------|-------------|----------------------------|-----------|
| ER16                      | 1-10             | 28        | 70        | 32.5       | 50.9       | M10     | 12 | Form "AD/B"                         | 1.00        | WCCH/ER16-70/SK40          | 6733316   |
| ER20                      | 1-13             | 34        | 70        | 38.0       | 50.9       | M12     | 12 | Form "AD/B"                         | 1.10        | WCCH/ER20-70/SK40          | 6733319   |
| ER25                      | 2-16             | 42        | 70        | 41.0       | 50.9       | M16     | 12 | Form "AD/B"                         | 1.30        | WCCH/ER25-70/SK40          | 6733322   |
| ER32                      | 2-20             | 50        | 70        | 47.0       | 50.9       | M22X1.5 | 12 | Form "AD/B"                         | 1.30        | WCCH/ER32-70/SK40          | 6733325   |
| ER40                      | 3-26             | 63        | 80        | 58.5       | 60.9       | M22X1.5 | 12 | Form "AD/B"                         | 1.45        | WCCH/ER40-80/SK40          | 6733328   |
| ER16                      | 1-10             | 28        | 100       | 32.5       | 80.9       | M10     | 12 | Form "AD/B"                         | 1.45        | WCCH/ER16-100/SK40         | 6733317   |
| ER20                      | 1-13             | 34        | 100       | 38.0       | 80.9       | M12     | 12 | Form "AD/B"                         | 1.30        | WCCH/ER20-100/SK40         | 6733320   |
| ER25                      | 2-16             | 42        | 100       | 41.0       | 80.9       | M16     | 12 | Form "AD/B"                         | 1.45        | WCCH/ER25-100/SK40         | 6733323   |
| ER32                      | 2-20             | 50        | 100       | 47.0       | 80.9       | M22X1.5 | 12 | Form "AD/B"                         | 1.65        | WCCH/ER32-100/SK40         | 6733326   |
| ER40                      | 3-26             | 63        | 100       | 58.5       | 80.9       | M22X1.5 | 12 | Form "AD/B"                         | 1.80        | WCCH/ER40-100/SK40         | 6733329   |
| ER16                      | 1-10             | 28        | 160       | 32.5       | 140.9      | M10     | 12 | Form "AD/B"                         | 1.50        | WCCH/ER16-160/SK40         | 4600735   |
| ER20                      | 1-13             | 34        | 160       | 38.0       | 140.9      | M12     | 12 | Form "AD/B"                         | 1.70        | WCCH/ER20-160/SK40         | 5055182   |
| ER25                      | 2-16             | 42        | 160       | 41.0       | 140.9      | M16     | 12 | Form "AD/B"                         | 2.00        | WCCH/ER25-160/SK40         | 4600738   |
| ER32                      | 2-20             | 50        | 160       | 47.0       | 140.9      | M22X1.5 | 12 | Form "AD/B"                         | 2.40        | WCCH/ER32-160/SK40         | 4600741   |
| ER40                      | 3-26             | 63        | 160       | 58.5       | 140.9      | M22X1.5 | 12 | Form "AD/B"                         | 2.55        | WCCH/ER40-160/SK40         | 4600744   |

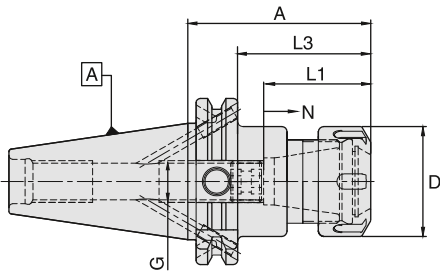
Ersatzteile und Zubehör / Spare Parts & Accessories:



- Datenträger-Bohrung (10 mm) Standard bei allen Grundhaltern
- Im Lieferumfang enthalten: Spannmutter (gewuchtet) und Einstellschraube
- Höhere Wuchtgüte auf Anfrage
- Innere Kühlmittelzufuhr auf Anfrage

- Data carrier bore (10 mm) as standard for all holders
- Delivery includes: Clamping nut (balanced) & adjusting screw
- Higher balancing grade on request
- Coolant nut based IRC on request

Spannzangenfutter Typ ER für Spannzangen DIN 6499  
Collet chuck Type ER for collets to DIN 6499



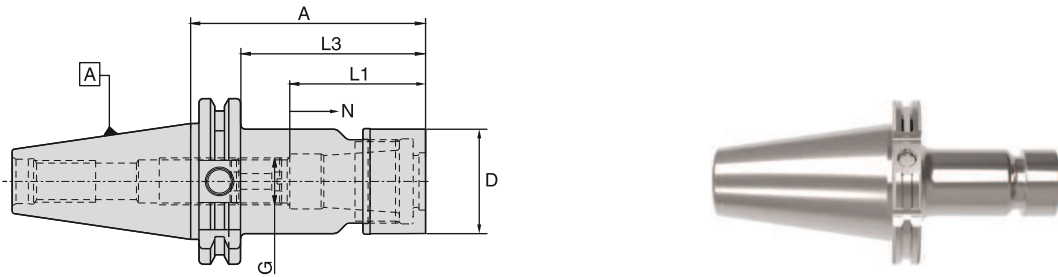
| SK50                      |                  |           |           |            |            |         |    |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|---------|----|------------------------------------|-------------|----------------------------|-----------|
|                           |                  |           |           |            |            |         |    |                                    |             |                            |           |
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G       | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER16                      | 1-10             | 28        | 63        | 32.5       | 43.9       | M10     | 12 | Form "AD/B"                        | 2.80        | WCCH/ER16-63/SK50          | 5055191   |
| ER20                      | 1-13             | 34        | 70        | 38         | 50.9       | M12     | 12 | Form "AD/B"                        | 2.90        | WCCH/ER20-70/SK50          | 5055192   |
| ER25                      | 2-16             | 42        | 70        | 41         | 50.9       | M16     | 12 | Form "AD/B"                        | 2.95        | WCCH/ER25-70/SK50          | 4601279   |
| ER32                      | 2-20             | 50        | 70        | 47         | 50.9       | M22X1.5 | 12 | Form "AD/B"                        | 2.95        | WCCH/ER32-70/SK50          | 4601282   |
| ER40                      | 3-26             | 63        | 80        | 58.5       | 60.9       | M22X1.5 | 12 | Form "AD/B"                        | 3.20        | WCCH/ER40-80/SK50          | 4601285   |
| ER16                      | 1-10             | 28        | 100       | 32.5       | 80.9       | M10     | 12 | Form "AD/B"                        | 2.95        | WCCH/ER16-100/SK50         | 4601277   |
| ER20                      | 1-13             | 34        | 100       | 38         | 80.9       | M12     | 12 | Form "AD/B"                        | 3.10        | WCCH/ER20-100/SK50         | 5055194   |
| ER25                      | 2-16             | 42        | 100       | 41         | 80.9       | M16     | 12 | Form "AD/B"                        | 3.20        | WCCH/ER25-100/SK50         | 4601280   |
| ER32                      | 2-20             | 50        | 100       | 47         | 80.9       | M22X1.5 | 12 | Form "AD/B"                        | 3.40        | WCCH/ER32-100/SK50         | 4601283   |
| ER40                      | 3-26             | 63        | 100       | 58.5       | 80.9       | M22X1.5 | 12 | Form "AD/B"                        | 3.50        | WCCH/ER40-100/SK50         | 4601286   |
| ER16                      | 1-10             | 28        | 160       | 32.5       | 140.9      | M10     | 12 | Form "AD/B"                        | 4.10        | WCCH/ER16-160/SK50         | 4601278   |
| ER20                      | 1-13             | 34        | 160       | 38         | 140.9      | M12     | 12 | Form "AD/B"                        | 3.75        | WCCH/ER20-160/SK50         | 5055195   |
| ER25                      | 2-16             | 42        | 160       | 41         | 140.9      | M16     | 12 | Form "AD/B"                        | 3.85        | WCCH/ER25-160/SK50         | 4601281   |
| ER32                      | 2-20             | 50        | 160       | 47         | 140.9      | M22X1.5 | 12 | Form "AD/B"                        | 4.20        | WCCH/ER32-160/SK50         | 4601284   |
| ER40                      | 3-26             | 63        | 160       | 58.5       | 140.9      | M22X1.5 | 12 | Form "AD/B"                        | 4.30        | WCCH/ER40-160/SK50         | 4601287   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D19 Pg.D2-D4 Pg.D5 Pg.D7

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Datenträger-Bohrung (10mm) Standard bei allen Grundhaltern</li> <li>• Im Lieferumfang enthalten: Spannmutter (gewuchtet) und Einstellschraube</li> <li>• Höhere Wuchtgüte auf Anfrage</li> <li>• Innere Kühlmittelzufuhr auf Anfrage</li> </ul> | <ul style="list-style-type: none"> <li>• Data carrier bore (10 mm) as standard for all holders</li> <li>• Delivery includes: Clamping nut (balanced) &amp; adjusting screw</li> <li>• Higher balancing grade on request</li> <li>• Coolant nut based IRC on request</li> </ul> |
|--|--|



Super collet Spannzangenfutter  
Super collet chuck



| SK40                      |                  |           |           |            |            |           |           |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|-------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| SC06                      | 2-6              | 19.5      | 90        | 31.5       | 70.9       | M8 x1     | 12        | Form "AD"                           | 1,05        | WSCH/SCF06-90/SK40         | 5102046   |
| SC06                      | 2-6              | 19.5      | 120       | 31.5       | 100.9      | M8 x1     | 12        | Form "AD"                           | 1,10        | WSCH/SCF06-120/SK40        | 5102048   |
| SC06                      | 2-6              | 19.5      | 150       | 31.5       | 130.9      | M8 x1     | 12        | Form "AD"                           | 1,25        | WSCH/SCF06-150/SK40        | 5102050   |
| SC10                      | 2-10             | 27.1      | 90        | 35.0       | 70.9       | M12 x1    | 12        | Form "AD"                           | 1,15        | WSCH/SCF10-90/SK40         | 5102051   |
| SC10                      | 2-10             | 27.1      | 120       | 35.0       | 100.9      | M12 x1    | 12        | Form "AD"                           | 1,35        | WSCH/SCF10-120/SK40        | 5102053   |
| SC10                      | 2-10             | 27.1      | 150       | 35.0       | 130.9      | M12 x1    | 12        | Form "AD"                           | 1,40        | WSCH/SCF10-150/SK40        | 5102057   |
| SC13                      | 3-13             | 33.0      | 90        | 43.0       | 70.9       | M15 x1    | 16        | Form "AD"                           | 1,20        | WSCH/SCF13-90/SK40         | 5102059   |
| SC13                      | 3-13             | 33.0      | 120       | 43.0       | 100.9      | M15 x1    | 16        | Form "AD"                           | 1,45        | WSCH/SCF13-120/SK40        | 5102060   |
| SC13                      | 3-13             | 33.0      | 150       | 43.0       | 130.9      | M15 x1    | 16        | Form "AD"                           | 1,60        | WSCH/SCF13-150/SK40        | 5102061   |
| SC16                      | 3-16             | 40.0      | 90        | 52.0       | 70.9       | M18 x1.5  | 16        | Form "AD"                           | 1,40        | WSCH/SCF16-90/SK40         | 5102062   |
| SC16                      | 3-16             | 40.0      | 120       | 52.0       | 100.9      | M18 x1.5  | 16        | Form "AD"                           | 1,60        | WSCH/SCF16-120/SK40        | 5102063   |
| SC16                      | 3-16             | 40.0      | 150       | 52.0       | 130.9      | M18 x1.5  | 16        | Form "AD"                           | 1,90        | WSCH/SCF16-150/SK40        | 5102068   |
| SC20                      | 6-20             | 48.0      | 90        | 59.5       | 70.9       | M22 x1.5  | 16        | Form "AD"                           | 1,60        | WSCH/SCF20-90/SK40         | 5102070   |
| SC20                      | 6-20             | 48.0      | 120       | 59.5       | 100.9      | M22 x1.5  | 16        | Form "AD"                           | 2,00        | WSCH/SCF20-120/SK40        | 5102071   |
| SC20                      | 6-20             | 48.0      | 150       | 59.5       | 130.9      | M22 x1.5  | 16        | Form "AD"                           | 2,35        | WSCH/SCF20-150/SK40        | 5102072   |
| SC25                      | 6-25             | 55.0      | 90        | 63.5       | 70.9       | M28 x1.5  | 20        | Form "AD"                           | 1,40        | WSCH/SCF25-90/SK40         | 5102073   |
| SC25                      | 6-25             | 55.0      | 120       | 63.5       | 100.9      | M28 x1.5  | 20        | Form "AD"                           | 1,80        | WSCH/SCF25-120/SK40        | 5102074   |
| SC25                      | 6-25             | 55.0      | 150       | 63.5       | 130.9      | M28 x1.5  | 20        | Form "AD"                           | 2,10        | WSCH/SCF25-150/SK40        | 5102075   |



| SK50                      |                  |           |           |            |            |           |           |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|-------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| SC06                      | 2-6              | 19.5      | 105       | 31.5       | 70.9       | M8 x1     | 12        | Form "AD"                           | 2,90        | WSCH/SCF06-105/SK50        | 5102076   |
| SC06                      | 2-6              | 19.5      | 135       | 31.5       | 100.9      | M8 x1     | 12        | Form "AD"                           | 2,95        | WSCH/SCF06-135/SK50        | 5102077   |
| SC06                      | 2-6              | 19.5      | 165       | 31.5       | 130.9      | M8 x1     | 12        | Form "AD"                           | 3,00        | WSCH/SCF06-165/SK50        | 5102078   |
| SC10                      | 2-10             | 27.1      | 105       | 35.0       | 70.9       | M12 x1    | 12        | Form "AD"                           | 3,05        | WSCH/SCF10-105/SK50        | 5102079   |
| SC10                      | 2-10             | 27.1      | 135       | 35.0       | 100.9      | M12 x1    | 12        | Form "AD"                           | 3,15        | WSCH/SCF10-135/SK50        | 5102080   |
| SC10                      | 2-10             | 27.1      | 165       | 35.0       | 130.9      | M12 x1    | 12        | Form "AD"                           | 3,35        | WSCH/SCF10-165/SK50        | 5102081   |
| SC13                      | 3-13             | 33.0      | 105       | 43.0       | 70.9       | M15 x1    | 16        | Form "AD"                           | 3,20        | WSCH/SCF13-105/SK50        | 5102082   |
| SC13                      | 3-13             | 33.0      | 135       | 43.0       | 100.9      | M15 x1    | 16        | Form "AD"                           | 3,30        | WSCH/SCF13-135/SK50        | 5102083   |
| SC13                      | 3-13             | 33.0      | 165       | 43.0       | 130.9      | M15 x1    | 16        | Form "AD"                           | 3,50        | WSCH/SCF13-165/SK50        | 5102084   |
| SC16                      | 3-16             | 40.0      | 105       | 52.0       | 70.9       | M18 x1.5  | 16        | Form "AD"                           | 3,30        | WSCH/SCF16-105/SK50        | 5102085   |
| SC16                      | 3-16             | 40.0      | 135       | 52.0       | 100.9      | M18 x1.5  | 16        | Form "AD"                           | 3,50        | WSCH/SCF16-135/SK50        | 5102086   |
| SC16                      | 3-16             | 40.0      | 165       | 52.0       | 130.9      | M18 x1.5  | 16        | Form "AD"                           | 3,80        | WSCH/SCF16-165/SK50        | 5102087   |
| SC20                      | 6-20             | 48.0      | 105       | 59.5       | 70.9       | M22 x1.5  | 16        | Form "AD"                           | 3,65        | WSCH/SCF20-105/SK50        | 5102088   |
| SC20                      | 6-20             | 48.0      | 135       | 59.5       | 100.9      | M22 x1.5  | 16        | Form "AD"                           | 3,85        | WSCH/SCF20-135/SK50        | 5102089   |
| SC20                      | 6-20             | 48.0      | 165       | 59.5       | 130.9      | M22 x1.5  | 16        | Form "AD"                           | 4,25        | WSCH/SCF20-165/SK50        | 5102091   |
| SC25                      | 6-25             | 55.0      | 105       | 63.5       | 70.9       | M28 x1.5  | 20        | Form "AD"                           | 3,40        | WSCH/SCF25-105/SK50        | 5102092   |
| SC25                      | 6-25             | 55.0      | 135       | 63.5       | 100.9      | M28 x1.5  | 20        | Form "AD"                           | 3,70        | WSCH/SCF25-135/SK50        | 5102093   |
| SC25                      | 6-25             | 55.0      | 165       | 63.5       | 130.9      | M28 x1.5  | 20        | Form "AD"                           | 4,00        | WSCH/SCF25-165/SK50        | 5102095   |

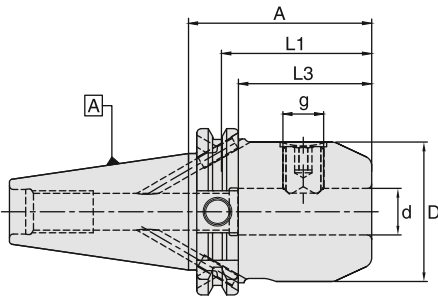


Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D8-D9 Pg.D10 Pg.D9 Pg.D19

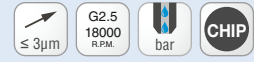
• Im Lieferumfang enthalten: Spannmutter (gewuchtet) und Einstellschraube • Delivery includes: Clamping nut (friction type), Adjusting screw

Technische Details siehe Seite F6-F7 / For technical details please refer the instruction manual provided in the packing box or refer page F6-F7

Fräseraufnahme (Weldon) - für Zylinderschäfte gemäß DIN 1835 B  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835B

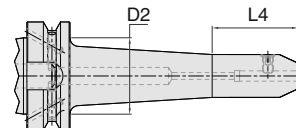


| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| 16     | 48     | 35     | 49      | 15.9    | M14    | Form "AD"                          | 0.85     | WSLH/16-35/SK40*           | 4600771   |
| 20     | 50     | 35     | 51      | 15.9    | M16    | Form "AD"                          | 1.10     | WSLH/20-35/SK40*           | 4600782   |
| 25     | 50     | 35     | 59      | 15.9    | M16 x1 | Form "AD"                          | 1.10     | WSLH/25-35/SK40*           | 4600788   |
| 32     | 50     | 65     | 63      | 45.9    | M16 x1 | Form "AD"                          | 1.25     | WSLH/32-65/SK40*           | 4600792   |
| 06     | 25     | 50     | 37      | 30.9    | M6     | Form "AD/B"                        | 1.05     | WSLH/06-50/SK40            | 4600745   |
| 08     | 28     | 50     | 37      | 30.9    | M8     | Form "AD/B"                        | 1.10     | WSLH/08-50/SK40            | 4600750   |
| 10     | 35     | 50     | 41      | 30.9    | M10    | Form "AD/B"                        | 1.15     | WSLH/10-50/SK40            | 4600755   |
| 12     | 42     | 50     | 46      | 30.9    | M12    | Form "AD/B"                        | 1.20     | WSLH/12-50/SK40            | 4600760   |
| 14     | 44     | 50     | 46      | 30.9    | M12    | Form "AD/B"                        | 1.20     | WSLH/14-50/SK40            | 4600765   |
| 16     | 48     | 63     | 49      | 43.9    | M14    | Form "AD/B"                        | 1.40     | WSLH/16-63/SK40            | 4600770   |
| 18     | 50     | 63     | 49      | 43.9    | M14    | Form "AD/B"                        | 1.45     | WSLH/18-63/SK40            | 4600776   |
| 20     | 50     | 63     | 51      | 43.9    | M16    | Form "AD/B"                        | 1.45     | WSLH/20-63/SK40            | 4600781   |
| 06     | 25     | 100    | 37      | 80.9    | M6     | Form "AD/B"                        | 1.20     | WSLH/06-100/SK40           | 4600746   |
| 08     | 28     | 100    | 37      | 80.9    | M8     | Form "AD/B"                        | 1.40     | WSLH/08-100/SK40           | 4600751   |
| 10     | 35     | 100    | 41      | 80.9    | M10    | Form "AD/B"                        | 1.45     | WSLH/10-100/SK40           | 4600756   |
| 12     | 42     | 100    | 46      | 80.9    | M12    | Form "AD/B"                        | 1.65     | WSLH/12-100/SK40           | 4600761   |
| 14     | 44     | 100    | 46      | 80.9    | M12    | Form "AD/B"                        | 1.75     | WSLH/14-100/SK40           | 4600766   |
| 16     | 48     | 100    | 49      | 80.9    | M14    | Form "AD/B"                        | 1.90     | WSLH/16-100/SK40           | 4600772   |
| 18     | 50     | 100    | 49      | 80.9    | M14    | Form "AD/B"                        | 1.95     | WSLH/18-100/SK40           | 4600777   |
| 20     | 52     | 100    | 51      | 80.9    | M16    | Form "AD/B"                        | 2.00     | WSLH/20-100/SK40           | 4600783   |
| 25     | 65     | 100    | 59      | 80.9    | M18 x2 | Form "AD/B"                        | 2.55     | WSLH/25-100/SK40 **        | 4600787   |
| 32     | 72     | 100    | 63      | 80.9    | M20 x2 | Form "AD/B"                        | 1.75     | WSLH/32-100/SK40 **        | 4600791   |
| 40     | 80     | 120    | 73      | 100.9   | M20 x2 | Form "AD/B"                        | 3.65     | WSLH/40-120/SK40 **        | 4600795   |
| 06     | 25     | 160    | 37      | 140.9   | M6     | Form "AD/B"                        | 1.75     | WSLH/06-160/SK40 ❖         | 4600748   |
| 08     | 28     | 160    | 37      | 140.9   | M8     | Form "AD/B"                        | 1.75     | WSLH/08-160/SK40 ❖         | 4600753   |
| 10     | 35     | 160    | 41      | 140.9   | M10    | Form "AD/B"                        | 2.00     | WSLH/10-160/SK40 ❖         | 4600758   |
| 12     | 42     | 160    | 46      | 140.9   | M12    | Form "AD/B"                        | 2.30     | WSLH/12-160/SK40           | 4600763   |
| 14     | 44     | 160    | 46      | 140.9   | M12    | Form "AD/B"                        | 2.40     | WSLH/14-160/SK40           | 4600768   |
| 16     | 48     | 160    | 49      | 140.9   | M14    | Form "AD/B"                        | 2.65     | WSLH/16-160/SK40           | 4600774   |
| 18     | 50     | 160    | 49      | 140.9   | M14    | Form "AD/B"                        | 2.80     | WSLH/18-160/SK40           | 4600779   |
| 20     | 52     | 160    | 51      | 140.9   | M16    | Form "AD/B"                        | 2.90     | WSLH/20-160/SK40           | 4600785   |
| 25     | 65     | 160    | 59      | 140.9   | M18 x2 | Form "AD/B"                        | 4.00     | WSLH/25-160/SK40 **        | 4600789   |
| 32     | 72     | 160    | 63      | 140.9   | M20 x2 | Form "AD/B"                        | 4.65     | WSLH/32-160/SK40 **        | 4600793   |



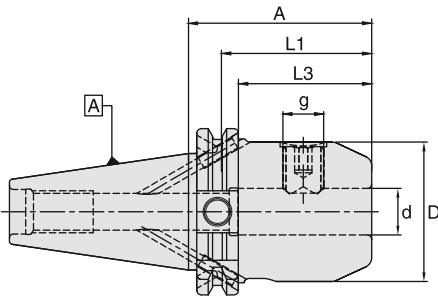
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D19 Pg.E2

- Datenträger-Bohrung (10mm) Standard bei allen Grundhaltern
- Bohrungstoleranz H4
- \* Extra kurze Aufnahmen:
  - Die Spannschrauben sind im Mitnehmer
  - Maximale Steifigkeit dank kurzer Auskragslänge
- Im Lieferumfang enthalten: Spannschraube
- Höhere Wuchtgüte auf Anfrage
- \*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40
- ❖ Für WSLH/06-160/SK40, D2=47.6mm & L4=40mm  
 Für WSLH/08-160/SK40, D2=46.2mm & L4=60mm  
 Für WSLH/10-160/SK40, D2=52.0mm & L4=60mm
- Data carrier bore (10mm) as standard for all holders
- Bore tolerance H4
- \* Extra short holders:
  - Locking screws are located in the same plane as drive slots
  - Gives maximum rigidity due to short projection
- Delivery includes: Locking screw
- Higher balancing grade on request
- \*\* 2 locking screws for ID size = 25 / 32 / 40
- ❖ For WSLH/06-160/SK40, D2=47.6mm & L4=40mm  
 For WSLH/08-160/SK40, D2=46.2mm & L4=60mm  
 For WSLH/10-160/SK40, D2=52.0mm & L4=60mm



Fräseraufnahme (Weldon) - für Zylinderschäfte gemäß DIN 1835 B  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835B

BT MAS 403  
ISO7388-2



SK DIN 69871  
ISO7388-1

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| 06     | 25     | 63     | 37      | 43.9    | M6     | Form "AD/B"                        | 2.80     | WSLH/06-63/SK50            | 4601288   |
| 08     | 28     | 63     | 37      | 43.9    | M8     | Form "AD/B"                        | 2.85     | WSLH/08-63/SK50            | 4601292   |
| 10     | 35     | 63     | 41      | 43.9    | M10    | Form "AD/B"                        | 2.95     | WSLH/10-63/SK50            | 4601296   |
| 12     | 42     | 63     | 46      | 43.9    | M12    | Form "AD/B"                        | 3.05     | WSLH/12-63/SK50            | 4601300   |
| 14     | 44     | 63     | 46      | 43.9    | M12    | Form "AD/B"                        | 3.10     | WSLH/14-63/SK50            | 4601304   |
| 16     | 48     | 63     | 49      | 43.9    | M14    | Form "AD/B"                        | 3.20     | WSLH/16-63/SK50            | 4601308   |
| 18     | 50     | 63     | 49      | 43.9    | M14    | Form "AD/B"                        | 3.20     | WSLH/18-63/SK50            | 4601312   |
| 20     | 52     | 63     | 51      | 43.9    | M16    | Form "AD/B"                        | 3.30     | WSLH/20-63/SK50            | 4601316   |
| 25     | 65     | 80     | 59      | 60.9    | M18 x2 | Form "AD/B"                        | 3.90     | WSLH/25-80/SK50            | 4601320   |
| 06     | 25     | 100    | 37      | 80.9    | M6     | Form "AD/B"                        | 2.95     | WSLH/06-100/SK50           | 4601289   |
| 08     | 28     | 100    | 37      | 80.9    | M8     | Form "AD/B"                        | 3.00     | WSLH/08-100/SK50           | 4601293   |
| 10     | 35     | 100    | 41      | 80.9    | M10    | Form "AD/B"                        | 3.20     | WSLH/10-100/SK50           | 4601297   |
| 12     | 42     | 100    | 46      | 80.9    | M12    | Form "AD/B"                        | 3.45     | WSLH/12-100/SK50           | 4601301   |
| 14     | 44     | 100    | 46      | 80.9    | M12    | Form "AD/B"                        | 3.50     | WSLH/14-100/SK50           | 4601305   |
| 16     | 48     | 100    | 49      | 80.9    | M14    | Form "AD/B"                        | 3.65     | WSLH/16-100/SK50           | 4601309   |
| 18     | 50     | 100    | 49      | 80.9    | M14    | Form "AD/B"                        | 3.80     | WSLH/18-100/SK50           | 4601313   |
| 20     | 52     | 100    | 51      | 80.9    | M16    | Form "AD/B"                        | 3.80     | WSLH/20-100/SK50           | 4601317   |
| 25     | 65     | 120    | 59      | 100.9   | M18 x2 | Form "AD/B"                        | 4.90     | WSLH/25-120/SK50 **        | 4601321   |
| 32     | 72     | 100    | 63      | 80.9    | M20 x2 | Form "AD/B"                        | 4.80     | WSLH/32-100/SK50 **        | 4601324   |
| 40     | 80     | 100    | 73      | 80.9    | M20 x2 | Form "AD/B"                        | 5.00     | WSLH/40-100/SK50 **        | 5054934   |
| 06     | 25     | 160    | 37      | 140.9   | M6     | Form "AD/B"                        | 3.35     | WSLH/06-160/SK50 ❖         | 4601290   |
| 08     | 28     | 160    | 37      | 140.9   | M8     | Form "AD/B"                        | 3.45     | WSLH/08-160/SK50 ❖         | 4601294   |
| 10     | 35     | 160    | 41      | 140.9   | M10    | Form "AD/B"                        | 3.85     | WSLH/10-160/SK50 ❖         | 4601298   |
| 12     | 42     | 160    | 46      | 140.9   | M12    | Form "AD/B"                        | 4.40     | WSLH/12-160/SK50           | 4601302   |
| 14     | 44     | 160    | 46      | 140.9   | M12    | Form "AD/B"                        | 4.20     | WSLH/14-160/SK50           | 4601306   |
| 16     | 48     | 160    | 49      | 140.9   | M14    | Form "AD/B"                        | 4.45     | WSLH/16-160/SK50           | 4601310   |
| 18     | 50     | 160    | 49      | 140.9   | M14    | Form "AD/B"                        | 4.60     | WSLH/18-160/SK50           | 4601314   |
| 20     | 52     | 160    | 51      | 140.9   | M16    | Form "AD/B"                        | 4.75     | WSLH/20-160/SK50           | 4601318   |
| 25     | 65     | 160    | 59      | 140.9   | M18 x2 | Form "AD/B"                        | 5.75     | WSLH/25-160/SK50 **        | 4601322   |
| 32     | 72     | 160    | 63      | 140.9   | M20 x2 | Form "AD/B"                        | 6.55     | WSLH/32-160/SK50 **        | 4601325   |
| 40     | 80     | 160    | 73      | 140.9   | M20 x2 | Form "AD/B"                        | 7.10     | WSLH/40-160/SK50 **        | 4601328   |

HSK DIN 69893

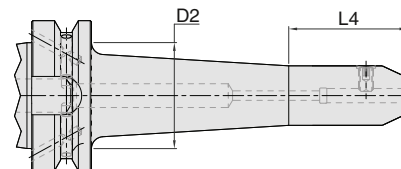
Zubehör  
Accessories

Ersatzteile und Zubehör / Spare Parts & Accessories: :



- Datenträger-Bohrung (10 mm) Standard bei allen Grundhaltern
- Bohrungstoleranz H4
- Im Lieferumfang enthalten: Spannschraube
- Höhere Wuchtgüte auf Anfrage
- \*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40
- ❖ Für WSLH/06-160/SK50, D2=41.8mm & L4=50mm  
Für WSLH/08-160/SK50, D2=48.6mm & L4=50mm  
Für WSLH/10-160/SK50, D2=54.3mm & L4=60mm

- Data carrier bore (10 mm) as standard for all holders
- Bore tolerance H4
- Delivery includes: Locking screw
- Higher balancing grade on request
- \*\* 2 locking screws for ID size = 25 / 32 / 40
- ❖ For WSLH/06-160/SK50, D2=41.8mm & L4=50mm  
For WSLH/08-160/SK50, D2=48.6mm & L4=50mm  
For WSLH/10-160/SK50, D2=54.3mm & L4=60mm

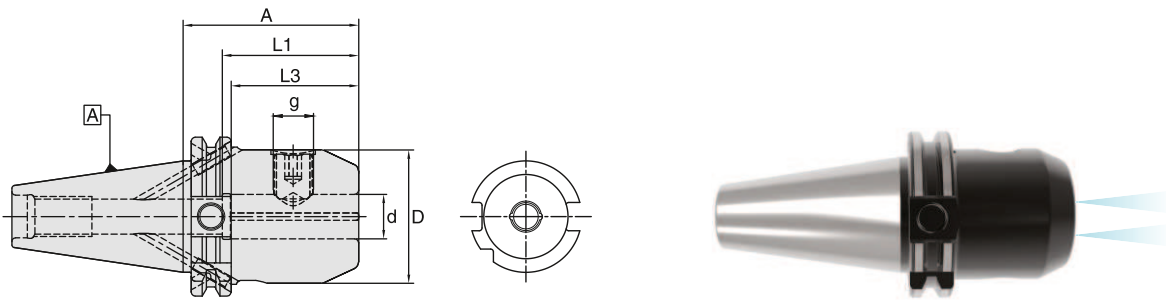


Ersatzteile  
Spare Parts

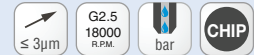
Technische Spezifikationen  
Technical Details

# Fräseraufnahme DIN 6359 mit Kühlkanal - für Zylinderschäfte gemäß DIN 1835 B

End mill holder to DIN 6359 with coolant channel (For cylindrical shanks according to DIN 1835B)



| SK40   |        |        |         |         |        |                                    |          |                            |           |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06     | 25     | 50     | 37      | 30.9    | M6     | Form "AD/B"                        | 1.00     | WSLH-K/06-50/SK40          | 4600749   |
| 08     | 28     | 50     | 37      | 30.9    | M8     | Form "AD/B"                        | 1.00     | WSLH-K/08-50/SK40          | 4600754   |
| 10     | 35     | 50     | 41      | 30.9    | M10    | Form "AD/B"                        | 1.05     | WSLH-K/10-50/SK40          | 4600759   |
| 12     | 42     | 50     | 46      | 30.9    | M12    | Form "AD/B"                        | 1.15     | WSLH-K/12-50/SK40          | 4600764   |
| 14     | 44     | 50     | 46      | 30.9    | M12    | Form "AD/B"                        | 1.20     | WSLH-K/14-50/SK40          | 4600769   |
| 16     | 48     | 63     | 49      | 43.9    | M14    | Form "AD/B"                        | 1.40     | WSLH-K/16-63/SK40          | 4600775   |
| 18     | 50     | 63     | 49      | 43.9    | M14    | Form "AD/B"                        | 1.45     | WSLH-K/18-63/SK40          | 4600780   |
| 20     | 50     | 63     | 51      | 43.9    | M16    | Form "AD/B"                        | 1.45     | WSLH-K/20-63/SK40          | 4600786   |
| 06     | 25     | 100    | 37      | 80.9    | M6     | Form "AD/B"                        | 1.20     | WSLH-K/06-100/SK40         | 4600747   |
| 08     | 28     | 100    | 37      | 80.9    | M8     | Form "AD/B"                        | 1.25     | WSLH-K/08-100/SK40         | 4600752   |
| 10     | 35     | 100    | 41      | 80.9    | M10    | Form "AD/B"                        | 1.45     | WSLH-K/10-100/SK40         | 4600757   |
| 12     | 42     | 100    | 46      | 80.9    | M12    | Form "AD/B"                        | 1.70     | WSLH-K/12-100/SK40         | 4600762   |
| 14     | 44     | 100    | 46      | 80.9    | M12    | Form "AD/B"                        | 1.75     | WSLH-K/14-100/SK40         | 4600767   |
| 16     | 48     | 100    | 49      | 80.9    | M14    | Form "AD/B"                        | 1.90     | WSLH-K/16-100/SK40         | 4600773   |
| 18     | 50     | 100    | 49      | 80.9    | M14    | Form "AD/B"                        | 1.95     | WSLH-K/18-100/SK40         | 4600778   |
| 20     | 52     | 100    | 51      | 80.9    | M16    | Form "AD/B"                        | 2.05     | WSLH-K/20-100/SK40         | 4600784   |
| 25     | 65     | 100    | 59      | 80.9    | M18 x2 | Form "AD/B"                        | 2.55     | WSLH-K/25-100/SK40 **      | 4600790   |
| 32     | 72     | 100    | 63      | 80.9    | M20 x2 | Form "AD/B"                        | 2.75     | WSLH-K/32-100/SK40 **      | 4600794   |
| 40     | 80     | 120    | 73      | 100.9   | M20 x2 | Form "AD/B"                        | 3.25     | WSLH-K/40-120/SK40 **      | 4600796   |



| SK50   |        |        |         |         |        |                                    |          |                            |           |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06     | 25     | 63     | 37      | 43.9    | M6     | Form "AD/B"                        | 2.90     | WSLH-K/06-63/SK50          | 4601291   |
| 08     | 28     | 63     | 37      | 43.9    | M8     | Form "AD/B"                        | 2.95     | WSLH-K/08-63/SK50          | 4601295   |
| 10     | 35     | 63     | 41      | 43.9    | M10    | Form "AD/B"                        | 3.00     | WSLH-K/10-63/SK50          | 4601299   |
| 12     | 42     | 63     | 46      | 43.9    | M12    | Form "AD/B"                        | 3.10     | WSLH-K/12-63/SK50          | 4601303   |
| 14     | 44     | 63     | 46      | 43.9    | M12    | Form "AD/B"                        | 3.10     | WSLH-K/14-63/SK50          | 4601307   |
| 16     | 48     | 63     | 49      | 43.9    | M14    | Form "AD/B"                        | 3.25     | WSLH-K/16-63/SK50          | 4601311   |
| 18     | 50     | 63     | 49      | 43.9    | M14    | Form "AD/B"                        | 3.25     | WSLH-K/18-63/SK50          | 4601315   |
| 20     | 52     | 63     | 51      | 43.9    | M16    | Form "AD/B"                        | 3.30     | WSLH-K/20-63/SK50          | 4601319   |
| 25     | 65     | 80     | 59      | 60.9    | M18 x2 | Form "AD/B"                        | 3.90     | WSLH-K/25-80/SK50 **       | 4601323   |
| 32     | 72     | 100    | 63      | 80.9    | M20 x2 | Form "AD/B"                        | 4.75     | WSLH-K/32-100/SK50 **      | 4601326   |
| 40     | 80     | 100    | 73      | 80.9    | M20 x2 | Form "AD/B"                        | 4.95     | WSLH-K/40-100/SK50 **      | 4601329   |



Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D19 Pg.E2

- Datenträger-Bohrung (10 mm) Standard bei allen Grundhaltern
- Bohrungstoleranz H4
- Extra kurze Aufnahmen:
  - Die Spannschrauben sind im Mitnehmer
  - Maximale Steifigkeit dank kurzer Auskraglänge
- Mit 2 Kühlkanälen entlang der Aufnahmebohrung versehen
- Im Lieferumfang enthalten: Spannschraube
- Höhere Wuchtgüte auf Anfrage

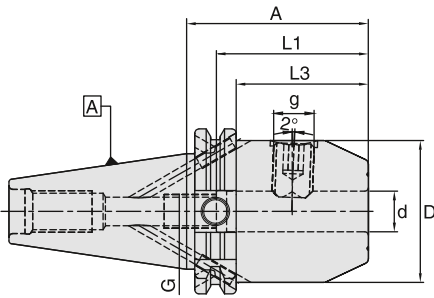
\*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40

- Data carrier bore (10mm) as standard for all holders
- Bore tolerance H4
- Extra short holders:
  - Locking screws are located in the same plane as drive slots
  - Gives maximum rigidity due to short projection
- With two coolant channels along the side of the bore
- Delivery includes: Locking screw
- Higher balancing grade on request

\*\* 2 locking screws for ID size = 25 / 32 / 40

# Fräseraufnahme DIN 6359 Whistle Notch - für Zylinderschäfte gemäß DIN 1835 E

End mill holder to DIN 6359 Whistle Notch (For cylindrical shanks according to DIN 1835 E)



| SK40   |        |        |         |         |     |        |                                    |          |                            |           |
|--------|--------|--------|---------|---------|-----|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G   | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06     | 25     | 50     | 37      | 30.9    | M5  | M6     | Form "AD/B"                        | 1.05     | WSLH-E/06-50/SK40          | 4600797   |
| 08     | 28     | 50     | 37      | 30.9    | M6  | M8     | Form "AD/B"                        | 1.10     | WSLH-E/08-50/SK40          | 4600798   |
| 10     | 35     | 50     | 41      | 30.9    | M8  | M10    | Form "AD/B"                        | 1.20     | WSLH-E/10-50/SK40          | 4600799   |
| 12     | 42     | 50     | 46      | 30.9    | M10 | M12    | Form "AD/B"                        | 1.25     | WSLH-E/12-50/SK40          | 4600800   |
| 14     | 44     | 50     | 46      | 30.9    | M10 | M12    | Form "AD/B"                        | 1.25     | WSLH-E/14-50/SK40          | 4600801   |
| 16     | 48     | 63     | 49      | 43.9    | M12 | M14    | Form "AD/B"                        | 1.25     | WSLH-E/16-63/SK40          | 4600802   |
| 18     | 50     | 63     | 49      | 43.9    | M12 | M14    | Form "AD/B"                        | 1.45     | WSLH-E/18-63/SK40          | 4600803   |
| 20     | 50     | 63     | 51      | 43.9    | M16 | M16    | Form "AD/B"                        | 1.45     | WSLH-E/20-63/SK40          | 4600804   |
| 25     | 65     | 100    | 59      | 80.9    | M20 | M18 x2 | Form "AD/B"                        | 2.50     | WSLH-E/25-100/SK40 **      | 4600805   |
| 32     | 72     | 100    | 63      | 80.9    | M20 | M20 x2 | Form "AD/B"                        | 2.70     | WSLH-E/32-100/SK40 **      | 4600806   |
| 40     | 80     | 120    | 73      | 100.9   | M20 | M20 x2 | Form "AD/B"                        | 3.65     | WSLH-E/40-120/SK40 **      | 4600807   |

| SK50   |        |        |         |         |     |        |                                    |          |                            |           |
|--------|--------|--------|---------|---------|-----|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G   | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06     | 25     | 63     | 37      | 43.9    | M5  | M6     | Form "AD/B"                        | 2.90     | WSLH-E/06-63/SK50          | 4601330   |
| 08     | 28     | 63     | 37      | 43.9    | M6  | M8     | Form "AD/B"                        | 2.90     | WSLH-E/08-63/SK50          | 4601331   |
| 10     | 35     | 63     | 41      | 43.9    | M8  | M10    | Form "AD/B"                        | 3.00     | WSLH-E/10-63/SK50          | 4601332   |
| 12     | 42     | 63     | 46      | 43.9    | M10 | M12    | Form "AD/B"                        | 3.15     | WSLH-E/12-63/SK50          | 4601333   |
| 14     | 44     | 63     | 46      | 43.9    | M10 | M12    | Form "AD/B"                        | 3.20     | WSLH-E/14-63/SK50          | 4601334   |
| 16     | 48     | 63     | 49      | 43.9    | M12 | M14    | Form "AD/B"                        | 3.30     | WSLH-E/16-63/SK50          | 4601335   |
| 18     | 50     | 63     | 49      | 43.9    | M12 | M14    | Form "AD/B"                        | 3.30     | WSLH-E/18-63/SK50          | 4601336   |
| 20     | 52     | 63     | 51      | 43.9    | M16 | M16    | Form "AD/B"                        | 3.35     | WSLH-E/20-63/SK50          | 4601337   |
| 25     | 65     | 80     | 59      | 60.9    | M20 | M18 x2 | Form "AD/B"                        | 4.00     | WSLH-E/25-80/SK50 **       | 4601338   |
| 32     | 72     | 100    | 63      | 80.9    | M20 | M20 x2 | Form "AD/B"                        | 4.75     | WSLH-E/32-100/SK50 **      | 4601339   |
| 40     | 80     | 100    | 73      | 80.9    | M20 | M20 x2 | Form "AD/B"                        | 5.00     | WSLH-E/40-100/SK50 **      | 4601340   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D19

Pg.E2

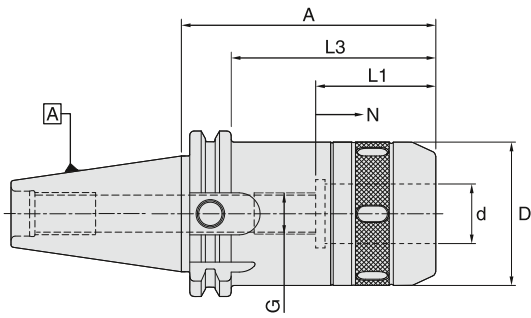
- Datenträger-Bohrung (10 mm) Standard bei allen Grundhaltern
  - Bohrungstoleranz H4
  - Stirnseitige Nut als Erkennungsmerkmal (im Unterschied zu Weldon)
  - Im Lieferumfang enthalten: Spannschraube und Verstellechraube
  - Höhere Wuchtgüte auf Anfrage
- \*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40

- Data carrier bore (10 mm) as standard for all holders
  - Bore tolerance H4
  - Groove on face for easy identification (to distinguish from Weldon)
  - Delivery includes: Locking screw & Adjusting screw
  - Higher balancing grade on request
- \*\* 2 locking screws for ID size = 25 / 32 / 40



# Hochleistungsfräserspannfutter

## Hi-Power Milling Chuck



| SK40   |        |        |         |         |       |    |                                    |          |                            |           |
|--------|--------|--------|---------|---------|-------|----|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 20     | 52     | 90     | 60      | 70.9    | M12x1 | 15 | Form "AD"                          | 2.30     | WHPMC/20-90/SK40           | 5058644   |
| 32     | 66     | 105    | 75      | 85.9    | M16x1 | 15 | Form "AD"                          | 2.55     | WHPMC/32-105/SK40          | 5055618   |



| SK50   |        |        |         |         |       |    |                                    |          |                            |           |
|--------|--------|--------|---------|---------|-------|----|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 20     | 52     | 90     | 60      | 70.9    | M12x1 | 15 | Form "AD"                          | 4.65     | WHPMC/20-90/SK50           | 5058645   |
| 32     | 66     | 105    | 75      | 85.9    | M16x1 | 15 | Form "AD"                          | 5.00     | WHPMC/32-105/SK50          | 5055619   |



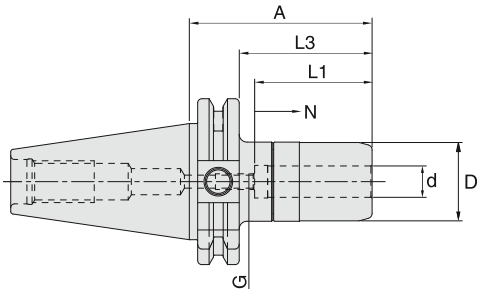
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D12 Pg.D12 Pg.D20

Technische Details siehe Seite F4-F5 / For technical details please refer the instruction manual provided in the packing box or refer page F4-F5



Schlanke Hochleistungsfräserspannfutter  
Slim Hi-Power Milling Chuck (Slim HPMC)

BT MAS 403  
ISO7388-2



SK DIN 69871  
ISO7388-1

| SK40   |        |        |         |         |       |    |                                    |          |                            |           |
|--------|--------|--------|---------|---------|-------|----|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 6      | 25     | 100    | 36      | 80.9    | M5    | 8  | Form "AD"                          | 1.50     | WHPMC/S06-100/SK40         | 5105336   |
| 8      | 25     | 100    | 36      | 80.9    | M6    | 8  | Form "AD"                          | 1.50     | WHPMC/S08-100/SK40         | 5105337   |
| 10     | 30     | 100    | 42      | 80.9    | M8x1  | 8  | Form "AD"                          | 1.50     | WHPMC/S10-100/SK40         | 5105338   |
| 12     | 30     | 70     | 45      | 50.9    | M8    | 8  | Form "AD"                          | 1.45     | WHPMC/S12-70/SK40          | 5097477   |
| 12     | 30     | 120    | 45      | 100.9   | M8    | 8  | Form "AD"                          | 1.75     | WHPMC/S12-120/SK40         | 5097478   |
| 16     | 38     | 70     | 50      | 50.9    | M8    | 10 | Form "AD"                          | 1.35     | WHPMC/S16-70/SK40          | 5097479   |
| 16     | 38     | 120    | 50      | 100.9   | M8    | 10 | Form "AD"                          | 1.75     | WHPMC/S16-120/SK40         | 5097482   |
| 20     | 44     | 90     | 55      | 70.9    | M12x1 | 10 | Form "AD"                          | 1.95     | WHPMC/S20-90/SK40          | 5097483   |
| 20     | 44     | 150    | 55      | 130.9   | M12x1 | 10 | Form "AD"                          | 2.85     | WHPMC/S20-150/SK40         | 5097485   |



HSK DIN 69893

| SK50   |        |        |         |         |       |    |                                    |          |                            |           |
|--------|--------|--------|---------|---------|-------|----|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 12     | 30     | 90     | 45      | 70.9    | M8    | 8  | Form "AD"                          | 3.75     | WHPMC/S12-90/SK50          | 5097488   |
| 12     | 30     | 120    | 45      | 100.9   | M8    | 8  | Form "AD"                          | 4.00     | WHPMC/S12-120/SK50         | 5097489   |
| 16     | 38     | 90     | 50      | 70.9    | M6    | 10 | Form "AD"                          | 3.30     | WHPMC/S16-90/SK50          | 5097491   |
| 16     | 38     | 120    | 50      | 100.9   | M8    | 10 | Form "AD"                          | 4.25     | WHPMC/S16-120/SK50         | 5097492   |
| 20     | 44     | 100    | 55      | 70.9    | -     | 10 | Form "AD"                          | 4.25     | WHPMC/S20-100/SK50         | 5097493   |
| 20     | 44     | 150    | 55      | 130.9   | M12x1 | 10 | Form "AD"                          | 5.00     | WHPMC/S20-150/SK50         | 5097494   |



Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D10 Pg.D6 Pg.D10

Zubehör  
Accessories

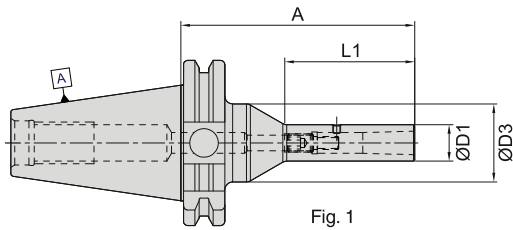
Technische Details siehe Seite F4-F5 / For technical details please refer the instruction manual provided in the packing box or refer page F4-F5

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

## Micro-Spannzangenhalter

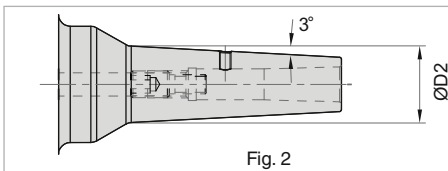
### Micro collet holder



| SK40                      |                  |           |            |            |            |            |                                     |      |             |                            |           |
|---------------------------|------------------|-----------|------------|------------|------------|------------|-------------------------------------|------|-------------|----------------------------|-----------|
|                           |                  |           |            |            |            |            |                                     |      |             |                            |           |
| Spannzange<br>Collet Type | Bereich<br>Range | A<br>(mm) | L1<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | Fig. | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| MC14                      | 3-6              | 90        | 40         | 14         | -          | 30         | Form "AD"                           | 1    | 0,95        | WMCH/D14-90/FSK40          | 5153139   |
| MC14                      | 3-6              | 120       | 70         | 14         | 21.3       | 30         | Form "AD"                           | 2    | 1,05        | WMCH/D14-120/FSK40         | 5153140   |

Steilkegel mit Plananlage (FSK) / All holders are FSK - Face contact holders (dual contact).

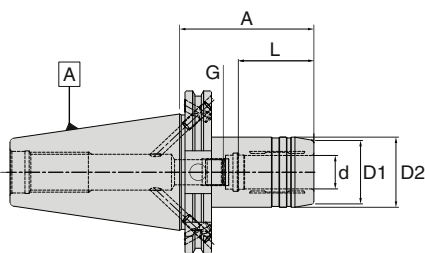
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D19 Pg.D16 Pg.D16 Pg.D16



Für Technische Details siehe Seite F8 / For technical details please refer page F8 and also the instruction manual provided in the packing box.

## Hydrodehnspannfutter (kurze & verstärkt)

### Hydraulic Expansion Chuck (Short & Rigid)



| SK40      |      |            |            |    |        |             |                                     |                            |           |
|-----------|------|------------|------------|----|--------|-------------|-------------------------------------|----------------------------|-----------|
|           |      |            |            |    |        |             |                                     |                            |           |
| d<br>(mm) | A    | D1<br>(mm) | D2<br>(mm) | L  | G      | N/W<br>(Kg) | Kühlmittelezufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 12        | 50.0 | 32         | 42.0       | 41 | M8X1.0 | 1.00        | Form "AD/B"                         | WHEC-P/12-50/SK40          | 5159320   |
| 20        | 64.5 | 38         | 49.5       | 48 | M8X1.0 | 1.20        | Form "AD/B"                         | WHEC-P/20-64.5/SK40        | 5159321   |

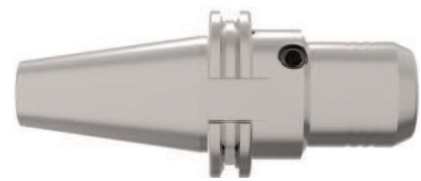
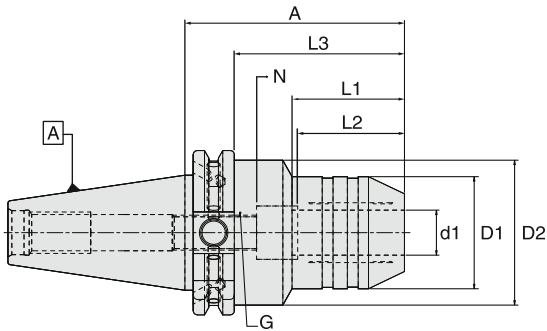
| SK50      |      |            |            |    |        |             |                                     |                            |           |
|-----------|------|------------|------------|----|--------|-------------|-------------------------------------|----------------------------|-----------|
|           |      |            |            |    |        |             |                                     |                            |           |
| d<br>(mm) | A    | D1<br>(mm) | D2<br>(mm) | L  | G      | N/W<br>(Kg) | Kühlmittelezufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 20        | 64.5 | 38.0       | 49.5       | 48 | M8X1.0 | 2.80        | Form "AD/B"                         | WHEC-P/20-64.5/SK50        | 5159322   |
| 32        | 81.0 | 58.5       | 72.0       | 57 | M8X1.0 | 3.90        | Form "AD/B"                         | WHEC-P/32-81/SK50          | 5159323   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D14 Pg.D19

# Hydrodehnspannfutter

## Hydraulic Expansion Chuck

BT MAS 403  
ISO7388-2



SK DIN 69871  
ISO7388-1

| SK40   |        |         |         |         |         |         |         |    |                                    |          |                            |           |
|--------|--------|---------|---------|---------|---------|---------|---------|----|------------------------------------|----------|----------------------------|-----------|
| d (mm) | A (mm) | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | G       | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 6      | 80.5   | 26      | 49.5    | 30.0    | 27      | 61.4    | M5X0.8  | 10 | Form "AD/B"                        | 1.31     | WHEC/06-80.5/SK40          | 5055622   |
| 8      | 80.5   | 28      | 49.5    | 30.0    | 27      | 61.4    | M6X1.0  | 10 | Form "AD/B"                        | 1.34     | WHEC/08-80.5/SK40          | 5055623   |
| 10     | 80.5   | 30      | 49.5    | 31.0    | 32      | 61.4    | M8X1.0  | 10 | Form "AD/B"                        | 1.34     | WHEC/10-80.5/SK40          | 5055624   |
| 12     | 80.5   | 32      | 49.5    | 31.5    | 37      | 61.4    | M10X1.0 | 10 | Form "AD/B"                        | 1.34     | WHEC/12-80.5/SK40          | 5055625   |
| 14     | 80.5   | 34      | 49.5    | 31.5    | 37      | 61.4    | M10X1.0 | 10 | Form "AD/B"                        | 1.34     | WHEC/14-80.5/SK40          | 5055626   |
| 16     | 80.5   | 38      | 49.5    | 33.0    | 42      | 61.4    | M12X1.0 | 10 | Form "AD/B"                        | 1.34     | WHEC/16-80.5/SK40          | 5055627   |
| 18     | 80.5   | 40      | 49.5    | 33.0    | 42      | 61.4    | M12X1.0 | 10 | Form "AD/B"                        | 1.35     | WHEC/18-80.5/SK40          | 5055628   |
| 20     | 80.5   | 42      | 49.5    | 34.0    | 42      | 61.4    | M16X1.0 | 10 | Form "AD/B"                        | 1.35     | WHEC/20-80.5/SK40          | 5055629   |
| 25     | 80.5   | 55      | 66.0    | 22.0    | 48      | 61.4    | M16X1.0 | 10 | Form "AD/B"                        | 1.75     | WHEC/25-80.5/SK40          | 5055630   |
| 32     | 110.0  | 64      | 75.0    | 50.0    | 55      | 90.9    | M16X1.0 | 10 | Form "AD/B"                        | 2.60     | WHEC/32-110/SK40           | 5055631   |

HSK DIN 69893

| SK50   |        |         |         |         |         |         |         |    |                                    |          |                            |           |
|--------|--------|---------|---------|---------|---------|---------|---------|----|------------------------------------|----------|----------------------------|-----------|
| d (mm) | A (mm) | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | G       | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 6      | 80.5   | 26      | 49.5    | 30      | 27      | 61.4    | M5X0.8  | 10 | Form "AD/B"                        | 3.00     | WHEC/06-80.5/SK50          | 5055632   |
| 8      | 80.5   | 28      | 49.5    | 30      | 27      | 61.4    | M6X1.0  | 10 | Form "AD/B"                        | 3.00     | WHEC/08-80.5/SK50          | 5055633   |
| 10     | 80.5   | 30      | 49.5    | 32      | 32      | 61.4    | M8X1.0  | 10 | Form "AD/B"                        | 3.00     | WHEC/10-80.5/SK50          | 5055635   |
| 12     | 80.5   | 32      | 49.5    | 35      | 37      | 61.4    | M10X1.0 | 10 | Form "AD/B"                        | 3.05     | WHEC/12-80.5/SK50          | 5055636   |
| 14     | 80.5   | 34      | 49.5    | 35      | 37      | 61.4    | M10X1.0 | 10 | Form "AD/B"                        | 3.10     | WHEC/14-80.5/SK50          | 5055637   |
| 16     | 80.5   | 38      | 49.5    | 40      | 42      | 61.4    | M12X1.0 | 10 | Form "AD/B"                        | 3.10     | WHEC/16-80.5/SK50          | 5055638   |
| 18     | 80.5   | 40      | 49.5    | 40      | 42      | 61.4    | M12X1.0 | 10 | Form "AD/B"                        | 3.10     | WHEC/18-80.5/SK50          | 5055639   |
| 20     | 80.5   | 42      | 49.5    | 40      | 42      | 61.4    | M16X1.0 | 10 | Form "AD/B"                        | 3.15     | WHEC/20-80.5/SK50          | 5055640   |
| 25     | 80.5   | 57      | 63.0    | 52      | 48      | 61.4    | M16X1.0 | 10 | Form "AD/B"                        | 3.55     | WHEC/25-80.5/SK50          | 5055641   |
| 32     | 110.0  | 64      | 75.0    | 62      | 55      | 90.9    | M16X1.0 | 10 | Form "AD/B"                        | 3.85     | WHEC/32-110/SK50           | 5055642   |

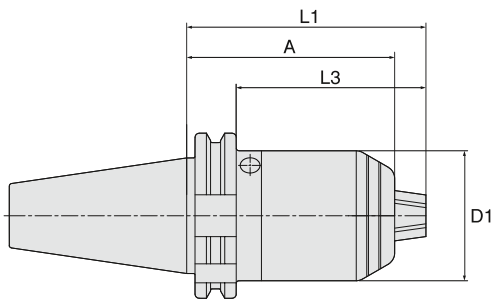
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D14 Pg.D19

Zubehör  
Accessories

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

NC Bohrfutter  
NC Drill Chuck

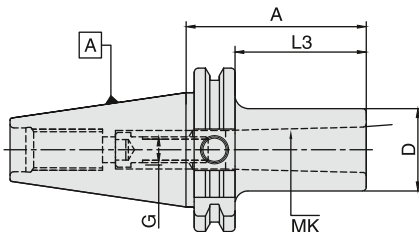


| SK40    |        |         |         |               |                                 |          |                         |           |
|---------|--------|---------|---------|---------------|---------------------------------|----------|-------------------------|-----------|
| D1 (mm) | A (mm) | L1 (mm) | L3 (mm) | Bereich Range | Kühlmittelzufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 50      | 80     | 92      | 72.9    | 1-16          | Form "AD"                       | 1.55     | WNDC/1-16-80/SK40       | 5055612   |

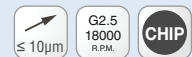
| SK50    |        |         |         |               |                                 |          |                         |           |
|---------|--------|---------|---------|---------------|---------------------------------|----------|-------------------------|-----------|
| D1 (mm) | A (mm) | L1 (mm) | L3 (mm) | Bereich Range | Kühlmittelzufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 50      | 80     | 92      | 72.9    | 1-16          | Form "AD"                       | 3.32     | WNDC/1-16-80/SK50       | 5055617   |

- Hohe Rundlaufgenauigkeit | • Kompakte Bauweise
- Sichere Spannung durch selbsthemmendes Getriebe
- Für Rechts- und Linkslauf geeignet
- High run-out accuracy | • Compact design
- Secure clamping due to self-locking gear
- Suitable for clockwise and counter-clockwise operations

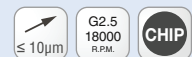
Zwischenhülsen für Morse-Kegel mit Anzugsgewinde DIN 6364 / 228A  
Adaptor sleeves for Morse taper with thread DIN 6364 / 228A



| SK40 |        |        |         |     |                                 |          |                         |           |
|------|--------|--------|---------|-----|---------------------------------|----------|-------------------------|-----------|
| MK   | D (mm) | A (mm) | L3 (mm) | G   | Kühlmittelzufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 1    | 25     | 50     | 30.9    | M6  | -                               | 1.00     | WMTB/MT1-50/SK40        | 4600706   |
| 2    | 32     | 50     | 30.9    | M10 | -                               | 1.10     | WMTB/MT2-50/SK40        | 4600707   |
| 3    | 40     | 70     | 50.9    | M12 | -                               | 1.20     | WMTB/MT3-70/SK40        | 4600708   |
| 4    | 48     | 95     | 75.9    | M16 | -                               | 1.60     | WMTB/MT4-95/SK40        | 4600709   |



| SK50 |        |        |         |     |                                 |          |                         |           |
|------|--------|--------|---------|-----|---------------------------------|----------|-------------------------|-----------|
| MK   | D (mm) | A (mm) | L3 (mm) | G   | Kühlmittelzufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 1    | 25     | 45     | 25.9    | M6  | -                               | 2.80     | WMTB/MT1-45/SK50        | 4601253   |
| 2    | 32     | 60     | 40.9    | M10 | -                               | 2.90     | WMTB/MT2-60/SK50        | 4601254   |
| 3    | 40     | 65     | 45.9    | M12 | -                               | 2.95     | WMTB/MT3-65/SK50        | 4601255   |
| 4    | 48     | 95     | 75.9    | M16 | -                               | 3.30     | WMTB/MT4-95/SK50        | 4601256   |
| 5    | 63     | 120    | 100.9   | M20 | -                               | 3.70     | WMTB/MT5-120/SK50       | 4601258   |



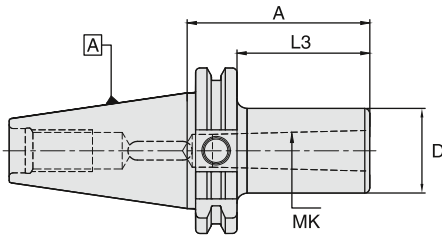
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E5 Pg.D19 Pg.E5

- Datenträger-Bohrung (10 mm) Standard bei allen Grundhaltern
- Im Lieferumfang enthalten: eingebaute Innensechskantschraube
- Data carrier bore (10 mm) as std. for all holders
- Delivery includes: built-in draw screw

Zwischenhülsen für Morse-Kegel mit Austreibblappen DIN 6383  
Adaptor sleeves for Morse taper with tang to DIN 6383



BT MAS 403  
ISO7388-2



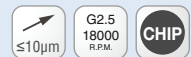
SK DIN 69871  
ISO7388-1

| SK40 |        |        |         |                                     |          |                            |           |
|------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| MK   | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1    | 25     | 50     | 30.9    | -                                   | 1.00     | WMTA/MT1-50/SK40           | 4600808   |
| 2    | 32     | 50     | 30.9    | -                                   | 1.00     | WMTA/MT2-50/SK40           | 4600809   |
| 3    | 40     | 70     | 50.9    | -                                   | 1.20     | WMTA/MT3-70/SK40           | 4600810   |
| 4    | 48     | 95     | 75.9    | -                                   | 1.50     | WMTA/MT4-95/SK40           | 4600811   |
| 2    | 32     | 117    | 97.9    | -                                   | 1.50     | WMTA/MT2-117/SK40          | 4600703   |
| 3    | 40     | 133    | 113.9   | -                                   | 1.70     | WMTA/MT3-133/SK40          | 4600704   |
| 4    | 48     | 156    | 136.9   | -                                   | 2.20     | WMTA/MT4-156/SK40          | 4600705   |



HSK DIN 69893

| SK50 |        |        |         |                                     |          |                            |           |
|------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
| MK   | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1    | 25     | 45     | 25.9    | -                                   | 2.70     | WMTA/MT1-45/SK50           | 4601341   |
| 2    | 32     | 60     | 40.9    | -                                   | 2.80     | WMTA/MT2-60/SK50           | 4601342   |
| 3    | 40     | 65     | 45.9    | -                                   | 2.90     | WMTA/MT3-65/SK50           | 4601343   |
| 4    | 48     | 95     | 75.9    | -                                   | 3.20     | WMTA/MT4-95/SK50           | 4601344   |
| 5    | 70     | 105    | 85.9    | -                                   | 3.80     | WMTA/MT5-105/SK50          | 4601345   |
| 2    | 32     | 117    | 97.9    | -                                   | 3.20     | WMTA/MT2-117/SK50          | 4601249   |
| 3    | 40     | 137    | 117.9   | -                                   | 3.40     | WMTA/MT3-137/SK50          | 4601250   |
| 4    | 48     | 167    | 147.9   | -                                   | 4.00     | WMTA/MT4-167/SK50          | 4601251   |
| 5    | 70     | 195    | 175.9   | -                                   | 6.20     | WMTA/MT5-195/SK50          | 4601252   |



Zubehör  
Accessories

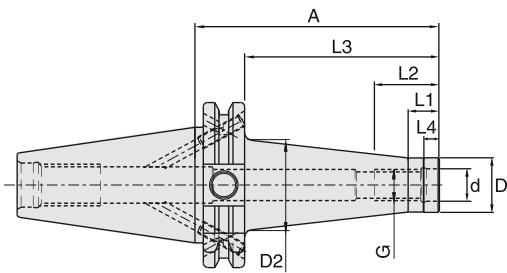
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D19

- Datenträger-Bohrung (10 mm) Standard bei allen Grundhaltern
- Data carrier bore (10 mm) as standard for all holders

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

Aufnahme für Einschraubfräser  
Chuck for threaded milling heads



SK40

| G   | d (mm) | D1 (mm) | D2 (mm) | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|-----|--------|---------|---------|--------|---------|---------|---------|---------|------------------------------------|----------|----------------------------|-----------|
| M6  | 6.5    | 10.0    | 13      | 44     | 12      | 16      | 24.9    | 6.5     | Form "AD/B"                        | 0.85     | WTA/M6-44/SK40             | 5054973   |
| M6  | 6.5    | 10.0    | 20      | 69     | 12      | 16      | 49.9    | 6.5     | Form "AD/B"                        | 0.90     | WTA/M6-69/SK40             | 5054974   |
| M6  | 6.5    | 10.0    | 23      | 94     | 12      | 16      | 74.9    | 6.5     | Form "AD/B"                        | 0.95     | WTA/M6-94/SK40             | 5054975   |
| M8  | 8.5    | 13.8    | 15      | 44     | 12      | 19      | 24.9    | 6.5     | Form "AD/B"                        | 0.85     | WTA/M8-44/SK40             | 5054979   |
| M8  | 8.5    | 13.8    | 23      | 69     | 12      | 19      | 49.9    | 6.5     | Form "AD/B"                        | 0.95     | WTA/M8-69/SK40             | 5054980   |
| M8  | 8.5    | 13.8    | 25      | 94     | 12      | 19      | 74.9    | 6.5     | Form "AD/B"                        | 1.00     | WTA/M8-94/SK40             | 5054981   |
| M8  | 8.5    | 13.8    | 30      | 119    | 12      | 19      | 99.9    | 6.5     | Form "AD/B"                        | 1.05     | WTA/M8-119/SK40            | 5054982   |
| M10 | 10.5   | 18.0    | 23      | 44     | 12      | 19      | 24.9    | 6.5     | Form "AD/B"                        | 0.90     | WTA/M10-44/SK40            | 5054983   |
| M10 | 10.5   | 18.0    | 25      | 69     | 12      | 19      | 49.9    | 6.5     | Form "AD/B"                        | 0.95     | WTA/M10-69/SK40            | 5054985   |
| M10 | 10.5   | 18.0    | 30      | 94     | 12      | 19      | 74.9    | 6.5     | Form "AD/B"                        | 1.00     | WTA/M10-94/SK40            | 5054989   |
| M10 | 10.5   | 18.0    | 35      | 119    | 12      | 19      | 99.9    | 6.5     | Form "AD/B"                        | 1.20     | WTA/M10-119/SK40           | 5054991   |
| M10 | 10.5   | 18.0    | 45      | 169    | 12      | 19      | 149.9   | 6.5     | Form "AD/B"                        | 1.70     | WTA/M10-169/SK40           | 5054992   |
| M12 | 12.5   | 21.0    | 24      | 44     | 12      | 25      | 24.9    | 7.0     | Form "AD/B"                        | 0.80     | WTA/M12-44/SK40            | 5054993   |
| M12 | 12.5   | 21.0    | 30      | 69     | 12      | 25      | 49.9    | 7.0     | Form "AD/B"                        | 1.00     | WTA/M12-69/SK40            | 5054995   |
| M12 | 12.5   | 21.0    | 35      | 94     | 12      | 25      | 74.9    | 7.0     | Form "AD/B"                        | 1.15     | WTA/M12-94/SK40            | 5054996   |
| M12 | 12.5   | 21.0    | 38      | 119    | 12      | 25      | 99.9    | 7.0     | Form "AD/B"                        | 1.20     | WTA/M12-119/SK40           | 5054997   |
| M12 | 12.5   | 21.0    | 48      | 169    | 12      | 25      | 149.9   | 7.0     | Form "AD/B"                        | 1.90     | WTA/M12-169/SK40           | 5054998   |
| M16 | 17.0   | 29.0    | 29      | 44     | 12      | 31      | 24.9    | 8.0     | Form "AD/B"                        | 0.95     | WTA/M16-44/SK40            | 5054999   |
| M16 | 17.0   | 29.0    | 34      | 69     | 12      | 31      | 49.9    | 8.0     | Form "AD/B"                        | 1.10     | WTA/M16-69/SK40            | 5055001   |
| M16 | 17.0   | 29.0    | 35      | 94     | 12      | 31      | 74.9    | 8.0     | Form "AD/B"                        | 1.25     | WTA/M16-94/SK40            | 5055002   |
| M16 | 17.0   | 29.0    | 40      | 119    | 12      | 31      | 99.9    | 8.0     | Form "AD/B"                        | 1.50     | WTA/M16-119/SK40           | 5055003   |
| M16 | 17.0   | 29.0    | 48      | 169    | 12      | 31      | 149.9   | 8.0     | Form "AD/B"                        | 2.10     | WTA/M16-169/SK40           | 5055004   |

SK50

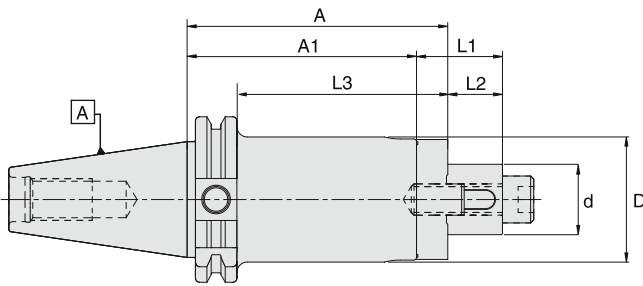
| G   | d (mm) | D1 (mm) | D2 (mm) | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|-----|--------|---------|---------|--------|---------|---------|---------|---------|------------------------------------|----------|----------------------------|-----------|
| M8  | 8.5    | 13.8    | 23      | 69     | 12      | 19      | 49.9    | 6.5     | Form "AD/B"                        | 2.70     | WTA/M8-69/SK50             | 5055005   |
| M8  | 8.5    | 13.8    | 30      | 119    | 12      | 19      | 99.9    | 6.5     | Form "AD/B"                        | 2.90     | WTA/M8-119/SK50            | 5055007   |
| M8  | 8.5    | 13.8    | 45      | 169    | 12      | 19      | 149.9   | 6.5     | Form "AD/B"                        | 3.30     | WTA/M8-169/SK50            | 5055011   |
| M10 | 10.5   | 18.0    | 25      | 69     | 12      | 19      | 49.9    | 6.5     | Form "AD/B"                        | 2.70     | WTA/M10-69/SK50            | 5055012   |
| M10 | 10.5   | 18.0    | 35      | 119    | 12      | 19      | 99.9    | 6.5     | Form "AD/B"                        | 3.00     | WTA/M10-119/SK50           | 5055013   |
| M10 | 10.5   | 18.0    | 45      | 169    | 12      | 19      | 149.9   | 6.5     | Form "AD/B"                        | 3.40     | WTA/M10-169/SK50           | 5055014   |
| M12 | 12.5   | 21.0    | 30      | 69     | 12      | 25      | 49.9    | 7.0     | Form "AD/B"                        | 2.80     | WTA/M12-69/SK50            | 5055016   |
| M12 | 12.5   | 21.0    | 38      | 119    | 12      | 25      | 99.9    | 7.0     | Form "AD/B"                        | 3.10     | WTA/M12-119/SK50           | 5055017   |
| M12 | 12.5   | 21.0    | 52      | 169    | 12      | 25      | 149.9   | 7.0     | Form "AD/B"                        | 3.70     | WTA/M12-169/SK50           | 5055018   |
| M16 | 17.0   | 29.0    | 34      | 69     | 12      | 31      | 49.9    | 8.0     | Form "AD/B"                        | 2.90     | WTA/M16-69/SK50            | 5055019   |
| M16 | 17.0   | 29.0    | 40      | 119    | 12      | 31      | 99.9    | 8.0     | Form "AD/B"                        | 3.20     | WTA/M16-119/SK50           | 5055022   |
| M16 | 17.0   | 29.0    | 48      | 169    | 12      | 31      | 149.9   | 8.0     | Form "AD/B"                        | 3.90     | WTA/M16-169/SK50           | 5055023   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D6

Siehe Seite D15 für Einschraubfräser Verlängerung & Reduzierung  
Refer page. D15 for Threaded Arbor extensions & reductions.

# Aufsteckfräserdorne DIN 6358 mit Längs- und Quernut (Kombi) Shell mill holder with DIN 6358 (Combi)

BT MAS 403  
ISO7388-2



SK DIN 69871  
ISO7388-1

| SK40   |        |        |         |         |         |         |                                    |          |                            |           |
|--------|--------|--------|---------|---------|---------|---------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 32     | 55     | 45      | 27      | 17      | 35.9    | -                                  | 1.25     | WFSH/16-55/SK40            | 4600812   |
| 22     | 40     | 55     | 43      | 31      | 19      | 35.9    | -                                  | 1.35     | WFSH/22-55/SK40            | 4600814   |
| 27     | 48     | 55     | 43      | 33      | 21      | 35.9    | -                                  | 1.60     | WFSH/27-55/SK40            | 4600816   |
| 32     | 58     | 60     | 46      | 38      | 24      | 40.9    | -                                  | 1.90     | WFSH/32-60/SK40            | 4600818   |
| 40     | 70     | 60     | 46      | 41      | 27      | 40.9    | -                                  | 2.20     | WFSH/40-60/SK40            | 4600820   |
| 16     | 32     | 100    | 90      | 27      | 17      | 80.9    | -                                  | 1.50     | WFSH/16-100/SK40           | 4600813   |
| 22     | 40     | 100    | 88      | 31      | 19      | 80.9    | -                                  | 1.80     | WFSH/22-100/SK40           | 4600815   |
| 27     | 48     | 100    | 88      | 33      | 21      | 80.9    | -                                  | 2.20     | WFSH/27-100/SK40           | 4600817   |
| 32     | 58     | 100    | 86      | 38      | 24      | 80.9    | -                                  | 2.70     | WFSH/32-100/SK40           | 4600819   |
| 40     | 70     | 100    | 86      | 41      | 27      | 80.9    | -                                  | 3.30     | WFSH/40-100/SK40 *         | 4600821   |



HSK DIN 69893

| SK50   |        |        |         |         |         |         |                                    |          |                            |           |
|--------|--------|--------|---------|---------|---------|---------|------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 32     | 55     | 45      | 27      | 17      | 35.9    | -                                  | 3.00     | WFSH/16-55/SK50            | 4601346   |
| 22     | 40     | 55     | 43      | 31      | 19      | 35.9    | -                                  | 3.20     | WFSH/22-55/SK50            | 4601348   |
| 27     | 48     | 55     | 43      | 33      | 21      | 35.9    | -                                  | 3.40     | WFSH/27-55/SK50            | 4601350   |
| 32     | 58     | 55     | 41      | 38      | 24      | 35.9    | -                                  | 3.70     | WFSH/32-55/SK50            | 4601352   |
| 40     | 70     | 55     | 41      | 41      | 27      | 35.9    | -                                  | 4.10     | WFSH/40-55/SK50            | 4601354   |
| 50     | 90     | 70     | 54      | 46      | 30      | 50.9    | -                                  | 5.80     | WFSH/50-70/SK50            | 5054972   |
| 16     | 32     | 100    | 90      | 27      | 17      | 80.9    | -                                  | 3.30     | WFSH/16-100/SK50           | 4601347   |
| 22     | 40     | 100    | 88      | 31      | 19      | 80.9    | -                                  | 3.60     | WFSH/22-100/SK50           | 4601349   |
| 27     | 48     | 100    | 88      | 33      | 21      | 80.9    | -                                  | 4.00     | WFSH/27-100/SK50           | 4601351   |
| 32     | 58     | 100    | 86      | 38      | 24      | 80.9    | -                                  | 4.50     | WFSH/32-100/SK50           | 4601353   |
| 40     | 70     | 100    | 86      | 41      | 27      | 80.9    | -                                  | 5.50     | WFSH/40-100/SK50 *         | 4601355   |



Zubehör  
Accessories

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E3 Pg.E4 Pg.E3 Pg.D8 Pg.D6

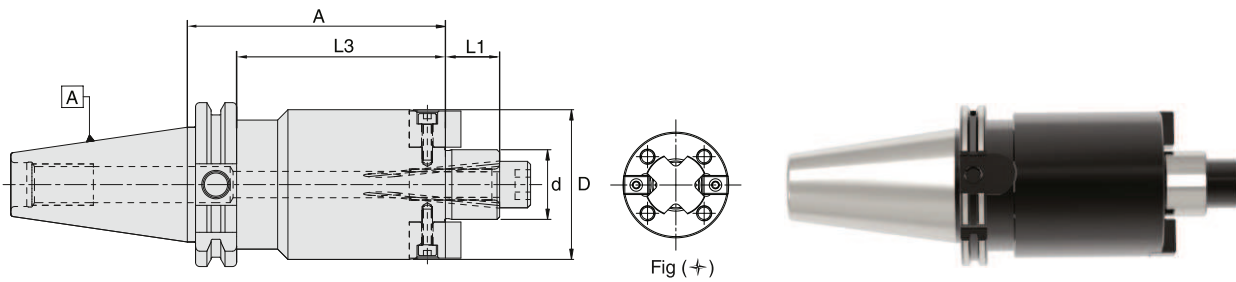
- Datenträger-Bohrung (10 mm) Standard bei allen Grundhaltern
  - Im Lieferumfang enthalten: Passfeder, Mitnehmerring, Fräseranzugsschraube und Spannschrauben (DIN 912)
  - Spannschrauben bitte separat bestellen (DIN 6367)
  - \* Im Lieferumfang enthalten: Spannschrauben (DIN 912 & DIN 6367)
- Data carrier bore (10 mm) as standard for all holders
  - Delivery includes: Parallel key, drive ring, clamping screw and locking screw (DIN 912)
  - Please order locking screw (DIN 6367) separately
  - \* Delivery includes: Locking screw (both DIN 912 & DIN 6367)

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details



Aufnahmedorn mit Innenzentrierung DIN 6357 mit vergrößertem Bunddurchmesser  
Shell mill holder DIN 6357 for cutters with drive key

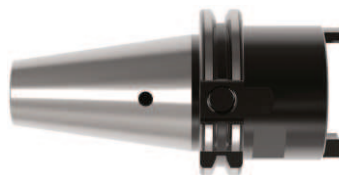
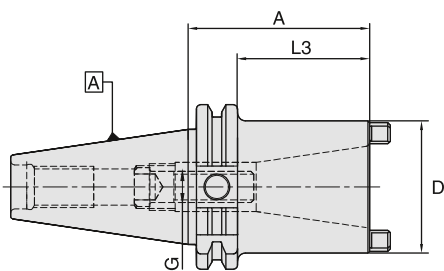


| SK40   |        |        |         |         |                                     |          |                            |           |
|--------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 38     | 35     | 17      | 15.9    | Form "AD/B"                         | 1.10     | WSMH/16-35/SK40            | 4600822   |
| 22     | 48     | 35     | 19      | 15.9    | Form "AD/B"                         | 1.25     | WSMH/22-35/SK40            | 4600823   |
| 27     | 50     | 40     | 21      | 20.9    | Form "AD/B"                         | 1.45     | WSMH/27-40/SK40            | 4600824   |
| 32     | 78     | 50     | 24      | 30.9    | Form "AD/B"                         | 2.00     | WSMH/32-50/SK40            | 4600825   |
| 40     | 88     | 50     | 27      | 30.9    | Form "AD/B"                         | 2.30     | WSMH/40-50/SK40+           | 4600826   |
| 16     | 38     | 100    | 17      | 80.9    | Form "AD/B"                         | 1.70     | WSMH/16-100/SK40           | 5055095   |
| 22     | 48     | 100    | 19      | 80.9    | Form "AD/B"                         | 2.20     | WSMH/22-100/SK40           | 5055102   |
| 27     | 58     | 100    | 21      | 80.9    | Form "AD/B"                         | 2.70     | WSMH/27-100/SK40           | 5055104   |
| 32     | 78     | 100    | 24      | 80.9    | Form "AD/B"                         | 3.80     | WSMH/32-100/SK40           | 5055105   |
| 40     | 88     | 100    | 27      | 80.9    | Form "AD/B"                         | 4.50     | WSMH/40-100/SK40+          | 5055106   |
| 16     | 38     | 160    | 17      | 140.9   | Form "AD/B"                         | 2.20     | WSMH/16-160/SK40           | 5055107   |
| 22     | 48     | 160    | 19      | 140.9   | Form "AD/B"                         | 3.00     | WSMH/22-160/SK40           | 5055108   |
| 27     | 58     | 160    | 21      | 140.9   | Form "AD/B"                         | 3.85     | WSMH/27-160/SK40           | 5055109   |
| 32     | 78     | 160    | 24      | 140.9   | Form "AD/B"                         | 5.90     | WSMH/32-160/SK40           | 5055110   |
| 40     | 88     | 160    | 27      | 140.9   | Form "AD/B"                         | 7.30     | WSMH/40-160/SK40+          | 5055111   |

| SK50   |        |        |         |         |                                     |          |                            |           |
|--------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16     | 38     | 44     | 17      | 24.9    | Form "AD/B"                         | 2.95     | WSMH/16-44/SK50            | 5055112   |
| 22     | 48     | 44     | 19      | 24.9    | Form "AD/B"                         | 3.10     | WSMH/22-44/SK50            | 4601356   |
| 27     | 58     | 44     | 21      | 24.9    | Form "AD/B"                         | 3.35     | WSMH/27-44/SK50            | 4601357   |
| 32     | 78     | 40     | 24      | 20.9    | Form "AD/B"                         | 3.65     | WSMH/32-40/SK50            | 4601358   |
| 40     | 88     | 50     | 27      | 30.9    | Form "AD/B"                         | 5.70     | WSMH/40-50/SK50+           | 4601359   |
| 60     | 129    | 70     | 40      | 50.9    | -                                   | 7.80     | WSMH/60-70/SK50+           | 4601360   |
| 16     | 38     | 100    | 17      | 80.9    | Form "AD/B"                         | 3.50     | WSMH/16-100/SK50           | 5055123   |
| 22     | 48     | 100    | 19      | 80.9    | Form "AD/B"                         | 3.85     | WSMH/22-100/SK50           | 5055125   |
| 27     | 58     | 100    | 21      | 80.9    | Form "AD/B"                         | 4.90     | WSMH/27-100/SK50           | 5055126   |
| 32     | 78     | 100    | 24      | 80.9    | Form "AD/B"                         | 5.80     | WSMH/32-100/SK50           | 5055127   |
| 40     | 88     | 100    | 27      | 80.9    | Form "AD/B"                         | 6.70     | WSMH/40-100/SK50+          | 5055128   |
| 16     | 38     | 160    | 17      | 140.9   | Form "AD/B"                         | 3.95     | WSMH/16-160/SK50           | 5055130   |
| 22     | 48     | 160    | 19      | 140.9   | Form "AD/B"                         | 4.70     | WSMH/22-160/SK50           | 5055131   |
| 27     | 58     | 160    | 21      | 140.9   | Form "AD/B"                         | 5.85     | WSMH/27-160/SK50           | 5055132   |
| 32     | 78     | 160    | 24      | 140.9   | Form "AD/B"                         | 8.00     | WSMH/32-160/SK50           | 5055133   |
| 40     | 88     | 160    | 27      | 140.9   | Form "AD/B"                         | 9.50     | WSMH/40-160/SK50+          | 5055134   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D8 Pg.E3 Pg.E4 Pg.D6 Pg.E4

- Datenträger-Bohrung (10 mm) Standard bei allen Grundhaltern
- Kühlbohrung an der Stirnseite Standard bei allen Grundhaltern
- + ID = Ø 40, d = Ø 60 Mit 4 zusätzlichen Gewindebohrungen nach DIN 2079 und Spannschrauben (DIN 6367) für Ø40
- Im Lieferumfang enthalten: Mitnehmersteine, Fräseranzugsschraube und Spannschrauben (DIN 912)
- Spannschrauben bitte separat bestellen (DIN6367)
- Data carrier bore (10 mm) as standard for all holders
- Coolant bore on the pilot face (holder with Form "AD/B") as standard for all holders
- + ID = Ø 40, d = Ø 60 with additional 4 screw holes to DIN 2079 and with locking screw (DIN 6367) for Ø40
- Delivery includes: Drive keys, clamping screw and locking screw (DIN 912)
- Please order locking screw (DIN 6367) separately



| SK40                            |           |           |            |     |                                     |             |                            |           |
|---------------------------------|-----------|-----------|------------|-----|-------------------------------------|-------------|----------------------------|-----------|
| Innenkegelgröße<br>Inside Taper | D<br>(mm) | A<br>(mm) | L3<br>(mm) | G   | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| SK 30                           | 51        | 50        | 30.9       | M12 | -                                   | 1.30        | SK40-SK30-50               | 4600711   |
| SK 40                           | 63        | 100       | 80.9       | M16 | -                                   | 2.30        | SK40-SK40-100              | 4600712   |



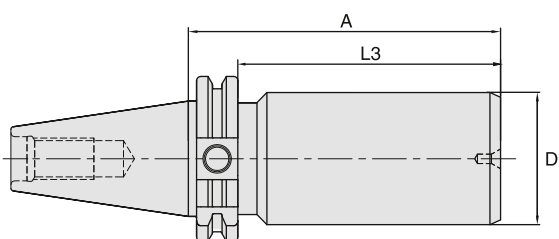
| SK50                            |           |           |            |     |                                     |             |                            |           |
|---------------------------------|-----------|-----------|------------|-----|-------------------------------------|-------------|----------------------------|-----------|
| Innenkegelgröße<br>Inside Taper | D<br>(mm) | A<br>(mm) | L3<br>(mm) | G   | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| SK 40                           | 70        | 80        | 60.9       | M16 | -                                   | 4.30        | SK50-SK40-80               | 4601260   |
| SK 50                           | 100       | 120       | 100.9      | M24 | -                                   | 6.40        | SK50-SK50-120              | 4601261   |



Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E7 Pg.D19 Pg.E7

- Datenträger-Bohrung (10mm) Standard bei allen Grundhaltern
- Im Lieferumfang enthalten: eingebaute Innensechskantschraube
- Data carrier bore (10 mm) as standard for all holders
- Delivery includes: built-in draw screw

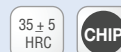
Bohrstangenrohlinge  
Boring bar blanks



| SK40      |           |            |                                     |             |                            |           |  |
|-----------|-----------|------------|-------------------------------------|-------------|----------------------------|-----------|--|
| D<br>(mm) | A<br>(mm) | L3<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |  |
| 63        | 250       | 230.9      | "AD/B"                              | 6.40        | WBBB/63-250/SK40           | 4600725   |  |

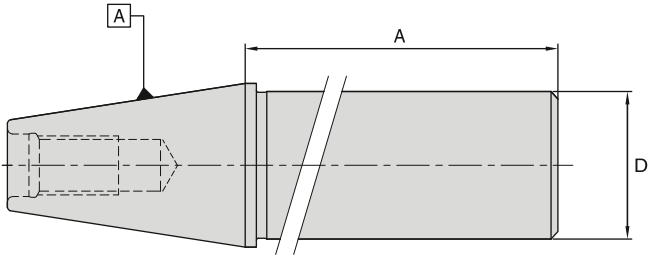


| SK50      |           |            |                                     |             |                            |           |  |
|-----------|-----------|------------|-------------------------------------|-------------|----------------------------|-----------|--|
| D<br>(mm) | A<br>(mm) | L3<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |  |
| 63.5      | 300       | 280.9      | "AD/B"                              | 9.60        | WBBB/63.5-300/SK50         | 4601272   |  |



- Im Lieferumfang enthalten: Steilkegel und Bund gehärtet und geschliffen, Schaft weich zur weiteren Bearbeitung
- Delivery includes: Steep taper and flange hardened and ground, body left soft

Kontrolldorn  
Test Arbor



| SK40 <span style="float: right;">↗<br/>≤ 2µm</span> |        |                                    |          |                            |           |
|---|--------|------------------------------------|----------|----------------------------|-----------|
| D (mm)  | A (mm) | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 40  | 330    | -                                  | 3.15     | WTMM/40-330/SK40           | 5056226   |

| SK50 <span style="float: right;">↗<br/>≤ 2µm</span> |        |                                    |          |                            |           |
|---|--------|------------------------------------|----------|----------------------------|-----------|
| D (mm)  | A (mm) | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 50  | 330    | -                                  | 7.60     | WTMM/50-330/BT50           | 5056227   |

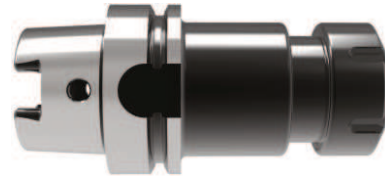
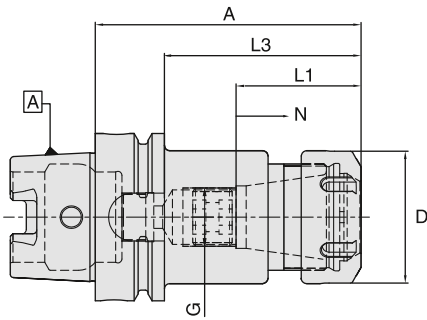
- Diese Dorne haben keinen Bund
- Kontrolldorne werden im Holzkasten geliefert.

- These gauge are without flange
- Delivered in wooden box

|  |           |
|--|-----------|
| Spannzangenfutter ER<br>Collet chuck ER  | C2 - C3   |
| Super collet Spannzangenfutter<br>Super collet chuck                                 | C4        |
| Fräseraufnahmen (Weldon & Whistle Notch)<br>End mill holder (Weldon & Whistle Notch) | C5 - C9   |
| Hochleistungsfräterspannfutter<br>Hi-power milling chuck                             | C10       |
| Schlanke Hochleistungsfräterspannfutter<br>Slim Hi-power milling chuck               | C11       |
| Micro-Spannzangenhalter<br>Micro collet holder                                       | C12       |
| Hydrodehnspannfutter<br>Hydraulic expansion chucks                                   | C13 - C14 |
| NC Bohrfutter<br>NC Drill chuck  | C15       |
| Aufnahmen für Morse-Kegel<br>Morse taper holder (with thread & tang)                 | C15 - C16 |
| Aufnahmen für Einschraubfräser<br>Chuck for threaded milling heads                   | C17       |
| Kombi-Aufsteckfräserdorn<br>Combi shell mill holder                                  | C18       |
| Messerkopf-Aufnahme<br>Shell mill holder   | C19 - C20 |
| Bohrstangenrohlinge<br>Boring bar blanks   | C21       |
| Kontrolldorn<br>Test Arbor   | C22       |
| Pendelhalter (PN / HSK)<br>Floating chuck (PN / HSK)                                 | C23       |

# Spannzangenfutter Typ ER für Spannzangen DIN 6499

## Collet chuck type ER for collets to DIN 6499



| HSK-A32                   |                  |           |           |            |            |     |   |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----|---|-------------------------------------|-------------|----------------------------|-----------|
|                           |                  |           |           |            |            |     |   |                                     |             |                            |           |
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G   | N | Kühlmitteleinlauf<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER16M                     | 1-10             | 22        | 65        | 33.5       | 45         | M10 | 8 | Form "AD"                           | 0.35        | WCCH/ER16M-65/HSK-A32      | 9202350   |
| ER20M                     | 1-13             | 28        | 70        | 38.0       | 50         | M10 | 8 | Form "AD"                           | 0.40        | WCCH/ER20M-70/HSK-A32      | 5068528   |
| ER25M                     | 2-16             | 35        | 70        | 41.0       | 50         | M10 | 8 | Form "AD"                           | 0.70        | WCCH/ER25M-70/HSK-A32      | 9202351   |

| HSK-A40                   |                  |           |           |            |            |         |    |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|---------|----|-------------------------------------|-------------|----------------------------|-----------|
|                           |                  |           |           |            |            |         |    |                                     |             |                            |           |
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G       | N  | Kühlmitteleinlauf<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER16M                     | 1-10             | 22        | 70        | 33.5       | 50         | M10     | 12 | Form "AD"                           | 0.40        | WCCH/ER16M-70/HSK-A40      | 9202352   |
| ER20                      | 1-13             | 34        | 80        | 38.0       | 60         | M12     | 12 | Form "AD"                           | 0.55        | WCCH/ER20-80/HSK-A40       | 5068534   |
| ER25                      | 2-16             | 42        | 80        | 41.0       | 60         | M16     | 12 | Form "AD"                           | 0.60        | WCCH/ER25-80/HSK-A40       | 5068535   |
| ER32                      | 2-20             | 50        | 100       | 47.0       | 80         | M22X1.5 | 12 | Form "AD"                           | 0.80        | WCCH/ER32-100/HSK-A40      | 9202354   |
| ER16M                     | 1-10             | 22        | 120       | 33.5       | 100        | M10     | 12 | Form "AD"                           | 0.60        | WCCH/ER16M-120/HSK-A40     | 9202355   |
| ER20M                     | 1-13             | 28        | 120       | 38.0       | 100        | M12     | 12 | Form "AD"                           | 0.65        | WCCH/ER20M-120/HSK-A40     | 5068538   |
| ER25M                     | 2-16             | 35        | 120       | 41.0       | 100        | M16     | 12 | Form "AD"                           | 0.70        | WCCH/ER25M-120/HSK-A40     | 9202356   |

| HSK-A50                   |                  |           |           |            |            |         |    |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|---------|----|-------------------------------------|-------------|----------------------------|-----------|
|                           |                  |           |           |            |            |         |    |                                     |             |                            |           |
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G       | N  | Kühlmitteleinlauf<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER16M                     | 1-10             | 22        | 80        | 33.5       | 54         | M10     | 12 | Form "AD"                           | 0.60        | WCCH/ER16M-80/HSK-A50      | 9202357   |
| ER20                      | 1-13             | 34        | 95        | 38.0       | 69         | M12     | 12 | Form "AD"                           | 0.90        | WCCH/ER20-95/HSK-A50       | 5068540   |
| ER25                      | 2-16             | 42        | 95        | 41.0       | 69         | M16     | 12 | Form "AD"                           | 1.10        | WCCH/ER25-95/HSK-A50       | 9202358   |
| ER32                      | 2-20             | 50        | 100       | 47.0       | 74         | M22X1.5 | 12 | Form "AD"                           | 1.20        | WCCH/ER32-100/HSK-A50      | 5056308   |

| HSK-A63                   |                  |           |           |            |            |         |    |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|---------|----|-------------------------------------|-------------|----------------------------|-----------|
|                           |                  |           |           |            |            |         |    |                                     |             |                            |           |
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G       | N  | Kühlmitteleinlauf<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER11                      | 1-10             | 19        | 75        | 23.5       | 49         | M6      | 12 | Form "AD"                           | 0.72        | WCCH/ER11-75/HSK-A63       | 5157492   |
| ER16                      | 1-10             | 28        | 75        | 32.5       | 49         | M10     | 12 | Form "AD"                           | 0.81        | WCCH/ER16-75/HSK-A63       | 5156946   |
| ER20                      | 1-13             | 34        | 75        | 38.0       | 49         | -       | 12 | Form "AD"                           | 0.85        | WCCH/ER20-75/HSK-A63       | 5160936   |
| ER25                      | 2-16             | 42        | 75        | 41.0       | 49         | -       | 12 | Form "AD"                           | 0.97        | WCCH/ER25-75/HSK-A63       | 5156963   |
| ER32                      | 2-20             | 50        | 80        | 47.0       | 59         | M10     | 12 | Form "AD"                           | 1.14        | WCCH/ER32-80/HSK-A63       | 5156973   |
| ER40                      | 3-26             | 63        | 85        | 58.5       | 59         | -       | 12 | Form "AD"                           | 1.28        | WCCH/ER40-85/HSK-A63       | 5156974   |
| ER11                      | 1-10             | 19        | 100       | 23.5       | 74         | M6      | 12 | Form "AD"                           | 0.77        | WCCH/ER11-100/HSK-A63      | 5157493   |
| ER16M                     | 1-10             | 22        | 100       | 34.0       | 74         | M10     | 12 | Form "AD"                           | 0.86        | WCCH/ER16M-100/HSK-A63     | 5055257   |
| ER16                      | 1-10             | 28        | 100       | 32.5       | 74         | M10     | 12 | Form "AD"                           | 0.92        | WCCH/ER16-100/HSK-A63      | 5160937   |
| ER20                      | 1-13             | 34        | 100       | 38.0       | 74         | M12     | 12 | Form "AD"                           | 1.20        | WCCH/ER20-100/HSK-A63      | 5055258   |
| ER25                      | 2-16             | 42        | 100       | 41.0       | 74         | M16     | 12 | Form "AD"                           | 1.40        | WCCH/ER25-100/HSK-A63      | 4601696   |
| ER32                      | 2-20             | 50        | 100       | 47.0       | 74         | M22X1.5 | 12 | Form "AD"                           | 1.50        | WCCH/ER32-100/HSK-A63      | 4601698   |
| ER40                      | 3-26             | 63        | 120       | 58.5       | 94         | M22X1.5 | 12 | Form "AD"                           | 2.00        | WCCH/ER40-120/HSK-A63      | 4601700   |

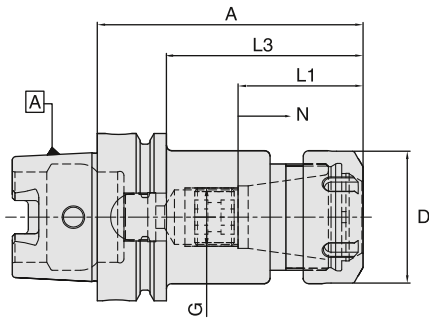
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D2-D4 Pg.D5 Pg.D7 Pg.D21

- Kühlmittelleitung bitte separat bestellen (Siehe Seite D21)
- Im Lieferumfang enthalten: Spannmutter (gewuchtet) und Einstellschraube
- Please order coolant tube separately (Refer page D21)
- Delivery includes: Clamping nut (balanced)

# Spannzangenfutter Typ ER für Spannzangen DIN 6499

## Collet chuck type ER for collets to DIN 6499

BT MAS 403  
ISO7388-2



| HSK-A63                   |                  |           |           |            |            |         |    |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|---------|----|------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G       | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER16M                     | 1-10             | 22        | 160       | 34.0       | 134        | M10     | 12 | Form "AD"                          | 1.30        | WCCH/ER16M-160/HSK-A63*    | 5055261   |
| ER16                      | 1-10             | 28        | 160       | 32.5       | 134        | M10     | 12 | Form "AD"                          | 1.40        | WCCH/ER16-160/HSK-A63      | 5160938   |
| ER20M                     | 1-13             | 28        | 160       | 38.0       | 134        | M12     | 12 | Form "AD"                          | 1.40        | WCCH/ER20M-160/HSK-A63*    | 5055262   |
| ER20                      | 1-13             | 34        | 160       | 38.0       | 134        | M12     | 12 | Form "AD"                          | 1.65        | WCCH/ER20-160/HSK-A63      | 5160939   |
| ER25M                     | 2-16             | 35        | 160       | 41.0       | 134        | M16     | 12 | Form "AD"                          | 1.80        | WCCH/ER25M-160/HSK-A63*    | 5055263   |
| ER25                      | 2-16             | 42        | 160       | 41.0       | 134        | M16     | 12 | Form "AD"                          | 1.95        | WCCH/ER25-160/HSK-A63      | 5160940   |
| ER32                      | 2-20             | 50        | 160       | 47.0       | 134        | M22X1.5 | 12 | Form "AD"                          | 2.40        | WCCH/ER32-160/HSK-A63      | 4601699   |
| ER40                      | 3-26             | 63        | 160       | 58.5       | 134        | M22X1.5 | 12 | Form "AD"                          | 2.50        | WCCH/ER40-160/HSK-A63      | 4601701   |

| HSK-A100                  |                  |           |           |            |            |         |    |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|---------|----|------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G       | N  | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER16                      | 1-10             | 28        | 100       | 32.5       | 71         | M10     | 12 | Form "AD"                          | 2.45        | WCCH/ER16-100/HSK-A100     | 5160941   |
| ER20                      | 1-13             | 34        | 100       | 38.0       | 71         | M12     | 12 | Form "AD"                          | 2.50        | WCCH/ER20-100/HSK-A100     | 5055502   |
| ER25                      | 2-16             | 42        | 100       | 41.0       | 71         | M16     | 12 | Form "AD"                          | 2.70        | WCCH/ER25-100/HSK-A100     | 4601611   |
| ER32                      | 2-20             | 50        | 100       | 47.0       | 71         | M22X1.5 | 12 | Form "AD"                          | 2.90        | WCCH/ER32-100/HSK-A100     | 4601612   |
| ER40                      | 3-26             | 63        | 120       | 58.5       | 91         | M22X1.5 | 12 | Form "AD"                          | 3.20        | WCCH/ER40-120/HSK-A100     | 4601613   |
| ER16                      | 1-10             | 28        | 160       | 32.5       | 131        | M10     | 12 | Form "AD"                          | 2.75        | WCCH/ER16-160/HSK-A100     | 5160942   |
| ER20                      | 1-13             | 34        | 160       | 38.0       | 131        | M12     | 12 | Form "AD"                          | 2.90        | WCCH/ER20-160/HSK-A100     | 5055504   |
| ER25                      | 2-16             | 42        | 160       | 41.0       | 131        | M16     | 12 | Form "AD"                          | 3.30        | WCCH/ER25-160/HSK-A100     | 5055506   |
| ER32                      | 2-20             | 50        | 160       | 47.0       | 131        | M22X1.5 | 12 | Form "AD"                          | 3.65        | WCCH/ER32-160/HSK-A100     | 5055507   |
| ER40                      | 3-26             | 63        | 160       | 58.5       | 131        | M22X1.5 | 12 | Form "AD"                          | 3.80        | WCCH/ER40-160/HSK-A100     | 5055508   |

Ersatzteile und Zubehör / Spare Parts & Accessories:

Pg.D2-D4    
 Pg.D5    
 Pg.D7    
 Pg.D21

\* Gemäß Kegelausführung

- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Im Lieferumfang enthalten: Spannmutter (gewuchtet) und Einstellschraube
- ❖ Für WCCH/16M-160/HSK-A63, D2=41mm & L4=58mm
- For WCCH/25M-160/HSK-A63, D2=52mm & L4=88mm

\* As per taper design

- Please order coolant tube separately (Refer page D21)
- Delivery includes: Clamping nut (balanced) & adjusting screw
- ❖ Note: For WCCH/16M-160/HSK-A63, D2=41mm & L4=58mm
- For WCCH/25M-160/HSK-A63, D2=52mm & L4=88mm

SK DIN 69871  
ISO7388-1

HSK DIN 69893

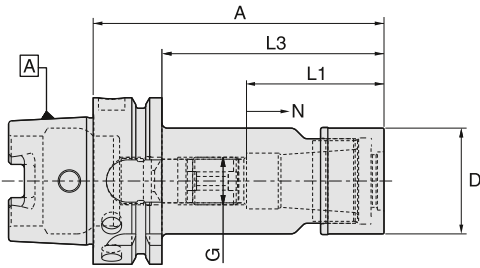
Zubehör  
Accessories

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

# Super collet Spannzangenfutter

## Super collet chuck



| HSK-A50                   |                  |           |           |            |            |           |           |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|-------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| SC06                      | 2-6              | 19.5      | 80        | 31.5       | 54         | M8 x1     | 12        | Form "AD"                           | 0,70        | WSCH/SCF06-80/HSK-A50      | 5102129   |
| SC10                      | 2-10             | 27.1      | 100       | 35.0       | 74         | M12 x1    | 12        | Form "AD"                           | 0,80        | WSCH/SCF10-100/HSK-A50     | 5102130   |
| SC13                      | 3-13             | 33.0      | 100       | 43.0       | 74         | M15 x1    | 16        | Form "AD"                           | 0,80        | WSCH/SCF13-100/HSK-A50     | 5102131   |



| HSK-A63                   |                  |           |           |            |            |           |           |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|-------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| SC06                      | 2-6              | 19.5      | 100       | 31.5       | 74         | M8 x1     | 12        | Form "AD"                           | 0,95        | WSCH/SCF06-100/HSK-A63     | 5102132   |
| SC06                      | 2-6              | 19.5      | 120       | 31.5       | 94         | M8 x1     | 12        | Form "AD"                           | 1,10        | WSCH/SCF06-120/HSK-A63     | 5102133   |
| SC06                      | 2-6              | 19.5      | 150       | 31.5       | 124        | M8 x1     | 12        | Form "AD"                           | 1,15        | WSCH/SCF06-150/HSK-A63     | 5102134   |
| SC10                      | 2-10             | 27.1      | 105       | 35.0       | 79         | M12 x1    | 12        | Form "AD"                           | 1,05        | WSCH/SCF10-105/HSK-A63     | 5102135   |
| SC10                      | 2-10             | 27.1      | 120       | 35.0       | 94         | M12 x1    | 12        | Form "AD"                           | 1,15        | WSCH/SCF10-120/HSK-A63     | 5102136   |
| SC10                      | 2-10             | 27.1      | 150       | 35.0       | 124        | M12 x1    | 12        | Form "AD"                           | 1,30        | WSCH/SCF10-150/HSK-A63     | 5102137   |
| SC13                      | 3-13             | 33.0      | 120       | 43.0       | 94         | M15 x1    | 16        | Form "AD"                           | 1,25        | WSCH/SCF13-120/HSK-A63     | 5102138   |
| SC13                      | 3-13             | 33.0      | 150       | 43.0       | 124        | M15 x1    | 16        | Form "AD"                           | 1,45        | WSCH/SCF13-150/HSK-A63     | 5102141   |
| SC16                      | 3-16             | 40.0      | 120       | 52.0       | 94         | M18 x1.5  | 16        | Form "AD"                           | 1,50        | WSCH/SCF16-120/HSK-A63     | 5102142   |
| SC16                      | 3-16             | 40.0      | 150       | 52.0       | 124        | M18 x1.5  | 16        | Form "AD"                           | 1,80        | WSCH/SCF16-150/HSK-A63     | 5102143   |
| SC20                      | 6-20             | 48.0      | 120       | 59.5       | 94         | M22 x1.5  | 16        | Form "AD"                           | 1,80        | WSCH/SCF20-120/HSK-A63     | 5102144   |
| SC20                      | 6-20             | 48.0      | 150       | 59.5       | 124        | M22 x1.5  | 16        | Form "AD"                           | 2,10        | WSCH/SCF20-150/HSK-A63     | 5102145   |
| SC25                      | 6-25             | 55.0      | 135       | 63.5       | 109        | M28 x1.5  | 20        | Form "AD"                           | 2,30        | WSCH/SCF25-135/HSK-A63     | 5102146   |



| HSK-A100                  |                  |           |           |            |            |           |           |                                     |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|-------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| SC06                      | 2-6              | 19.5      | 105       | 31.5       | 76         | M8 x1     | 12        | Form "AD"                           | 2,30        | WSCH/SCF06-105/HSK-A100    | 5102188   |
| SC10                      | 2-10             | 27.1      | 105       | 35.0       | 76         | M12 x1    | 12        | Form "AD"                           | 2,35        | WSCH/SCF10-105/HSK-A100    | 5102189   |
| SC10                      | 2-10             | 27.1      | 120       | 35.0       | 91         | M12 x1    | 12        | Form "AD"                           | 2,50        | WSCH/SCF10-120/HSK-A100    | 5102190   |
| SC10                      | 2-10             | 27.1      | 150       | 35.0       | 121        | M12 x1    | 12        | Form "AD"                           | 2,60        | WSCH/SCF10-150/HSK-A100    | 5102191   |
| SC13                      | 3-13             | 33.0      | 120       | 43.0       | 91         | M15 x1    | 16        | Form "AD"                           | 2,65        | WSCH/SCF13-120/HSK-A100    | 5102192   |
| SC13                      | 3-13             | 33.0      | 150       | 43.0       | 121        | M15 x1    | 16        | Form "AD"                           | 2,80        | WSCH/SCF13-150/HSK-A100    | 5102193   |
| SC16                      | 3-16             | 40.0      | 120       | 52.0       | 91         | M18 x1.5  | 16        | Form "AD"                           | 2,85        | WSCH/SCF16-120/HSK-A100    | 5102194   |
| SC16                      | 3-16             | 40.0      | 150       | 52.0       | 121        | M18 x1.5  | 16        | Form "AD"                           | 3,10        | WSCH/SCF16-150/HSK-A100    | 5102195   |
| SC20                      | 6-20             | 48.0      | 120       | 59.5       | 91         | M22 x1.5  | 16        | Form "AD"                           | 3,10        | WSCH/SCF20-120/HSK-A100    | 5102196   |
| SC20                      | 6-20             | 48.0      | 150       | 59.5       | 121        | M22 x1.5  | 16        | Form "AD"                           | 3,50        | WSCH/SCF20-150/HSK-A100    | 5102197   |
| SC25                      | 6-25             | 55.0      | 145       | 63.5       | 116        | M28 x1.5  | 20        | Form "AD"                           | 3,60        | WSCH/SCF25-145/HSK-A100    | 5102198   |



Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D8-D9 Pg.D10 Pg.D9 Pg.D21

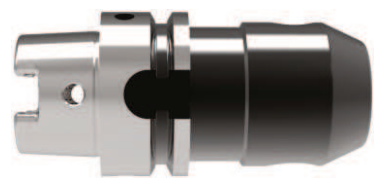
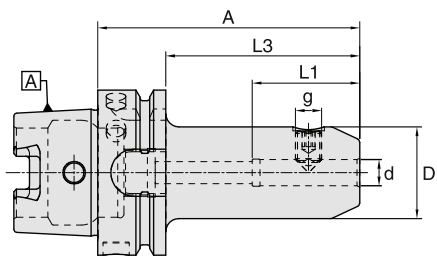
- Im Lieferumfang enthalten: Spannmutter (gewuchtet) und Einstellschraube
- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Delivery includes: Clamping nut (friction type), Adjusting screw
- Please order coolant tube separately (Refer page D21)

Technische Details siehe Seite F6-F7 / For technical details please refer the instruction manual provided in the packing box or refer page F6-F7



Fräseraufnahmen (Weldon) - für Zylinderschäfte gemäß DIN 1835 B  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835 B

BT MAS 403  
ISO7388-2



**HSK-A32**

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g   | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-----|-------------------------------------|----------|----------------------------|-----------|
| 06     | 25     | 60     | 37      | 40      | M6  | Form "AD"                           | 0.40     | WSLH/06-60/HSK-A32         | 9202366   |
| 08     | 28     | 60     | 37      | 40      | M8  | Form "AD"                           | 0.40     | WSLH/08-60/HSK-A32         | 9202367   |
| 10     | 35     | 65     | 41      | 45      | M10 | Form "AD"                           | 0.45     | WSLH/10-65/HSK-A32         | 9202368   |
| 12     | 42     | 75     | 46      | 55      | M12 | Form "AD"                           | 0.65     | WSLH/12-75/HSK-A32         | 9202369   |
| 16     | 48     | 75     | 49      | 55      | M14 | Form "AD"                           | 0.75     | WSLH/16-75/HSK-A32         | 9202370   |

SK DIN 69871  
ISO7388-1

**HSK-A40**

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g   | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-----|-------------------------------------|----------|----------------------------|-----------|
| 06     | 25     | 60     | 37      | 40      | M6  | Form "AD"                           | 0.50     | WSLH/06-60/HSK-A40         | 9202371   |
| 08     | 28     | 60     | 37      | 40      | M8  | Form "AD"                           | 0.50     | WSLH/08-60/HSK-A40         | 9202372   |
| 10     | 34     | 65     | 41      | 45      | M10 | Form "AD"                           | 0.60     | WSLH/10-65/HSK-A40         | 9202373   |
| 12     | 42     | 70     | 46      | 50      | M12 | Form "AD"                           | 0.80     | WSLH/12-70/HSK-A40         | 9202374   |
| 16     | 48     | 80     | 49      | 60      | M14 | Form "AD"                           | 0.90     | WSLH/16-80/HSK-A40         | 9202375   |
| 20     | 52     | 80     | 51      | 60      | M16 | Form "AD"                           | 1.00     | WSLH/20-80/HSK-A40         | 9202376   |

HSK DIN 69893

**HSK-A50**

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|--------|-------------------------------------|----------|----------------------------|-----------|
| 06     | 25     | 65     | 37      | 39      | M6     | Form "AD"                           | 0.65     | WSLH/06-65/HSK-A50         | 9202377   |
| 08     | 28     | 65     | 37      | 39      | M8     | Form "AD"                           | 0.70     | WSLH/08-65/HSK-A50         | 9202378   |
| 10     | 35     | 65     | 41      | 39      | M10    | Form "AD"                           | 0.75     | WSLH/10-65/HSK-A50         | 9202379   |
| 12     | 42     | 80     | 46      | 54      | M12    | Form "AD"                           | 1.05     | WSLH/12-80/HSK-A50         | 9202380   |
| 16     | 48     | 80     | 49      | 54      | M14    | Form "AD"                           | 1.10     | WSLH/16-80/HSK-A50         | 9202381   |
| 20     | 52     | 80     | 51      | 54      | M16    | Form "AD"                           | 1.10     | WSLH/20-80/HSK-A50         | 9202382   |
| 25     | 62.5   | 105    | 59      | 79      | M18 x2 | Form "AD"                           | 1.85     | WSLH/25-105/HSK-A50 **     | 9202383   |
| 32     | 72     | 120    | 63      | 94      | M20 x2 | Form "AD"                           | 2.75     | WSLH/32-120/HSK-A50 **     | 9202384   |

Zubehör  
Accessories

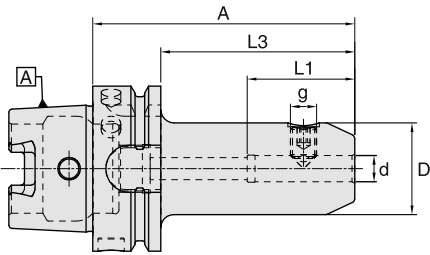
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E2 Pg.D21

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Bohrungstoleranz H4</li> <li>• Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)</li> <li>• Im Lieferumfang enthalten: Spannschraube</li> <li>** 2 Spannschrauben für ID Größe = 25 / 32 / 40</li> </ul> | <ul style="list-style-type: none"> <li>• Bore tolerance H4</li> <li>• Please order coolant tube separately (Refer page D21)</li> <li>• Delivery includes: Locking screw</li> <li>** 2 locking screws for ID size = 25 / 32 / 40</li> </ul> |
|--|--|

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

Fräseraufnahmen (Weldon) - für Zylinderschäfte gemäß DIN 1835 B  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835 B



| HSK-A63 |        |        |         |         |        |                                    |          |                            |           |
|---------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06      | 25     | 65     | 37      | 39      | M6     | Form "AD"                          | 0.95     | WSLH/06-65/HSK-A63         | 4601702   |
| 08      | 28     | 65     | 37      | 39      | M8     | Form "AD"                          | 0.95     | WSLH/08-65/HSK-A63         | 4601705   |
| 10      | 35     | 65     | 41      | 39      | M10    | Form "AD"                          | 1.00     | WSLH/10-65/HSK-A63         | 4601708   |
| 12      | 42     | 80     | 46      | 54      | M12    | Form "AD"                          | 1.25     | WSLH/12-80/HSK-A63         | 4601711   |
| 14      | 44     | 80     | 46      | 54      | M12    | Form "AD"                          | 1.30     | WSLH/14-80/HSK-A63         | 4601715   |
| 16      | 48     | 80     | 49      | 54      | M14    | Form "AD"                          | 1.50     | WSLH/16-80/HSK-A63         | 4601719   |
| 18      | 50     | 80     | 49      | 54      | M14    | Form "AD"                          | 1.40     | WSLH/18-80/HSK-A63         | 4601723   |
| 20      | 52     | 80     | 51      | 54      | M16    | Form "AD"                          | 1.60     | WSLH/20-80/HSK-A63         | 4601727   |
| 06      | 25     | 100    | 37      | 74      | M6     | Form "AD"                          | 1.10     | WSLH/06-100/HSK-A63        | 4601703   |
| 08      | 28     | 100    | 37      | 74      | M8     | Form "AD"                          | 1.15     | WSLH/08-100/HSK-A63        | 4601706   |
| 10      | 35     | 100    | 41      | 74      | M10    | Form "AD"                          | 1.26     | WSLH/10-100/HSK-A63        | 4601709   |
| 12      | 42     | 100    | 46      | 74      | M12    | Form "AD"                          | 1.50     | WSLH/12-100/HSK-A63        | 5056629   |
| 16      | 48     | 100    | 49      | 74      | M14    | Form "AD"                          | 1.75     | WSLH/16-100/HSK-A63        | 5056632   |
| 20      | 52     | 100    | 51      | 74      | M16    | Form "AD"                          | 1.90     | WSLH/20-100/HSK-A63        | 5065495   |
| 25      | 62.5   | 110    | 59      | 84      | M18 x2 | Form "AD"                          | 2.45     | WSLH/25-110/HSK-A63 **     | 4601730   |
| 32      | 72     | 110    | 63      | 84      | M20 x2 | Form "AD"                          | 2.80     | WSLH/32-110/HSK-A63 **     | 4601732   |
| 40      | 80     | 125    | 73      | 99      | M20 x2 | Form "AD"                          | 3.40     | WSLH/40-125/HSK-A63 **     | 4601734   |



| HSK-A63 |        |        |         |         |     |                                    |          |                            |           |
|---------|--------|--------|---------|---------|-----|------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g   | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06      | 25     | 160    | 37      | 134     | M6  | Form "AD"                          | 1.45     | WSLH/06-160/HSK-A63 ❖      | 5056636   |
| 08      | 28     | 160    | 37      | 134     | M8  | Form "AD"                          | 1.55     | WSLH/08-160/HSK-A63 ❖      | 5056638   |
| 10      | 35     | 160    | 41      | 134     | M10 | Form "AD"                          | 1.90     | WSLH/10-160/HSK-A63 ❖      | 5056640   |
| 12      | 42     | 160    | 46      | 134     | M12 | Form "AD"                          | 2.20     | WSLH/12-160/HSK-A63        | 5056642   |
| 16      | 48     | 160    | 49      | 134     | M14 | Form "AD"                          | 2.60     | WSLH/16-160/HSK-A63        | 5056643   |
| 20      | 52     | 160    | 51      | 134     | M16 | Form "AD"                          | 2.85     | WSLH/20-160/HSK-A63        | 5056645   |



Ersatzteile und Zubehör / Spare Parts & Accessories:



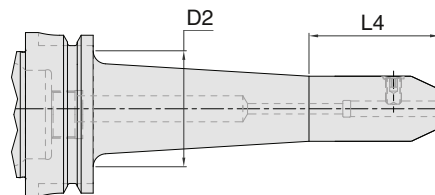
Pg.E2



Pg.D21

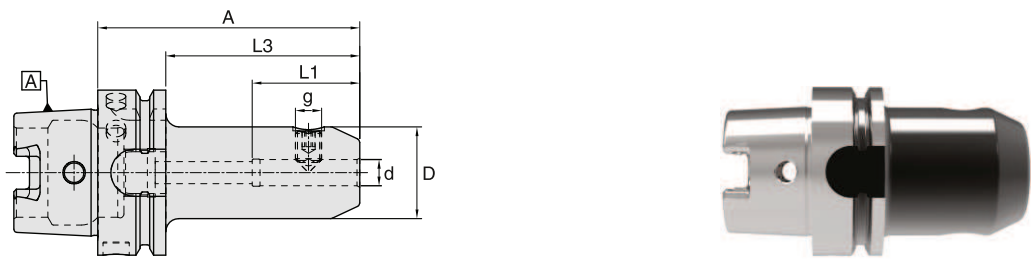
- Bohrungstoleranz H4
- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Im Lieferumfang enthalten: Spannschraube
- \*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40
- ❖ Für WSLH/06-160/HSK-A63, D2=44.7mm & L4=50mm
- For WSLH/08-160/HSK-A63, D2=44.0mm & L4=50mm
- For WSLH/10-160/HSK-A63, D2=49.7mm & L4=60mm

- Bore tolerance H4
- Please order coolant tube separately (Refer page D21)
- Delivery includes: Locking screw
- \*\* 2 locking screws for ID size = 25 / 32 / 40
- ❖ Note: For WSLH/06-160/HSK-A63, D2=44.7mm & L4=50mm
- For WSLH/08-160/HSK-A63, D2=44.0mm & L4=50mm
- For WSLH/10-160/HSK-A63, D2=49.7mm & L4=60mm



Fräseraufnahmen (Weldon) - für Zylinderschäfte gemäß DIN 1835 B  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835 B

BT MAS 403  
 ISO7388-2

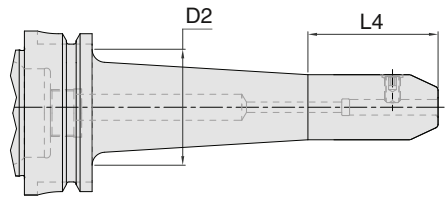


SK DIN 69871  
 ISO7388-1

HSK-A100

| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| 06     | 25     | 80     | 37      | 51      | M6     | Form "AD"                          | 2.37     | WSLH/06-80/HSK-A100        | 4601614   |
| 08     | 28     | 80     | 37      | 51      | M8     | Form "AD"                          | 2.35     | WSLH/08-80/HSK-A100        | 4601616   |
| 10     | 35     | 80     | 41      | 51      | M10    | Form "AD"                          | 2.50     | WSLH/10-80/HSK-A100        | 4601618   |
| 12     | 42     | 80     | 46      | 51      | M12    | Form "AD"                          | 2.70     | WSLH/12-80/HSK-A100        | 4601620   |
| 14     | 44     | 80     | 46      | 51      | M12    | Form "AD"                          | 2.70     | WSLH/14-80/HSK-A100        | 4601622   |
| 16     | 48     | 100    | 49      | 71      | M14    | Form "AD"                          | 3.05     | WSLH/16-100/HSK-A100       | 4601624   |
| 18     | 50     | 100    | 49      | 71      | M14    | Form "AD"                          | 3.10     | WSLH/18-100/HSK-A100       | 4601626   |
| 20     | 52     | 100    | 51      | 71      | M16    | Form "AD"                          | 3.25     | WSLH/20-100/HSK-A100       | 4601628   |
| 25     | 65     | 100    | 59      | 71      | M18 x2 | Form "AD"                          | 3.80     | WSLH/25-100/HSK-A100 **    | 4601630   |
| 32     | 72     | 100    | 63      | 71      | M20 x2 | Form "AD"                          | 3.95     | WSLH/32-100/HSK-A100 **    | 4601632   |
| 40     | 80     | 105    | 73      | 76      | M20 x2 | Form "AD"                          | 4.40     | WSLH/40-105/HSK-A100 **    | 4601634   |

HSK DIN 69893



Zubehör  
 Accessories

HSK-A100

| d (mm) | D (mm) | D2 (mm) | A (mm) | L1 (mm) | L3 (mm) | L4 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|---------|--------|---------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| 06     | 25     | 55.1    | 160    | 37      | 131     | 50      | M6     | Form "AD"                          | 2.95     | WSLH/06-160/HSK-A100       | 5056735   |
| 08     | 28     | 58.1    | 160    | 37      | 131     | 50      | M8     | Form "AD"                          | 3.05     | WSLH/08-160/HSK-A100       | 5056736   |
| 10     | 35     | 61.2    | 160    | 41      | 131     | 65      | M10    | Form "AD"                          | 3.35     | WSLH/10-160/HSK-A100       | 5056737   |
| 12     | 42     | 69.5    | 160    | 46      | 131     | 60      | M12    | Form "AD"                          | 3.85     | WSLH/12-160/HSK-A100       | 5056739   |
| 16     | 48     | 72.9    | 160    | 49      | 131     | 70      | M14    | Form "AD"                          | 4.20     | WSLH/16-160/HSK-A100       | 5056740   |
| 20     | 52     | 79.5    | 160    | 51      | 131     | 60      | M16    | Form "AD"                          | 4.60     | WSLH/20-160/HSK-A100       | 5056742   |
| 25     | 65     | 83.7    | 160    | 59      | 131     | 80      | M18 x2 | Form "AD"                          | 5.55     | WSLH/25-160/HSK-A100 **    | 5056743   |
| 32     | 72     | -       | 160    | 63      | 131     | -       | M20 x2 | Form "AD"                          | 5.65     | WSLH/32-160/HSK-A100 **    | 5160943   |

Ersatzteile  
 Spare Parts

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E2 Pg.D21

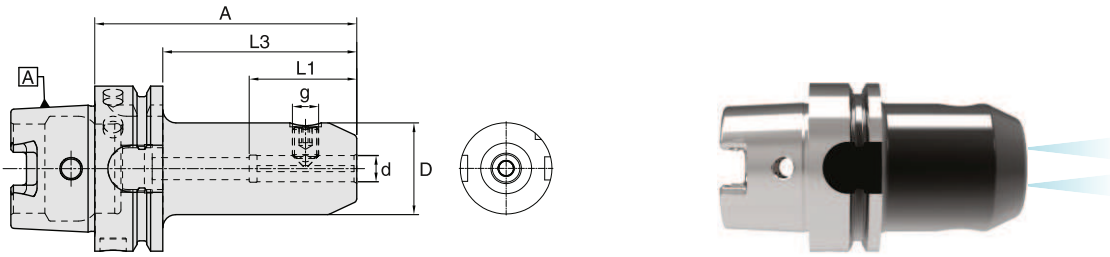
- Bohrungstoleranz H4
- Kühlmitelrohr bitte separat bestellen (Siehe Seite D21)
- Im Lieferumfang enthalten: Spannschraube
- \*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40

- Bore tolerance H4
- Please order coolant tube separately (Refer page D21)
- Delivery includes: Locking screw
- \*\* 2 locking screws for ID size = 25 / 32 / 40

Technische Spezifikationen  
 Technical Details

# Fräseraufnahmen DIN 6359 mit Kühlkanal - für Zylinderschäfte gemäß DIN 1835 B

End mill holder to DIN 6359 with coolant channel (For cylindrical shanks according to DIN 1835 B)



| HSK-A63 |        |        |         |         |        |                                    |          |                            |           |
|---------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06      | 25     | 65     | 37      | 39      | M6     | Form "AD"                          | 0.95     | WSLH-K/06-65/HSK-A63       | 4601704   |
| 08      | 28     | 65     | 37      | 39      | M8     | Form "AD"                          | 0.95     | WSLH-K/08-65/HSK-A63       | 4601707   |
| 10      | 35     | 65     | 41      | 39      | M10    | Form "AD"                          | 1.00     | WSLH-K/10-65/HSK-A63       | 4601710   |
| 12      | 42     | 80     | 46      | 54      | M12    | Form "AD"                          | 1.25     | WSLH-K/12-80/HSK-A63       | 4601714   |
| 14      | 44     | 80     | 46      | 54      | M12    | Form "AD"                          | 1.30     | WSLH-K/14-80/HSK-A63       | 4601718   |
| 16      | 48     | 80     | 49      | 54      | M14    | Form "AD"                          | 1.50     | WSLH-K/16-80/HSK-A63       | 4601722   |
| 18      | 50     | 80     | 49      | 54      | M14    | Form "AD"                          | 1.40     | WSLH-K/18-80/HSK-A63       | 4601726   |
| 20      | 52     | 80     | 51      | 54      | M16    | Form "AD"                          | 1.65     | WSLH-K/20-80/HSK-A63       | 4601729   |
| 25      | 62.5   | 110    | 59      | 84      | M18 x2 | Form "AD"                          | 2.45     | WSLH-K/25-110/HSK-A63 **   | 4601731   |
| 32      | 72     | 110    | 63      | 84      | M20 x2 | Form "AD"                          | 2.80     | WSLH-K/32-110/HSK-A63 **   | 4601733   |
| 40      | 80     | 125    | 73      | 99      | M20 x2 | Form "AD"                          | 3.40     | WSLH-K/40-125/HSK-A63 **   | 4601735   |

| HSK-A100 |        |        |         |         |        |                                    |          |                            |           |
|----------|--------|--------|---------|---------|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm)   | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06       | 25     | 80     | 37      | 51      | M6     | Form "AD"                          | 2.30     | WSLH-K/06-80/HSK-A100      | 4601615   |
| 08       | 28     | 80     | 37      | 51      | M8     | Form "AD"                          | 2.40     | WSLH-K/08-80/HSK-A100      | 4601617   |
| 10       | 35     | 80     | 41      | 51      | M10    | Form "AD"                          | 2.50     | WSLH-K/10-80/HSK-A100      | 4601619   |
| 12       | 42     | 80     | 46      | 51      | M12    | Form "AD"                          | 2.55     | WSLH-K/12-80/HSK-A100      | 4601621   |
| 14       | 44     | 80     | 46      | 51      | M12    | Form "AD"                          | 2.70     | WSLH-K/14-80/HSK-A100      | 4601623   |
| 16       | 48     | 100    | 49      | 71      | M14    | Form "AD"                          | 3.00     | WSLH-K/16-100/HSK-A100     | 4601625   |
| 18       | 50     | 100    | 49      | 71      | M14    | Form "AD"                          | 3.05     | WSLH-K/18-100/HSK-A100     | 4601627   |
| 20       | 52     | 100    | 51      | 71      | M16    | Form "AD"                          | 3.15     | WSLH-K/20-100/HSK-A100     | 4601629   |
| 25       | 65     | 100    | 59      | 71      | M18 x2 | Form "AD"                          | 3.70     | WSLH-K/25-100/HSK-A100 **  | 4601631   |
| 32       | 72     | 100    | 63      | 71      | M20 x2 | Form "AD"                          | 3.95     | WSLH-K/32-100/HSK-A100 **  | 4601633   |
| 40       | 80     | 105    | 73      | 76      | M20 x2 | Form "AD"                          | 4.35     | WSLH-K/40-105/HSK-A100 **  | 4601635   |

Ersatzteile und Zubehör / Spare Parts & Accessories:



Pg.E2

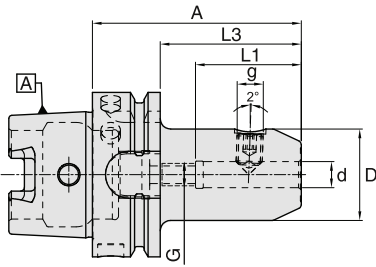


Pg.D21

- Bohrungstoleranz H4
- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Mit 2 Kühlkanälen entlang der Aufnahmebohrung versehen
- Im Lieferumfang enthalten: Spannschraube
- \*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40

- Bore tolerance H4
- Please order coolant tube separately (Refer page D21)
- With two coolant channels along the side of the bore
- Delivery includes: Locking screw
- \*\* 2 locking screws for ID size = 25 / 32 / 40

Fräseraufnahmen DIN 6359 Whistle Notch - für Zylinderschäfte gemäß DIN 1835 E  
 End mill holder to DIN 6359 Whistle Notch (For cylindrical shanks according to DIN 1835 E)



| HSK-A63 |        |        |         |         |     |        |                                    |          |                            |           |
|---------|--------|--------|---------|---------|-----|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G   | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06      | 25     | 80     | 36.5    | 54      | M5  | M6     | Form "AD"                          | 1.00     | WSLH-E/06-80/HSK-A63       | 4601736   |
| 08      | 28     | 80     | 36.5    | 54      | M6  | M8     | Form "AD"                          | 1.00     | WSLH-E/08-80/HSK-A63       | 4601737   |
| 10      | 35     | 80     | 40.5    | 54      | M8  | M10    | Form "AD"                          | 1.05     | WSLH-E/10-80/HSK-A63       | 4601738   |
| 12      | 42     | 90     | 45.5    | 64      | M10 | M12    | Form "AD"                          | 1.30     | WSLH-E/12-90/HSK-A63       | 4601739   |
| 14      | 44     | 90     | 45.5    | 64      | M10 | M12    | Form "AD"                          | 1.35     | WSLH-E/14-90/HSK-A63       | 4601740   |
| 16      | 48     | 100    | 48.5    | 74      | M12 | M14    | Form "AD"                          | 1.55     | WSLH-E/16-100/HSK-A63      | 4601741   |
| 18      | 50     | 100    | 48.5    | 74      | M12 | M14    | Form "AD"                          | 1.45     | WSLH-E/18-100/HSK-A63      | 4601742   |
| 20      | 52     | 100    | 50.5    | 74      | M16 | M16    | Form "AD"                          | 1.70     | WSLH-E/20-100/HSK-A63      | 4601743   |
| 25      | 62.5   | 110    | 56.5    | 84      | M20 | M18 x2 | Form "AD"                          | 2.50     | WSLH-E/25-110/HSK-A63 **   | 4601744   |
| 32      | 72     | 110    | 60.5    | 84      | M20 | M20 x2 | Form "AD"                          | 2.85     | WSLH-E/32-110/HSK-A63 **   | 4601745   |



| HSK-A100 |        |        |         |         |     |        |                                    |          |                            |           |
|----------|--------|--------|---------|---------|-----|--------|------------------------------------|----------|----------------------------|-----------|
| d (mm)   | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G   | g      | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06       | 25     | 90     | 36.5    | 61      | M5  | M6     | Form "AD"                          | 2.35     | WSLH-E/06-90/HSK-A100      | 4601636   |
| 08       | 28     | 90     | 36.5    | 61      | M6  | M8     | Form "AD"                          | 2.40     | WSLH-E/08-90/HSK-A100      | 4601637   |
| 10       | 35     | 90     | 40.5    | 61      | M8  | M10    | Form "AD"                          | 2.60     | WSLH-E/10-90/HSK-A100      | 4601638   |
| 12       | 42     | 100    | 45.5    | 71      | M10 | M12    | Form "AD"                          | 2.90     | WSLH-E/12-100/HSK-A100     | 4601639   |
| 14       | 44     | 100    | 45.5    | 71      | M10 | M12    | Form "AD"                          | 3.00     | WSLH-E/14-100/HSK-A100     | 4601640   |
| 16       | 48     | 100    | 48.5    | 71      | M12 | M14    | Form "AD"                          | 3.05     | WSLH-E/16-100/HSK-A100     | 4601641   |
| 18       | 50     | 100    | 48.5    | 71      | M12 | M14    | Form "AD"                          | 3.15     | WSLH-E/18-100/HSK-A100     | 4601642   |
| 20       | 52     | 110    | 50.5    | 81      | M16 | M16    | Form "AD"                          | 3.35     | WSLH-E/20-110/HSK-A100     | 4601643   |
| 25       | 65     | 120    | 56.5    | 91      | M20 | M18 x2 | Form "AD"                          | 4.20     | WSLH-E/25-120/HSK-A100 **  | 4601644   |
| 32       | 72     | 120    | 60.5    | 91      | M20 | M20 x2 | Form "AD"                          | 4.55     | WSLH-E/32-120/HSK-A100 **  | 4601645   |
| 40       | 80     | 120    | 70.5    | 91      | M20 | M20 x2 | Form "AD"                          | 4.90     | WSLH-E/40-120/HSK-A100 **  | 4601646   |



Ersatzteile und Zubehör / Spare Parts & Accessories:

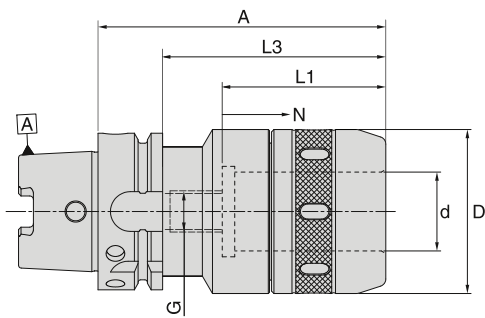


- Bohrungstoleranz H4
- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Stirnseitige Nut als Erkennungsmerkmal (im Unterschied zu Weldon)
- Im Lieferumfang enthalten: Spannschraube und Verstellechraube
- \*\* 2 Spannschrauben für ID Größe = 25 / 32 / 40

- Bore tolerance H4
- Please order coolant tube separately (Refer page D21)
- Groove on face for easy identification (to distinguish from Weldon)
- Delivery includes : Locking screw & adjusting screw
- \*\* 2 locking screws for ID size = 25 / 32 / 40

# Hochleistungsfräserspannfutter

## Hi-Power Milling Chuck



| HSK-A63 |        |        |         |         |       |    |          |                                    |                            |           |  |  |  |
|---------|--------|--------|---------|---------|-------|----|----------|------------------------------------|----------------------------|-----------|--|--|--|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |  |  |  |
| 20      | 52     | 90     | 60      | 68      | M8x1  | -  | 1.75     | Form "AD"                          | WHPMC/20-90/HSK-A63        | 5056123   |  |  |  |
| 25      | 58     | 105    | 70      | 83      | M8x1  | 5  | 2.05     | Form "AD"                          | WHPMC/25-105/HSK-A63       | 5056125   |  |  |  |
| 32      | 66     | 135    | 75      | 113     | M16x1 | 15 | 2.90     | Form "AD"                          | WHPMC/32-135/HSK-A63       | 5056126   |  |  |  |

| HSK-A100 |        |        |         |         |       |    |          |                                    |                            |           |  |  |  |
|----------|--------|--------|---------|---------|-------|----|----------|------------------------------------|----------------------------|-----------|--|--|--|
| d (mm)   | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |  |  |  |
| 20       | 52     | 100    | 60      | 71      | M12x1 | 8  | 3.15     | Form "AD"                          | WHPMC/20-100/HSK-A100      | 5058646   |  |  |  |
| 25       | 58     | 115    | 70      | 86      | M8x1  | 8  | 3.70     | Form "AD"                          | WHPMC/25-115/HSK-A100      | 5056129   |  |  |  |
| 32       | 66     | 135    | 75      | 106     | M16x1 | 15 | 4.30     | Form "AD"                          | WHPMC/32-135/HSK-A100      | 5056132   |  |  |  |

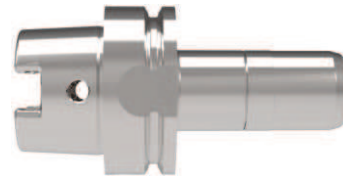
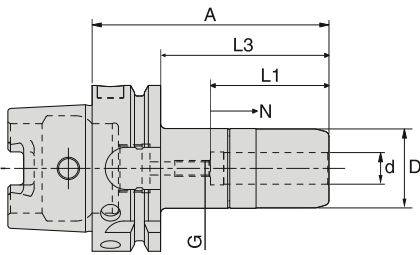
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D12 Pg.D12 Pg.D21

• Kühlmittelrohr bitte separat bestellen (Siehe Seite D21) • Please order coolant tube separately (Refer page D21)

Technische Details siehe Seite F4-F5 / For technical details refer page F4 - F5

# Schlanke Hochleistungsfräserspannfutter

## Slim Hi-Power Milling Chuck



### HSK-A50



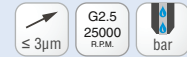
| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G    | N | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|------|---|------------------------------------|----------|----------------------------|-----------|
| 6      | 25     | 100    | 36      | 74      | -    | 8 | Form "AD"                          | 1.20     | WHPMC/S06-100/HSK-A50      | 5105339   |
| 8      | 25     | 100    | 36      | 74      | M6   | 8 | Form "AD"                          | 1.20     | WHPMC/S08-100/HSK-A50      | 5105340   |
| 10     | 30     | 100    | 42      | 74      | M8x1 | 8 | Form "AD"                          | 1.20     | WHPMC/S10-100/HSK-A50      | 5105341   |

### HSK-A63



| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-------|----|------------------------------------|----------|----------------------------|-----------|
| 6      | 25     | 100    | 36      | 74      | M5    | 8  | Form "AD"                          | 1.40     | WHPMC/S06-100/HSK-A63      | 5105342   |
| 8      | 25     | 100    | 36      | 74      | M6    | 8  | Form "AD"                          | 1.40     | WHPMC/S08-100/HSK-A63      | 5105343   |
| 10     | 30     | 100    | 42      | 74      | M8x1  | 8  | Form "AD"                          | 1.40     | WHPMC/S10-100/HSK-A63      | 5105345   |
| 12     | 30     | 90     | 45      | 64      | M8    | 8  | Form "AD"                          | 1.30     | WHPMC/S12-90/HSK-A63       | 5097495   |
| 12     | 30     | 135    | 45      | 109     | M8    | 8  | Form "AD"                          | 1.60     | WHPMC/S12-135/HSK-A63      | 5097496   |
| 16     | 38     | 90     | 50      | 64      | M8    | 10 | Form "AD"                          | 1.30     | WHPMC/S16-90/HSK-A63       | 5097497   |
| 16     | 38     | 135    | 50      | 109     | M8    | 10 | Form "AD"                          | 2.10     | WHPMC/S16-135/HSK-A63      | 5097498   |
| 20     | 44     | 90     | 55      | 64      | -     | -  | Form "AD"                          | 1.65     | WHPMC/S20-90/HSK-A63       | 5097499   |
| 20     | 44     | 150    | 55      | 124     | M12x1 | 10 | Form "AD"                          | 2.55     | WHPMC/S20-150/HSK-A63      | 5097500   |

### HSK-A100



| d (mm) | D (mm) | A (mm) | L1 (mm) | L3 (mm) | G     | N  | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|---------|---------|-------|----|------------------------------------|----------|----------------------------|-----------|
| 12     | 30     | 100    | 45      | 71      | -     | 8  | Form "AD"                          | 3.10     | WHPMC/S12-100/HSK-A100     | 5097501   |
| 12     | 30     | 135    | 45      | 106     | M8    | 8  | Form "AD"                          | 3.30     | WHPMC/S12-135/HSK-A100     | 5097503   |
| 16     | 38     | 100    | 50      | 71      | M8    | 10 | Form "AD"                          | 3.40     | WHPMC/S16-100/HSK-A100     | 5097504   |
| 16     | 38     | 135    | 50      | 106     | M8    | 10 | Form "AD"                          | 3.80     | WHPMC/S16-135/HSK-A100     | 5097505   |
| 20     | 44     | 100    | 55      | 71      | -     | -  | Form "AD"                          | 3.50     | WHPMC/S20-100/HSK-A100     | 5097506   |
| 20     | 44     | 150    | 55      | 121     | M12x1 | 10 | Form "AD"                          | 4.20     | WHPMC/S20-150/HSK-A100     | 5097507   |

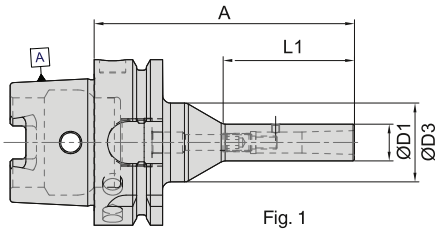
Ersatzteile und Zubehör / Spare Parts & Accessories:



Technische Details siehe Seite F4-F5 / For technical details refer page F4-F5



Micro-Spannzangenhalter  
Micro collet holder



| HSK-A50                   |                  |           |            |            |            |            |                                     |      |             |                            |           |  |
|---------------------------|------------------|-----------|------------|------------|------------|------------|-------------------------------------|------|-------------|----------------------------|-----------|--|
|                           |                  |           |            |            |            |            |                                     |      |             |                            |           |  |
| Spannzange<br>Collet Type | Bereich<br>Range | A<br>(mm) | L1<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | Fig. | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |  |
| MC10                      | 3-4              | 90        | 45         | 10         | -          | 22         | Form "AD"                           | 1    | 0,45        | WMCH/D10-90/HSK-A50        | 5153141   |  |
| MC14                      | 3-6              | 90        | 40         | 14         | -          | 30         | Form "AD"                           | 2    | 0,50        | WMCH/D14-90/HSK-A50        | 5153142   |  |

| HSK-A63                   |                  |           |            |            |            |            |                                     |      |             |                            |           |  |
|---------------------------|------------------|-----------|------------|------------|------------|------------|-------------------------------------|------|-------------|----------------------------|-----------|--|
|                           |                  |           |            |            |            |            |                                     |      |             |                            |           |  |
| Spannzange<br>Collet Type | Bereich<br>Range | A<br>(mm) | L1<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | Fig. | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |  |
| MC14                      | 3-6              | 90        | 40         | 14         | -          | 30         | Form "AD"                           | 1    | 0,80        | WMCH/D14-90/HSK-A63        | 5153143   |  |
| MC14                      | 3-6              | 120       | 70         | 14         | 21.3       | 30         | Form "AD"                           | 2    | 0,90        | WMCH/D14-120/HSK-A63       | 5153144   |  |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D16 Pg.D16 Pg.D16 Pg.D21



Für HSK-E typ siehe Seite C28 / HSK-E variants are also available, please refer page no.C28

Für Technische Details siehe Seite F8 / For technical details please refer page F8 and also the instruction manual provided in the packing box.

Hydrodehnspannfutter (kurze & verstärkt)  
Hydraulic Expansion Chucks (Short & Rigid)

BT MAS 403  
ISO7388-2

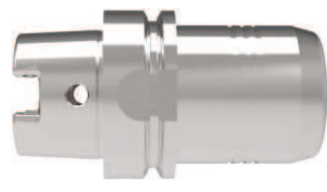
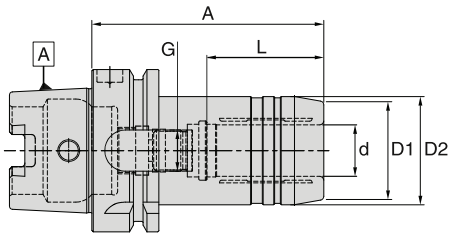
SK DIN 69871  
ISO7388-1

HSK DIN 69893

Zubehör  
Accessories

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details



**HSK-A63**

| d (mm) | A  | D1 (mm) | D2 (mm) | L  | G      | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
|--------|----|---------|---------|----|--------|----------|------------------------------------|----------------------------|-----------|
| 12     | 80 | 32      | 42.0    | 41 | M8X1.0 | 1.20     | Form "AD"                          | WHEC-P/12-80/HSK-A63       | 5159324   |
| 20     | 80 | 38      | 52.5    | 48 | M8X1.0 | 1.30     | Form "AD"                          | WHEC-P/20-80/HSK-A63       | 5159325   |

**HSK-A100**

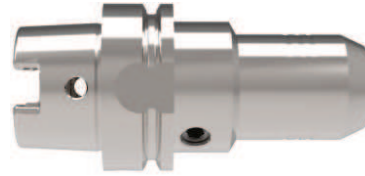
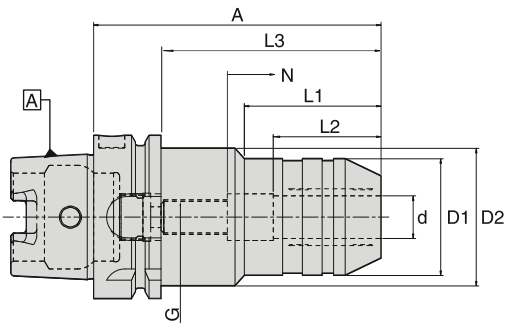
| d (mm) | A   | D1 (mm) | D2 (mm) | L  | G      | N/W (Kg) | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
|--------|-----|---------|---------|----|--------|----------|------------------------------------|----------------------------|-----------|
| 20     | 90  | 38.0    | 52.5    | 48 | M8X1.0 | 2.80     | Form "AD"                          | WHEC-P/20-90/HSK-A100      | 5159326   |
| 32     | 100 | 58.5    | 72.0    | 57 | M8X1.0 | 3.70     | Form "AD"                          | WHEC-P/32-100/HSK-A100     | 5159327   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D14 Pg.D21

- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Please order coolant tube separately (Refer page D21)

# Hydrodehnspannfutter

## Hydraulic Expansion Chucks



| HSK-A50 |        |         |         |         |         |         |         |    |          |                                     |                            |           |
|---------|--------|---------|---------|---------|---------|---------|---------|----|----------|-------------------------------------|----------------------------|-----------|
| d (mm)  | A (mm) | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | G       | N  | N/W (Kg) | Kühlmittelezufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 06      | 70     | 26      | 40      | 28      | 27      | 44      | M5X0.8  | 10 | 0.65     | Form "AD"                           | WHEC/06-70/HSK-A50         | 5161198   |
| 08      | 70     | 28      | 40      | 28      | 27      | 44      | M6X1.0  | 10 | 0.70     | Form "AD"                           | WHEC/08-70/HSK-A50         | 5161199   |
| 10      | 75     | 30      | 40      | 34      | 32      | 54      | M8X1.0  | 10 | 0.70     | Form "AD"                           | WHEC/10-75/HSK-A50         | 5161200   |
| 12      | 85     | 32      | 40      | 44      | 37      | 59      | M10X1.0 | 10 | 0.75     | Form "AD"                           | WHEC/12-85/HSK-A50         | 5161202   |
| 14      | 85     | 34      | 40      | 43      | 37      | 59      | M10X1.0 | 10 | 0.75     | Form "AD"                           | WHEC/14-85/HSK-A50         | 5161204   |
| 16      | 90     | 38      | 53      | 30      | 42      | 64      | M12X1.0 | 10 | 0.90     | Form "AD"                           | WHEC/16-90/HSK-A50         | 5161206   |
| 18      | 90     | 40      | 57      | 30      | 42      | 64      | M12X1.0 | 10 | 0.90     | Form "AD"                           | WHEC/18-90/HSK-A50         | 5161207   |
| 20      | 90     | 42      | 60      | 29      | 42      | 64      | M16X1.0 | 10 | 1.10     | Form "AD"                           | WHEC/20-90/HSK-A50         | 5161208   |



| HSK-A63 |        |         |         |         |         |         |         |    |          |                                     |                            |           |
|---------|--------|---------|---------|---------|---------|---------|---------|----|----------|-------------------------------------|----------------------------|-----------|
| d (mm)  | A (mm) | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | G       | N  | N/W (Kg) | Kühlmittelezufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 06      | 70     | 26      | 50      | 24      | 27      | 44      | M5X0.8  | 10 | 1.08     | Form "AD"                           | WHEC/06-70/HSK-A63         | 5056135   |
| 08      | 70     | 28      | 50      | 25      | 27      | 44      | M6X1.0  | 10 | 1.09     | Form "AD"                           | WHEC/08-70/HSK-A63         | 5056136   |
| 10      | 80     | 30      | 50      | 35      | 32      | 54      | M8X1.0  | 10 | 1.00     | Form "AD"                           | WHEC/10-80/HSK-A63         | 5056137   |
| 12      | 85     | 32      | 50      | 40      | 37      | 59      | M10X1.0 | 10 | 1.03     | Form "AD"                           | WHEC/12-85/HSK-A63         | 5056138   |
| 14      | 85     | 34      | 50      | 40      | 37      | 59      | M10X1.0 | 10 | 1.05     | Form "AD"                           | WHEC/14-85/HSK-A63         | 5056139   |
| 16      | 90     | 38      | 50      | 46      | 42      | 64      | M12X1.0 | 10 | 1.15     | Form "AD"                           | WHEC/16-90/HSK-A63         | 5056140   |
| 18      | 90     | 40      | 50      | 47      | 42      | 64      | M12X1.0 | 10 | 1.15     | Form "AD"                           | WHEC/18-90/HSK-A63         | 5056141   |
| 20      | 90     | 42      | 50      | 48      | 42      | 64      | M16X1.0 | 10 | 1.20     | Form "AD"                           | WHEC/20-90/HSK-A63         | 5056143   |
| 25      | 120    | 57      | 63      | 59      | 48      | 94      | M16X1.0 | 10 | 2.20     | Form "AD"                           | WHEC/25-120/HSK-A63        | 5056146   |
| 32      | 125    | 64      | 75      | 63      | 55      | 99      | M16X1.0 | 10 | 2.40     | Form "AD"                           | WHEC/32-125/HSK-A63        | 5056147   |



| HSK-A100 |         |         |        |         |         |         |         |    |          |                                     |                            |           |
|----------|---------|---------|--------|---------|---------|---------|---------|----|----------|-------------------------------------|----------------------------|-----------|
| d (mm)   | D1 (mm) | D2 (mm) | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | G       | N  | N/W (Kg) | Kühlmittelezufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident No. |
| 06       | 26      | 50      | 75     | 26      | 27      | 46      | M5X0.8  | 10 | 3.20     | Form "AD"                           | WHEC/06-75/HSK-A100        | 5056148   |
| 08       | 28      | 50      | 75     | 26      | 27      | 46      | M6X1.0  | 10 | 3.20     | Form "AD"                           | WHEC/08-75/HSK-A100        | 5056149   |
| 10       | 30      | 50      | 90     | 42      | 32      | 61      | M8X1.0  | 10 | 3.40     | Form "AD"                           | WHEC/10-90/HSK-A100        | 5056153   |
| 12       | 32      | 50      | 95     | 47      | 37      | 66      | M10X1.0 | 10 | 3.40     | Form "AD"                           | WHEC/12-95/HSK-A100        | 5056154   |
| 14       | 34      | 50      | 95     | 47      | 37      | 66      | M10X1.0 | 10 | 3.40     | Form "AD"                           | WHEC/14-95/HSK-A100        | 5056155   |
| 16       | 38      | 50      | 100    | 53      | 42      | 71      | M12X1.0 | 10 | 3.50     | Form "AD"                           | WHEC/16-100/HSK-A100       | 5056156   |
| 18       | 40      | 50      | 100    | 53      | 42      | 71      | M12X1.0 | 10 | 3.60     | Form "AD"                           | WHEC/18-100/HSK-A100       | 5056157   |
| 20       | 42      | 50      | 105    | 59      | 42      | 76      | M16X1.0 | 10 | 4.00     | Form "AD"                           | WHEC/20-105/HSK-A100       | 5056158   |
| 25       | 57      | 63      | 110    | 62      | 48      | 81      | M16X1.0 | 10 | 4.20     | Form "AD"                           | WHEC/25-110/HSK-A100       | 5056159   |
| 32       | 64      | 75      | 110    | 62      | 55      | 81      | M16X1.0 | 10 | 4.30     | Form "AD"                           | WHEC/32-110/HSK-A100       | 5056160   |

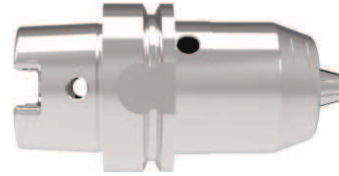
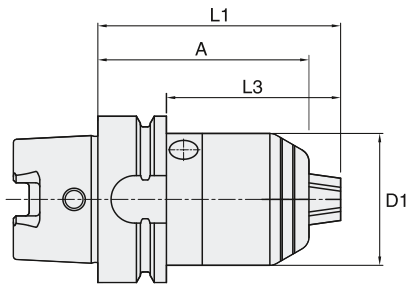


Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D14

Pg.D21

• Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)

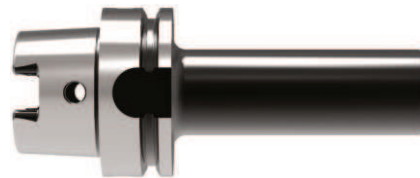
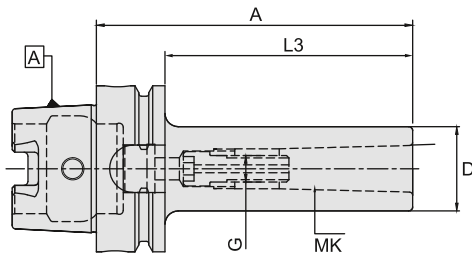
• Please order coolant tube separately (Refer page D21)

NC Bohrfutter  
 NC Drill Chucks


| HSK - A63, A100 |        |        |         |               |                                 |          |                         |           |
|-----------------|--------|--------|---------|---------------|---------------------------------|----------|-------------------------|-----------|
| D (mm)          | A (mm) | L (mm) | L3 (mm) | Bereich Range | Kühlmittelzufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 50              | 98     | 110    | 84      | 1-16          | Form "AD"                       | 1.56     | WNDC/1-16-98/HSK-A63    | 5056229   |
| 50              | 104    | 116    | 87      | 1-16          | Form "AD"                       | 2.91     | WNDC/1-16-104/HSK-A100  | 5056231   |

- kompakte Bauweise
- hohe Rundlaufgenauigkeit
- sichere Spannung durch selbsthemmendes Getriebe
- für Rechts - und Linkslauf geeignet

- compact design
- high run-out accuracy
- secure clamping due to self-locking gear
- suitable for clockwise and counter-clockwise operations

 Zwischenhülsen für Morse-Kegel mit Anzugsgewinde DIN 6364 / 228A  
 Adaptor sleeves for Morse taper with thread DIN 6364 / 228A


| HSK-A63 |        |        |         |     |                                 |          |                         |           |
|---------|--------|--------|---------|-----|---------------------------------|----------|-------------------------|-----------|
| MK      | D (mm) | A (mm) | L3 (mm) | G   | Kühlmittelzufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 1       | 25     | 100    | 74      | M6  | -                               | 1.00     | WMTB/MT1-100/HSK-A63    | 4601750   |
| 2       | 32     | 120    | 94      | M10 | -                               | 1.20     | WMTB/MT2-120/HSK-A63    | 4601751   |
| 3       | 40     | 140    | 114     | M12 | -                               | 1.60     | WMTB/MT3-140/HSK-A63    | 4601752   |
| 4       | 48     | 160    | 134     | M16 | -                               | 2.10     | WMTB/MT4-160/HSK-A63    | 4601753   |

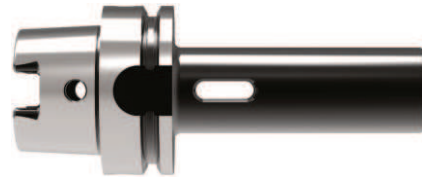
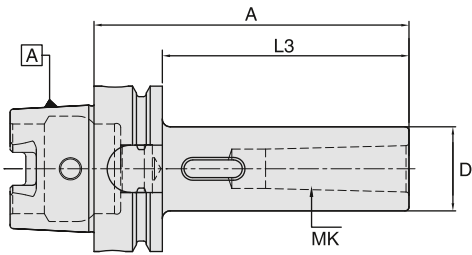
| HSK-A100 |        |        |         |     |                                 |          |                         |           |
|----------|--------|--------|---------|-----|---------------------------------|----------|-------------------------|-----------|
| MK       | D (mm) | A (mm) | L3 (mm) | G   | Kühlmittelzufuhr Coolant supply | N/W (Kg) | Bezeichnung Designation | Ident No. |
| 1        | 25     | 110    | 81      | M6  | -                               | 2.45     | WMTB/MT1-110/HSK-A100   | 4601652   |
| 2        | 32     | 120    | 91      | M10 | -                               | 2.60     | WMTB/MT2-120/HSK-A100   | 4601653   |
| 3        | 40     | 150    | 121     | M12 | -                               | 3.00     | WMTB/MT3-150/HSK-A100   | 4601654   |
| 4        | 48     | 170    | 141     | M16 | -                               | 3.55     | WMTB/MT4-170/HSK-A100   | 4601655   |
| 5        | 63     | 200    | 171     | M20 | -                               | 4.90     | WMTB/MT5-200/HSK-A100   | 4601656   |

|  |       |       |        |
|--|-------|-------|--------|
| Ersatzteile und Zubehör / Spare Parts & Accessories: | Pg.E5 | Pg.E5 | Pg.D21 |
|--|-------|-------|--------|

- Im Lieferumfang enthalten: eingebaute Innensechskantschraube
- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)

- Delivery includes : built-in draw screw
- Please order coolant tube separately (Refer page D21)

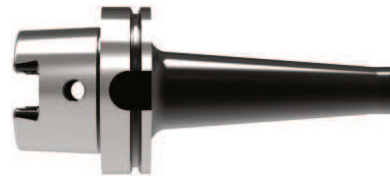
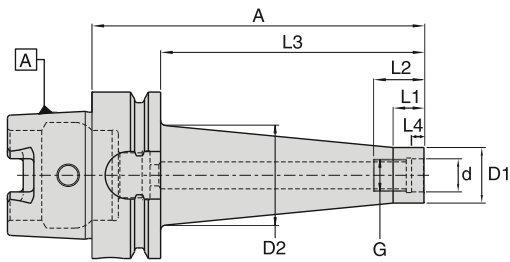
Zwischenhülsen für Morse-Kegel mit Austreibblappen DIN 6383  
 Adaptor sleeves for Morse taper with tang to DIN 6383



| HSK-A63 |        |        |         |                                     |          |                            |           |
|---------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
|         |        |        |         |                                     |          |                            |           |
| MK      | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1       | 25     | 100    | 74      | -                                   | 1.00     | WMTA/MT1-100/HSK-A63       | 4601746   |
| 2       | 32     | 120    | 94      | -                                   | 1.20     | WMTA/MT2-120/HSK-A63       | 4601747   |
| 3       | 40     | 140    | 114     | -                                   | 1.60     | WMTA/MT3-140/HSK-A63       | 4601748   |
| 4       | 48     | 160    | 134     | -                                   | 2.10     | WMTA/MT4-160/HSK-A63       | 4601749   |

| HSK-A100 |        |        |         |                                     |          |                            |           |
|----------|--------|--------|---------|-------------------------------------|----------|----------------------------|-----------|
|          |        |        |         |                                     |          |                            |           |
| MK       | D (mm) | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 1        | 25     | 110    | 81      | -                                   | 2.35     | WMTA/MT1-110/HSK-A100      | 4601647   |
| 2        | 32     | 120    | 91      | -                                   | 2.55     | WMTA/MT2-120/HSK-A100      | 4601648   |
| 3        | 40     | 150    | 121     | -                                   | 3.00     | WMTA/MT3-150/HSK-A100      | 4601649   |
| 4        | 48     | 170    | 141     | -                                   | 3.50     | WMTA/MT4-170/HSK-A100      | 4601650   |
| 5        | 63     | 200    | 171     | -                                   | 4.65     | WMTA/MT5-200/HSK-A100      | 4601651   |

• Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)      • Please order coolant tube separately (Refer page D21)



HSK-A63



| G   | d (mm) | D1 (mm) | D2 (mm) | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|-----|--------|---------|---------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| M8  | 8.5    | 13.8    | 15      | 51     | 12      | 19      | 25      | 6.5     | Form "AD"                           | 0.75     | WTA/M8-51/HSK-A63          | 5055783   |
| M8  | 8.5    | 13.8    | 23      | 76     | 12      | 19      | 50      | 6.5     | Form "AD"                           | 0.85     | WTA/M8-76/HSK-A63          | 5055784   |
| M8  | 8.5    | 13.8    | 25      | 101    | 12      | 19      | 75      | 6.5     | Form "AD"                           | 0.90     | WTA/M8-101/HSK-A63         | 5055785   |
| M10 | 10.5   | 18.0    | 23      | 51     | 12      | 19      | 25      | 6.5     | Form "AD"                           | 0.75     | WTA/M10-51/HSK-A63         | 5055786   |
| M10 | 10.5   | 18.0    | 25      | 76     | 12      | 19      | 50      | 6.5     | Form "AD"                           | 0.85     | WTA/M10-76/HSK-A63         | 5055787   |
| M10 | 10.5   | 18.0    | 35      | 126    | 12      | 19      | 100     | 6.5     | Form "AD"                           | 1.10     | WTA/M10-126/HSK-A63        | 5055788   |
| M10 | 10.5   | 18.0    | 45      | 176    | 12      | 19      | 150     | 6.5     | Form "AD"                           | 1.50     | WTA/M10-176/HSK-A63        | 5055789   |
| M12 | 12.5   | 21.0    | 24      | 51     | 12      | 25      | 25      | 7.0     | Form "AD"                           | 0.75     | WTA/M12-51/HSK-A63         | 5055790   |
| M12 | 12.5   | 21.0    | 30      | 76     | 12      | 25      | 50      | 7.0     | Form "AD"                           | 0.90     | WTA/M12-76/HSK-A63         | 5055791   |
| M12 | 12.5   | 21.0    | 38      | 126    | 12      | 25      | 100     | 7.0     | Form "AD"                           | 1.20     | WTA/M12-126/HSK-A63        | 5055792   |
| M12 | 12.5   | 21.0    | 45      | 176    | 12      | 25      | 150     | 7.0     | Form "AD"                           | 1.70     | WTA/M12-176/HSK-A63        | 5055793   |
| M16 | 17.0   | 29.0    | 29      | 51     | 12      | 31      | 25      | 8.0     | Form "AD"                           | 0.85     | WTA/M16-51/HSK-A63         | 5055794   |
| M16 | 17.0   | 29.0    | 34      | 76     | 12      | 31      | 50      | 8.0     | Form "AD"                           | 0.95     | WTA/M16-76/HSK-A63         | 5055795   |
| M16 | 17.0   | 29.0    | 40      | 126    | 12      | 31      | 100     | 8.0     | Form "AD"                           | 1.40     | WTA/M16-126/HSK-A63        | 5055796   |
| M16 | 17.0   | 29.0    | 48      | 176    | 12      | 31      | 150     | 8.0     | Form "AD"                           | 1.95     | WTA/M16-176/HSK-A63        | 5055797   |

HSK-A100



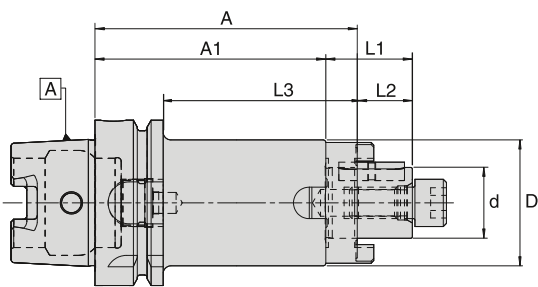
| G   | d (mm) | D1 (mm) | D2 (mm) | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
|-----|--------|---------|---------|--------|---------|---------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| M10 | 10.5   | 18.0    | 25      | 79     | 12      | 19      | 50      | 6.5     | Form "AD"                           | 2.20     | WTA/M10-79/HSK-A100        | 5055798   |
| M10 | 10.5   | 18.0    | 35      | 129    | 12      | 19      | 100     | 6.5     | Form "AD"                           | 2.50     | WTA/M10-129/HSK-A100       | 5055799   |
| M10 | 10.5   | 18.0    | 45      | 179    | 12      | 19      | 150     | 6.5     | Form "AD"                           | 3.00     | WTA/M10-179/HSK-A100       | 5055800   |
| M12 | 12.5   | 21.0    | 30      | 79     | 12      | 25      | 50      | 7.0     | Form "AD"                           | 2.20     | WTA/M12-79/HSK-A100        | 5055801   |
| M12 | 12.5   | 21.0    | 38      | 129    | 12      | 25      | 100     | 7.0     | Form "AD"                           | 2.55     | WTA/M12-129/HSK-A100       | 5055802   |
| M12 | 12.5   | 21.0    | 45      | 179    | 12      | 25      | 150     | 7.0     | Form "AD"                           | 3.05     | WTA/M12-179/HSK-A100       | 5055803   |
| M16 | 17.0   | 29.0    | 34      | 79     | 12      | 31      | 50      | 8.0     | Form "AD"                           | 2.30     | WTA/M16-79/HSK-A100        | 5055804   |
| M16 | 17.0   | 29.0    | 40      | 129    | 12      | 31      | 100     | 8.0     | Form "AD"                           | 2.75     | WTA/M16-129/HSK-A100       | 5055805   |
| M16 | 17.0   | 29.0    | 48      | 179    | 12      | 31      | 150     | 8.0     | Form "AD"                           | 3.30     | WTA/M16-179/HSK-A100       | 5055806   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D21

- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Siehe Seite D15 für Einschraubfräser Verlängerung & Reduzierung
- Please order coolant tube separately (Refer page D21)
- Refer page D15 for Threaded Arbor extensions & reductions.



Aufsteckfräserdorne DIN 6358 mit Längs- und Quernut (Kombi)  
Shell mill holder with DIN 6358 (Combi)



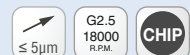
| HSK-A63 |        |        |         |         |         |         |                                    |          |                            |           |
|---------|--------|--------|---------|---------|---------|---------|------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16      | 32     | 60     | 50      | 27      | 17      | 34      | -                                  | 1.00     | WFSH/16-60/HSK-A63         | 4601754   |
| 22      | 40     | 60     | 48      | 31      | 19      | 34      | -                                  | 1.20     | WFSH/22-60/HSK-A63         | 4601756   |
| 27      | 48     | 60     | 48      | 33      | 21      | 34      | -                                  | 1.50     | WFSH/27-60/HSK-A63         | 4601758   |
| 32      | 53     | 60     | 46      | 38      | 24      | 34      | -                                  | 1.55     | WFSH/32-60/HSK-A63         | 4601760   |
| 40      | 70     | 70     | 56      | 41      | 27      | 44      | -                                  | 2.10     | WFSH/40-70/HSK-A63 *       | 4601762   |
| 16      | 32     | 100    | 90      | 27      | 17      | 74      | -                                  | 1.30     | WFSH/16-100/HSK-A63        | 4601755   |
| 22      | 40     | 100    | 88      | 31      | 19      | 74      | -                                  | 1.50     | WFSH/22-100/HSK-A63        | 4601757   |
| 27      | 48     | 100    | 88      | 33      | 21      | 74      | -                                  | 2.00     | WFSH/27-100/HSK-A63        | 4601759   |
| 32      | 58     | 100    | 86      | 38      | 24      | 74      | -                                  | 2.60     | WFSH/32-100/HSK-A63        | 4601761   |
| 40      | 70     | 100    | 86      | 41      | 27      | 74      | -                                  | 3.10     | WFSH/40-100/HSK-A63 *      | 5055763   |



| HSK-A63 |        |        |         |         |         |         |                                    |          |                            |           |
|---------|--------|--------|---------|---------|---------|---------|------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16      | 32     | 160    | 150     | 27      | 17      | 134     | -                                  | 1.90     | WFSH/16-160/HSK-A63 ❖      | 5055764   |
| 22      | 40     | 160    | 148     | 31      | 19      | 134     | -                                  | 2.50     | WFSH/22-160/HSK-A63 ❖      | 5055765   |
| 27      | 48     | 160    | 148     | 33      | 21      | 134     | -                                  | 2.90     | WFSH/27-160/HSK-A63        | 5055766   |
| 32      | 58     | 160    | 146     | 38      | 24      | 134     | -                                  | 3.60     | WFSH/32-160/HSK-A63        | 5055767   |
| 40      | 70     | 160    | 146     | 41      | 27      | 134     | -                                  | 4.80     | WFSH/40-160/HSK-A63 *      | 5055772   |



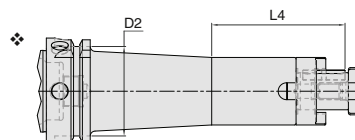
| HSK-A100 |        |        |         |         |         |         |                                    |          |                            |           |
|----------|--------|--------|---------|---------|---------|---------|------------------------------------|----------|----------------------------|-----------|
| d (mm)   | D (mm) | A (mm) | A1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16       | 32     | 60     | 50      | 27      | 17      | 31      | -                                  | 2.30     | WFSH/16-60/HSK-A100        | 5055773   |
| 22       | 40     | 60     | 48      | 31      | 19      | 31      | -                                  | 2.55     | WFSH/22-60/HSK-A100        | 4601658   |
| 27       | 48     | 60     | 48      | 33      | 21      | 31      | -                                  | 2.70     | WFSH/27-60/HSK-A100        | 4601659   |
| 32       | 58     | 60     | 46      | 38      | 24      | 31      | -                                  | 3.00     | WFSH/32-60/HSK-A100        | 4601660   |
| 40       | 70     | 70     | 56      | 41      | 27      | 41      | -                                  | 3.60     | WFSH/40-70/HSK-A100 *      | 4601661   |



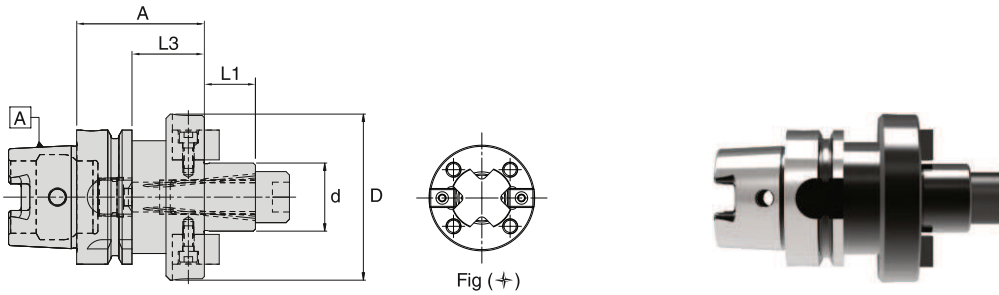
Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E3 Pg.E4 Pg.E3 Pg.D21 Pg.D21

- Im Lieferumfang enthalten: Passfeder, Mitnehmerring, Fräseranzugsschraube und Spannschrauben (DIN 912)
- Spannschrauben (DIN 6367) bitte separat bestellen (Siehe Seite E3)
- \* Im Lieferumfang enthalten: Spannschrauben (DIN 912 & DIN 6367)
- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- ❖ Für WFSH/16-160/HSK-A63, D2=49.2mm & L4=77mm
- For WFSH/22-160/HSK-A63, D2=53.3mm & L4=81mm

- Delivery includes : Parallel key, drive ring, clamping screw and locking screw (DIN 912)
- Please order locking screw (DIN 6367) separately (refer page E3)
- \* Delivery includes : Locking screw (both DIN 912 & DIN 6367)
- Please order coolant tube separately (Refer page D21)
- ❖ Note: For WFSH/16-160/HSK-A63, D2=49.2mm & L4=77mm
- For WFSH/22-160/HSK-A63, D2=53.3mm & L4=81mm



Aufnahmedorn mit Innenzentrierung DIN 6357 und vergrößertem Bunddurchmesser  
Shell mill holder DIN 6357 for cutters with drive key



| HSK-A50 |        |        |         |         |                                     |          |                            |           |
|---------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16      | 38     | 50     | 17      | 24      | Form "AD"                           | 0.75     | WSMH/16-50/HSK-A50         | 5103448   |
| 22      | 48     | 60     | 19      | 34      | Form "AD"                           | 1.05     | WSMH/22-60/HSK-A50         | 5103450   |
| 27      | 58     | 60     | 21      | 34      | Form "AD"                           | 1.30     | WSMH/27-60/HSK-A50         | 5103452   |
| 32      | 78     | 60     | 24      | 34      | Form "AD"                           | 1.60     | WSMH/32-60/HSK-A50         | 5103454   |
| 16      | 38     | 100    | 17      | 74      | Form "AD"                           | 1.25     | WSMH/16-100/HSK-A50        | 5103457   |
| 22      | 48     | 100    | 19      | 74      | Form "AD"                           | 1.60     | WSMH/22-100/HSK-A50        | 5103459   |
| 27      | 58     | 100    | 21      | 74      | Form "AD"                           | 2.00     | WSMH/27-100/HSK-A50        | 5103461   |
| 32      | 78     | 100    | 24      | 74      | Form "AD"                           | 2.40     | WSMH/32-100/HSK-A50        | 5103462   |



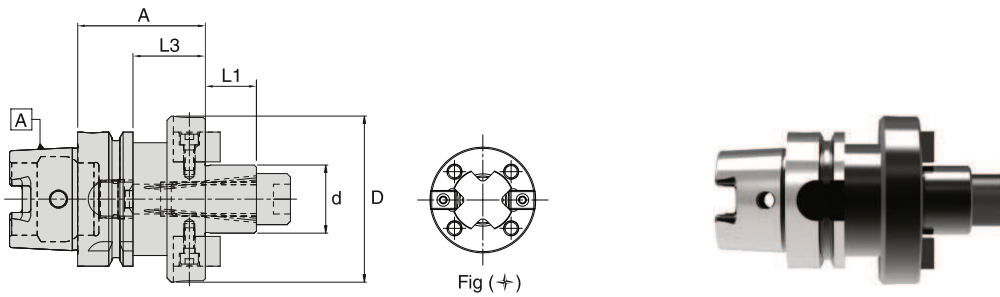
| HSK-A63 |        |        |         |         |                                     |          |                            |           |
|---------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16      | 38     | 50     | 17      | 24      | Form "AD"                           | 1.05     | WSMH/16-50/HSK-A63         | 4601763   |
| 22      | 48     | 50     | 19      | 24      | Form "AD"                           | 1.20     | WSMH/22-50/HSK-A63         | 4601765   |
| 27      | 58     | 60     | 21      | 34      | Form "AD"                           | 1.60     | WSMH/27-60/HSK-A63         | 4601767   |
| 32      | 78     | 60     | 24      | 34      | Form "AD"                           | 1.90     | WSMH/32-60/HSK-A63         | 4601769   |
| 40      | 88     | 60     | 27      | 34      | Form "AD"                           | 2.40     | WSMH/40-60/HSK-A63+*       | 4601771   |
| 16      | 38     | 100    | 17      | 74      | Form "AD"                           | 1.50     | WSMH/16-100/HSK-A63        | 4601764   |
| 22      | 48     | 100    | 19      | 74      | Form "AD"                           | 1.90     | WSMH/22-100/HSK-A63        | 4601766   |
| 27      | 58     | 100    | 21      | 74      | Form "AD"                           | 2.40     | WSMH/27-100/HSK-A63        | 4601768   |
| 32      | 78     | 100    | 24      | 74      | Form "AD"                           | 3.30     | WSMH/32-100/HSK-A63        | 4601770   |
| 40      | 88     | 100    | 27      | 74      | Form "AD"                           | 4.00     | WSMH/40-100/HSK-A63+*      | 4601772   |
| 16      | 38     | 160    | 17      | 134     | Form "AD"                           | 1.82     | WSMH/16-160/HSK-A63        | 5152830   |
| 22      | 48     | 160    | 19      | 134     | Form "AD"                           | 2.56     | WSMH/22-160/HSK-A63        | 5152831   |
| 27      | 58     | 160    | 21      | 134     | Form "AD"                           | 3.42     | WSMH/27-160/HSK-A63        | 5152832   |
| 32      | 78     | 160    | 24      | 134     | Form "AD"                           | 5.21     | WSMH/32-160/HSK-A63        | 5152833   |
| 40      | 88     | 160    | 27      | 134     | Form "AD"                           | 6.73     | WSMH/40-160/HSK-A63+*      | 5152834   |



Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D21 Pg.E3 Pg.E4 Pg.E4 Pg.D21

- Kühlbohrung an der Stirnseite Standard bei allen Grundhaltern  
+ ID = Ø 40, D = Ø 60 Mit 4 zusätzlichen Gewindebohrungen nach DIN 2079
- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Im Lieferumfang enthalten: Mitnehmersteine, Fräseranzugsschraube und Spannschrauben (DIN 912)
- \* Im Lieferumfang enthalten: Spannschrauben (DIN 912 & DIN 6367)
- Spannschrauben (DIN6367) bitte separat bestellen (Siehe Seite E3)
- Coolant bore on the pilot face (holder with Form"AD") as standard for all holders  
+ ID = Ø 40, d = Ø 60 With additional 4 screw holes to DIN 2079
- Please order coolant tube separately (Refer page D21)
- Delivery includes : Drive keys, clamping screw and locking screw (DIN 912)
- \* Delivery includes : Locking screw (both DIN 912 & DIN 6367)
- Please order locking screw (DIN6367) separately (refer page E3)

Aufnahmedorn mit Innenzentrierung DIN 6357 und vergrößertem Bunddurchmesser  
Shell mill holder DIN 6357 for cutters with drive key



| HSK-A100 |        |        |         |         |                                     |          |                            |           |
|----------|--------|--------|---------|---------|-------------------------------------|----------|----------------------------|-----------|
| d (mm)   | D (mm) | A (mm) | L1 (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 16       | 38     | 50     | 17      | 21      | Form "AD"                           | 2.35     | WSMH/16-50/HSK-A100        | 5056120   |
| 22       | 48     | 50     | 19      | 21      | Form "AD"                           | 2.50     | WSMH/22-50/HSK-A100        | 4601663   |
| 27       | 58     | 50     | 21      | 21      | Form "AD"                           | 2.80     | WSMH/27-50/HSK-A100        | 4601664   |
| 32       | 78     | 50     | 24      | 21      | Form "AD"                           | 3.10     | WSMH/32-50/HSK-A100        | 4601665   |
| 40       | 88     | 60     | 27      | 31      | Form "AD"                           | 4.00     | WSMH/40-60/HSK-A100+*      | 4601666   |
| 60       | 129    | 70     | 40      | 41      | Form "AD"                           | 6.15     | WSMH/60-70/HSK-A100+       | 5056122   |
| 16       | 38     | 100    | 17      | 71      | Form "AD"                           | 2.70     | WSMH/16-100/HSK-A100       | 5152835   |
| 22       | 48     | 100    | 19      | 71      | Form "AD"                           | 3.06     | WSMH/22-100/HSK-A100       | 5152836   |
| 27       | 58     | 100    | 21      | 71      | Form "AD"                           | 3.57     | WSMH/27-100/HSK-A100       | 5152837   |
| 32       | 78     | 100    | 24      | 71      | Form "AD"                           | 4.74     | WSMH/32-100/HSK-A100       | 5152838   |
| 40       | 88     | 100    | 27      | 71      | Form "AD"                           | 5.57     | WSMH/40-100/HSK-A100+*     | 5152839   |
| 16       | 38     | 160    | 17      | 131     | Form "AD"                           | 3.26     | WSMH/16-160/HSK-A100       | 5152840   |
| 22       | 48     | 160    | 19      | 131     | Form "AD"                           | 3.88     | WSMH/22-160/HSK-A100       | 5152841   |
| 27       | 58     | 160    | 21      | 131     | Form "AD"                           | 4.77     | WSMH/27-160/HSK-A100       | 5152842   |
| 32       | 78     | 160    | 24      | 131     | Form "AD"                           | 6.94     | WSMH/32-160/HSK-A100       | 5152843   |
| 40       | 88     | 160    | 27      | 131     | Form "AD"                           | 8.40     | WSMH/40-160/HSK-A100+*     | 5152844   |

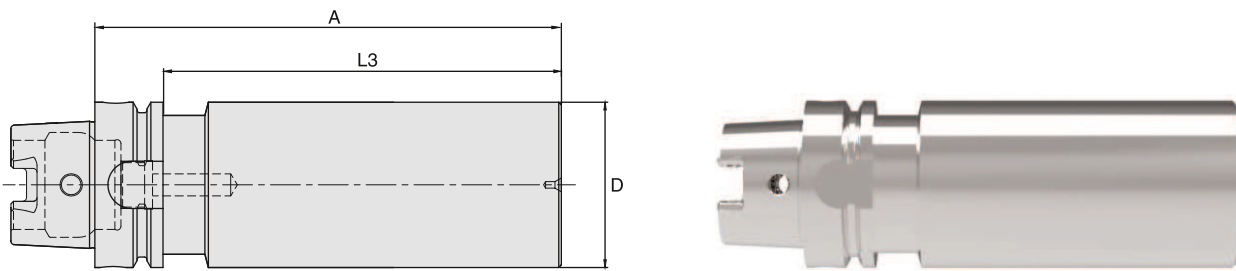


Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D21 Pg.E3 Pg.E4 Pg.E4 Pg.D21

- Kühlbohrung an der Stirnseite Standard bei allen Grundhaltern  
‡ ID = Ø 40, D = Ø 60 Mit 4 zusätzlichen Gewindebohrungen nach DIN 2079
  - Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
  - Im Lieferumfang enthalten: Mitnehmersteine, Fräseranzugsschraube und Spannschrauben (DIN 912)
  - \* Im Lieferumfang enthalten: Spannschrauben (DIN 912 & DIN 6367)
  - Spannschrauben (DIN6367) bitte separat bestellen (Siehe Seite E3)
- Coolant bore on the pilot face (holder with Form"AD") as standard for all holders  
‡ ID = Ø 40, d = Ø 60 With additional 4 screw holes to DIN 2079
  - Please order coolant tube separately (Refer page D21)
  - Delivery includes : Drive keys, clamping screw and locking screw (DIN 912)
  - \* Delivery includes : Locking screw (both DIN 912 & DIN 6367)
  - Please order locking screw (DIN6367) separately (refer page E3)

# Bohrstangenrohlinge

## Boring bar blanks



| HSK-A32 |        |         |                                     |          |                            |           | 35 ± 5 HRC | CHIP |
|---------|--------|---------|-------------------------------------|----------|----------------------------|-----------|------------|------|
| D (mm)  | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |            |      |
| 35      | 150    | 130     | -                                   | 1.10     | WBBB/35-150/HSK-A32        | 9202418   |            |      |

| HSK-A40 |        |         |                                     |          |                            |           | 35 ± 5 HRC | CHIP |
|---------|--------|---------|-------------------------------------|----------|----------------------------|-----------|------------|------|
| D (mm)  | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |            |      |
| 40      | 150    | 130     | -                                   | 1.60     | WBBB/40-150/HSK-A40        | 9202419   |            |      |
| 52      | 200    | 180     | -                                   | 3.20     | WBBB/52-200/HSK-A40        | 9202420   |            |      |

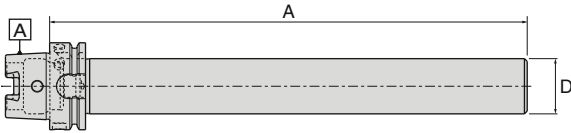
| HSK-A50 |        |         |                                     |          |                            |           | 35 ± 5 HRC | CHIP |
|---------|--------|---------|-------------------------------------|----------|----------------------------|-----------|------------|------|
| D (mm)  | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |            |      |
| 52      | 200    | 174     | -                                   | 3.25     | WBBB/52-200/HSK-A50        | 9202421   |            |      |
| 63      | 200    | 174     | -                                   | 4.50     | WBBB/63-200/HSK-A50        | 9202422   |            |      |

| HSK-A63 |        |         |                                     |          |                            |           | 35 ± 5 HRC | CHIP |
|---------|--------|---------|-------------------------------------|----------|----------------------------|-----------|------------|------|
| D (mm)  | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |            |      |
| 63      | 200    | 174     | -                                   | 4.90     | WBBB/63-200/HSK-A63        | 5056270   |            |      |
| 80      | 250    | 224     | -                                   | 9.15     | WBBB/80-250/HSK-A63        | 5056271   |            |      |

| HSK-A100 |        |         |                                     |          |                            |           | 35 ± 5 HRC | CHIP |
|----------|--------|---------|-------------------------------------|----------|----------------------------|-----------|------------|------|
| D (mm)   | A (mm) | L3 (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |            |      |
| 63.0     | 200    | 171     | -                                   | 6.30     | WBBB/63-200/HSK-A100       | 5056272   |            |      |
| 80.0     | 250    | 221     | -                                   | 10.85    | WBBB/80-250/HSK-A100       | 5056273   |            |      |
| 97.5     | 250    | 221     | -                                   | 15.00    | WBBB/97.5-250/HSK-A100     | 5056274   |            |      |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D21

- Im Lieferumfang enthalten: Bund gehärtet und geschliffen, Schaft weich
- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Delivery includes : Shank and flange hardened, body left soft
- Please order coolant tube separately (Refer page D21)



| HSK-A50 <span style="float: right;">↗ ≤ 2µm</span> |        |                                     |          |                            |           |
|--|--------|-------------------------------------|----------|----------------------------|-----------|
| D (mm)   | A (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 40   | 300    | -                                   | 4.2      | WTMM/40-300/HSK-A50        | 5161209   |

| HSK-A63 <span style="float: right;">↗ ≤ 2µm</span> |        |                                     |          |                            |           |
|--|--------|-------------------------------------|----------|----------------------------|-----------|
| D (mm)   | A (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 40   | 346    | -                                   | 4.5      | WTMM/40-346/HSK-A63        | 5056275   |

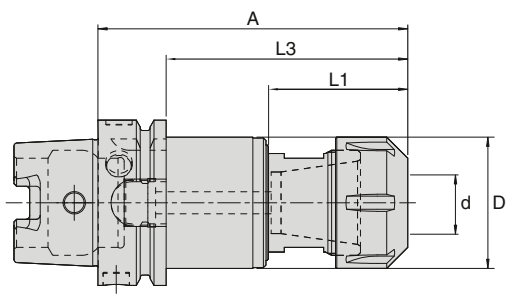
  

| HSK-A100 <span style="float: right;">↗ ≤ 2µm</span> |        |                                     |          |                            |           |
|---|--------|-------------------------------------|----------|----------------------------|-----------|
| D (mm)  | A (mm) | Kühlmittelezufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 50  | 349    | -                                   | 6.4      | WTMM/50-349/HSK-A100       | 5056276   |

• Kontrolldorne im Holzkasten geliefert • Delivered in wooden box

Pendelhalter (PN / HSK) Kegel - Hohlshaft DIN 69893A mit Kühlmitteldurchführung  
 Floating chucks (PN / HSK) - Hollow taper shank DIN 69893A with internal coolant feed

BT MAS 403  
ISO7388-2



| HSK-A63                     |           |           |           |            |            |                                    |             |                            |           |
|-----------------------------|-----------|-----------|-----------|------------|------------|------------------------------------|-------------|----------------------------|-----------|
| Pendelweg<br>Floating Range | d<br>(mm) | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| +/-0,25                     | 6-16      | 50        | 112       | 47         | 86         | Form "AD"                          | 1.4         | PN50-IK/HSK-A63-ESX25      | 6774212   |
| +/-0,25                     | 8-20      | 50        | 118       | 53         | 92         | Form "AD"                          | 1.5         | PN50-IK/HSK-A63-ESX32      | 6730237   |

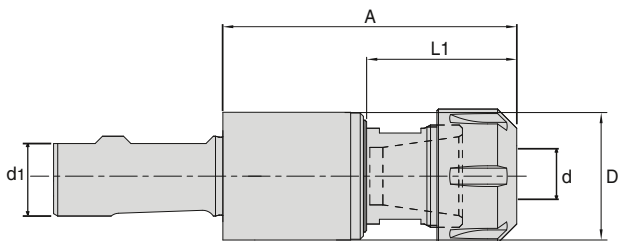
- Lieferung ohne Spannzange und Dichtscheibe
- Delivery excludes collet and sealing disc

SK DIN 69871  
ISO7388-1

Mit Bilz-Modular-Schaft MS ähnlich DIN 1835 zum Kombinieren mit Werkzeugaufnahmen  
 Bilz-WA mit Kühlmitteldurchführung

PN/MS: BILZ modular shank MS similar to DIN 1835  
 For combination with BILZ WA tool holders (with internal coolant)

HSK DIN 69893



| BILZ-MS                     |           |           |            |           |            |             |                            |           |  |
|-----------------------------|-----------|-----------|------------|-----------|------------|-------------|----------------------------|-----------|--|
| Pendelweg<br>Floating Range | d<br>(mm) | D<br>(mm) | d1<br>(mm) | A<br>(mm) | L1<br>(mm) | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |  |
| +/-0,25                     | 5-13      | 40        | 20         | 80        | 45         | 0.53        | PN40-IK/MS20-ESX20         | 6730247   |  |
| +/-0,25                     | 6-16      | 50        | 25         | 88        | 47         | 0.95        | PN50-IK/MS25-ESX25         | 9168161   |  |
| +/-0,25                     | 8-20      | 50        | 25         | 94        | 53         | 1.02        | PN50-IK/MS25-ESX32         | 6730239   |  |

- Lieferung ohne Spannzange und Dichtscheibe
- Delivery excludes collet and sealing disc

Zubehör  
Accessories

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

DIN 69893 (HSK-E) Werkzeugaufnahmen  
DIN 69893 (HSK-E) Tool Holders



|  |     |
|--|-----|
| Spannzangenfutter ER<br>Collet chuck ER  | C25 |
| Super collet Spannzangenfutter<br>Super collet chuck                                 | C26 |
| Fräseraufnahmen (Weldon & Whistle Notch)<br>End mill holder (Weldon & Whistle Notch) | C27 |
| Micro-Spannzangenhalter<br>Micro collet holder                                       | C28 |

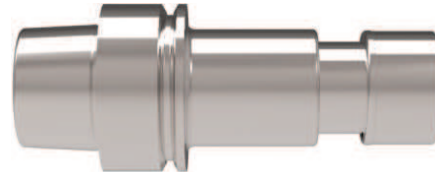
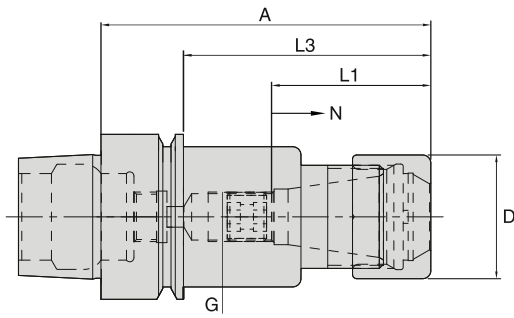
DIN 69893 (HSK-F) Werkzeugaufnahmen  
DIN 69893 (HSK-F) Tool Holders

|   |     |
|---|-----|
| Spannzangenfutter ER<br>Collet chuck ER | C28 |
|---|-----|



# Spannzangenfutter Typ ER für Spannzangen ISO 15488 (DIN 6499) (HSK-E)

Collet chuck type ER for collets to ISO 15488 (DIN 6499) (HSK-E)



| HSK-E32                   |                  |           |           |            |            |   |     |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|---|-----|------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | N | G   | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER16                      | 1-10             | 27.1      | 65        | 33.5       | 45         | 8 | M10 | Form "AD"                          | 0.30        | WCCH/ERF16-65/HSK-E32      | 5100028   |
| ER20                      | 1-13             | 33.0      | 70        | 38.0       | 50         | 8 | M10 | Form "AD"                          | 0.40        | WCCH/ERF20-70/HSK-E32      | 5100030   |
| ER25                      | 2-16             | 40.0      | 70        | 41.0       | 50         | 8 | M10 | Form "AD"                          | 0.40        | WCCH/ERF25-70/HSK-E32      | 5100031   |

| HSK-E40                   |                  |           |           |            |            |    |     |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|----|-----|------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | N  | G   | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER16                      | 1-10             | 27.1      | 70        | 33.5       | 50         | 12 | M10 | Form "AD"                          | 0.40        | WCCH/ERF16-70/HSK-E40      | 5100032   |
| ER20                      | 1-13             | 33.0      | 80        | 38.0       | 60         | 12 | M12 | Form "AD"                          | 0.50        | WCCH/ERF20-80/HSK-E40      | 5100033   |
| ER25                      | 2-16             | 40.0      | 80        | 41.0       | 60         | 12 | M16 | Form "AD"                          | 0.50        | WCCH/ERF25-80/HSK-E40      | 5100034   |
| ER16                      | 1-10             | 27.1      | 120       | 33.5       | 100        | 12 | M10 | Form "AD"                          | 0.60        | WCCH/ERF16-120/HSK-E40     | 5100035   |
| ER20                      | 1-13             | 33.0      | 120       | 38.0       | 100        | 12 | M12 | Form "AD"                          | 0.50        | WCCH/ERF20-120/HSK-E40     | 5100036   |
| ER25                      | 2-16             | 40.0      | 120       | 41.0       | 100        | 12 | M16 | Form "AD"                          | 0.75        | WCCH/ERF25-120/HSK-E40     | 5100037   |

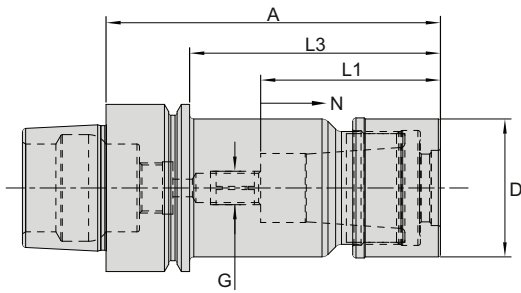
| HSK-E50                   |                  |           |           |            |            |    |         |                                    |             |                            |           |
|---------------------------|------------------|-----------|-----------|------------|------------|----|---------|------------------------------------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | N  | G       | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| ER16                      | 1-10             | 27.1      | 80        | 33.5       | 54         | 12 | M10     | Form "AD"                          | 0.90        | WCCH/ERF16-80/HSK-E50      | 5100039   |
| ER20                      | 1-13             | 33.0      | 95        | 38.0       | 69         | 12 | M12     | Form "AD"                          | 1.00        | WCCH/ERF20-95/HSK-E50      | 5100040   |
| ER25                      | 2-16             | 40.0      | 95        | 41.0       | 69         | 12 | M16     | Form "AD"                          | 1.05        | WCCH/ERF25-95/HSK-E50      | 5100041   |
| ER32                      | 2-20             | 48.0      | 100       | 47.0       | 74         | 12 | M22X1.5 | Form "AD"                          | 0.85        | WCCH/ERF32-100/HSK-E50     | 5100042   |

Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.D2-D4 Pg.D9

- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Im Lieferumfang enthalten: Spannmutter (gewuchtet)
- Please order coolant tube separately (Refer page D21)
- Delivery includes : Friction nut (balanced)

## Super collet Spannzangenfutter (HSK-E)

### Super collet chuck (HSK-E)



| HSK-E32                   |                  |           |           |            |            |           |           |                                    |             |                            | ≤ 2µm     | G2.5<br>25000<br>RPM | bar |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|------------------------------------|-------------|----------------------------|-----------|----------------------|-----|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                      |     |
| SC06                      | 2-6              | 19.5      | 60        | 31.5       | 40         | M5        | 8         | Form "AD"                          | 0,19        | WSCH/SCF06-60/HSK-E32      | 5144155   |                      |     |
| SC10                      | 2-10             | 27.1      | 60        | 35.0       | 40         | M5        | 8         | Form "AD"                          | 0,25        | WSCH/SCF10-60/HSK-E32      | 5144161   |                      |     |

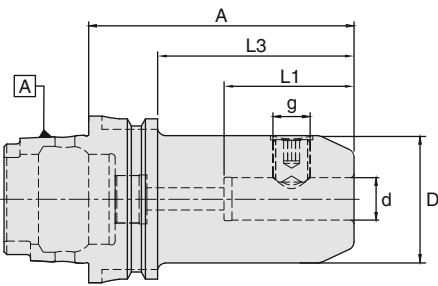
| HSK-E40                   |                  |           |           |            |            |           |           |                                    |             |                            | ≤ 2µm     | G2.5<br>25000<br>RPM | bar |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|------------------------------------|-------------|----------------------------|-----------|----------------------|-----|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                      |     |
| SC06                      | 2-6              | 19.5      | 60        | 31.5       | 40         | M5        | 8         | Form "AD"                          | 0,27        | WSCH/SCF06-60/HSK-E40      | 5144163   |                      |     |
| SC06                      | 2-6              | 19.5      | 120       | 31.5       | 100        | M5        | 8         | Form "AD"                          | 0,40        | WSCH/SCF06-120/HSK-E40     | 5144166   |                      |     |
| SC10                      | 2-10             | 27.1      | 60        | 35.0       | 40         | M5        | 8         | Form "AD"                          | 0,33        | WSCH/SCF10-60/HSK-E40      | 5144170   |                      |     |
| SC10                      | 2-10             | 27.1      | 105       | 35.0       | 100        | M5        | 8         | Form "AD"                          | 0,60        | WSCH/SCF10-120/HSK-E40     | 5144173   |                      |     |
| SC13                      | 3-13             | 33.0      | 80        | 43.0       | 60         | M12 x 1   | 8         | Form "AD"                          | 0,51        | WSCH/SCF13-80/HSK-E40      | 5122548   |                      |     |
| SC13                      | 3-13             | 33.0      | 120       | 43.0       | 100        | M12 x 1   | 8         | Form "AD"                          | 0,77        | WSCH/SCF13-120/HSK-E40     | 5144179   |                      |     |

| HSK-E50                   |                  |           |           |            |            |           |           |                                    |             |                            | ≤ 2µm     | G2.5<br>25000<br>RPM | bar |
|---------------------------|------------------|-----------|-----------|------------|------------|-----------|-----------|------------------------------------|-------------|----------------------------|-----------|----------------------|-----|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | G<br>(mm) | N<br>(mm) | Kühlmittelzufuhr<br>Coolant supply | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |                      |     |
| SC06                      | 2-6              | 19.5      | 70        | 31.5       | 50         | M5        | 8         | Form "AD"                          | 0,49        | WSCH/SCF06-70/HSK-E50      | 5144181   |                      |     |
| SC06                      | 2-6              | 19.5      | 120       | 31.5       | 100        | M5        | 8         | Form "AD"                          | 0,60        | WSCH/SCF06-120/HSK-E50     | 5144183   |                      |     |
| SC10                      | 2-10             | 27.1      | 70        | 35.0       | 50         | M5        | 8         | Form "AD"                          | 0,65        | WSCH/SCF10-70/HSK-E50      | 5144184   |                      |     |
| SC10                      | 2-10             | 27.1      | 120       | 35.0       | 100        | M5        | 8         | Form "AD"                          | 0,93        | WSCH/SCF10-120/HSK-E50     | 5144185   |                      |     |
| SC13                      | 3-13             | 33.0      | 80        | 43.0       | 50         | M12 x 1   | 8         | Form "AD"                          | 0,67        | WSCH/SCF13-80/HSK-E50      | 5144186   |                      |     |
| SC13                      | 3-13             | 33.0      | 120       | 43.0       | 100        | M12 x 1   | 8         | Form "AD"                          | 0,95        | WSCH/SCF13-120/HSK-E50     | 5144188   |                      |     |

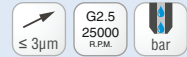
|  |          |        |       |        |
|--|----------|--------|-------|--------|
| Ersatzteile und Zubehör / Spare Parts & Accessories: | Pg.D8-D9 | Pg.D10 | Pg.D9 | Pg.D21 |
|--|----------|--------|-------|--------|

• Im Lieferumfang enthalten: mit Spannmutter (gewuchtet) und Verstelle schraube • Delivery includes: Clamping nut (friction type), Adjusting screw

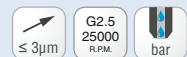
Fräseraufnahmen (Weldon) - für Zylinderschäfte gemäß DIN 1835B (HSK-E)  
 End mill holder (Weldon) - For cylindrical shanks according to DIN 1835B (HSK-E)



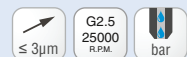
| HSK-E32 |        |        |         |         |     |                                    |          |                            |           |
|---------|--------|--------|---------|---------|-----|------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g   | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06      | 25     | 60     | 37      | 40      | M6  | Form "AD"                          | 0.3      | WSLH/06-60/HSK-E32         | 5100228   |
| 08      | 28     | 60     | 37      | 40      | M8  | Form "AD"                          | 0.3      | WSLH/08-60/HSK-E32         | 5100229   |
| 10      | 35     | 65     | 41      | 45      | M10 | Form "AD"                          | 0.4      | WSLH/10-65/HSK-E32         | 5100230   |
| 12      | 42     | 75     | 46      | 55      | M12 | Form "AD"                          | 0.6      | WSLH/12-75/HSK-E32         | 5100231   |
| 16      | 48     | 75     | 49      | 55      | M14 | Form "AD"                          | 0.7      | WSLH/16-75/HSK-E32         | 5100232   |



| HSK-E40 |        |        |         |         |     |                                    |          |                            |           |
|---------|--------|--------|---------|---------|-----|------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g   | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06      | 25     | 60     | 37      | 40      | M6  | Form "AD"                          | 0.4      | WSLH/06-60/HSK-E40         | 5100233   |
| 08      | 28     | 60     | 37      | 40      | M8  | Form "AD"                          | 0.4      | WSLH/08-60/HSK-E40         | 5100234   |
| 10      | 34     | 65     | 41      | 45      | M10 | Form "AD"                          | 0.5      | WSLH/10-65/HSK-E40         | 5100235   |
| 12      | 42     | 70     | 46      | 50      | M12 | Form "AD"                          | 0.6      | WSLH/12-70/HSK-E40         | 5100237   |
| 16      | 48     | 80     | 49      | 60      | M14 | Form "AD"                          | 0.8      | WSLH/16-80/HSK-E40         | 5100238   |
| 20      | 52     | 80     | 51      | 60      | M16 | Form "AD"                          | 0.8      | WSLH/20-80/HSK-E40         | 5100239   |



| HSK-E50 |        |        |         |         |     |                                    |          |                            |           |
|---------|--------|--------|---------|---------|-----|------------------------------------|----------|----------------------------|-----------|
| d (mm)  | D (mm) | A (mm) | L1 (mm) | L3 (mm) | g   | Kühlmittelzufuhr<br>Coolant supply | N/W (Kg) | Bezeichnung<br>Designation | Ident No. |
| 06      | 25     | 65     | 37      | 39      | M6  | Form "AD"                          | 0.6      | WSLH/06-65/HSK-E50         | 5100240   |
| 08      | 28     | 65     | 37      | 39      | M8  | Form "AD"                          | 0.6      | WSLH/08-65/HSK-E50         | 5100241   |
| 10      | 35     | 65     | 41      | 39      | M10 | Form "AD"                          | 0.7      | WSLH/10-65/HSK-E50         | 5100242   |
| 12      | 42     | 80     | 46      | 54      | M12 | Form "AD"                          | 0.7      | WSLH/12-80/HSK-E50         | 5100243   |
| 16      | 48     | 80     | 49      | 54      | M14 | Form "AD"                          | 0.7      | WSLH/16-80/HSK-E50         | 5100244   |
| 20      | 52     | 80     | 51      | 54      | M16 | Form "AD"                          | 1.2      | WSLH/20-80/HSK-E50         | 5100245   |



Ersatzteile und Zubehör / Spare Parts & Accessories: Pg.E2

- Bohrungstoleranz H4
- Kühlmittelrohr bitte separat bestellen (Siehe Seite D21)
- Im Lieferumfang enthalten: Spannschraube
- Bore tolerance H4
- Please order coolant tube separately (Refer page D21)
- Delivery includes : Locking screw

## Micro-Spannzangenhalter (HSK-E)

### Micro collet holder (HSK-E)

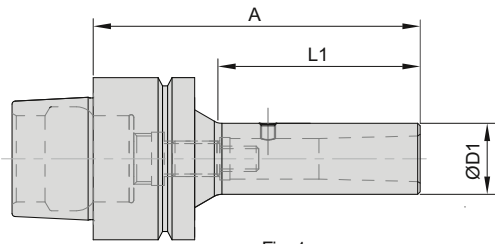


Fig. 1

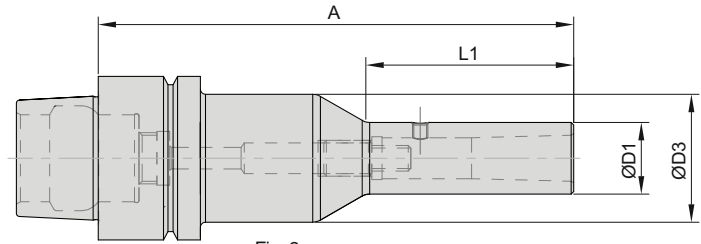


Fig. 2

| HSK-E32                   |                  |           |            |            |            |            |                                     |      |             |                            |           |
|---------------------------|------------------|-----------|------------|------------|------------|------------|-------------------------------------|------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | A<br>(mm) | L1<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | Fig. | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| MC14                      | 3-4              | 65        | 40         | 14         | -          | -          | Form "AD"                           | 1    | 0,25        | WMCH/D14-65/HSK-E32        | 5167343   |
| MC14                      | 3-6              | 90        | 40         | 14         | -          | 25         | Form "AD"                           | 2    | 0,35        | WMCH/D14-90/HSK-E32        | 5167344   |

| HSK-E40                   |                  |           |            |            |            |            |                                     |      |             |                            |           |
|---------------------------|------------------|-----------|------------|------------|------------|------------|-------------------------------------|------|-------------|----------------------------|-----------|
| Spannzange<br>Collet Type | Bereich<br>Range | A<br>(mm) | L1<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | Kühlmittelezufuhr<br>Coolant supply | Fig. | N/W<br>(Kg) | Bezeichnung<br>Designation | Ident No. |
| MC14                      | 3-4              | 65        | 40         | 14         | -          | -          | Form "AD"                           | 1    | 0,35        | WMCH/D14-65/HSK-E40        | 5167346   |
| MC14                      | 3-6              | 90        | 40         | 14         | -          | 30         | Form "AD"                           | 2    | 0,40        | WMCH/D14-90/HSK-E40        | 5167347   |

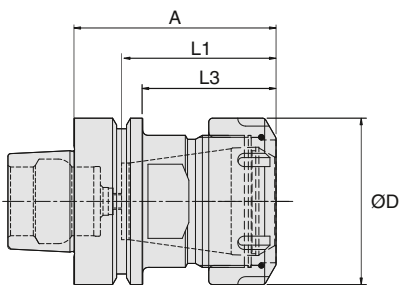
  

|  |  |  |        |        |        |  |  |  |  |  |  |
|--|--|--|--------|--------|--------|--|--|--|--|--|--|
| Ersatzteile und Zubehör / Spare Parts & Accessories: |  |  |        |        |        |  |  |  |  |  |  |
|  |  |  | Pg.D16 | Pg.D16 | Pg.D21 |  |  |  |  |  |  |

Für Technische Details siehe Seite F8 / For technical details please refer page F8 and also the instruction manual provided in the packing box.

## Spannzangenfutter mit Hohlenschaftkegel HSK-F63

### Collet chuck with hollow taper shank HSK-F63



| HSK-F63                   |                  |           |           |            |            |             |                            |  |           |  |  |
|---------------------------|------------------|-----------|-----------|------------|------------|-------------|----------------------------|--|-----------|--|--|
| Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | A<br>(mm) | L1<br>(mm) | L3<br>(mm) | N/W<br>(Kg) | Bezeichnung<br>Designation |  | Ident No. |  |  |
| ER25                      | 2-16             | 42        | 70.0      | 41.0       | 44.0       | 1.0         | WCCH/ERB25-70/HSK-F63-DX   |  | 5100248   |  |  |
| ER32                      | 2-20             | 50        | 73.0      | 47.0       | 47.0       | 1.0         | WCCH/ERB32-73/HSK-F63-DX   |  | 5100249   |  |  |
| ER32                      | 2-20             | 50        | 73.0      | 47.0       | 47.0       | 1.0         | WCCH/ERB32-73/HSK-F63-SX   |  | 5100250   |  |  |
| ER40                      | 3-26             | 63        | 76.5      | 58.5       | 50.5       | 1.2         | WCCH/ERB40-76.5/HSK-F63-DX |  | 5100251   |  |  |
| ER40                      | 3-26             | 63        | 76.5      | 58.5       | 50.5       | 1.2         | WCCH/ERB40-76.5/HSK-F63-SX |  | 5100252   |  |  |

|  |  |  |          |       |       |  |  |  |  |  |  |
|--|--|--|----------|-------|-------|--|--|--|--|--|--|
| Ersatzteile und Zubehör / Spare Parts & Accessories: |  |  |          |       |       |  |  |  |  |  |  |
|  |  |  | Pg.D2-D4 | Pg.D7 | Pg.D4 |  |  |  |  |  |  |

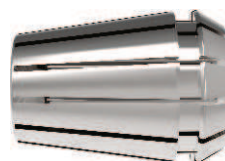
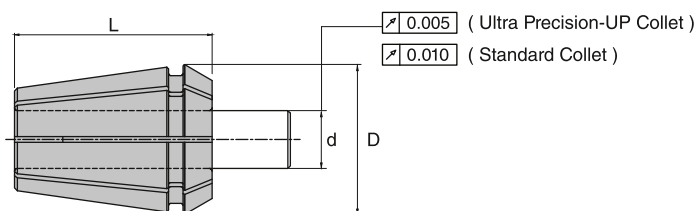
  

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>Im Lieferumfang enthalten : kugelgelagerte Spannmutter</li> <li>Hinweise: DX - für Rechtsgewinde, SX - für Linksgewinde</li> </ul> | <ul style="list-style-type: none"> <li>Delivery includes: Clamping nut with ball bearing</li> <li>DX - for 'Right hand' thread, SX - for 'Left hand' thread</li> </ul> |
|---|--|

|   |           |
|---|-----------|
| Spannzangen<br>Collets  | D2 - D4   |
| Spannmuttern<br>Clamping nuts   | D4 - D5   |
| Dichtscheiben<br>Sealing discs  | D6        |
| Spannschlüssel, ER Zylinderschaft<br>Wrench, ER Cylindrical shank     | D7        |
| WSCH - Super collet Spannzangen<br>WSCH - Super Collet                | D8 - D11  |
| WHPMC - Zylindrische Spannzange<br>WHPMC - Adjustable straight collet | D12 - D13 |
| WHEC - Reduzierbuchsen<br>WHEC - Reduction sleeves                    | D14       |
| WTA - Verlängerung & Reduzierung<br>WTA - Extensions & Reductions     | D15       |
| WMCH - Micro-Spannzangenhalter<br>WMCH - Micro collet holder          | D16       |
| Drehmomentschlüssel<br>Torque wrench                                  | D17 - D18 |
| Anzugsbolzen<br>Pull studs  | D19 - D20 |
| Kühlmittelrohr<br>Coolant tube  | D21       |
| Spannschlüssel DIN 6368<br>Spanner to DIN 6368                        | D21       |
| Montagevorrichtung<br>Assembly device                                 | D22 - D23 |

# Spannzangen DIN 6499 System ER

## Collets DIN 6499 ER-System

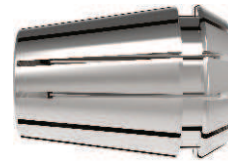
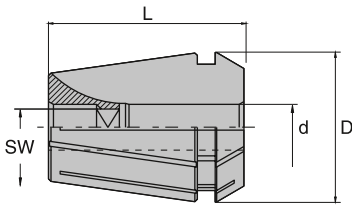


| Spannbereich<br>Clamping<br>Range<br>d (mm) | 424E ER 11-...<br>D=11.5, L=18mm<br>( 1.0-7.0 )<br>Ident No. | 426E ER 16-...<br>D=17, L=27mm<br>( 1.0-10.0 )<br>Ident No. | 428E ER 20-...<br>D=21, L=31mm<br>( 2.0-13.0 )<br>Ident No. | 430E ER 25-...<br>D=26, L=35mm<br>( 2.0-16.0 )<br>Ident No. | 470E ER 32-...<br>D=33, L=40mm<br>( 2.0-20.0 )<br>Ident No. | 472E ER 40-...<br>D=41, L=46mm<br>( 3.0-26.0 )<br>Ident No. |
|---|--|---|---|---|---|---|
| 1.0-0.5(1/32")                              | 5056179*   | 5057132   |   |   |   |   |
| ..UP  |  | 6956076   |   |   |   |   |
| 2.0-1.0(1/16")                              | 5056181*   | 5057134   | 5057149   | 5056198   | 5056200   |   |
| ..UP  |  | 6951390   | 6950718   | 6956077   | 6954804   |   |
| 3.0-2.0                                     | 5056182*   | 5057135   | 5057151   | 5057171   | 5057226   | 5056211   |
| ..UP  |  | 6950577   | 6954121   | 6950639   | 6954216   |   |
| 4.0-3.0(5/32")                              | 5056184*   | 5057136   | 5057152   | 5057172   | 5057228   | 5057255   |
| ..UP  |  | 6951316   | 6954011   | 6951451   | 6954116   | 6954654   |
| 5.0-4.0(3/16")                              | 5056187*   | 5057137   | 5057159   | 5057173   | 5057229   | 5057257   |
| ..UP  |  | 6944020   | 6953669   | 6951452   | 6954117   | 6954660   |
| 6.0-5.0(7/32")                              | 5056189*   | 5057138   | 5057160   | 5057174   | 5057230   | 5057259   |
| ..UP  |  | 6927048   | 6944021   | 6950640   | 6952206   | 6952415   |
| 7.0-6.0                                     | 5056191*   | 5057141   | 5057161   | 5057175   | 5057232   | 5057260   |
| ..UP  |  | 6927050   | 6950721   | 6952697   | 6954217   | 6954661   |
| 8.0-7.0(5/16")                              |  | 5057144   | 5057163   | 5057176   | 5057234   | 5057261   |
| ..UP  |  | 6927051   | 6927052   | 6951210   | 6952200   | 6954662   |
| 9.0-8.0(11/32")                             |  | 5057145   | 5057164   | 5057178   | 5057235   | 5057263   |
| ..UP  |  | 6953019   | 6952604   | 6921604   | 6954118   | 6955191   |
| 10.0-9.0                                    |  | 5057146   | 5057166   | 5057179   | 5057237   | 5057264   |
| ..UP  |  | 6951332   | 6927053   | 6950641   | 6952201   | 6953442   |
| 11.0-10.0                                   |  |   | 5057168   | 5057181   | 5057238   | 5057265   |
| ..UP  |  |   | 6927055   | 6951404   | 6951867   |   |
| 12.0-11.0(15/32")                           |  |   | 5057169   | 5057182   | 5057239   | 5057266   |
| ..UP  |  |   | 6944022   | 6951209   | 6946688   | 6953443   |
| 13.0-12.0(1/2")                             |  |   | 5057170   | 5057183   | 5057240   | 5057267   |
| ..UP  |  |   | 6954657   | 6951317   | 6952718   | 6955748   |
| 14.0-13.0                                   |  |   |   | 5057184   | 5057241   | 5057268   |
| ..UP  |  |   |   | 6951211   | 6946611   | 6955975   |
| 15.0-14.0                                   |  |   |   | 5057185   | 5057245   | 5057269   |
| ..UP  |  |   |   | 6921605   | 6954218   | 6954119   |
| 16.0-15.0(5/8")                             |  |   |   | 5057186   | 5057247   | 5057270   |
| ..UP  |  |   |   | 6950642   | 6951212   | 6953444   |
| 17.0-16.0(21/32")                           |  |   |   |   | 5057248   | 5057271   |
| ..UP  |  |   |   |   | 6954219   | 6955196   |
| 18.0-17.0                                   |  |   |   |   | 5057249   | 5057273   |
| ..UP  |  |   |   |   | 6951213   | 6946165   |
| 19.0-18.0                                   |  |   |   |   | 5057250   | 5057274   |
| ..UP  |  |   |   |   | 6954220   | 6954120   |
| 20.0-19.0(25/32")                           |  |   |   |   | 5057251   | 5057275   |
| ..UP  |  |   |   |   | 6950710   | 6951764   |
| 21.0-20.0(13/16")                           |  |   |   |   |   | 5057276   |
| 22.0-21.0                                   |  |   |   |   |   | 5057277   |
| ..UP  |  |   |   |   |   | 6952605   |
| 23.0-22.0                                   |  |   |   |   |   | 5057284   |
| 24.0-23.0(15/16")                           |  |   |   |   |   | 5057285   |
| 25.0-24.0(31/32")                           |  |   |   |   |   | 5057286   |
| ..UP  |  |   |   |   |   | 6951765   |
| 26.0-25.0                                   |  |   |   |   |   | 5057286   |
| ..UP  |  |   |   |   |   | 6955666   |
| ER Collet Set                               | 5083043  | 5064416   | 5083046   | 5064421   | 5064428   | 5064429   |
| ..UP  |  | 5104124   | 5104125   | 5104126   | 5104127   | 9173813   |

Bestellbeispiel: / How to order : Standard-Spannzange / Standard Collet: ER16-1.0 or 5057132 and UP Spannzangen / UP Collet: ESX 16-1.0-UP or 6956076

\*0.5mm collapsibility for ER11 collets

Spannzangensystem ER mit Innenvierkant DIN 6499  
 Tap Collet ER-System with internal square DIN 6499



| Schaft<br>Shaft<br>d (mm) Ø | Innenvierkant<br>Square<br>SW (mm) | 426G ESX 16-...<br>D=16.7mm<br>L=27.5mm<br>Ident No. | 428G ESX 20-...<br>D=21mm<br>L=31mm<br>Ident No. | 430G ESX 25-...<br>D=25.7mm<br>L=34mm<br>Ident No. | 470G ESX 32-...<br>D=33mm<br>L=40mm<br>Ident No. | 472G ESX 40-...<br>D=41mm<br>L=46mm<br>Ident No. |
|-----------------------------|------------------------------------|--|--|--|--|--|
| 4.0                         | 3.0                                | 6954588  |  |  |  |  |
| 4.5                         | 3.4                                | 6951393  | 6948389  | 6951218  | 6952585  |  |
| 5.5                         | 4.3                                | 6954656  | 6949764  | 5073851  | 5069531  |  |
| 6.0                         | 4.9                                | 6951392  | 6948390  | 6951544  | 6949997  |  |
| 7.0                         | 5.5                                | 6947340  | 6949767  | 6951797  | 6950029  |  |
| 8.0                         | 6.2                                |  | 6949202  | 6951214  | 6949769  | 6955396  |
| 9.0                         | 7.0                                |  | 6947338  | 6951216  | 6946965  | 6955397  |
| 10.0                        | 8.0                                |  | 6949111  | 6951215  | 6949998  | 9080012  |
| 11.0                        | 9.0                                |  | 6949177  | 6946167  | 6946104  | 6955398  |
| 12.0                        | 9.0                                |  |  | 6950343  | 6946106  | 9074741  |
| 14.0                        | 11.0                               |  |  | 6951559  | 6947337  | 9074742  |
| 16.0                        | 12.0                               |  |  | 6951399  | 6948391  | 9080073  |
| 18.0                        | 14.5                               |  |  |  | 6950206  | 6952207  |
| 20.0                        | 16.0                               |  |  |  | 6948392  | 6948903  |
| 22.0                        | 18.0                               |  |  |  |  | 6949124  |

Bestellbeispiel: / How to order :  
 ESX16-6.0x4.9 or 6951392

BT MAS 403  
 ISO7388-2

SK DIN 69871  
 ISO7388-1

HSK DIN 69893

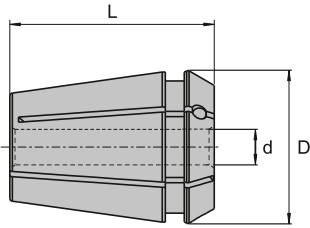
Zubehör  
 Accessories

Ersatzteile  
 Spare Parts

Technische Spezifikationen  
 Technical Details



Abgedichtete Spannzangen ER  
Sealed Collet ER - system for internal coolant

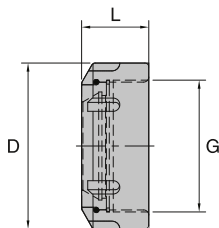


| Schaft<br>Shaft<br>d (mm) Ø | ERC 16-...<br>D=17mm<br>L=27.5mm<br>Ident No. | ERC 20-...<br>D=21mm<br>L=31.5mm<br>Ident No. | ERC 25-...<br>D=26mm<br>L=34mm<br>Ident No. | ERC 32-...<br>D=33mm<br>L=40mm<br>Ident No. | ERC 40-...<br>D=41mm<br>L=46mm<br>Ident No. |
|-----------------------------|---|---|---|---|---|
| 3.0                         | 5161379                                       | 5161389                                       | 5161402                                     | 5161897                                     | 5162178                                     |
| 4.0                         | 5161381                                       | 5161390                                       | 5161403                                     | 5161898                                     | 5162179                                     |
| 5.0                         | 5161383                                       | 5161391                                       | 5161404                                     | 5161901                                     | 5162180                                     |
| 6.0                         | 5161384                                       | 5161393                                       | 5161405                                     | 5161902                                     | 5162181                                     |
| 7.0                         | 5161385                                       | 5161394                                       | 5161406                                     | 5161903                                     | 5162182                                     |
| 8.0                         | 5161386                                       | 5161395                                       | 5161407                                     | 5161904                                     | 5162184                                     |
| 9.0                         | 5161387                                       | 5161396                                       | 5161408                                     | 5161905                                     | 5162185                                     |
| 10.0                        | 5161388                                       | 5161397                                       | 5161409                                     | 5161910                                     | 5162186                                     |
| 11.0                        |   | 5161398                                       | 5161410                                     | 5161911                                     | 5162187                                     |
| 12.0                        |   | 5161399                                       | 5161411                                     | 5162161                                     | 5162188                                     |
| 13.0                        |   | 5161400                                       | 5161412                                     | 5162162                                     | 5162189                                     |
| 14.0                        |   |   | 5161413                                     | 5162166                                     | 5162190                                     |
| 15.0                        |   |   | 5161414                                     | 5162170                                     | 5162191                                     |
| 16.0                        |   |   | 5161416                                     | 5162172                                     | 5162192                                     |
| 17.0                        |   |   |   | 5162173                                     | 5162193                                     |
| 18.0                        |   |   |   | 5162174                                     | 5162205                                     |
| 19.0                        |   |   |   | 5162175                                     | 5162206                                     |
| 20.0                        |   |   |   | 5162176                                     | 5162207                                     |
| 21.0                        |   |   |   |   | 5162208                                     |
| 22.0                        |   |   |   |   | 5162209                                     |
| 23.0                        |   |   |   |   | 5162210                                     |
| 24.0                        |   |   |   |   | 5162211                                     |
| 25.0                        |   |   |   |   | 5162212                                     |
| 26.0                        |   |   |   |   | 5162213                                     |

Bestellbeispiel: / How to order :

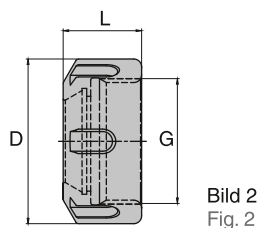
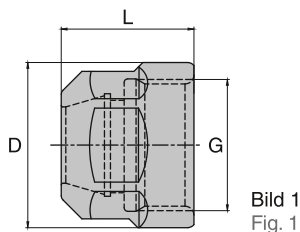
ERC16-6.0 or 5161384

Spannmutter ERB DIN 6499  
Clamping nut ERB to DIN 6499-balanced



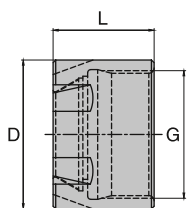
| Bezeichnung<br>Designation | Abmessung<br>Size | D<br>(mm) | L<br>(mm) | G       | Ident. No. |
|----------------------------|-------------------|-----------|-----------|---------|------------|
| ERB25-HP                   | 2-16              | 42        | 20.0      | M32X1.5 | 5104121    |
| ERB32-HP                   | 2-20              | 50        | 22.5      | M40X1.5 | 5104122    |
| ERB40-HP                   | 3-26              | 63        | 25.5      | M50X1.5 | 5104123    |

### Spannmutter ER Clamping nut ER



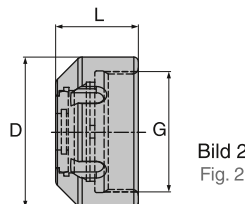
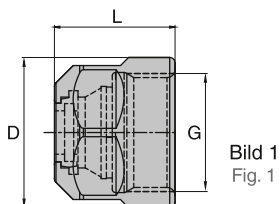
| Abmessung<br>Size | D    | L    | G          | Bild<br>Fig | Bezeichnung<br>Designation | Ident No. |
|-------------------|------|------|------------|-------------|----------------------------|-----------|
| 1-7               | 19.0 | 11.0 | M14 X 0.75 | 1           | ER11                       | 5119412   |
| 1-10              | 28.0 | 17.5 | M22X1.5    | 1           | ER16                       | 4600340   |
| 1-13              | 34.0 | 19.0 | M25X1.5    | 1           | ER20                       | 5056874   |
| 2-16              | 42.0 | 20.0 | M32X1.5    | 2           | ER25                       | 4600341   |
| 2-20              | 50.0 | 22.5 | M40X1.5    | 2           | ER32                       | 4600342   |
| 3-26              | 63.0 | 25.5 | M50X1.5    | 2           | ER40                       | 4600343   |

### Spannmutter "Mini" ER Clamping nut "Mini" ER



| Abmessung<br>Size | D    | L    | G        | Bezeichnung<br>Designation | Ident No. |
|-------------------|------|------|----------|----------------------------|-----------|
| 1-7               | 16.0 | 12.0 | M13X0.75 | ER11M                      | 5033469   |
| 1-10              | 22.0 | 18.5 | M19X1.0  | ER16M                      | 6944416   |
| 1-13              | 28.0 | 19.0 | M24X1.0  | ER20M                      | 6951224   |
| 2-16              | 35.0 | 20.0 | M30X1.0  | ER25M                      | 6955533   |

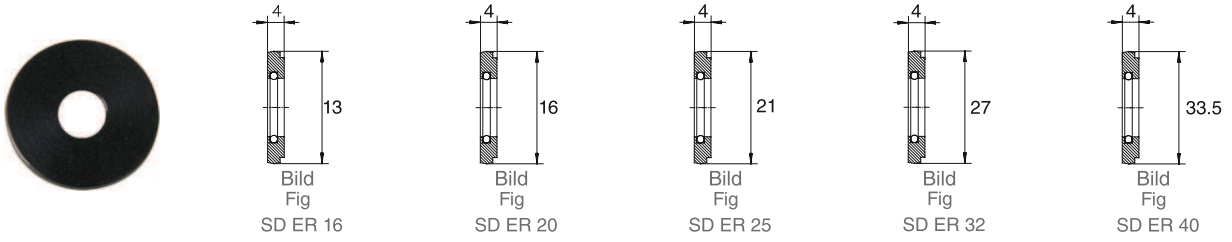
### Spannmutter ER für Dichtscheiben Clamping nut ER for sealing discs



| Abmessung<br>Size | D    | L    | G       | Bild<br>Fig | Bezeichnung<br>Designation | Ident No. |
|-------------------|------|------|---------|-------------|----------------------------|-----------|
| 1-10              | 28.0 | 22.5 | M22X1.5 | 1           | ER16-IC                    | 6931372   |
| 1-13              | 34.0 | 24.0 | M25X1.5 | 1           | ER20-IC                    | 6931227   |
| 2-16              | 42.0 | 25.0 | M32X1.5 | 2           | ER25-IC                    | 6941678   |
| 2-20              | 50.0 | 27.5 | M40X1.5 | 2           | ER32-IC                    | 6933897   |
| 3-26              | 63.0 | 30.5 | M50X1.5 | 2           | ER40-IC                    | 6948425   |

DS/ER Dichtscheiben für ER/ESX-Spannzange DIN6499-B

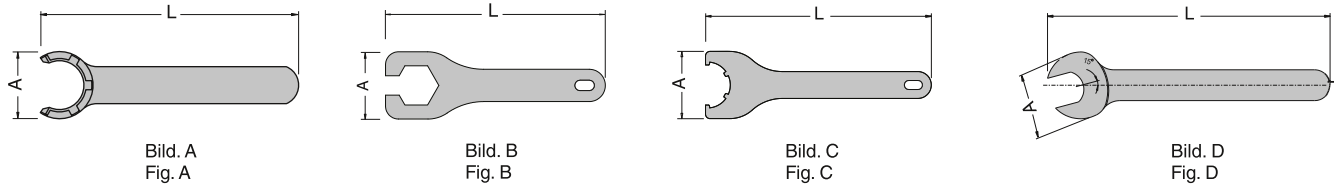
DS/ER Sealing disc for ER/ESX collet DIN6499-B



| Dichtebereich<br>Sealing<br>Range<br>mm | Id. No.<br>DS/ER 16<br>(bxa)<br>4x13 mm | Id. No.<br>DS/ER 20<br>(bxa)<br>4x16 mm | Id. No.<br>DS/ER 25<br>(bxa)<br>4x21 mm | Id. No.<br>DS/ER 32<br>(bxa)<br>4x27 mm | Id. No.<br>DS/ER 40<br>(bxa)<br>4x33,5 mm |
|---|---|---|---|---|---|
| 3.0-2.5                                 | 6953629                                 | 6954178                                 | 6954181                                 | 6954194                                 | 6954264                                   |
| 3.5-3.0                                 | 6954176                                 | 6948385                                 | 6947674                                 | 6954195                                 | 6954265                                   |
| 4.0-3.5                                 | 6952696                                 | 6953235                                 | 6954182                                 | 6954112                                 | 6954266                                   |
| 4.5-4.0                                 | 6944324                                 | 6948386                                 | 6954183                                 | 6954196                                 | 6954267                                   |
| 5.0-4.5                                 | 6952972                                 | 6953236                                 | 6954184                                 | 6954113                                 | 6954268                                   |
| 5.5-5.0                                 | 6954177                                 | 6952104                                 | 6954185                                 | 6954197                                 | 6954269                                   |
| 6.0-5.5                                 | 6931371                                 | 6943901                                 | 6953215                                 | 6948674                                 | 6954270                                   |
| 6.5-6.0                                 | 6943060                                 | 6953031                                 | 6954186                                 | 6954198                                 | 6954271                                   |
| 7.0-6.5                                 | 6940533                                 | 6950178                                 | 6943420                                 | 6953637                                 | 6954272                                   |
| 7.5-7.0                                 | 6952195                                 | 6953237                                 | 6943421                                 | 6954199                                 | 6954273                                   |
| 8.0-7.5                                 | 6941539                                 | 6946991                                 | 6943419                                 | 6949999                                 | 6952197                                   |
| 8.5-8.0                                 | 6946898                                 | 6953238                                 | 6952198                                 | 6954200                                 | 6954274                                   |
| 9.0-8.5                                 | 6941992                                 | 6947339                                 | 6941679                                 | 6949298                                 | 6954275                                   |
| 9.5-9.0                                 | 6946897                                 | 6954179                                 | 6946744                                 | 6954201                                 | 6954276                                   |
| 10.0-9.5                                | 6942300                                 | 6931347                                 | 6943423                                 | 6948675                                 | 6952199                                   |
| 10.5-10.0                               |   | 6952196                                 | 6954187                                 | 6952918                                 | 6954277                                   |
| 11.0-10.5                               |   | 6944294                                 | 6943534                                 | 6948387                                 | 6954278                                   |
| 11.5-11.0                               |   | 6953239                                 | 6954188                                 | 6951274                                 | 6954279                                   |
| 12.0-11.5                               |   | 6943902                                 | 6943424                                 | 6946689                                 | 6954280                                   |
| 12.5-12.0                               |   | 6954180                                 | 6954189                                 | 6951275                                 | 6954281                                   |
| 13.0-12.5                               |   | 6947968                                 | 6948123                                 | 6952973                                 | 6954282                                   |
| 13.5-13.0                               |   |   | 6954190                                 | 6954202                                 | 6954283                                   |
| 14.0-13.5                               |   |   | 6943342                                 | 6946613                                 | 6954284                                   |
| 14.5-14.0                               |   |   | 6954191                                 | 6954203                                 | 6954285                                   |
| 15.0-14.5                               |   |   | 6954192                                 | 6954204                                 | 6954114                                   |
| 15.5-15.0                               |   |   | 6954193                                 | 6954205                                 | 6954286                                   |
| 16.0-15.5                               |   |   | 6943422                                 | 6946822                                 | 6946054                                   |
| 16.5-16.0                               |   |   |   | 6954206                                 | 6954287                                   |
| 17.0-16.5                               |   |   |   | 6954207                                 | 6954288                                   |
| 17.5-17.0                               |   |   |   | 6954208                                 | 6954289                                   |
| 18.0-17.5                               |   |   |   | 6946002                                 | 6946120                                   |
| 18.5-18.0                               |   |   |   | 6954209                                 | 6952210                                   |
| 19.0-18.5                               |   |   |   | 6954210                                 | 6954115                                   |
| 19.5-19.0                               |   |   |   | 6954211                                 | 6954290                                   |
| 20.0-19.5                               |   |   |   | 6933868                                 | 6952971                                   |
| 20.5-20.0                               |   |   |   |   | 6954291                                   |
| 21.0-20.5                               |   |   |   |   | 9071745                                   |
| 21.5-21.0                               |   |   |   |   | 6954292                                   |
| 22.0-21.5                               |   |   |   |   | 6949887                                   |
| 22.5-22.0                               |   |   |   |   | 6952212                                   |
| 23.0-22.5                               |   |   |   |   | 9071747                                   |
| 23.5-23.0                               |   |   |   |   | 6954293                                   |
| 24.0-23.5                               |   |   |   |   | 9071748                                   |
| 24.5-24.0                               |   |   |   |   | 6954294                                   |
| 25.0-24.5                               |   |   |   |   | 6948426                                   |
| 25.5-25.0                               |   |   |   |   | 6954295                                   |
| 26.0-25.5                               |   |   |   |   | 9072720                                   |

# Spannschlüssel Wrench

BT MAS 403  
ISO7388-2



| Bezeichnung<br>Designation | für Spannmutter<br>for Clamping Nut | A<br>(mm) | L<br>(mm) | Bild<br>Fig | Ident. No. |
|----------------------------|-------------------------------------|-----------|-----------|-------------|------------|
| E11M                       | ER11M-DIN 6499                      | 16.8      | 90        | A           | 6942650    |
| E16M                       | ER16M-DIN 6499                      | 22.5      | 110       | A           | 6932510    |
| E20M                       | ER20M-DIN 6499                      | 29.0      | 120       | A           | 6934089    |
| E25M                       | ER25M-DIN 6499                      | 36.0      | 130       | A           | 6933989    |
| E11P-17                    | ER11-DIN 6499                       | 39.0      | 158       | D           | 5105243    |
| E16P-25                    | ER16-DIN 6499                       | 44.0      | 145       | B           | 5105244    |
| E20                        | ER20-DIN 6499                       | 52.0      | 170       | B           | 6921607    |
| E25                        | ER25-DIN 6499                       | 65.0      | 210       | C           | 6921608    |
| E32                        | ER32-DIN 6499                       | 75.0      | 252       | C           | 6921609    |
| E40                        | ER40-DIN 6499                       | 90.0      | 292       | C           | 6921610    |

SK DIN 69871  
ISO7388-1

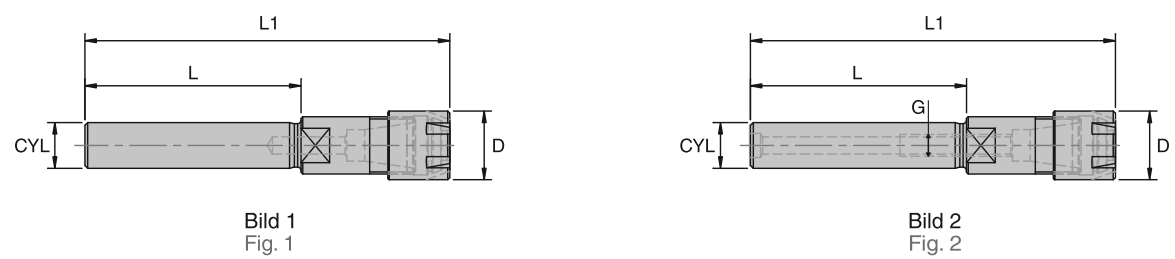
• siehe Seite D17-D18 für Drehmomentschlüssel Spezifikationen

• Please refer page no.D17-D18 for torque wrench details

HSK DIN 69893

# Spannzangenfutter Typ ER Zylinderschaft Collet chuck Type ER With Cylinder Shank

Zubehör  
Accessories



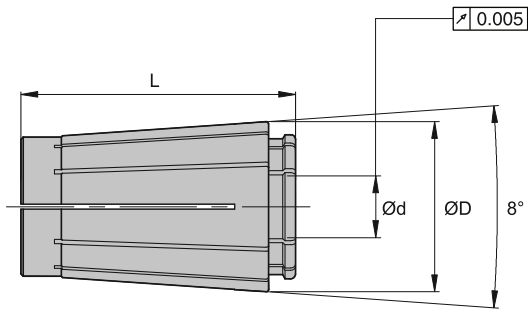
| Abmessung<br>Size | Spannzange<br>Collet Type | Bereich<br>Range | D<br>(mm) | L<br>(mm) | L1<br>(mm) | G   | Bild<br>Fig | Kühlmittelzufuhr<br>Coolant supply | Bezeichnung<br>Designation | Ident. No. |
|-------------------|---------------------------|------------------|-----------|-----------|------------|-----|-------------|------------------------------------|----------------------------|------------|
| CYL 8             | ER 11                     | 1-7              | 16        | 56        | 82.5       |     | 1           | -                                  | WCCH/ER11M-56/CYL8         | 5056876    |
| CYL 10            | ER 16                     | 1-10             | 22        | 60        | 98.5       |     | 1           | -                                  | WCCH/ER16M-60/CYL10        | 5056879    |
| CYL 12            | ER 11                     | 1-7              | 16        | 80        | 106.5      |     | 1           | -                                  | WCCH/ER11M-80/CYL12        | 5056880    |
| CYL 16            | ER 11                     | 1-7              | 16        | 100       | 121.0      | M6  | 2           | Form "AD"                          | WCCH/ER11M-100/CYL16       | 5056881    |
| CYL 16            | ER 16                     | 1-10             | 22        | 60        | 98.5       | M8  | 2           | Form "AD"                          | WCCH/ER16M-60/CYL16        | 5056882    |
| CYL 16            | ER 20                     | 1-13             | 28        | 100       | 142.5      | M8  | 2           | Form "AD"                          | WCCH/ER20M-100/CYL16       | 5056884    |
| CYL 20            | ER 16                     | 1-10             | 22        | 100       | 138.5      | M10 | 2           | Form "AD"                          | WCCH/ER16M-100/CYL20       | 5056885    |

Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details

Super collet Spannzangen - Zubehör für Super collet Spannzangenfutter

Super collet - Spare parts for Super collet chuck



| Spannzange<br>Collet Type | Bereich<br>Range | d<br>(mm) | L<br>(mm) | D<br>(mm) | Ident No. |
|---------------------------|------------------|-----------|-----------|-----------|-----------|
| SC06-2.0                  | 1.75-2.00        | 2.0       | 25        | 11        | 5103501   |
| SC06-2.5                  | 2.25-2.50        | 2.5       | 25        | 11        | 5103503   |
| SC06-3.0                  | 2.75-3.00        | 3.0       | 25        | 11        | 5103504   |
| SC06-3.5                  | 3.00-3.50        | 3.5       | 25        | 11        | 5103505   |
| SC06-4.0                  | 3.50-4.00        | 4.0       | 25        | 11        | 5103506   |
| SC06-4.5                  | 4.00-4.50        | 4.5       | 25        | 11        | 5103507   |
| SC06-5.0                  | 4.50-5.00        | 5.0       | 25        | 11        | 5103511   |
| SC06-5.5                  | 5.00-5.50        | 5.5       | 25        | 11        | 5103512   |
| SC06-6.0                  | 5.50-6.00        | 6.0       | 25        | 11        | 5103513   |
| SC10-2.0                  | 1.75-2.00        | 2.0       | 30        | 16        | 5103572   |
| SC10-2.5                  | 2.25-2.50        | 2.5       | 30        | 16        | 5103574   |
| SC10-3.0                  | 2.75-3.00        | 3.0       | 30        | 16        | 5103575   |
| SC10-3.5                  | 3.00-3.50        | 3.5       | 30        | 16        | 5103576   |
| SC10-4.0                  | 3.50-4.00        | 4.0       | 30        | 16        | 5103577   |
| SC10-4.5                  | 4.00-4.50        | 4.5       | 30        | 16        | 5103578   |
| SC10-5.0                  | 4.50-5.00        | 5.0       | 30        | 16        | 5103579   |
| SC10-5.5                  | 5.00-5.50        | 5.5       | 30        | 16        | 5103580   |
| SC10-6.0                  | 5.50-6.00        | 6.0       | 30        | 16        | 5103581   |
| SC10-6.5                  | 6.00-6.50        | 6.5       | 30        | 16        | 5103582   |
| SC10-7.0                  | 6.50-7.00        | 7.0       | 30        | 16        | 5103583   |
| SC10-7.5                  | 7.00-7.50        | 7.5       | 30        | 16        | 5103584   |
| SC10-8.0                  | 7.50-8.00        | 8.0       | 30        | 16        | 5103585   |
| SC10-8.5                  | 8.00-8.50        | 8.5       | 30        | 16        | 5103586   |
| SC10-9.0                  | 8.50-9.00        | 9.0       | 30        | 16        | 5103587   |
| SC10-9.5                  | 9.00-9.50        | 9.5       | 30        | 16        | 5103588   |
| SC10-10.0                 | 9.50-10.00       | 10.0      | 30        | 16        | 5103589   |
| SC13-3.0                  | 2.75-3.00        | 3.0       | 39        | 20        | 5103654   |
| SC13-3.5                  | 3.00-3.50        | 3.5       | 39        | 20        | 5103655   |
| SC13-4.0                  | 3.50-4.00        | 4.0       | 39        | 20        | 5103656   |
| SC13-4.5                  | 4.00-4.50        | 4.5       | 39        | 20        | 5103657   |
| SC13-5.0                  | 4.50-5.00        | 5.0       | 39        | 20        | 5103658   |
| SC13-5.5                  | 5.00-5.50        | 5.5       | 39        | 20        | 5103659   |
| SC13-6.0                  | 5.50-6.00        | 6.0       | 39        | 20        | 5103660   |
| SC13-6.5                  | 6.00-6.50        | 6.5       | 39        | 20        | 5103661   |
| SC13-7.0                  | 6.50-7.00        | 7.0       | 39        | 20        | 5103662   |
| SC13-7.5                  | 7.00-7.50        | 7.5       | 39        | 20        | 5103663   |
| SC13-8.0                  | 7.50-8.00        | 8.0       | 39        | 20        | 5103664   |
| SC13-8.5                  | 8.00-8.50        | 8.5       | 39        | 20        | 5103665   |
| SC13-9.0                  | 8.50-9.00        | 9.0       | 39        | 20        | 5103667   |
| SC13-9.5                  | 9.00-9.50        | 9.5       | 39        | 20        | 5103668   |
| SC13-10.0                 | 9.50-10.00       | 10.0      | 39        | 20        | 5103669   |
| SC13-10.5                 | 10.00-10.50      | 10.5      | 39        | 20        | 5103670   |
| SC13-11.0                 | 10.50-11.00      | 11.0      | 39        | 20        | 5103671   |
| SC13-11.5                 | 11.00-11.50      | 11.5      | 39        | 20        | 5103672   |
| SC13-12.0                 | 11.50-12.00      | 12.0      | 39        | 20        | 5103673   |
| SC13-12.5                 | 12.00-12.50      | 12.5      | 39        | 20        | 5103674   |
| SC13-13.0                 | 12.50-13.00      | 13.0      | 39        | 20        | 5103675   |

Super collet Spannzangen - Zubehör für Super collet Spannzangenfutter  
 Super collet - Spare parts for Super collet chuck

BT MAS 403  
ISO7388-2

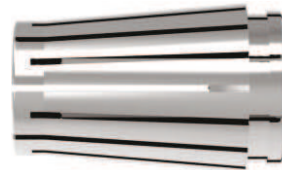
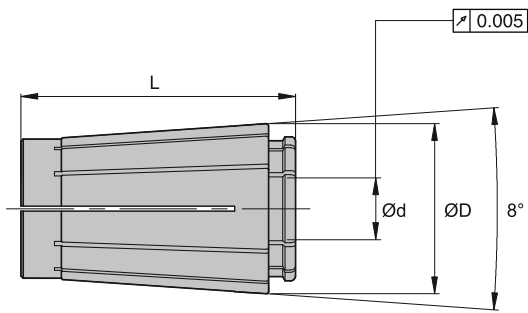
SK DIN 69871  
ISO7388-1

HSK DIN 69893

Zubehör  
Accessories

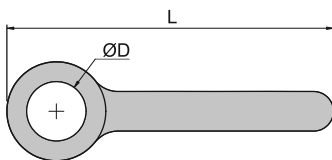
Ersatzteile  
Spare Parts

Technische Spezifikationen  
Technical Details



| Spannzange<br>Collet Type | Bereich<br>Range | d<br>(mm) | L<br>(mm) | D<br>(mm) | Ident No. |
|---------------------------|------------------|-----------|-----------|-----------|-----------|
| SC16-3.0                  | 2.75-3.00        | 3.0       | 45        | 25        | 5103676   |
| SC16-4.0                  | 3.50-4.00        | 4.0       | 45        | 25        | 5103678   |
| SC16-5.0                  | 4.50-5.00        | 5.0       | 45        | 25        | 5103680   |
| SC16-6.0                  | 5.50-6.00        | 6.0       | 45        | 25        | 5103681   |
| SC16-8.0                  | 7.50-8.00        | 8.0       | 45        | 25        | 5103682   |
| SC16-10.0                 | 9.50-10.00       | 10.0      | 45        | 25        | 5103683   |
| SC16-12.0                 | 11.50-12.00      | 12.0      | 45        | 25        | 5103684   |
| SC16-14.0                 | 13.50-14.00      | 14.0      | 45        | 25        | 5175048   |
| SC16-16.0                 | 15.50-16.00      | 16.0      | 45        | 25        | 5103685   |
| SC20-6.0                  | 5.50-6.00        | 6.0       | 50        | 30        | 5103952   |
| SC20-8.0                  | 7.50-8.00        | 8.0       | 50        | 30        | 5103953   |
| SC20-10.0                 | 9.50-10.00       | 10.0      | 50        | 30        | 5103954   |
| SC20-12.0                 | 11.50-12.00      | 12.0      | 50        | 30        | 5103970   |
| SC20-14.0                 | 13.50-14.00      | 14.0      | 50        | 30        | 5103972   |
| SC20-16.0                 | 15.50-16.00      | 16.0      | 50        | 30        | 5103974   |
| SC20-18.0                 | 17.50-18.00      | 18.0      | 50        | 30        | 5103976   |
| SC20-20.0                 | 19.50-20.00      | 20.0      | 50        | 30        | 5103977   |
| SC25-6.0                  | 6.00-6.50        | 6.0       | 57        | 36        | 5104103   |
| SC25-8.0                  | 7.50-8.00        | 8.0       | 57        | 36        | 5104104   |
| SC25-10.0                 | 9.50-10.00       | 10.0      | 57        | 36        | 5104105   |
| SC25-12.0                 | 11.50-12.00      | 12.0      | 57        | 36        | 5104106   |
| SC25-16.0                 | 15.50-16.00      | 16.0      | 57        | 36        | 5104107   |
| SC25-20.0                 | 19.50-20.00      | 20.0      | 57        | 36        | 5104108   |
| SC25-25.0                 | 24.50-25.00      | 25.0      | 57        | 36        | 5104109   |

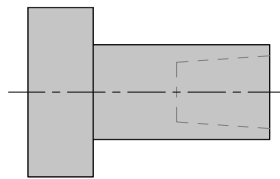
Rollspannschlüssel  
Friction Wrench



| Bezeichnung<br>Designation | Spannzange<br>Collet Type | D<br>(mm) | L<br>(mm) | Ident No. |
|----------------------------|---------------------------|-----------|-----------|-----------|
| FW-D19.5                   | SCN06-FN                  | 19.5      | 130       | 5102205   |
| FW-D27.1                   | SCN10-FN                  | 27.1      | 135       | 5103190   |
| FW-D33                     | SCN13-FN                  | 33.0      | 160       | 5102206   |
| FW-D40                     | SCN16-FN                  | 40.0      | 180       | 5102207   |
| FW-D48                     | SCN20-FN                  | 48.0      | 210       | 5103191   |
| FW-D55                     | SCN25-FN                  | 55.0      | 300       | 5102209   |

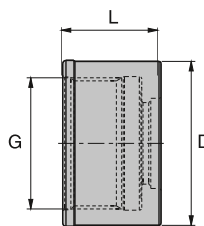
• siehe Seite 8 für Drehmomentschlüssel Spezifikationen

• Please refer page no.D17-D18 for torque wrench details



| Spannzange<br>Collet Type | Ident No. |
|---------------------------|-----------|
| SCP06                     | 5152778   |
| SCP10                     | 5152779   |
| SCP13                     | 5152780   |
| SCP16                     | 5152781   |
| SCP20                     | 5152782   |
| SCP25                     | 5152783   |

Spannmutter für Rollspannschlüssel (für Super collet Spannzangenfutter)  
Friction Nut (for Super collet chuck)



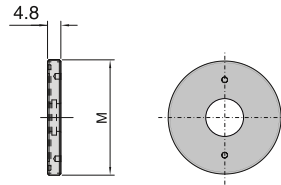
| Spannzange<br>Collet Type | Bereich<br>Range | ØD<br>(mm) | L<br>(mm) | G<br>(mm) | Ident No. |
|---------------------------|------------------|------------|-----------|-----------|-----------|
| SCN06-FN                  | 2.0-6.0          | 19.5       | 15        | M15.5x1   | 5102199   |
| SCN10-FN                  | 2.0-10.0         | 27.1       | 17        | M21.5x1   | 5102200   |
| SCN13-FN                  | 3.0-13.0         | 33.0       | 21        | M27x1     | 5102201   |
| SCN16-FN                  | 4.0-16.0         | 40.0       | 24        | M32x1.5   | 5102202   |
| SCN20-FN                  | 6.0-20.0         | 48.0       | 24        | M40x1     | 5102203   |
| SCN25-FN                  | 16.0-25.0        | 55.0       | 30        | M45x1.5   | 5102204   |



Super collet Spannzangenfutter mit innerer Kühlmitteldurchführung  
 Super collet chuck with internal coolant

BT MAS 403  
 ISO7388-2

Dichtscheibe  
 Sealing disc

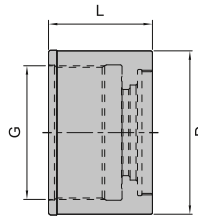


SK DIN 69871  
 ISO7388-1

| Dichtebereich<br>Sealing<br>Range<br>mm | Id. No.<br>SD-SC06<br>M16x1 | Id. No.<br>SD-SC10<br>M22x1 | Id. No.<br>SD-SC13<br>M28x1 | Id. No.<br>SD-SC16<br>M34x1 | Id. No.<br>SD-SC20<br>M36x1 | Id. No.<br>SD-SC25<br>M42x1 |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 4.0                                     | 5152620                     | 5152739                     | 5152744                     | 5152750                     |                             |                             |
| 5.0                                     | 5152622                     | 5152740                     | 5152745                     | 5152751                     |                             |                             |
| 6.0                                     | 5152738                     | 5152741                     | 5152746                     | 5152752                     | 5152757                     | 5152763                     |
| 8.0                                     |                             | 5152742                     | 5152747                     | 5152753                     | 5152758                     | 5152765                     |
| 10.0                                    |                             | 5152743                     | 5152748                     | 5152754                     | 5152759                     | 5152766                     |
| 12.0                                    |                             |                             | 5152749                     | 5152755                     | 5152760                     | 5152767                     |
| 16.0                                    |                             |                             |                             | 5152756                     | 5152761                     | 5152768                     |
| 20.0                                    |                             |                             |                             |                             | 5152762                     | 5152769                     |
| 25.0                                    |                             |                             |                             |                             |                             | 5152770                     |

HSK DIN 69893

Spannmutter mit innerer Kühlung für Dichtscheibe  
 Friction nut with internal coolant

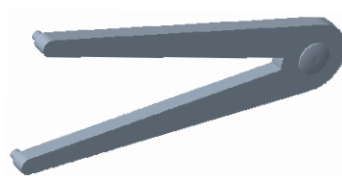


Zubehör  
 Accessories

| Spannzange<br>Collet Type | Bereich<br>Range | ØD<br>(mm) | L<br>(mm) | G<br>(mm) | Ident No. |
|---------------------------|------------------|------------|-----------|-----------|-----------|
| SCN06-IC-FN               | 2.0-6.0          | 19.5       | 20        | M15.5x1   | 5152771   |
| SCN10-IC-FN               | 2.0-10.0         | 27.1       | 22        | M21.5x1   | 5152772   |
| SCN13-IC-FN               | 3.0-13.0         | 33.0       | 26        | M27x1     | 5152773   |
| SCN16-IC-FN               | 4.0-16.0         | 40.0       | 29        | M32x1.5   | 5152774   |
| SCN20-IC-FN               | 6.0-20.0         | 48.0       | 29        | M40x1     | 5152775   |
| SCN25-IC-FN               | 6.0-25.0         | 55.0       | 35        | M45x1.5   | 5152776   |

Ersatzteile  
 Spare Parts

Stirnlochschlüssel  
 Adjustable pin wrench

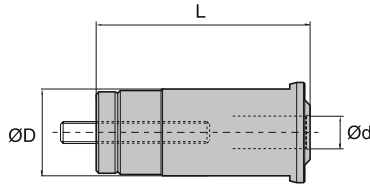


| Spannzange<br>Collet Type | Ident No. |
|---------------------------|-----------|
| GWA0                      | 6721800   |

Technische Spezifikationen  
 Technical Details

Ersatzteile für Hochleistungsfräaserspannfutter  
Spare Parts for Hi-power milling chuck

Zylindrische Spannzange mit Längennachstellung  
Adjustable Straight Collet



| D<br>(mm) | d<br>(mm) | L<br>(mm) | Bezeichnung<br>Designation | Ident No. |
|-----------|-----------|-----------|----------------------------|-----------|
| 20        | 6         | 63        | WSC 20-06                  | 5056814   |
| 20        | 8         | 63        | WSC 20-08                  | 5056817   |
| 20        | 10        | 63        | WSC 20-10                  | 5056818   |
| 20        | 12        | 63        | WSC 20-12                  | 5056819   |
| 20        | 14        | 63        | WSC 20-14                  | 5120883   |
| 20        | 16        | 63        | WSC 20-16                  | 5056820   |
| 25        | 6         | 73        | WSC 25-06                  | 5056821   |
| 25        | 8         | 73        | WSC 25-08                  | 5056822   |
| 25        | 10        | 73        | WSC 25-10                  | 5056823   |
| 25        | 12        | 73        | WSC 25-12                  | 5056824   |
| 25        | 14        | 73        | WSC 25-14                  | 5173498   |
| 25        | 16        | 73        | WSC 25-16                  | 5056825   |
| 25        | 18        | 73        | WSC 25-18                  | 5056827   |
| 25        | 20        | 73        | WSC 25-20                  | 5056828   |
| 32        | 6         | 79        | WSC 32-06                  | 5056829   |
| 32        | 8         | 79        | WSC 32-08                  | 5056830   |
| 32        | 10        | 79        | WSC 32-10                  | 5056831   |
| 32        | 12        | 79        | WSC 32-12                  | 5056832   |
| 32        | 14        | 79        | WSC 32-14                  | 5120884   |
| 32        | 16        | 79        | WSC 32-16                  | 5056833   |
| 32        | 18        | 79        | WSC 32-18                  | 5056834   |
| 32        | 20        | 79        | WSC 32-20                  | 5056835   |
| 32        | 25        | 79        | WSC 32-25                  | 5056836   |

Spannschlüssel  
Wrench



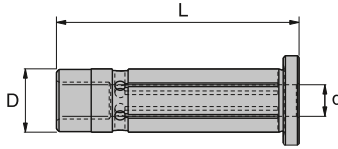
| ( für Größen )<br>(For size) | Bezeichnung<br>Designation | Ident No. |
|------------------------------|----------------------------|-----------|
| WHPMC 20                     | C-20                       | 5056838   |
| WHPMC 25                     | C-25                       | 5056839   |
| WHPMC 32                     | C-32                       | 5056840   |

• siehe Seite D17-D18 für Drehmomentschlüssel Spezifikationen

• Please refer page no.D17-D18 for torque wrench details

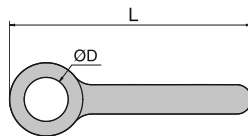
Ersatzteile für Schlanke Hochleistungsfräserspannfutter  
Spare Parts for Slim Hi-power milling chuck

Zylindrische Spannzange mit Längennachstellung  
Adjustable Straight Collet (for Slim Hi-Power Milling Chuck)



| D (mm) | d (mm) | L (mm) | Bezeichnung<br>Designation | Ident No. |
|--------|--------|--------|----------------------------|-----------|
| 12     | 3      | 48     | WSC-S12-03                 | 5108522   |
| 12     | 4      | 48     | WSC-S12-04                 | 5108523   |
| 12     | 6      | 48     | WSC-S12-06                 | 5108524   |
| 12     | 8      | 48     | WSC-S12-08                 | 5108525   |
| 20     | 6      | 63     | WSC-S20-06                 | 5108526   |
| 20     | 8      | 63     | WSC-S20-08                 | 5108527   |
| 20     | 10     | 63     | WSC-S20-10                 | 5108528   |
| 20     | 12     | 63     | WSC-S20-12                 | 5108529   |
| 20     | 16     | 63     | WSC-S20-16                 | 5108531   |

Rollspannschlüssel (für schlanke Hochleistungsfräserspannfutter)  
Friction wrench (for Slim Hi-Power Milling Chuck)



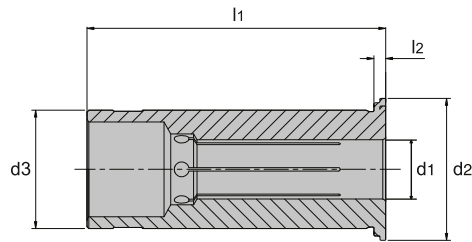
| Größe<br>Size | d (mm) | D (mm) | L (mm) | Bezeichnung<br>Designation | Ident No. |
|---------------|--------|--------|--------|----------------------------|-----------|
| S06, S08      | 06     | 25     | 135    | FW-D25                     | 5106044   |
| S10, S12      | 12     | 30     | 150    | FW-D30                     | 5097511   |
| S16           | 16     | 38     | 180    | FW-D38                     | 5097513   |
| S20           | 20     | 44     | 210    | FW-D44                     | 5097514   |

• siehe Seite D17-18 für Drehmomentschlüssel Spezifikationen

• Please refer page no.D17-D18 for torque wrench details

Ersatzteile für Hydrodehnspannfutter (WHEC)  
Spare Parts for Hydraulic expansion chuck (WHEC)

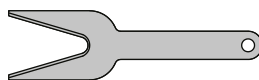
WHC - Reduzierbuchsen  
WHC - Reduction sleeves



| d1 (mm) | d2 (mm) | d3 (mm) | l1 (mm) | l2 (mm) | Innere Kühlmittelzufuhr / Internal coolant supply<br>Bezeichnung / Designation | Ident No. |
|---------|---------|---------|---------|---------|--|-----------|
| 3       | 19      | 12      | 45,0    | 2       | WHC12-3  | 9142752   |
| 4       | 19      | 12      | 45,0    | 2       | WHC12-4  | 9142753   |
| 5       | 19      | 12      | 45,0    | 2       | WHC12-5  | 9142754   |
| 6       | 19      | 12      | 45,0    | 2       | WHC12-6  | 9142755   |
| 8       | 19      | 12      | 45,0    | 2       | WHC12-8  | 9142756   |
| 3       | 29      | 20      | 50,5    | 2       | WHC20-3  | 9142758   |
| 4       | 29      | 20      | 50,5    | 2       | WHC20-4  | 9142779   |
| 5       | 29      | 20      | 50,5    | 2       | WHC20-5  | 9142780   |
| 6       | 29      | 20      | 50,5    | 2       | WHC20-6  | 9142781   |
| 7       | 29      | 20      | 50,5    | 2       | WHC20-7  | 9142782   |
| 8       | 29      | 20      | 50,5    | 2       | WHC20-8  | 9142784   |
| 9       | 29      | 20      | 50,5    | 2       | WHC20-9  | 9142785   |
| 10      | 29      | 20      | 50,5    | 2       | WHC20-10   | 9142786   |
| 11      | 29      | 20      | 50,5    | 2       | WHC20-11   | 9142787   |
| 12      | 29      | 20      | 50,5    | 2       | WHC20-12   | 9142788   |
| 13      | 29      | 20      | 50,5    | 2       | WHC20-13   | 9142799   |
| 14      | 29      | 20      | 50,5    | 2       | WHC20-14   | 9142800   |
| 15      | 29      | 20      | 50,5    | 2       | WHC20-15   | 9142801   |
| 16      | 29      | 20      | 50,5    | 2       | WHC20-16   | 9142802   |
| 6       | 39      | 32      | 60,5    | 3       | WHC32-6  | 9142804   |
| 8       | 39      | 32      | 60,5    | 3       | WHC32-8  | 5069815   |
| 10      | 39      | 32      | 60,5    | 3       | WHC32-10   | 9142809   |
| 12      | 39      | 32      | 60,5    | 3       | WHC32-12   | 9142810   |
| 14      | 39      | 32      | 60,5    | 3       | WHC32-14   | 9142811   |
| 16      | 39      | 32      | 60,5    | 3       | WHC32-16   | 9142812   |
| 18      | 39      | 32      | 60,5    | 3       | WHC32-18   | 9142813   |
| 20      | 39      | 32      | 60,5    | 3       | WHC32-20   | 9142814   |
| 25      | 39      | 32      | 60,5    | 3       | WHC32-25   | 9142815   |

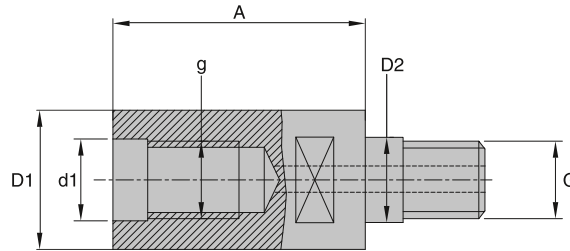
• Bei innerer Kühlmittelzufuhr: Bund geschlossen, Kühlmitteldicht bis max. 80 bar • For internal coolant supply: Closed collar, coolant proof up to max. 80 bar

WHC/WZ - Ausziehwerkzeug für Reduzierbuchsen  
WHC/WZ - Sleeve remover



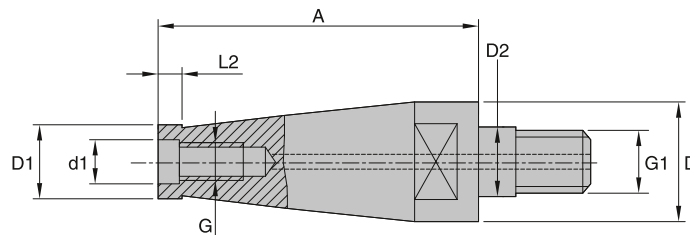
| Bezeichnung<br>Designation | Ident No. |
|----------------------------|-----------|
| HGR/WZ                     | 9142854   |

Einschraubfräser Verlängerung  
Threaded arbor extensions



| g / G<br>(mm) | d1 / D2<br>(mm) | A<br>(mm) | D1<br>(mm) | Bezeichnung<br>Designation | Ident No. |
|---------------|-----------------|-----------|------------|----------------------------|-----------|
| M8            | 8.5             | 40        | 13,8       | WTA/M8-40/M8               | 5056841   |
| M8            | 8.5             | 60        | 13,8       | WTA/M8-60/M8               | 5056842   |
| M10           | 10.5            | 40        | 18,0       | WTA/M10-40/M10             | 5056843   |
| M10           | 10.5            | 60        | 18,0       | WTA/M10-60/M10             | 5056844   |
| M12           | 12.5            | 40        | 21,0       | WTA/M12-40/M12             | 5056845   |
| M12           | 12.5            | 60        | 21,0       | WTA/M12-60/M12             | 5056846   |
| M16           | 17.0            | 40        | 29,0       | WTA/M16-40/M16             | 5056847   |
| M16           | 17.0            | 60        | 29,0       | WTA/M16-60/M16             | 5056848   |

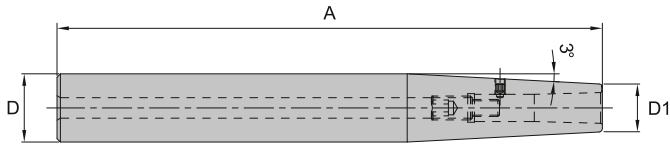
Einschraubfräser Reduzierung  
Threaded arbor reductions



| G<br>(mm) | G1<br>(mm) | D2<br>(mm) | d1<br>(mm) | A<br>(mm) | D1<br>(mm) | D<br>(mm) | L2<br>(mm) | Bezeichnung<br>Designation | Ident No. |
|-----------|------------|------------|------------|-----------|------------|-----------|------------|----------------------------|-----------|
| M5        | M8         | 8,5        | 5,5        | 40        | 10,0       | 13,0      | 6          | WTA/M5-40/M8               | 5056849   |
| M8        | M10        | 10,5       | 8,5        | 40        | 13,8       | 18,0      | 6          | WTA/M8-40/M10              | 5056850   |
| M8        | M12        | 12,5       | 8,5        | 60        | 13,8       | 21,0      | 6          | WTA/M8-60/M12              | 5056851   |
| M10       | M12        | 12,5       | 10,5       | 40        | 18,0       | 21,0      | 6          | WTA/M10-40/M12             | 5056853   |
| M10       | M16        | 17,0       | 10,5       | 60        | 18,0       | 29,0      | 6          | WTA/M10-60/M16             | 5056854   |
| M12       | M16        | 17,0       | 12,5       | 40        | 21,0       | 29,0      | 6          | WTA/M12-40/M16             | 5056855   |

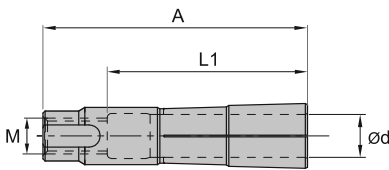
Ersatzteile für Micro-Spannzangenhalter (MCH)  
Spare Parts for Micro collet holder (MCH)

Micro Spannzange Verlängerungen  
Micro collet extensions



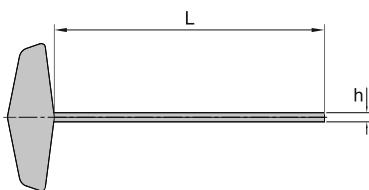
| Spannzange<br>Collet Type | Bereich Ø<br>Range Ø | A<br>(mm) | D<br>(mm) | D1<br>(mm) | Bezeichnung<br>Designation | Ident No. |
|---------------------------|----------------------|-----------|-----------|------------|----------------------------|-----------|
| MC10                      | 3 - 4                | 120       | 12        | 10         | WMCE/D10-120/CYL12         | 5173482   |
| MC14                      | 3 - 6                | 90        | 16        | 14         | WMCE/D14-90/CYL16          | 5173483   |
| MC14                      | 3 - 6                | 120       | 16        | 14         | WMCE/D14-120/CYL16         | 5173490   |
| MC14                      | 3 - 6                | 160       | 16        | 14         | WMCE/D14-160/CYL16         | 5173492   |
| MC14                      | 3 - 6                | 200       | 16        | 14         | WMCE/D14-200/CYL16         | 5173497   |
| MC14                      | 3 - 6                | 120       | 20        | 14         | WMCE/D14-120/CYL20         | 5173493   |
| MC14                      | 3 - 6                | 160       | 20        | 14         | WMCE/D14-160/CYL20         | 5173495   |
| MC14                      | 3 - 6                | 200       | 20        | 14         | WMCE/D14-200/CYL20         | 5173496   |

Micro Spannzange  
Micro collet



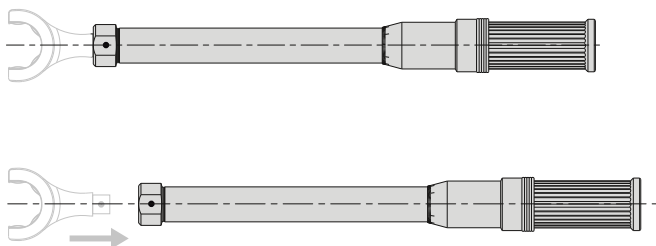
| für Größe<br>for Size | d<br>(mm) | A<br>(mm) | L1<br>(mm) | M<br>(mm) | Spannschlüssel<br>Wrench | Anzugsmoment<br>Tightening Torque | Bezeichnung<br>Designation | Ident No. |
|-----------------------|-----------|-----------|------------|-----------|--------------------------|-----------------------------------|----------------------------|-----------|
| MC10                  | 3         | 18        | 13         | M4        | W-D10x200L-HEX3.0        | 10Nm                              | WMC 10-3.0                 | 5153145   |
| MC10                  | 4         | 18        | 13         | M4        | W-D10x200L-HEX3.0        | 10Nm                              | WMC 10-4.0                 | 5153147   |
| MC14                  | 3         | 37        | 15         | M7x1      | W-D14x200L-HEX4.0        | 10Nm                              | WMC 14-3.0                 | 5153148   |
| MC14                  | 4         | 37        | 15         | M7x1      | W-D14x200L-HEX4.0        | 10Nm                              | WMC 14-4.0                 | 5153149   |
| MC14                  | 5         | 37        | 20         | M7x1      | W-D14x200L-HEX4.0        | 10Nm                              | WMC 14-5.0                 | 5153151   |
| MC14                  | 6         | 37        | 28         | M7x1      | W-D14x200L-HEX4.0        | 10Nm                              | WMC 14-6.0                 | 5153152   |

Spannschlüssel  
Wrench



| Bezeichnung<br>Designation | Spannzange<br>Collet Type | h<br>(mm) | L<br>(mm) | Ident No. |
|----------------------------|---------------------------|-----------|-----------|-----------|
| W-D10x200L-HEX3.0          | MC10                      | 3.0       | 200       | 5166591   |
| W-D14x200L-HEX4.0          | MC14                      | 4.0       | 200       | 5166592   |

## Drehmomentschlüssel Torque wrench



| Bezeichnung<br>Designation | Schaftgröße (mm)<br>Shank size (mm) | Drehmoment (Nm)<br>Torque range (Nm) | Inkrement (mm)<br>Increment (Nm) | Länge x Ø (mm)<br>Length x Ø (mm) | Ident. No. |
|----------------------------|-------------------------------------|--------------------------------------|----------------------------------|-----------------------------------|------------|
| TW01-9X12-6-30             | 9 x 12                              | 6 - 30                               | 0.2                              | 306 x 38                          | 5172645    |
| TW02-9X12-25-125           | 9 x 12                              | 25 - 125                             | 1.0                              | 430 x 38                          | 5172646    |
| TW03-14X18-60-340          | 14 x 18                             | 60 - 340                             | 2.0                              | 527 x 38                          | 5172647    |

## Anzugsmoment Diagramm Tightening Torque Chart

| Type   | Spannbereich<br>Clamping<br>Range Ø | Auszugsmoment (Nm)<br>Tightening Torque (Nm) |         |         | Schlüssel<br>Suitable for<br>Wrench | Drehmoment-<br>schlüssel<br>Suitable<br>Torque wrench | Aufsteckschlüssel passend<br>für Drehmomentschlüssel<br>Suitable<br>Torque wrench head |
|--|-------------------------------------|--|---------|---------|-------------------------------------|---|--|
|  |                                     | ER Nut                                       | ERM Nut | ERB Nut |                                     |   |  |
| <b>Spannzangenfutter ER / Collet Chuck ER</b>                          |                                     |  |         |         |                                     |   |  |
| ER11   | 1.0 - 3.0                           | 8  | 8       | -       | E11P-17                             | TW01-9X12-6-30  | TWH-E11M, TWH-E11  |
|  | 3.0 - 7.0                           | 24   | 16      | -       | E11P-17                             | TW01-9X12-6-30  | TWH-E11M, TWH-E11  |
| ER16   | 1.0                                 | 8  | 8       | -       | E16P-25                             | TW01-9X12-6-30  | TWH-E16M, TWH-E16  |
|  | 1.5 - 3.5                           | 20   | 20      | -       | E16P-25                             | TW01-9X12-6-30  | TWH-E16M, TWH-E16  |
|  | 4.0 - 4.5                           | 40   | 25      | -       | E16P-25                             | TW02-9X12-25-125                                      | TWH-E16M, TWH-E16  |
| ER20   | 5.0 - 10.0                          | 56   | 25      | -       | E16P-25                             | TW02-9X12-25-125                                      | TWH-E16M, TWH-E16  |
|  | 2.0 - 6.5                           | 32   | 28      | -       | E20                                 | TW02-9X12-25-125                                      | TWH-E20M, TWH-E20  |
| ER25   | 7.0 - 13.0                          | 80   | 28      | -       | E20                                 | TW02-9X12-25-125                                      | TWH-E20M, TWH-E20  |
|  | 2.0 - 3.5                           | 25   | 25      | 25      | E25                                 | TW02-9X12-25-125                                      | TWH-E25M, TWH-E25  |
|  | 4.0 - 4.5                           | 56   | 32      | 48      | E25                                 | TW02-9X12-25-125                                      | TWH-E25M, TWH-E25  |
|  | 5.0 - 7.5                           | 80   | 32      | 72      | E25                                 | TW02-9X12-25-125                                      | TWH-E25M, TWH-E25  |
| ER32   | 8.0 - 16.0                          | 104  | 32      | 104     | E25                                 | TW02-9X12-25-125                                      | TWH-E25M, TWH-E25  |
|  | 2.0 - 2.5                           | 25   | -       | 25      | E32                                 | TW02-9X12-25-125                                      | TWH-E32-9x12   |
|  | 3.0 - 7.5                           | 136  | -       | 128     | E32                                 | TW03-14X18-60-340                                     | TWH-E32-14x18  |
| ER40   | 8.0 - 20.0                          | 136  | =       | 136     | E32                                 | TW03-14X18-60-340                                     | TWH-E32-14x18  |
|  | 3.0 - 26.0                          | 176  | -       | 176     | E40                                 | TW03-14X18-60-340                                     | TWH-E40  |
| <b>Hochleistungsfräaserspannfutter / Hi-power milling chuck (HPMC)</b> |                                     |  |         |         |                                     |   |  |
| HPMC   | 20                                  |  | 30      |         | C-20                                | TW02-9X12-25-125                                      | TWH-C-20   |
|  | 25                                  |  | 70      |         | C-25                                | TW02-9X12-25-125                                      | TWH-C-25   |
|  | 32                                  |  | 80      |         | C-32                                | TW02-9X12-25-125                                      | TWH-C-32   |
| Slim HPMC  | S06                                 |  | 30      |         | FW-D25                              | TW02-9X12-25-125                                      | TWH-FW-D25   |
|  | S08                                 |  | 30      |         | FW-D25                              | TW02-9X12-25-125                                      | TWH-FW-D25   |
|  | S10                                 |  | 30      |         | FW-D30                              | TW02-9X12-25-125                                      | TWH-FW-D30   |
|  | S12                                 |  | 30      |         | FW-D30                              | TW02-9X12-25-125                                      | TWH-FW-D30   |
|  | S16                                 |  | 30      |         | FW-D38                              | TW02-9X12-25-125                                      | TWH-FW-D38   |
|  | S20                                 |  | 30      |         | FW-D44                              | TW02-9X12-25-125                                      | TWH-FW-D44   |
| <b>Super collet Spannzangenfutter / Super collet chuck</b>             |                                     |  |         |         |                                     |   |  |
| Super Chuck  | SCF06                               |  | 20      |         | FW-D19.5                            | TW01-9X12-6-30  | TWH-FW-D19.5   |
|  | SCF10                               |  | 25      |         | FW-D27.1                            | TW02-9X12-25-125                                      | TWH-FW-D27.1   |
|  | SCF13                               |  | 30      |         | FW-D33                              | TW02-9X12-25-125                                      | TWH-FW-D33   |
|  | SCF16                               |  | 40      |         | FW-D40                              | TW02-9X12-25-125                                      | TWH-FW-D40   |
|  | SCF20                               |  | 50      |         | FW-D48                              | TW02-9X12-25-125                                      | TWH-FW-D48   |
|  | SCF25                               |  | 60      |         | FW-D55                              | TW02-9X12-25-125                                      | TWH-FW-D55   |



### Aufsteckschlüssel

Torque Wrench head (for ER range)

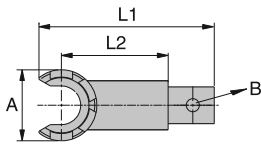


Bild. A  
Fig. A

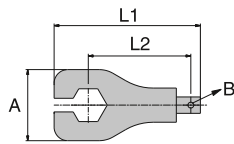


Bild. B  
Fig. B

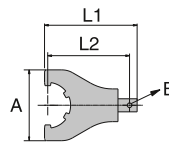


Bild. C  
Fig. C

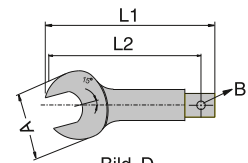
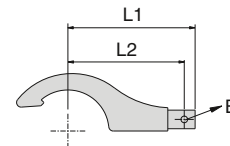


Bild. D  
Fig. D

| Bezeichnung<br>Designation | für Spannmutter<br>for Clamping Nut | A<br>(mm) | L1<br>(mm) | L2<br>(mm) | B<br>(mm) | Bild<br>Fig | Ident. No. |
|----------------------------|-------------------------------------|-----------|------------|------------|-----------|-------------|------------|
| TWH-E11M                   | ER11M-DIN 6499                      | 16.8      | 90         | 75         | 9x12      | A           | 5172601    |
| TWH-E16M                   | ER16M-DIN 6499                      | 22.5      | 110        | 75         | 9x12      | A           | 5172603    |
| TWH-E20M                   | ER20M-DIN 6499                      | 29.0      | 120        | 75         | 9x12      | A           | 5172605    |
| TWH-E25M                   | ER25M-DIN 6499                      | 36.0      | 130        | 75         | 9x12      | A           | 5172606    |
| TWH-E11                    | ER11-DIN 6499                       | 23.0      | 90         | 75         | 9x12      | D           | 5172607    |
| TWH-E16                    | ER16-DIN 6499                       | 44.0      | 105        | 75         | 9x12      | B           | 5172608    |
| TWH-E20                    | ER20-DIN 6499                       | 52.0      | 105        | 75         | 9x12      | B           | 5172609    |
| TWH-E25                    | ER25-DIN 6499                       | 65.0      | 85         | 75         | 9x12      | C           | 5172611    |
| TWH-E32-9X12               | ER32-DIN 6499                       | 75.0      | 124        | 75         | 9x12      | C           | 5172616    |
| TWH-E32-14X18              | ER32-DIN 6499                       | 75.0      | 124        | 75         | 14x18     | C           | 5172617    |
| TWH-E40                    | ER40-DIN 6499                       | 90.0      | 164        | 75         | 14x18     | C           | 5172618    |

### Aufsteckschlüssel

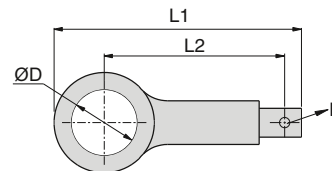
Torque wrench head (for Hi-Power milling chuck)



| Bezeichnung<br>Designation | ( für Größen )<br>(For size) | L1<br>(mm) | L2<br>(mm) | B<br>(mm) | Ident No. |
|----------------------------|------------------------------|------------|------------|-----------|-----------|
| TWH-C-20                   | WHPMC 20                     | 113        | 75         | 9x12      | 5172629   |
| TWH-C-25                   | WHPMC 25                     | 114        | 75         | 9x12      | 5172631   |
| TWH-C-32                   | WHPMC 32                     | 118        | 75         | 9x12      | 5172632   |

### Aufsteckschlüssel

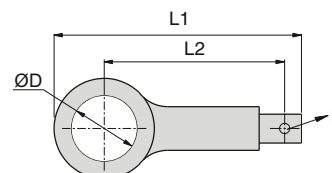
Torque Wrench Head (for Slim Hi-Power milling Chuck)



| Bezeichnung<br>Designation | Größe<br>Size | D<br>(mm) | L1<br>(mm) | L2<br>(mm) | B<br>(mm) | Ident No. |
|----------------------------|---------------|-----------|------------|------------|-----------|-----------|
| TWH-FW-D25                 | S06, S08      | 25        | 103        | 75         | 9x12      | 5172633   |
| TWH-FW-D30                 | S10, S12      | 30        | 106        | 75         | 9x12      | 5172635   |
| TWH-FW-D38                 | S16           | 38        | 111        | 75         | 9x12      | 5172636   |
| TWH-FW-D44                 | S20           | 44        | 115        | 75         | 9x12      | 5172638   |

### Aufsteckschlüssel

Torque Wrench Head (for Super collet chuck)



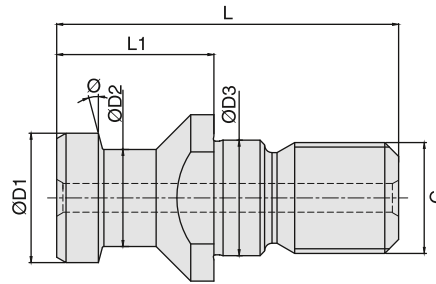
| Bezeichnung<br>Designation | Spannzange<br>Collet Type | D<br>(mm) | L1<br>(mm) | L2<br>(mm) | B<br>(mm) | Ident No. |
|----------------------------|---------------------------|-----------|------------|------------|-----------|-----------|
| TWH-FW-D19.5               | SCN06-FN                  | 19.5      | 99.5       | 75         | 9x12      | 5172619   |
| TWH-FW-D27.1               | SCN10-FN                  | 27.1      | 103.0      | 75         | 9x12      | 5172620   |
| TWH-FW-D33                 | SCN13-FN                  | 33.0      | 108.5      | 75         | 9x12      | 5172622   |
| TWH-FW-D40                 | SCN16-FN                  | 40.0      | 111.0      | 75         | 9x12      | 5172623   |
| TWH-FW-D48                 | SCN20-FN                  | 48.0      | 115.0      | 75         | 9x12      | 5172625   |
| TWH-FW-D55                 | SCN25-FN                  | 55.0      | 121.5      | 75         | 9x12      | 5172627   |

## Anzugsbolzen DIN 69872 A+B

Pull stud DIN 69872 A+B

Type A (Mit Durchgangsbohrung, ohne O-Ring)

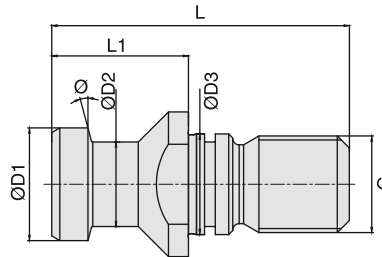
Type A (With through hole, without O-ring)



| G   | ØD1 (mm) | ØD2 (mm) | ØD3 (mm) | L (mm) | L1 (mm) | Ø   | Bezeichnung<br>Designation | Ident No. |
|-----|----------|----------|----------|--------|---------|-----|----------------------------|-----------|
| M12 | 13.0     | 9.0      | 13.0     | 44.0   | 24.0    | 15° | BN 164 - SK 30             | 6733614   |
| M16 | 19.0     | 14.0     | 17.0     | 54.0   | 26.0    | 15° | BN 164 - SK 40             | 6733615   |
| M24 | 28.0     | 21.0     | 25.0     | 74.0   | 34.0    | 15° | BN 164 - SK 50             | 6733616   |

Type B (Ohne Durchgangsbohrung inkl. O-Ring)

Type B (without through hole, incl. O-ring)



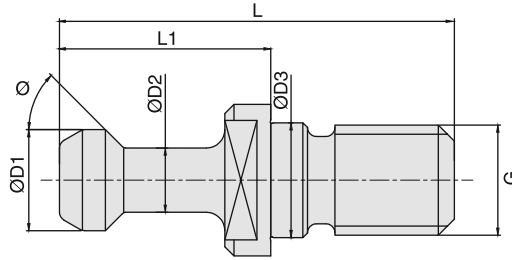
| G   | ØD1 (mm) | ØD2 (mm) | ØD3 (mm) | L (mm) | L1 (mm) | Ø   | Bezeichnung<br>Designation | Ident No. |
|-----|----------|----------|----------|--------|---------|-----|----------------------------|-----------|
| M16 | 19.0     | 14.0     | 17.0     | 54.0   | 26.0    | 15° | BN 164B - SK 40            | 5056290   |
| M24 | 28.0     | 21.0     | 25.0     | 74.0   | 34.0    | 15° | BN 164B - SK 50            | 5056292   |

## Anzugsbolzen MAS BT A+B

Pull stud MAS BT A+B

### Type A (Ohne Durchgangsbohrung, ohne O-Ring)

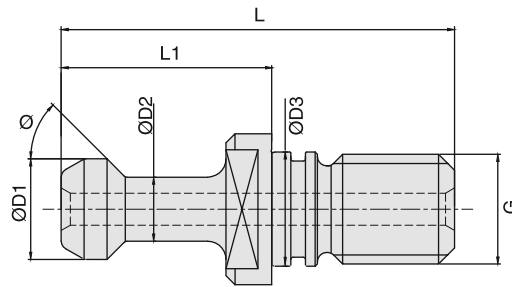
Type A (Without through hole, without O-ring)



| G   | ØD1 (mm) | ØD2 (mm) | ØD3 (mm) | L (mm) | L1 (mm) | Ø   | Bezeichnung<br>Designation | Ident No. |
|-----|----------|----------|----------|--------|---------|-----|----------------------------|-----------|
| M12 | 11.0     | 7.0      | 12.5     | 43.0   | 23.0    | 45° | BN 164 - BT 30             | 6733617   |
| M16 | 15.0     | 10.0     | 17.0     | 60.0   | 35.0    | 45° | BN 164 - BT 40             | 6733618   |
| M24 | 23.0     | 17.0     | 25.0     | 85.0   | 45.0    | 45° | BN 164 - BT 50             | 6733619   |
| M12 | 11.0     | 7.0      | 12.5     | 43.0   | 23.0    | 60° | BN 164 - BT 30-60          | 4600614   |
| M16 | 15.0     | 10.0     | 17.0     | 60.0   | 35.0    | 60° | BN 164 - BT 40-60          | 4600882   |
| M24 | 23.0     | 17.0     | 25.0     | 85.0   | 45.0    | 60° | BN 164 - BT 50-60          | 4601402   |
| M16 | 15.0     | 10.0     | 17.0     | 60.0   | 35.0    | 90° | BN 164 - BT 40-90          | 4600959   |
| M24 | 23.0     | 17.0     | 25.0     | 85.0   | 45.0    | 90° | BN 164 - BT 50-90          | 4601404   |

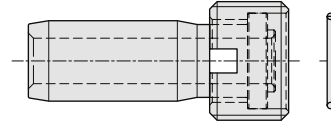
### Type B (mit Durchgangsbohrung inkl. O-Ring)

Type B (with through hole, incl. O-ring)



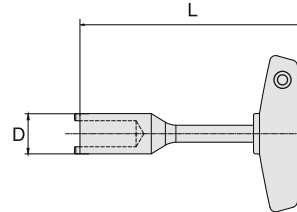
| G   | ØD1 (mm) | ØD2 (mm) | ØD3 (mm) | L (mm) | L1 (mm) | Ø   | Bezeichnung<br>Designation | Ident No. |
|-----|----------|----------|----------|--------|---------|-----|----------------------------|-----------|
| M12 | 11.0     | 7.0      | 12.5     | 43.0   | 23.0    | 45° | BN 164B - BT 30            | 4600613   |
| M16 | 15.0     | 10.0     | 17.0     | 60.0   | 35.0    | 45° | BN 164B - BT 40            | 4600957   |
| M24 | 23.0     | 17.0     | 25.0     | 85.0   | 45.0    | 45° | BN 164B - BT 50            | 4601460   |
| M12 | 11.0     | 7.0      | 12.5     | 43.0   | 23.0    | 60° | BN 164B - BT 30-60         | 5084973   |
| M16 | 15.0     | 10.0     | 17.0     | 60.0   | 35.0    | 60° | BN 164B - BT 40-60         | 4600958   |
| M24 | 23.0     | 17.0     | 25.0     | 85.0   | 45.0    | 60° | BN 164B - BT 50-60         | 4601461   |
| M16 | 15.0     | 10.0     | 17.0     | 60.0   | 35.0    | 90° | BN 164B - BT 40-90         | 5084974   |
| M24 | 23.0     | 17.0     | 25.0     | 85.0   | 45.0    | 90° | BN 164B - BT 50-90         | 4602462   |

Kühlmittelrohr für HSK-Spannfutter. Zur Kühlmittelübergabe bei HSK-Werkzeugen inkl. Runddichtung DIN 3770 und Überwurfmutter  
 Coolant tube for HSK chuck  
 For coolant transfer in HSK tools incl. round gasket DIN 3770 and union nut



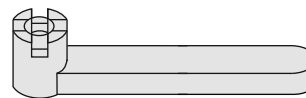
| HSK-Größen<br>HSK Size | Bezeichnung<br>Designation | Ident No. |
|------------------------|----------------------------|-----------|
| HSK 32                 | UE4/HSK32                  | 5064893   |
| HSK 40                 | UE4/HSK40                  | 5028425   |
| HSK 50                 | UE4/HSK50                  | 5028426   |
| HSK 63                 | UE4/HSK63                  | 5025376   |
| HSK 80                 | UE4/HSK80                  | 5028427   |
| HSK 100                | UE4/HSK100                 | 5028428   |

Montageschlüssel für Kühlmittelrohr  
 Installation wrench for coolant pipe



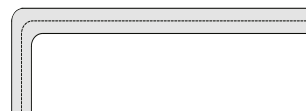
| HSK-Größen<br>HSK Size | D<br>(mm) | L<br>(mm) | Ident No. |
|------------------------|-----------|-----------|-----------|
| HSK 32                 | 8.5       | 115       | 6738740   |
| HSK 40                 | 10.5      | 115       | 6738741   |
| HSK 50                 | 14.5      | 115       | 6738422   |
| HSK 63                 | 16.5      | 136       | 6738421   |
| HSK 80                 | 18.5      | 136       | 6738095   |
| HSK 100                | 22.0      | 136       | 6738303   |

Spannschlüssel DIN 6368  
 Spanner to DIN 6368 (Shell mill holder)



| d (mm)<br>(für Größe)<br>(for Size) | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|----------------------------|-----------|
| 16                                  | DIN6368-16                 | 5056946   |
| 22                                  | DIN6368-22                 | 6942963   |
| 27                                  | DIN6368-27                 | 6942916   |
| 32                                  | DIN6368-32                 | 6942917   |
| 40                                  | DIN6368-40                 | 6950689   |

Spannschlüssel  
 Wrench (Shell mill holder)



| d (mm)<br>( für Größen / for Size ) | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|----------------------------|-----------|
| 16                                  | SW6                        | 6737650   |
| 22                                  | SW8                        | 6737651   |
| 27                                  | SW10                       | 6737652   |
| 32                                  | SW14                       | 6737654   |
| 40                                  | SW17                       | 6737655   |

### Vorteile des Montageblocks

- Sicheres klemmen
- Ermöglicht das Klemmen von verschiedenen Maschinenschnittstellen
- Reibschlussverfahren
- Einfache und schnelle Werkzeugmontage

### Advantages

- Secured tool clamping
- Supports clamping of different taper interfaces
- Friction clamping method
- Easy and quick better tool assembly



Spannfutter kann mit einem Handgriff gespannt werden, keine weiteren Werkzeuge sind nötig

Tool holder can be locked in the fixture with just a hand twist and no additional tools required

Mit 3 Schrauben sicher am Tisch befestigt

3 bolts are mounted securely to the table

| Bezeichnung<br>Designation | Ident No. |
|----------------------------|-----------|
| TAD-D63                    | 5192227   |

Tool holder can be locked in the fixture with just a hand twist and no additional tools required.  
3 bolts are securely mounted onto the table.

This assembly device is suitable for all tapers like,

- HSK-F-63 tool holders
- HSK-A-63 tool holders
- BT40 tool holders
- SK40 tool holders
- CAT40 tool holders

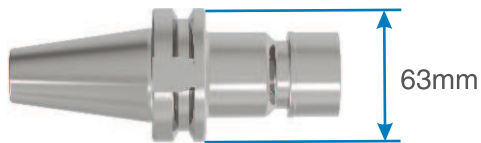
And this device is suitable for all the above tapers with dia. 63mm

Spannfutter kann mit einem Handgriff gespannt werden, keine weiteren Werkzeuge sind nötig.  
Mit 3 Schrauben sicher am Tisch befestigt.

Der Montageblock ist für diverse Schnittstellen geeignet,

- HSK-F-63 Spannfutter
- HSK-A-63 Spannfutter
- BT40 Spannfutter
- SK40 Spannfutter
- CAT40 Spannfutter

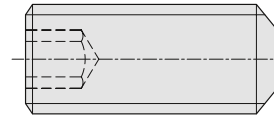
Und alle Schnittstellen mit einem Bunddurchmesser von 63mm



|  |         |
|--|---------|
| für Weldon und Whistle Notch<br>for Weldon & whistle notch holder  | E2      |
| für Kombi und Aufsteckfräserdorne<br>for Combi & shell mill holder | E3 - E4 |
| für Morse-Kegel mit Anzugsgewinde<br>for Morse taper with thread   | E5 - E6 |
| für Zwischenhülsen<br>for Reduction sleeves                        | E7      |



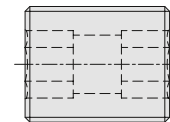
Spannschraube für Weldon und Whistle Notch Spannfutter DIN 1835 B  
 Locking screw for Weldon & Whistle Notch to DIN 1835 B



| d (mm)<br>(für Größe)<br>(for Size) | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|----------------------------|-----------|
| 16*                                 | DIN1835-B-M14x14           | 5056294   |
| 20*                                 | DIN1835-B-M16x12           | 5056295   |
| 25* & 32*                           | M16x1x10.5                 | 5056296   |
| 25* & 32*                           | M16x1x8.5                  | 5056297   |
| 32*                                 | DIN1835-B-M20x2x16         | 5056298   |
| 6                                   | DIN1835-B-M6x10            | 6919658   |
| 8                                   | DIN1835-B-M8x10            | 6919659   |
| 10                                  | DIN1835-B-M10x12           | 6919660   |
| 12 & 14                             | DIN1835-B-M12x16           | 6919661   |
| 16 & 18                             | DIN1835-B-M14x16           | 6919662   |
| 20                                  | DIN1835-B-M16x16           | 6924584   |
| 25                                  | DIN1835-B-M18x2x20         | 6919664   |
| 32 & 40                             | DIN1835-B-M20x2x20         | 6919665   |

\* For short GPL's  
 \* Für kurze Vorbaulänge

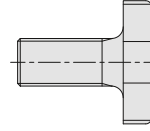
Anschlagschraube durchbohrt für Whistle Notch Aufnahmen  
 Adjusting screw with coolant hole for Whistle Notch holder



| d (mm)<br>(für Größe)<br>(for Size) | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|----------------------------|-----------|
| 6                                   | M5x15                      | 5056887   |
| 8                                   | M6x15                      | 5056888   |
| 10                                  | M8x15                      | 5056889   |
| 12 & 14                             | M10x15                     | 5056891   |
| 16 & 18                             | M12x15                     | 5056893   |
| 20                                  | M16x15                     | 5056894   |
| 25, 32 & 40                         | M20x15                     | 5056895   |

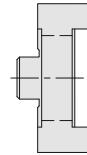
Ersatzteile für Kombi und Aufsteckfräserdorn  
Spare parts for Combi & Shell mill holder

Fräseranzugsschraube DIN 6367  
Clamping screw to DIN 6367



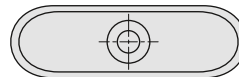
| d (mm)<br>(für Größe)<br>(for Size) | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|----------------------------|-----------|
| 16                                  | DIN6367-M8                 | 6934073   |
| 22                                  | DIN6367-M10                | 6940383   |
| 27                                  | DIN6367-M12                | 6941541   |
| 32                                  | DIN6367-M16                | 6942757   |
| 40                                  | DIN6367-M20                | 6943111   |
| 50                                  | DIN6367-M24                | 5111255   |

Mitnehmerring DIN 6366  
Drive ring to DIN 6366



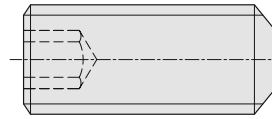
| d (mm)<br>(für Größe)<br>(for Size) | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|----------------------------|-----------|
| 16                                  | DIN6366-C16                | 5056898   |
| 22                                  | DIN6366-C22                | 5056900   |
| 27                                  | DIN6366-C27                | 5056901   |
| 32                                  | DIN6366-C32                | 5056903   |
| 40                                  | DIN6366-C40                | 5056904   |

Passfeder DIN 6885  
Parallel key to DIN 6885



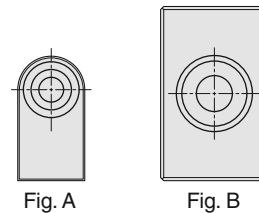
| d (mm)<br>(für Größe)<br>(for Size) | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|----------------------------|-----------|
| 16                                  | DIN6885-C4x4x20            | 5056905   |
| 22                                  | DIN6885-C6x6x25            | 5056909   |
| 27                                  | DIN6885-C7x7x25            | 5056610   |
| 32                                  | DIN6885-C8x7x28            | 5056911   |
| 40                                  | DIN6885-C10x8x32           | 5056912   |

**Gewindestift DIN 913**  
Threaded stud to DIN 913



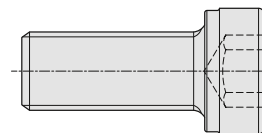
| d (mm)<br>(für Größe)<br>(for Size) | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|----------------------------|-----------|
| 16                                  | DIN913-M3x3                | 6914425   |
| 22, 27, 32                          | DIN913-M3x5                | 6951794   |
| 40                                  | DIN913-M3x7                | 5056913   |

**Paßfeder**  
Drive keys



| d (mm)<br>(für Größe)<br>(for Size) | Bezeichnung<br>Designation |        | Ident No. |
|-------------------------------------|----------------------------|--------|-----------|
| 16                                  | Dia16-8x8x14               | Fig. A | 5057289   |
| 22                                  | Dia22-10x10x17             | Fig. A | 5057290   |
| 27                                  | Dia27-12x14x20             | Fig. A | 5057291   |
| 32                                  | Dia32-14x14x22             | Fig. A | 5057293   |
| 40                                  | Dia40-15.9x16x21           | Fig. B | 5057294   |
| 60                                  | Dia60-25.4x25x31           | Fig. B | 5057295   |

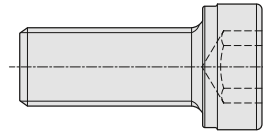
**Innensechskantschraube DIN 912**  
Socket head screw to DIN 912



| d (mm)<br>(für Größe)<br>(for Size) | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|----------------------------|-----------|
| 16                                  | DIN912-M3x8                | 6914489   |
| 22                                  | DIN912-M4x8                | 6918335   |
| 27                                  | DIN912-M4x14               | 6941122   |
| 32                                  | DIN912-M5x13               | 5056916   |
| 40                                  | DIN912-M6x16               | 6900224   |
| 60                                  | DIN912-M12x25              | 6914503   |

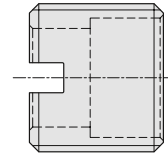
Ersatzteile für Morse-Kegel mit Anzugsgewinde  
Spare Parts for Morse taper with thread

Innensechskantschraube  
Socket Head Screw



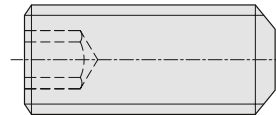
| Kegelgröße<br>Taper Size<br>(SK/BT/ISO) | MK | Bezeichnung<br>Designation | Ident No. |
|---|----|----------------------------|-----------|
| 40 & 50                                 | 1  | M6x21                      | 5056917   |
|   | 2  | M10x30                     | 5089591   |
|   | 3  | M12x40                     | 6918327   |
|   | 4  | M16x40                     | 6924372   |
|   | 5  | M20x60                     | 5056918   |

Rückschlagschraube  
Stopper Screw



| Kegelgröße<br>Taper Size<br>(SK/BT/ISO) | MK | Bezeichnung<br>Designation | Ident No. |
|---|----|----------------------------|-----------|
| 40 & 50                                 | 1  | M16x10                     | 5057297   |
|   | 2  | M16x8                      | 5057299   |
|   | 3  | M20x1.5x10                 | 5057300   |
|   | 4  | M26x1.5x10                 | 5057301   |
|   | 5  | M36x2.5x15                 | 5057305   |

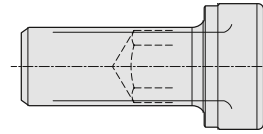
Gewindestift DIN 913  
Threaded stud DIN 913



| Kegelgröße<br>Taper Size<br>(SK/BT/ISO) | MK | Bezeichnung<br>Designation | Ident No. |
|---|----|----------------------------|-----------|
| 40 & 50                                 | 1  | DIN913-M5x6                | 6900216   |
|   | 2  | DIN913-M5x6                | 6900216   |
|   | 3  | DIN913-M5x6                | 6900216   |
|   | 4  | DIN913-M5x6                | 6900216   |
|   | 5  | DIN913-M5x6                | 6900216   |

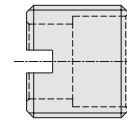
Ersatzteile für Morse-Kegel mit Anzugsgewinde  
Spare Parts for Morse taper with thread

Innensechskantschraube  
Socket Head Screw



| Kegelgröße<br>Taper Size<br>(HSK) | MK | Bezeichnung<br>Designation | Ident No. |
|-----------------------------------|----|----------------------------|-----------|
| A63 & A100                        | 1  | M06x20                     | 6914495   |
|                                   | 2  | M10x30                     | 6933092   |
|                                   | 3  | M12x30                     | 6922632   |
|                                   | 4  | M16x45                     | 6933120   |
|                                   | 5  | DIN912-IC-M20x55           | 5089579   |

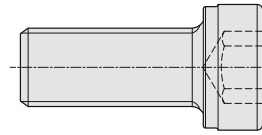
Rückschlagschraube  
Stopper Screw



| Kegelgröße<br>Taper Size<br>(HSK) | MK | Bezeichnung<br>Designation | Ident No. |
|-----------------------------------|----|----------------------------|-----------|
| A63 & A100                        | 1  | M10x1.0x6-LH               | 5059807   |
|                                   | 2  | M15x1.5x6-LH               | 5059811   |
|                                   | 3  | M20x1.5x6-LH               | 5059812   |
|                                   | 4  | M24x1.5x8.5-LH             | 5059813   |
|                                   | 5  | M26x2.0x11-LH              | 5059814   |

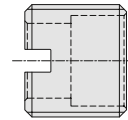
Ersatzteile für Zwischenhülsen  
Spare Parts for Reduction Sleeves

Innensechskantschraube  
Socket Head Screw



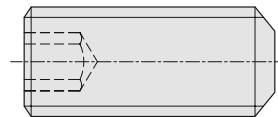
| Kegelgröße<br>Taper Size<br>(SK/BT) | Innenkegelgröße<br>Inside Taper | Bezeichnung<br>Designation | Ident No. |
|-------------------------------------|---------------------------------|----------------------------|-----------|
| SK40/BT40                           | SK 30                           | DIN912-M12x40              | 5089589   |
| SK40/BT40                           | SK 40                           | DIN912-M16x60              | 6929756   |
| SK50/BT50                           | SK 40                           | DIN912-M16x50              | 6912389   |
| SK50/BT50                           | SK 50                           | DIN912-M24x85              | 5056920   |

Rückschlagschraube  
Stopper Screw



| Kegelgröße<br>Taper Size<br>(SK/BT/ISO) | Innenkegelgröße<br>Inside Taper | Bezeichnung<br>Designation | Ident No. |
|---|---------------------------------|----------------------------|-----------|
| 40                                      | 30                              | M18x1.5x10                 | 5057303   |
|   | 40                              | M26x1.5x13                 | 5057304   |
| 50                                      | 40                              | M26x1.5x13                 | 5057304   |
|   | 50                              | M36x2.0x15                 | 5057302   |

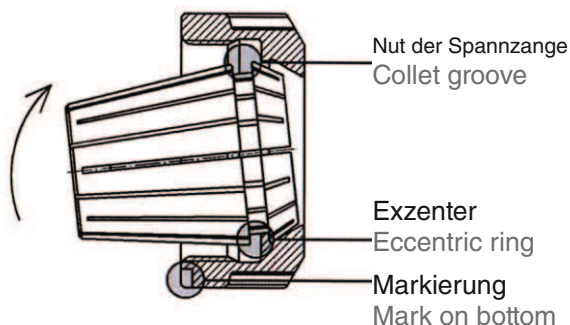
Gewindestift DIN 913  
Threaded Stud DIN 913



| Bezeichnung<br>Designation (SK/BT/ISO) | Ident No. |
|--|-----------|
| DIN913-M5x6                            | 6900216   |

|   |           |
|---|-----------|
| Spannmuttern - Betriebsanleitung<br>Clamping Nut - Instructions   | F2        |
| DS/ER Dichtscheibe - Betriebsanleitung<br>DS/ER Sealing disc - Instructions                             | F3        |
| Hochleistungsfräserspannfutter - Zusätze und Vorteile<br>Hi-Power Milling Chuck - Features & Advantages | F4 - F5   |
| Super collet Spannzangenfutter - Vorteile<br>Super collet chuck - Advantages                            | F6 - F7   |
| Micro-Spannzangenhalter - Zusätze und Vorteile<br>Micro Collet Chuck - Features & Advantages            | F8        |
| Werkzeugschaft DIN 69871 / ISO7388-1 (SK)<br>Tool Shank to DIN 69871 / ISO7388-1 (SK)                   | F9        |
| Werkzeugschaft JIS B 6339 (MAS 403 BT)<br>Tool Shank to JIS B 6339 (MAS 403 BT)                         | F9        |
| Kühlmittelezufuhr – Umbauanleitung<br>Coolant Supply - Instruction for change                           | F10       |
| Übersicht Werkzeugschäfte DIN 69893 (HSK)<br>Overview tool shanks DIN 69893 (HSK)                       | F11 - F12 |
| Wuchtgüte<br>Balancing Standard   | F13       |
| Wichtige Bestellhinweise<br>Important Hints   | F14       |





#### Montageanleitung

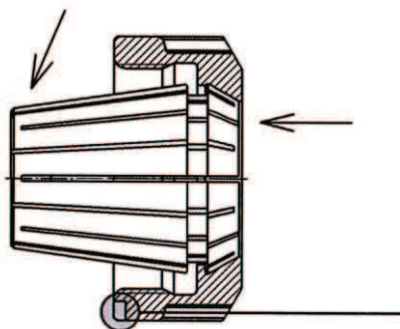
Nut der Spannzange an der markierten Stelle in den Exzentering der Spannmutter einhängen. Spannzange in entgegengesetzte Richtung kippen, bis diese deutlich hörbar einrastet. Werkzeug einsetzen.

Spannmutter mit der eingerasteten Spannzange auf das Gewinde des Halters schrauben. Wir empfehlen, die Spannmutter mit einem Drehmomentschlüssel anzuziehen.

#### Assembling Collet:

Insert groove of the collet into eccentric ring of the clamping nut at the mark on the bottom of the nut. Push collet in the direction of the arrow until it clicks in.

Insert tool. Screw nut with collet onto tool holder.

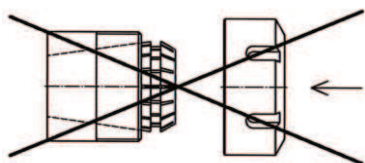


#### Demontage

Nach dem Abschrauben vom Halter auf die Frontseite der Spannzange drücken und gleichzeitig die Spannzange durch seitlichen Druck auf den hinteren Teil, gegenüber der Markierung, aus der Einrastung der Mutter heraus drücken.

#### Removing Collet:

After the nut is unscrewed from the toolholder, press on the face of the collet while simultaneously pushing sideways on the back of the collet opposite the mark until it disengages from the clamping nut.

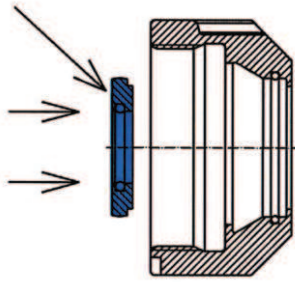


**! Eine falsche Handhabung beeinträchtigt den Rundlauf der Spannzange und kann die Spannmutter beschädigen.**

**Nur Spannmuttern mit richtig eingerasteter Spannzange in den Spannzangenhalter einsetzen!**

**! Improper assembly can permanently damage the concentricity of the collet and may result in the destruction of the clamping nut.**

**Only mount nuts with correctly inserted collets!  
Never place the collet into the holder without first assembling into the nut.**

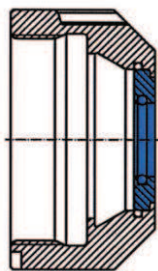


**Einbau**

Beim Einsetzen der Dichtscheibe in die Spannmutter muss die Beschriftung der Dichtscheibe von hinten her lesbar sein.

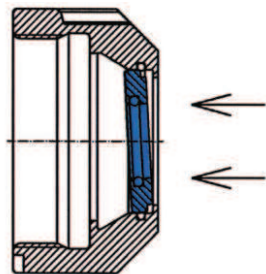
**Assembling**

Insert the small diameter of the disk into the center of the coolant nut and apply even pressure until the disk is properly seated into the nut.



Dichtscheibe in die Spannmutter einlegen und nach vorne drücken, bis ein deutliches „Klicken“ zu hören ist. Jetzt ist die Dichtscheibe richtig in die Spannmutter eingesetzt. Die richtig montierte Dichtscheibe ist vorne mit der Spannmutter bündig.

The disk must be flush with the outside of the nut and the marking on the disk must be seen inside the nut.

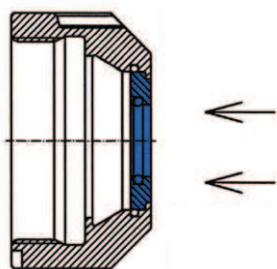


**Ausbau**

Um die Dichtscheibe herauszunehmen, von der Außenseite auf die Dichtscheibe drücken, bis sie herauspringt.

**Removing**

To remove the disk, simply press on the outside of the disk evenly until it snaps out.



! Unbedingt Werkzeug von vorne einführen, sonst wird der O-Ring in der Dichtscheibe beschädigt.

! Insert tool from the front. O-ring might be destroyed if cutting tool is inserted from the back.

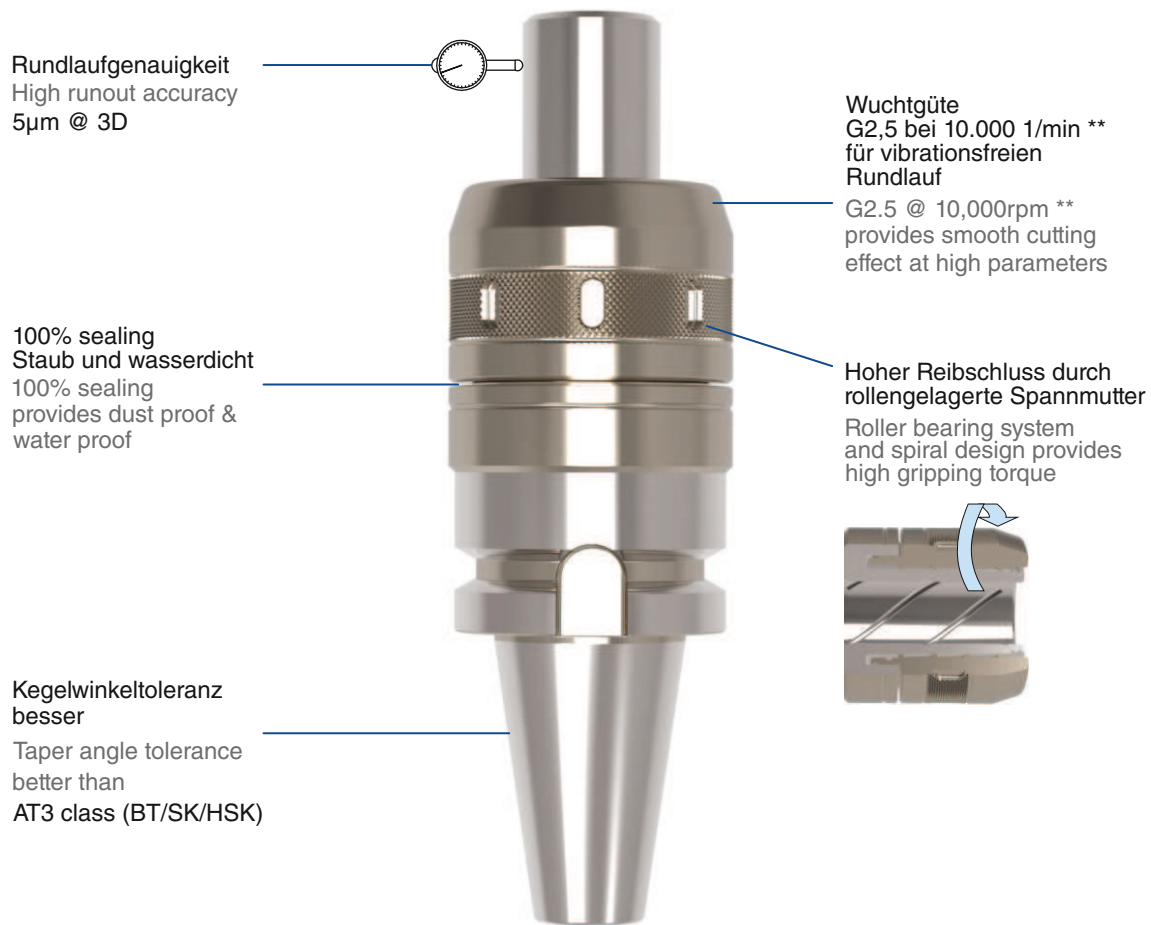


! Beim Einführen vom Werkzeug darauf achten, dass die Dichtscheibe nicht zurück geschoben wird.

! Take care when inserting the tool that you do not push back the sealing disc.

## Hochleistungsfräserspannfutter - Eigenschaften und Vorteile

### Hi-Power Milling Chuck - Features & Advantages



#### Zusätze und Vorteile

- Sehr hohe Spannkraft führt zu verbesserter Produktivität und Standzeit
- Geringe Reibung durch Konstruktion mit Rollenlager
- Hohe Rundlaufgenauigkeit von 5µm bei 3D
- Ausgezeichnete Oberflächenqualität da weniger Vibrationen
- Mit Antikorrosionsbeschichtung geschützt
- Ein neu entworfener Dichtmechanismus der Mutter verhindert Verunreinigung durch Staub und Kühlfüssigkeit, dadurch wird die Standzeit des Werkzeuges erhöht

#### Features and Advantages

- Very high gripping torque leads to increased productivity and tool life
- Roller bearing system & spiral design provides high gripping torque
- High run-out accuracy 5 microns @ 3D. Less wear on cutting edge leads to significant increase in tool life
- Excellent finish on machined surface due to less vibration
- Protected with anti-corrosive coating
- Perfect seal mechanism of clamping nut, prevents dust and coolant entry. Thereby, extending life of the holder

Note: \*\* Only the holders are balanced as mentioned in the catalogue without assembly

#### Hi-Power Milling Chuck - Anzugsmomente und Spannkräfte / Torque chart

| (für Größe)<br>(for Size) | Anzugsmoment (Nm)<br>Tightening Torque (Nm) | Spannkraft (Nm)<br>Clamping Torque (Nm) | Schaft Ø (mm)<br>Shank Ø (mm) |
|---------------------------|---|---|-------------------------------|
| WHPMC 20                  | 30  | 450 - 600                               | 20h6                          |
| WHPMC 25                  | 70  | 601 - 850                               | 25h6                          |
| WHPMC 32                  | 80  | 851 - 1050                              | 32h6                          |

#### Slim Hi-Power Milling Chuck - Anzugsmomente und Spannkräfte / Torque chart

| (für Größe)<br>(for Size) | Anzugsmoment (Nm)<br>Tightening Torque (Nm) | Spannkraft (Nm)<br>Clamping Torque (Nm) | Schaft Ø (mm)<br>Shank Ø (mm) |
|---------------------------|---|---|-------------------------------|
| WHPMC S06                 | 30  | 35 - 55                                 | 6h6                           |
| WHPMC S08                 | 30  | 56 - 70                                 | 8h6                           |
| WHPMC S10                 | 30  | 71 - 95                                 | 10h6                          |
| WHPMC S12                 | 30  | 96 - 180                                | 12h6                          |
| WHPMC S16                 | 30  | 181 - 360                               | 16h6                          |
| WHPMC S20                 | 30  | 361 - 420                               | 20h6                          |

\* Nur zur direkten Montage.

\* For direct mounting only. These values are tested and valid with 100% locking (full contact of internal diameter of holder and the tool shank i.e., L1 dimension)

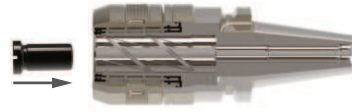
# Hochleistungsfräserspannfutter - Betriebsanleitung

## Hi-Power Milling Chuck - Operating Instructions

### Montage / Assembly

Stellen Sie sicher, dass bei der direkten Montage des Werkzeugs die Stellschraube im Spannfutter eingebaut ist, um den korrekten Sitz des Schneidwerkzeugs zu gewährleisten.

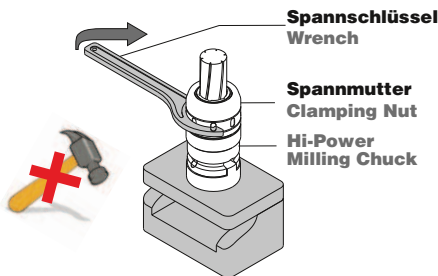
Please ensure that the adjusting screw is located before direct mounting of tool, as this ensures the correct seating of the cutting tool. Tool should rest on the adjusting screw.



Zum Montieren der Spannzange sollte die Stellschraube aus dem Spannfutter entfernt werden.

Please remove the adjusting screw before mounting the collet.

### Einspannen-Ausspannen / Clamping-UnClamping



Die Spannmutter wird mit dem mitgelieferten Schlüssel gemäß Drehmomenttabelle angezogen. Verwenden Sie keinen Hammer, kein Rohr oder Ähnliches, um das Drehmoment zu erhöhen. Eine Erhöhung des Drehmomentes ergibt keine Erhöhung der Spannkraft, sondern beschädigt das Spannfutter. Das Werkzeug muss vertikal in den Halter montiert werden (siehe Abb.).

Kombinieren Sie nicht verschiedene Verlängerungen. Bitte nicht auf der Maschine ein-/oder ausspannen.

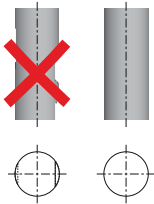
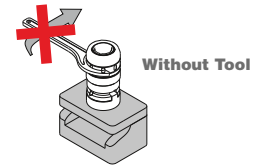
Please use wrench provided to clamp the cutting tool into the chuck to the specified clamping torque. Do not use a hammer, pipe, or any other device to exert added torque on the wrench. Excessive torque will damage the clamping chuck. The tool should be mounted in the holder in the vertical position as shown in fig.

Do not combine several extensions.

Do not clamp or unclamp on the machine.

Tightening of tool with torque wrench only as per specified torque.

Das Hi-Power Fräserspannfutter sollte nie ohne Schneidwerkzeug gespannt werden. Die einwirkenden Spannkraften verursachen eine permanente Verformung der Innenbohrung. The Hi-power milling chuck should never be tightened without a cutting tool inside the bore. High gripping forces will cause permanent ID deformation.

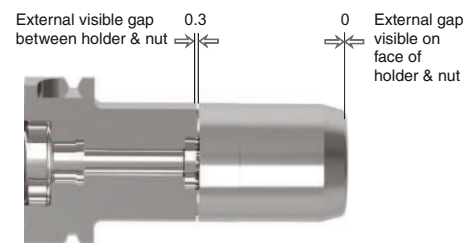


Die beste Leistung des Hi-Power Fräserspannfutters wird erreicht, wenn das Schneidwerkzeug rund ist, ohne Weldon- oder Whistle Notch-Flächen. Schneidwerkzeuge mit Weldon- oder Whistle Notch-Flächen können gespannt werden, haben jedoch einen negativen Einfluß auf Rundlauf und Wuchtgüte.

Best performance from the Hi-power milling chuck is attained when the cutting tool shank is round, without flats and within h6 tolerance. Cutting tools with flat or irregular shapes should not be used as it damages the product.

Maximale Spannkraft im verriegelten Zustand des schlanken HPMC: Die maximale Spannkraft des schlanken HPMC wird bei einem Spaltmaß von 0,3 mm (vgl. Abbildung oben) erreicht. Die Verriegelung wird unter Verwendung eines passenden Hakenschlüssels durch Anzug im Uhrzeigersinn (bei Betrachtung von der erzeugeite) erreicht.

Maximum clamping force in the locked state of the Slim HPMC: The maximum clamping force of the slim HPMC is achieved with a clearance of 0.3 mm (refer the fig). Locking is achieved using a suitable torque wrench by clockwise tightening.



### Wartung / Maintenance :

Wenn das Hi-Power Fräserspannfutter über einen längeren Zeitraum nicht benutzt wird, lösen Sie die Mutter, säubern und trocknen Sie diese und verwenden Sie ein Rostschutzmittel; wasserlösliche Kühlmittel, Rost, Ölfilme, Staub usw., die auf dem Spannfutter bleiben, können verkleben und zu Betriebsausfällen führen, daher sollten diese ebenfalls gesäubert, getrocknet und mit einem Rostschutzmittel behandelt werden.

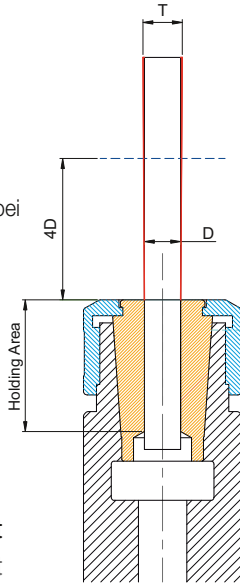
If the Hi-power milling chucks are not used over a prolonged period of time, loosen the nut, wipe clean, dry and apply rust inhibitor. Water-soluble coolant, rust, oil film, dust, etc. remaining on the Hi-power milling chucks may stick and result in operation failure, so please wipe them clean and dry, and apply rust inhibitor.

Super collet Spannzangenfutter - Vorteile  
 Super collet chuck - Advantages

**Hoch** Spannkraft  
 Rundlauf,  
 Steifigkeit und  
 Gleichgewicht

Rundlaufgenauigkeit 5µm @ 4D  
 Doppelt so hohe Spannkraft wie bei  
 ER-Spannzangenfutter  
 Hohe Rundlaufgenauigkeit durch  
 kompaktes Design

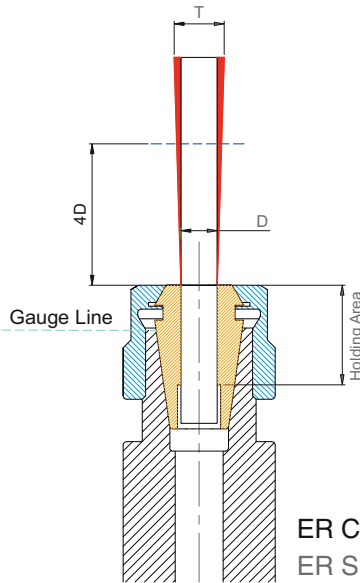
Super Collet  
 Super Collet



**High** Clamping force,  
 Concentricity,  
 Rigidity and balance

Run-out within 5µm @ 4D  
 Gripping force double than ER  
 Integrated run-out accuracy  
 with compact design

ER Collet  
 ER Spannzangen



**Super Collet**

- Schlankes Design eliminiert Störungen
- Kräfte laufen axial zur Mittellinie des Werkzeughalters um den Halt zu verbessern
- Bessere Genauigkeit durch mehr Umschließung

**Super Collet**

- Slim design allows for better reach
- Force is perpendicular to center line of tool holder for better grip
- More gripping area creates better accuracy

**ER Spannzangen**

- Größere Spannzangen Ø = Größere Muttern Ø
- Spannkraften laufen winklig zur Mittellinie des Werkzeughalters
- Geringere Genauigkeit durch kleinere Umschließung

**ER Collet**

- Wide collets = wide nut design
- Force is angular to center line of tool holder
- Less gripping area results in lesser accuracy

Anzugsmoment Diagramm  
 Tightening Torque Chart

| Spannbereich<br>Clamping<br>Range Ø | Auszugsmoment (Nm)<br>Tightening Torque (Nm) |
|-------------------------------------|--|
| SCF06                               | 20   |
| SCF10                               | 25   |
| SCF13                               | 30   |
| SCF16                               | 40   |
| SCF20                               | 50   |
| SCF25                               | 60   |

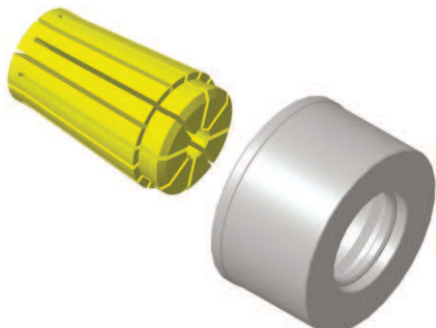
Optionale Spannmutter mit Dichtscheibe verhindert, dass Verschmutzungen und Späne in die Spannzange gelangen

Optional internal coolant for coolant through applications. Prevents chips, dirt & swarf from entering the slots of the collets

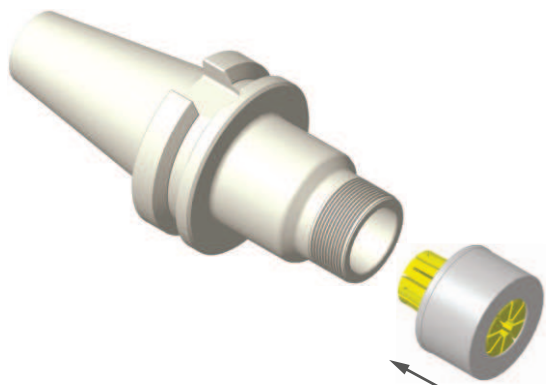




- 1.** Setzen sie die Spannzange wie dargestellt in die Mutter ein  
 Assemble the super collet into the nut as shown



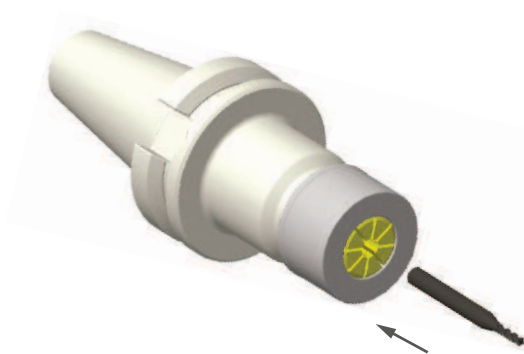
- 2.** Setzen sie nun die in die Mutter montierte Spannzange in das Spannfutter  
 Insert the assembled nut & super collet into the chuck



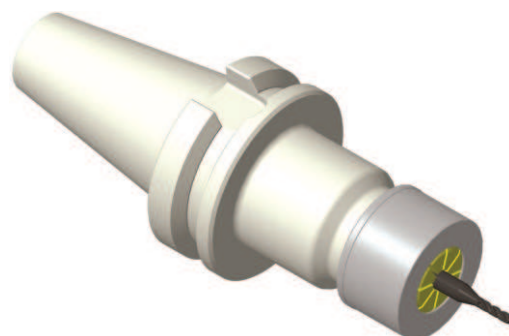
- 4.** Ziehen Sie die Mutter mit dem Spannschlüssel entsprechend dem angegebenen Drehmoment an  
 Use the friction wrench to tighten the nut accordingly as per the mentioned torque value



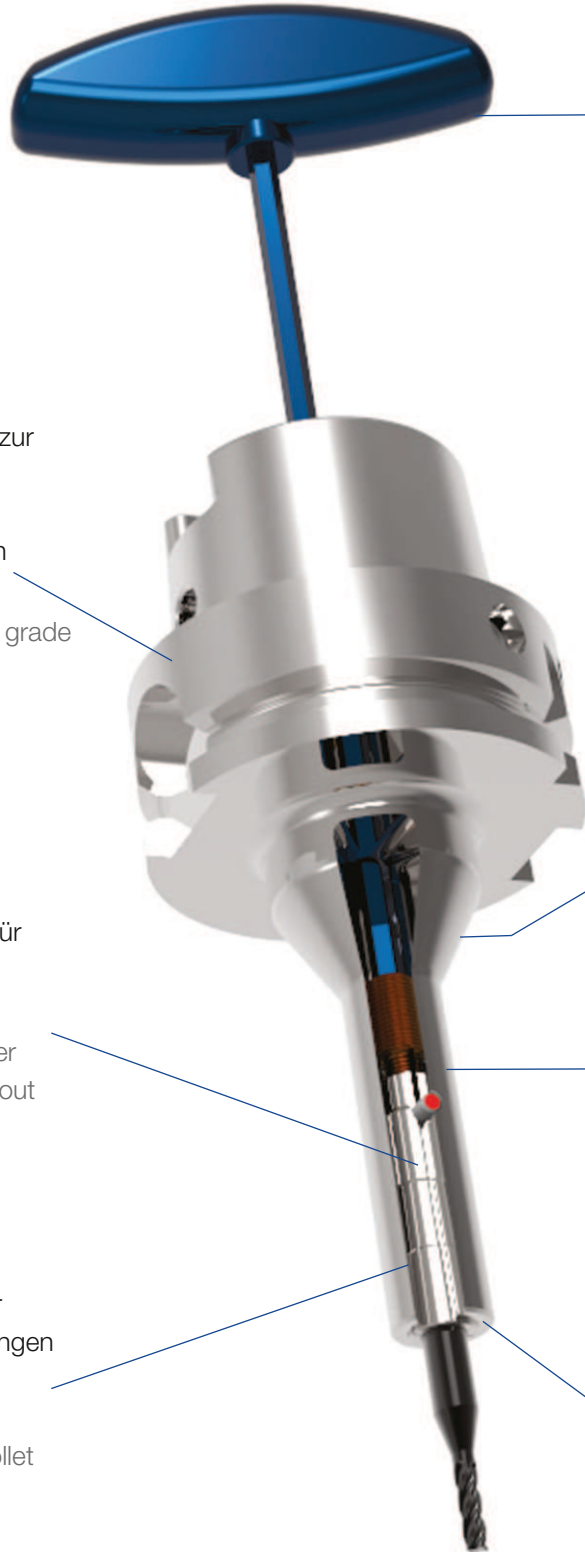
- 3.** Setzen Sie das Werkzeug in die Spannzange ein und ziehen Sie es mit dem Spannschlüssel fest  
 Insert the tool into the super collet and lock it with the specified friction wrench



- 5.** Verwenden Sie den empfohlenen Drehmomentschlüssel mit Drehmomentschlüsselköpfen, um bessere Ergebnisse zu erzielen  
 Use our recommended torque wrench with torque wrench heads for better results



Micro-Spannzangenhalter - Eigenschaften und Vorteile  
 Micro collet holder - Features & Advantages



Spezienschlüssel zum Anziehen der Spannzange  
 Special wrench for appropriate collet tightening

Symmetrisches Design zur Erzielung einer hohen Auswuchtgüte  
 G2,5 bei 35.000 U / min  
 Symmetric design – to achieve high balancing grade G2.5 @ 35,000 rpm

Hohe Steifigkeit und große Stabilität  
 Strong rigidity and high stability

Präzisionsspannzange für längere Haltelängen mit 5µm Rundlauf bei 3D  
 Precision collet for higher holding length with run-out of 5µm @ 3D

Schlankes Design für tiefe Kavitäten und Bearbeitungen mit hoher Drehzahl (> 10.000 U / min)  
 Slim design for easy reach and high speed machining (>10,000 RPM)

Stabile Spannzange mit spezieller Aufnahme für längere Spannzangenlängen (15/30 mm)  
 Strong collet to holder fitment due to longer collet length (15/30mm)

Durch das nutfreie Design werden Vibrationen und Geräusche wirksam reduziert  
 The nut-less design effectively reduces vibration and noise

Schlankes Design für tiefe Kavitäten  
 Slim design for easy reach

Steilkegel mit Plananlage  
 Dual Face Contact

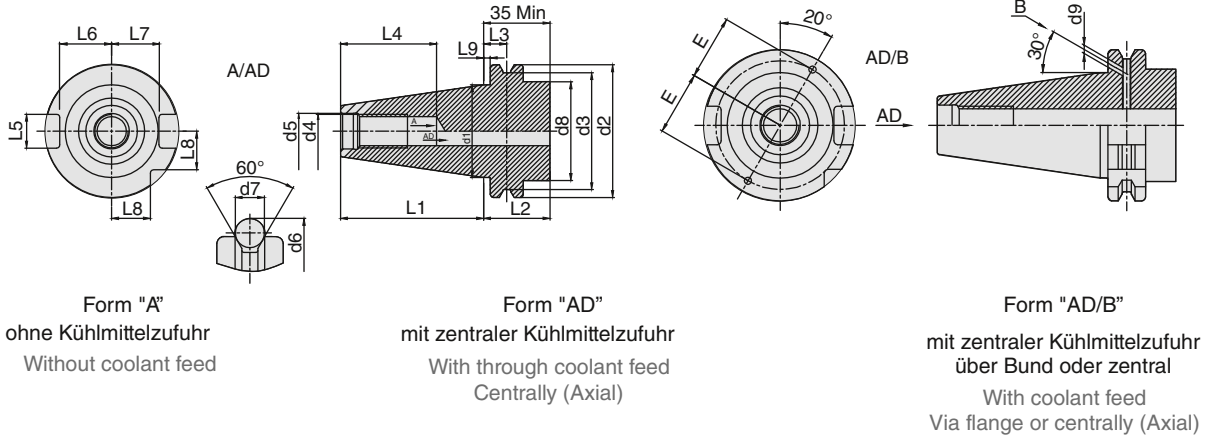
Hohe Rundlaufgenauigkeit  
 High run-out accuracy

Oberflächengüte  
 Surface finish

\* Micro collet extensions are available, please refer Page.D16 for more information

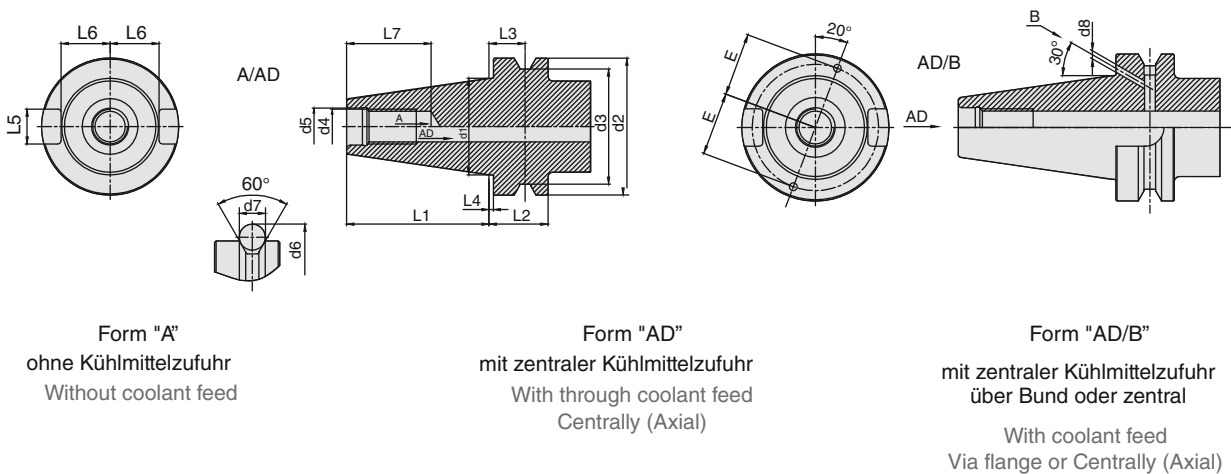


DIN 69871 / ISO7388-1(SK)



| Size | d1    | d2    | d3    | d4  | d5 | d6     | d7 | d8    | d9 | L1     | L2   | L3   | L4      | L5   | L6   | L7   | L8   | E  |
|------|-------|-------|-------|-----|----|--------|----|-------|----|--------|------|------|---------|------|------|------|------|----|
| 30   | 31,75 | 50,00 | 44,30 | M12 | 13 | 59,30  | 7  | 45max | -  | 47,80  | 19,1 | 11,1 | 30,0min | 16,1 | 19,0 | 16,4 | 15,0 | -  |
| 40   | 44,45 | 63,50 | 56,25 | M16 | 17 | 72,30  | 7  | 50max | 4  | 68,40  | 19,1 | 11,1 | 45,0min | 16,1 | 25,0 | 22,8 | 18,5 | 27 |
| 50   | 69,85 | 97,50 | 91,25 | M24 | 25 | 107,25 | 7  | 80max | 6  | 101,75 | 19,1 | 11,1 | 55,0min | 25,7 | 37,1 | 35,5 | 30,0 | 42 |

JIS B6339 (MAS 403 BT)



| Size | d1    | d2  | d3 | d4  | d5   | d6     | d7 | d8 | L1     | L2   | L3    | L4 | L5   | L6   | L7    | E  |
|------|-------|-----|----|-----|------|--------|----|----|--------|------|-------|----|------|------|-------|----|
| 30   | 31,75 | 46  | 38 | M12 | 12,5 | 56,27  | 8  | -  | 48,40  | 22,0 | 13,60 | 2  | 16,1 | 16,3 | 35min | -  |
| 40   | 44,45 | 63  | 53 | M16 | 17,0 | 75,68  | 10 | 4  | 65,40  | 27,0 | 16,60 | 2  | 16,1 | 22,5 | 42min | 27 |
| 50   | 69,85 | 100 | 85 | M24 | 25,0 | 119,00 | 15 | 6  | 101,80 | 38,0 | 23,20 | 3  | 25,7 | 35,3 | 55min | 42 |

Form "AD"  $\rightleftharpoons$  Form "B"

Typ 1 / Type 1

Form "A"

Form "AD"  
(Auslieferungszustand)  
(Delivery Condition)

Form "B"

Im Anlieferzustand sind die Aufnahmen für eine Kühlmittelzuführung nach Form AD (durch die Mitte, siehe Fig.1) ausgelegt. Zum Umstellen auf Form B die M5 Schraubenherausschrauben (siehe Fig.2) und mit Loctite sichern.

As delivered the adaptors are suitable for coolant supply according to form AD (centrally as shown in Fig.1). To switch to form B, unscrew the M5 screws to the top as shown in the Fig.2 and secure with Loctite.

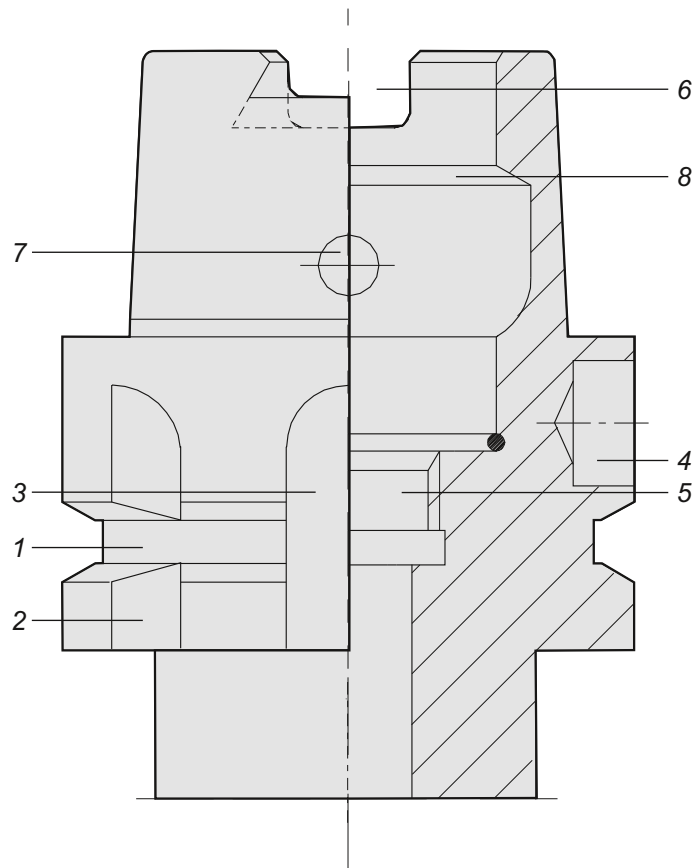
Typ 2 / Type 2

Form "AD"  
(Auslieferungszustand)  
(Delivery Condition)

Form "B"

Im Anlieferzustand sind die Aufnahmen für eine Kühlmittelzuführung nach Form AD (durch die Mitte, siehe Fig.1) ausgelegt. Zum Umstellen auf Form B die M5 Schraubenherausschrauben (siehe Fig.2) und mit Loctite sichern.

As delivered the adaptors are suitable for coolant supply according to form AD (centrally as shown in Fig.1). To switch to form B, unscrew the M5 screws to the top as shown in the Fig.2 and secure with Loctite.

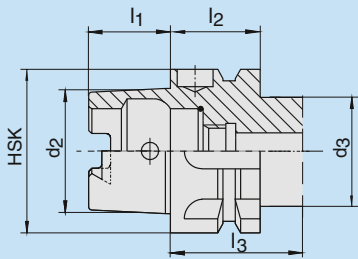


- 1 Greiferrille – umlaufende Nut
- 2 Deutsches Eck – sichelförmige Kerbe quer zur Greiferrille (dient zur Indexierung)
- 3 Mitnehmernut am Bund – zur Indexierung oder zur Aufnahme in einem Werkzeugmagazin oder Greifer. Bei HSK-B/D gleichzeitig zur formschlüssigen Drehmomentübertragung zur Spindel
- 4 Codierbohrung – zur Aufnahme eines Datenträgers (Codierchip) im Bund
- 5 Anschlussgewinde für Kühlmittelübergabeeinheit – zur Aufnahme des Kühlmittelrohrs
- 6 Mitnehmernut am Kegelschaft – formschlüssige Drehmomentübertragung zur Spindel
- 7 Radiale Zugriffsbohrung im Kegelschaft – zur Betätigung Manueller Spannsysteme
- 8 Spannschulter – Ringfläche, an der das Werkzeug eingezogen wird

- 1 Gripper groove – circular groove
- 2 Index notch – sickle-shaped notch across Gripper groove
- 3 Keyway on collar – index notch e.g. for tool magazines. Form closed torque transmission to spindle for HSK-B/D
- 4 Coding/identification – hole in collar for attachment of identification system (code chip)
- 5 Thread for coolant tube – for attachment of coolant tube
- 6 Keyway on taper shank – form closed torque transmission to spindle
- 7 Radial bore in taper shank – necessary for manual clamping systems
- 8 Clamping shoulder – circular chamfer for clamping

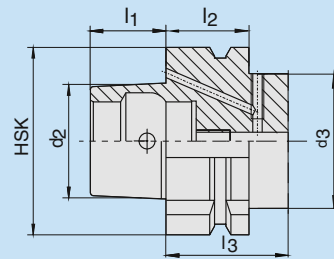
Übersicht Werkzeugschäfte HSK DIN 69893  
 Overview tool shanks HSK DIN 69893

Form "A"



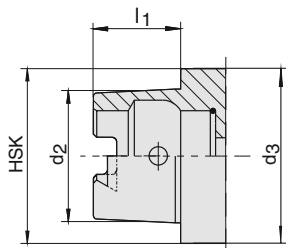
Der Hohlenschaftkegel für automatischen Werkzeugwechsel mit Greif- und Indexiernut. Manuelle Betätigung durch Zugriffsbohrung im Kegel möglich. Das Drehmoment wird kraft- und formschlüssig übertragen

Form "B"



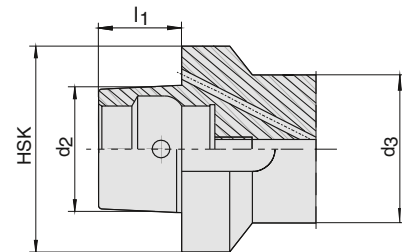
Hollow-shank taper for automatic tool changing with gripping and locating groove. Manual operation is possible through the access hole in the taper. Torque is transmitted both positively and non-positively.

Form "C"



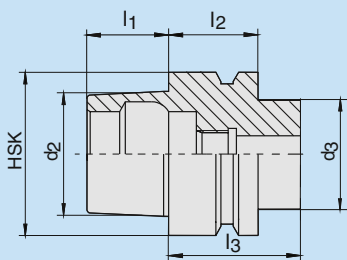
Der Hohlenschaftkegel für manuellen Werkzeugwechsel. Betätigung durch Zugriffbohrung im Kegel. Das Drehmoment wird kraft- und formschlüssig übertragen.

Form "D"



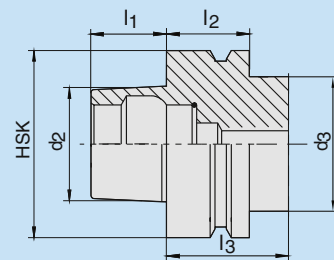
Hollow-shank taper for manual tool changing. Operation is possible through the access hole in the taper. Torque is transmitted both positively and non-positively.

Form "E"



Der Hohlenschaftkegel für automatischen Werkzeugwechsel (manuelle Betätigung durch Zugriffbohrung im Kegel nicht möglich). Das Drehmoment wird kraftschlüssig übertragen.

Form "F"



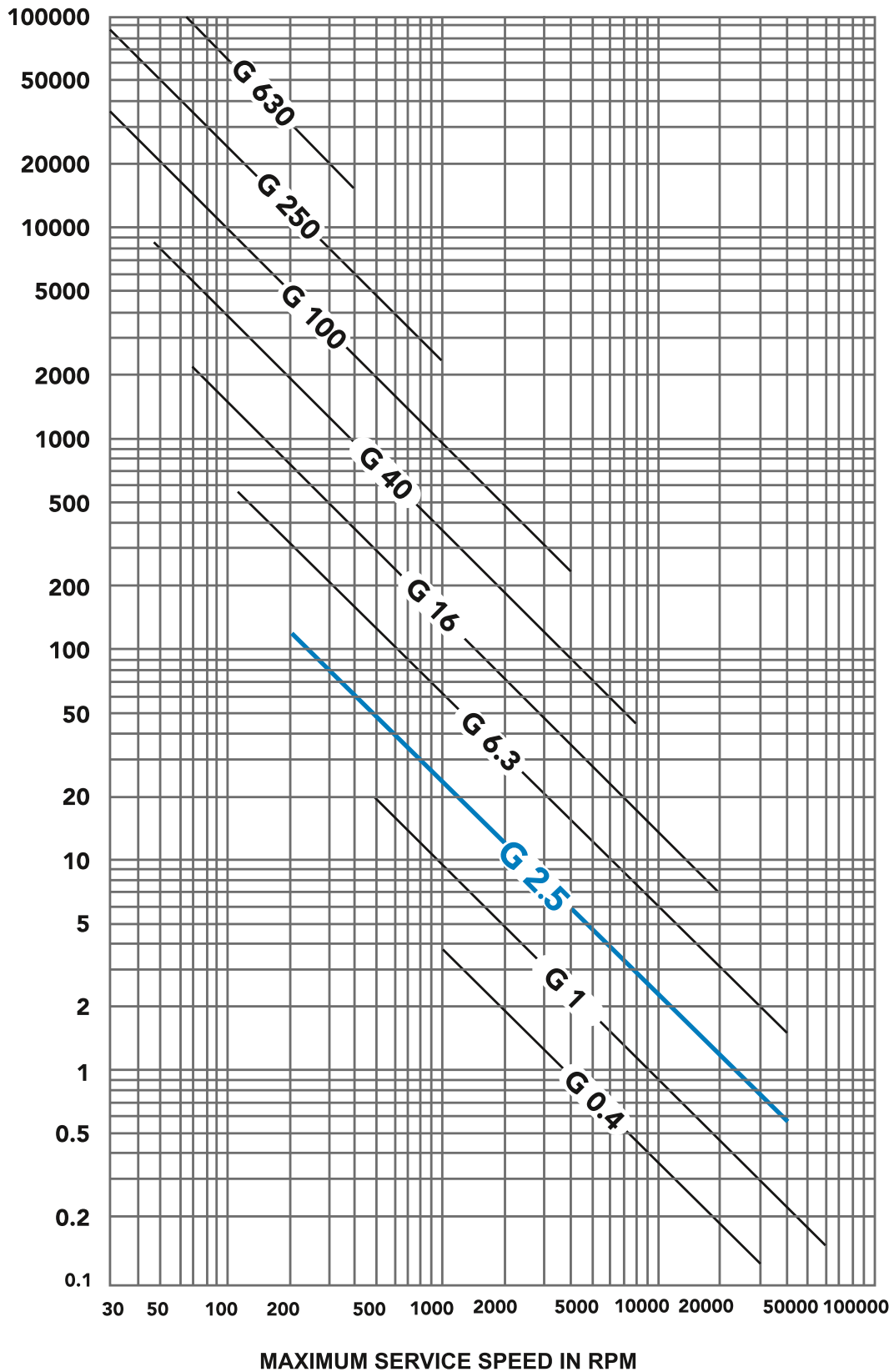
Hollow-shank taper for automatic tool changing (manual operation through access hole in taper not possible). Torque is transmitted non-positively.

| HSK-A+C | d <sub>2</sub> | d <sub>3</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | HSK-B+D | d <sub>2</sub> | d <sub>3</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> |
|---------|----------------|----------------|----------------|----------------|----------------|---------|----------------|----------------|----------------|----------------|----------------|
| 32      | 24             | 26             | 16             | 20             | 35             | 40      | 24             | 34             | 16             | 20             | 35             |
| 40      | 30             | 34             | 20             | 20             | 35             | 50      | 30             | 42             | 20             | 26             | 42             |
| 50      | 38             | 42             | 25             | 26             | 42             | 63      | 38             | 53             | 25             | 26             | 42             |
| 63      | 48             | 53             | 32             | 26             | 42             | 80      | 48             | 67             | 32             | 26             | 42             |
| 80      | 60             | 67             | 40             | 26             | 42             | 100     | 60             | 85             | 40             | 29             | 45             |
| 100     | 75             | 85             | 50             | 29             | 45             |         |                |                |                |                |                |

| HSK-E | d <sub>2</sub> | d <sub>3</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | HSK-F | d <sub>2</sub> | d <sub>3</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> |
|-------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|
| 25    | 19             | 20             | 13             | 10             | 20             | 50    | 30             | 42             | 20             | 26             | 42             |
| 32    | 24             | 26             | 16             | 20             | 35             | 63    | 38             | 53             | 25             | 26             | 42             |
| 40    | 30             | 34             | 20             | 20             | 35             | 80    | 48             | 67             | 32             | 26             | 42             |
| 50    | 38             | 42             | 25             | 26             | 42             |       |                |                |                |                |                |
| 63    | 48             | 53             | 32             | 26             | 42             |       |                |                |                |                |                |

Permissible Residual Unbalance,  $e_{per}$  in g-mm/kg of rotor weight

Maximum permissible residual unbalance,  $e_{per}$  (from ISO 1940/1)



### Programmaktualität

Im Rahmen der kontinuierlichen Aktualisierung unseres Produktprogrammes nehmen wir nicht nur neue und damit technisch bessere Produkte im Programm auf, sondern führen auch eine intensive Programmbereinigung durch. Es kann also im Einzelfall passieren, dass wir einen von Ihnen bestellten Artikel nicht mehr lagermäßig führen. Sie erhalten dann von uns in der Regel ein technologisch besseres Produkt, mindestens aber eine gleichwertige Alternative. In Zweifelsfällen wird sich unser Verkaufsteam mit Ihnen in Verbindung setzen, um eine für Sie optimale Ausführung zu bestimmen. Durch diese Vorgehensweise ist sichergestellt, dass Sie stets mit Produkten beliefert werden, die technisch auf dem neuesten Stand sind.

Eine Verpflichtung zur Lieferung von noch im Katalog oder in der Preisliste abgebildeten Produkten, die intern aber bereits programmbereinigt wurden, übernehmen wir deshalb nicht.

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### Sonderformen

Sollten Sie eines Ihrer Bearbeitungsprobleme nicht mit einem unserer lagergängigen Produkte lösen können, bieten wir Ihnen Sonderformen oder zeichnungsgebundene Werkzeuge auf Anfrage an.

Unsere Anwendungstechniker beraten Sie gern.

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### Special designs

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