



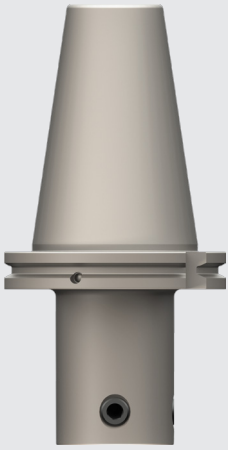
**SWISS**  **TOOLS**<sup>®</sup>

*S w i s s*  
**V A R I A**  
**2403**



**SCHAUBLIN**

**Grundmodule / Master shanks / Modules de base**



**DIN 69 871-AD/B**

12



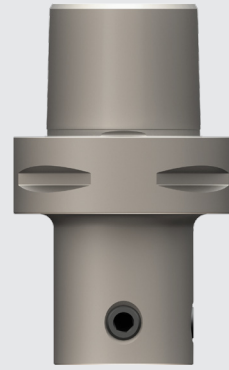
**MAS BT JIS B 6339**

13-14



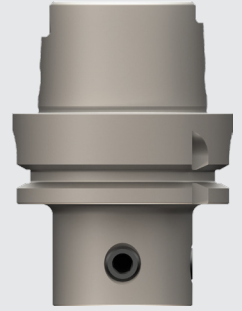
**DIN 2080**

14



**ISO 26623-1 PSC**

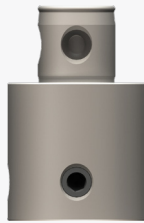
15



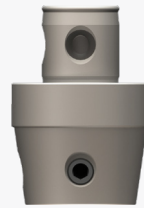
**DIN 69 893 HSK**

15

**Zwischenmodule / Intermediate modules / Modules intermédiaires**



16



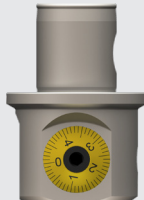
17

**ø 0.3-19.1 mm**



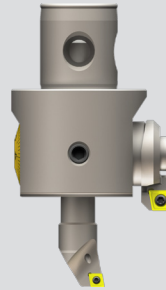
18-20

**ø 3-88 mm**



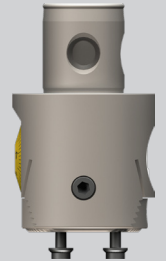
21-22

**ø 3-152 mm**



23-24

**ø 3-320 mm**



25



33



29



27



28



30



31-32

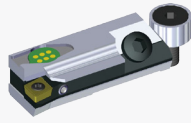


25





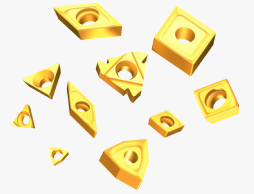
▣4



▣5



▣6-10

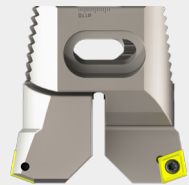


▣64-67

**ø 23-153 mm**



▣48-51



▣51-54

**ø 14.7-203 mm**

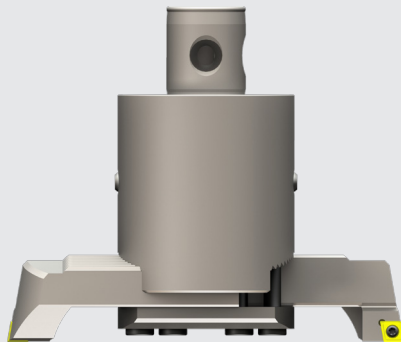


▣35-41



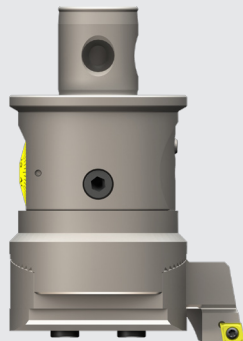
▣42-44

**ø 86-402 mm**



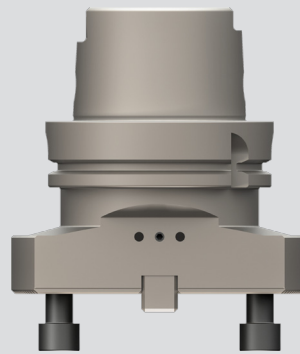
▣56

**ø 86-402 mm**

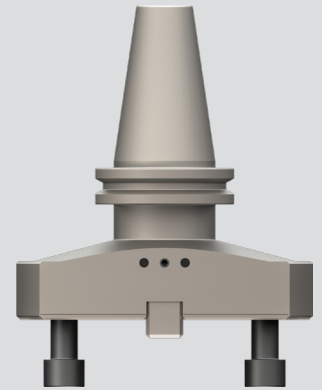


▣46-47

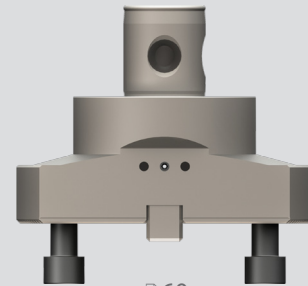
**ø 150-2205 mm**



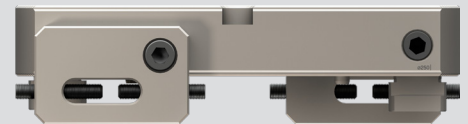
▣60



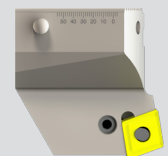
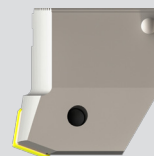
▣60



▣60



▣59+61



▣62

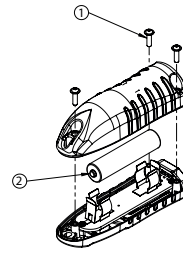


▣63

**C09**  
**Anzeigeeinheit**  
**DIGITAL**

**Display unit**  
**DIGITAL**

**Unité d'affichage**  
**DIGITAL**



Bestell-Nr. /  
 Order number/  
 Code

C09.028.024.077

①

②

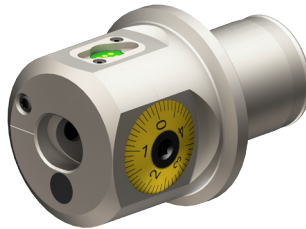
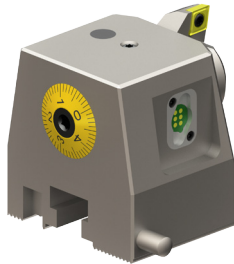
J00.309.022.008

J00.308.011.045

- ein Display für alle Feinbohrköpfe Ø 0.3 mm - 2205.0 mm
- Anzeige umkehrbar (Links-/ Rechtshänder)
- mm/inch umschaltbar
- Standard AAA Batterie zur Stromversorgung
- Display wird über Magnetkraft am Werkzeug gehalten
- Einstellgenauigkeit 0.001mm im Durchmesser
- direktes Wegmeßsystem (kein Umkehrspiel)
- keine Batterie und Auswerteelektronik im Werkzeug verbaut
- sehr einfache Bedienung
- digital und analog einsetzbar

- one display for all fine boring heads diameter 0.3 mm – 2205 mm
- display reversible (LH/RH)
- mm/inch switchable
- standard AAA battery required
- display unit will docked with magnetic forces at the tool
- 0.001 accuracy in diameter
- direct measurement system (no backlash)
- no battery and electronic evaluation unit inside the tool
- very easy operation
- for digital and analog use

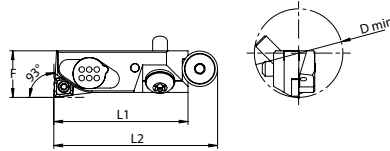
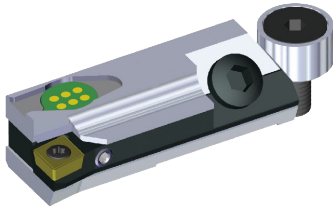
- un seul display pour toutes les têtes d'alésage fin Ø 0.3 mm - 2205.0 mm
- display réversible (gaucher/droitier)
- mm/pouce commutable
- Pile AAA standard pour l'alimentation
- Le display est maintenu sur l'outil par force magnétique
- Précision de réglage de 0,001 mm sur le diamètre
- système de mesure directe (sans jeu)
- pas de batterie ni de dispositif électronique d'évaluation installé dans l'outil
- fonctionnement très simple
- pour une utilisation numérique et analogique



**KKH**  
**Feinbohr-Kurzklemmhalter**  
**DIGITAL**

**fine boring module**  
**DIGITAL**

**Module d'alésage fin à réglage**  
**DIGITAL**



| Bestell-Nr. /<br>Order number/<br>Code | F  | D MIN | L1 | L2 | Wendepatte /<br>Insert /<br>Plaquette | kg  |
|----------------------------------------|----|-------|----|----|---------------------------------------|-----|
| KKH.WCA.016.045                        | 16 | 25    | 45 | 55 | CC .. 06 02 ..                        | 0.2 |

- Einfaches Handling
- Präzise Masskorrektur
- Direktes Weg-Messsystem
- Wartungsfrei

- Easy handling
- Precise adjustment
- No backlash
- Maintenance-free

- Manipulation facile
- Réglage précis
- Sans jeu
- Sans entretien

- Feinverstellung digitale Anzeige 0.001mm
- Radialer Verstellweg: min. 0,4 mm
- Axiale Längenverstellung: 1.5 mm über Keil-element
- Drehzahl: max.10.000 U/min
- Innenkühlung direkt auf die Werkzeugschneide

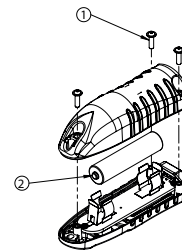
- Fine adjustment digital display 0.001mm
- Radial adjustment: min. 0.4 mm
- Axial length adjustment: 1.5 mm
- Speed: max.10.000 rpm
- Internal cooling directly on the tool cutting edge

- Affichage numérique du réglage fin 0.001mm
- Ajustement radial: min. 0.4 mm
- Ajustement longueur axiale : 1.5 mm
- Vitesse: max.10.000 rpm
- Arrosage interne directement sur l'arête de coupe de l'outil

**GH1**  
**Anzeigeeinheit**  
**Feinbohr-Kurzklemmhalter**

**Display unit**  
**fine boring module**

**Unité d'affichage**  
**Module d'alésage fin à réglage**



| Bestell-Nr. /<br>Order number/<br>Code | ①               | ②               |
|----------------------------------------|-----------------|-----------------|
| GH1.DA4.BGK.077                        | J00.309.022.008 | J00.308.011.045 |

- ein Display für alle Feinbohrköpfe Ø 0.3 mm - 2205.0 mm
- Anzeige umkehrbar (Links-/ Rechtshänder)
- mm/inch umschaltbar
- Standard AAA Batterie zur Stromversorgung
- Display wird über Magnetkraft am Werkzeug gehalten
- Einstellgenauigkeit 0.001mm im Durchmesser
- direktes Wegmeßsystem (kein Umkehrspiel)
- keine Batterie und Auswerteelektronik im Werkzeug verbaut
- sehr einfache Bedienung
- digital und analog einsetzbar

- one display for all fine boring heads diameter 0.3 mm – 2205 mm
- display reversible (LH/RH)
- mm/inch switchable
- standard AAA battery required
- display unit will docked with magnetic forces at the tool
- 0.001 accuracy in diameter
- direct measurement system (no backlash)
- no battery and electronic evaluation unit inside the tool
- very easy operation
- for digital and analog use

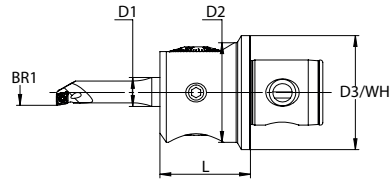
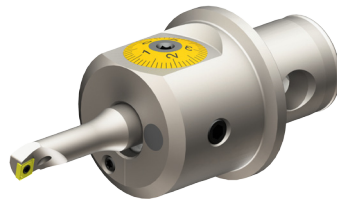
- un seul display pour toutes les têtes d'alésage fin Ø 0.3 mm - 2205.0 mm
- display réversible (gaucher/droitier)
- mm/pouce commutable
- Pile AAA standard pour l'alimentation
- Le display est maintenu sur l'outil par force magnétique
- Précision de réglage de 0,001 mm sur le diamètre
- système de mesure directe (sans jeu)
- pas de batterie ni de dispositif électronique d'évaluation installé dans l'outil
- fonctionnement très simple
- pour une utilisation numérique et analogique

## G85

### Feinbohr-Set Ø 9.75-30.1mm

### Fine boring set Ø 9.75-30.1mm

### Jeux d'outils Ø 9.75-30.1mm



| Bestell-Nr. /<br>Order number/<br>Code | D3/WH<br>System | D2 | BR1<br>min. | BR1<br>max. | L (A) | D1 | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin |
|----------------------------------------|-----------------|----|-------------|-------------|-------|----|-----|--------------------------------------------------------|
| <b>WH modular</b>                      |                 |    |             |             |       |    |     |                                                        |
| G85.050.010.030                        | WH5             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | B04.050.025.050                                        |
| G85.063.010.030                        | WH6             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | B04.063.025.050                                        |
| <b>DIN 69893 HSK 63 A</b>              |                 |    |             |             |       |    |     |                                                        |
| G85.163.010.030                        | HSK 63 A        | 55 | 3           | 88.1        | 95    | 16 | 1.7 | B08.806.055.095                                        |
| <b>DIN 69871 AD 40</b>                 |                 |    |             |             |       |    |     |                                                        |
| G85.415.010.030                        | ISO 40          | 55 | 3           | 88.1        | 90    | 16 | 2.1 | B08.440.055.090                                        |
| <b>MAS BT 40</b>                       |                 |    |             |             |       |    |     |                                                        |
| G85.412.010.030                        | BT40            | 55 | 3           | 88.1        | 90    | 16 | 2.2 | B08.540.055.090                                        |

#### bestehend aus / consisting on / comprenant

|                                                  |             |                 |
|--------------------------------------------------|-------------|-----------------|
| Ausdrehstäble / Boring bars / Barres d'alésage   | ø9.75-15.1  | B54.010.006.075 |
|                                                  | ø14.75-20.1 | B54.015.006.090 |
|                                                  | ø19.75-25.1 | B54.020.006.105 |
|                                                  | ø24.75-30.1 | B54.025.006.115 |
| Bedienschlüssel / Service keys / Clôs de service | SW5 / T7    |                 |
| Kunststoffkoffer / Plastic case / Coffret        |             |                 |

## G89

### DIGITAL

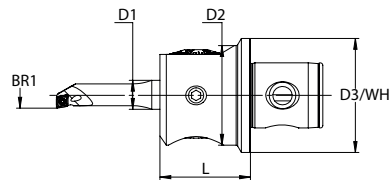
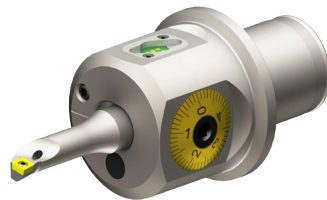
### Feinbohr-Set Ø 9.75-30.1mm

### DIGITAL

### Fine boring set Ø 9.75-30.1mm

### DIGITAL

### Jeux d'outils Ø 9.75-30.1mm



| Bestell-Nr. /<br>Order number/<br>Code | D3/WH<br>System | D2 | BR1<br>min. | BR1<br>max. | L (A) | D1 | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin |
|----------------------------------------|-----------------|----|-------------|-------------|-------|----|-----|--------------------------------------------------------|
| <b>WH modular</b>                      |                 |    |             |             |       |    |     |                                                        |
| G89.050.010.030                        | WH5             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | B06.050.025.050                                        |
| G89.063.010.030                        | WH6             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | B06.063.025.050                                        |
| <b>DIN 69893 HSK 63 A</b>              |                 |    |             |             |       |    |     |                                                        |
| G89.163.010.030                        | HSK 63 A        | 55 | 3           | 88.1        | 95    | 16 | 1.7 | B09.806.055.095                                        |
| <b>DIN 69871 AD 40</b>                 |                 |    |             |             |       |    |     |                                                        |
| G89.415.010.030                        | ISO 40          | 55 | 3           | 88.1        | 90    | 16 | 2.1 | B09.440.055.090                                        |
| <b>MAS BT 40</b>                       |                 |    |             |             |       |    |     |                                                        |
| G89.412.010.030                        | BT40            | 55 | 3           | 88.1        | 90    | 16 | 2.2 | B09.540.055.090                                        |

#### bestehend aus / consisting on / comprenant

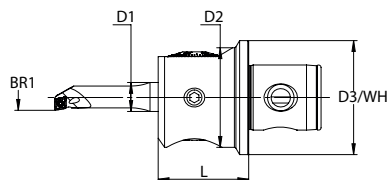
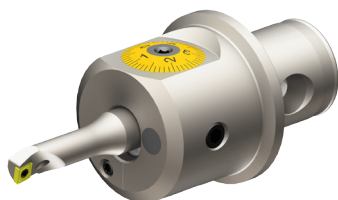
|                                                   |                 |                 |
|---------------------------------------------------|-----------------|-----------------|
| Ausdrehstäble / Boring bars / Barres d'alésage    | ø9.75-15.1      | B54.010.006.075 |
|                                                   | ø14.75-20.1     | B54.015.006.090 |
|                                                   | ø19.75-25.1     | B54.020.006.105 |
|                                                   | ø24.75-30.1     | B54.025.006.115 |
| Bedienschlüssel / Service keys / Clôs de service  | SW5 / T7        |                 |
| Kunststoffkoffer / Plastic case / Coffret         |                 |                 |
| Anzeigeeinheit / Display unit / Unité d'affichage | C09.028.024.077 |                 |

## G86

### Feinbohr-Set Ø 9.75-88.1mm

### Fine boring set Ø 9.75-88.1mm

### Jeux d'outils Ø 9.75-88.1mm



| Bestell-Nr. /<br>Order number /<br>Code | D3/WH<br>System | D2 | BR1<br>min. | BR1<br>max. | L (A) | D1 | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin |
|-----------------------------------------|-----------------|----|-------------|-------------|-------|----|-----|--------------------------------------------------------|
| <b>WH modular</b>                       |                 |    |             |             |       |    |     |                                                        |
| G86.050.010.088                         | WH5             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | B04.050.025.050                                        |
| G86.063.010.088                         | WH6             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | B04.063.025.050                                        |
| <b>DIN 69893 HSK 63 A</b>               |                 |    |             |             |       |    |     |                                                        |
| G86.163.010.088                         | HSK 63 A        | 55 | 3           | 88.1        | 95    | 16 | 1.7 | B08.806.055.095                                        |
| <b>DIN 69871 AD 40</b>                  |                 |    |             |             |       |    |     |                                                        |
| G86.415.010.088                         | ISO 40          | 55 | 3           | 88.1        | 90    | 16 | 2.1 | B08.440.055.090                                        |
| <b>MAS BT 40</b>                        |                 |    |             |             |       |    |     |                                                        |
| G86.412.010.088                         | BT40            | 55 | 3           | 88.1        | 90    | 16 | 2.2 | B08.540.055.090                                        |

#### bestehend aus / consisting on / comprenant

|                                                  |                |                 |             |                 |
|--------------------------------------------------|----------------|-----------------|-------------|-----------------|
| Ausdrehstähle / Boring bars / Barres d'alésage   | ø9.75-15.1     | B54.010.006.075 | ø14.75-20.1 | B54.015.006.090 |
|                                                  | ø19.75-25.1    | B54.020.006.105 | ø24.75-30.1 | B54.025.006.115 |
| Schaft / Shank / Corps d'acier                   | ø29.75-48.1    | B56.030.048.115 | ø47.75-88.1 | B56.048.088.115 |
| Wendeplattenhalter / Insert holder / Porte plaq. | ø29.75-48.1    | B56.030.006.012 | ø47.75-88.1 | B56.048.006.014 |
| Bedienschlüssel / Service keys / Clôs de service | SW4 / SW5 / T7 |                 |             |                 |
| Kunststoffkoffer / Plastic case / Coffret        |                |                 |             |                 |

## G89

### DIGITAL

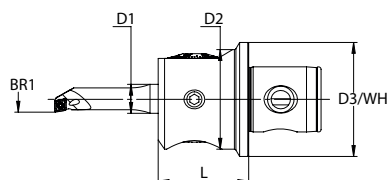
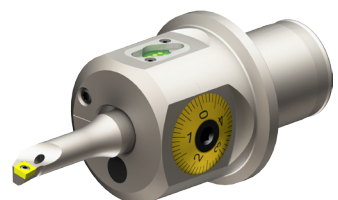
### Feinbohr-Set Ø 9.75-88.1mm

### DIGITAL

### Fine boring set Ø 9.75-88.1mm

### DIGITAL

### Jeux d'outils Ø 9.75-88.1mm



| Bestell-Nr. /<br>Order number /<br>Code | D3/WH<br>System | D2 | BR1<br>min. | BR1<br>max. | L (A) | D1 | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin |
|-----------------------------------------|-----------------|----|-------------|-------------|-------|----|-----|--------------------------------------------------------|
| <b>WH modular</b>                       |                 |    |             |             |       |    |     |                                                        |
| G89.050.010.088                         | WH5             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | B06.050.025.050                                        |
| G89.063.010.088                         | WH6             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | B06.063.025.050                                        |
| <b>DIN 69893 HSK 63 A</b>               |                 |    |             |             |       |    |     |                                                        |
| G89.163.010.088                         | HSK 63 A        | 55 | 3           | 88.1        | 95    | 16 | 1.7 | B09.806.055.095                                        |
| <b>DIN 69871 AD 40</b>                  |                 |    |             |             |       |    |     |                                                        |
| G89.415.010.088                         | ISO 40          | 55 | 3           | 88.1        | 90    | 16 | 2.1 | B09.440.055.090                                        |
| <b>MAS BT 40</b>                        |                 |    |             |             |       |    |     |                                                        |
| G89.412.010.088                         | BT40            | 55 | 3           | 88.1        | 90    | 16 | 2.2 | B09.540.055.090                                        |

#### bestehend aus / consisting on / comprenant

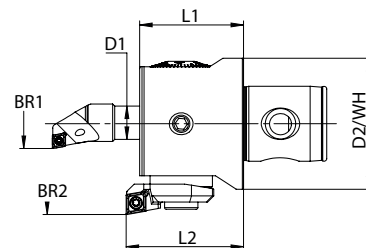
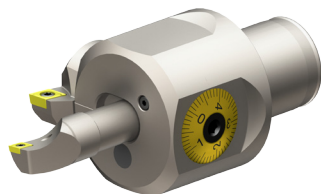
|                                                   |                 |                 |             |                 |
|---------------------------------------------------|-----------------|-----------------|-------------|-----------------|
| Ausdrehstähle / Boring bars / Barres d'alésage    | ø9.75-15.1      | B54.010.006.075 | ø14.75-20.1 | B54.015.006.090 |
|                                                   | ø19.75-25.1     | B54.020.006.105 | ø24.75-30.1 | B54.025.006.115 |
| Schaft / Shank / Corps d'acier                    | ø29.75-48.1     | B56.030.048.115 | ø47.75-88.1 | B56.048.088.115 |
| Wendeplattenhalter / Insert holder / Porte plaq.  | ø29.75-48.1     | B56.030.006.012 | ø47.75-88.1 | B56.048.006.014 |
| Bedienschlüssel / Service keys / Clôs de service  | SW4 / SW5 / T7  |                 |             |                 |
| Kunststoffkoffer / Plastic case / Coffret         |                 |                 |             |                 |
| Anzeigeeinheit / Display unit / Unité d'affichage | C09.028.024.077 |                 |             |                 |

### G83

Feinbohr-Set Ø 9.75-101(152)mm

Fine boring set Ø 9.75-101(152)mm

Jeux d'outils Ø 9.75-101(152)mm



| Bestell-Nr. /<br>Order number/<br>Code | D2/WH    | BR1<br>min. -<br>max. | BR2<br>min. -<br>max. | L1 | L2 | D1 | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin |
|----------------------------------------|----------|-----------------------|-----------------------|----|----|----|-----|--------------------------------------------------------|
| <b>WH modular</b>                      |          |                       |                       |    |    |    |     |                                                        |
| G83.063.010.101                        | WH6      | 3 -<br>88.1           | 87.75 -<br>152.1      | 50 | 57 | 16 | 1.5 | B05.063.025.050                                        |
| <b>VARIO ER40</b>                      |          |                       |                       |    |    |    |     |                                                        |
| G83.001.010.101                        | 63 /ER40 | 3 -<br>88.1           | 87.75 -<br>152.1      | 50 | 57 | 16 | 1.5 | B05.040.003.152                                        |

**ECO LINE**

**bestehend aus / consisting on / comprenant**

|                                                  |                        |                 |             |  |  |  |  |                 |
|--------------------------------------------------|------------------------|-----------------|-------------|--|--|--|--|-----------------|
| Ausdrehstähe / Boring bars / Barres d'alésage    | ø9.75-20.1             | B54.010.006.075 |             |  |  |  |  |                 |
|                                                  | ø19.75-30.1            | B54.020.006.105 |             |  |  |  |  |                 |
| Schaft / Shank / Corps d'acier                   | ø29.75-48.1            | B56.030.048.115 | ø47.75-88.1 |  |  |  |  | B56.048.088.115 |
| Wendeplattenhalter / Insert holder / Porte plaq. | ø29.75-48.1            | B56.030.006.012 | ø47.75-88.1 |  |  |  |  | B56.048.006.014 |
|                                                  | ø 87.75 - 101.1        | C14.726.001.009 |             |  |  |  |  |                 |
| Kühlmitteleinsatz / Coolant plug                 |                        | J00.805.000.032 |             |  |  |  |  |                 |
| Bedienschlüssel / Service keys / Clös de service | SW2.5/4/5/8/T7/<br>T15 |                 |             |  |  |  |  |                 |
| Kunststoffkoffer / Plastic case / Coffret        |                        |                 |             |  |  |  |  |                 |

### G89

DIGITAL

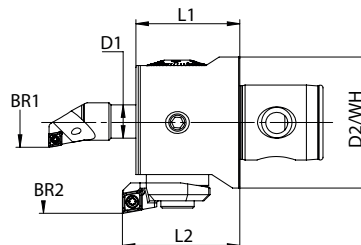
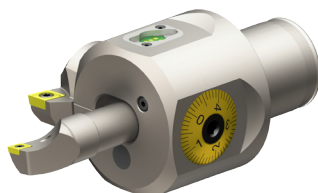
Feinbohr-Set Ø 9.75-101(152)mm

DIGITAL

Fine boring set Ø 9.75-101(152)mm

DIGITAL

Jeux d'outils Ø 9.75-101(152)mm

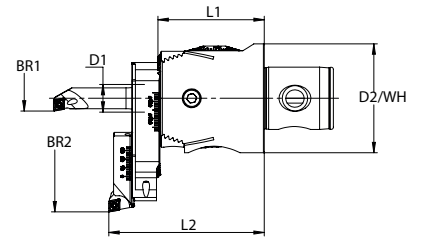


| Bestell-Nr. /<br>Order number/<br>Code | D2/WH | BR1<br>min. -<br>max. | BR2<br>min. -<br>max. | L1 | L2 | D1 | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin |
|----------------------------------------|-------|-----------------------|-----------------------|----|----|----|-----|--------------------------------------------------------|
| <b>WH modular</b>                      |       |                       |                       |    |    |    |     |                                                        |
| G89.063.010.101                        | WH6   | 3 -<br>88.1           | 87.75 -<br>152.1      | 50 | 57 | 16 | 1.5 | B07.063.025.050                                        |

**bestehend aus / consisting on / comprenant**

|                                                   |                        |                 |             |  |  |  |  |                 |
|---------------------------------------------------|------------------------|-----------------|-------------|--|--|--|--|-----------------|
| Ausdrehstähe / Boring bars / Barres d'alésage     | ø9.75-20.1             | B54.010.006.075 |             |  |  |  |  |                 |
|                                                   | ø19.75-30.1            | B54.020.006.105 |             |  |  |  |  |                 |
| Schaft / Shank / Corps d'acier                    | ø29.75-48.1            | B56.030.048.115 | ø47.75-88.1 |  |  |  |  | B56.048.088.115 |
| Wendeplattenhalter / Insert holder / Porte plaq.  | ø29.75-48.1            | B56.030.006.012 | ø47.75-88.1 |  |  |  |  | B56.048.006.014 |
|                                                   | ø 87.75 - 101.1        | C14.726.001.009 |             |  |  |  |  |                 |
| Kühlmitteleinsatz / Coolant plug                  |                        | J00.805.000.032 |             |  |  |  |  |                 |
| Bedienschlüssel / Service keys / Clös de service  | SW2.5/4/5/8/T7/<br>T15 |                 |             |  |  |  |  |                 |
| Kunststoffkoffer / Plastic case / Coffret         |                        |                 |             |  |  |  |  |                 |
| Anzeigeeinheit / Display unit / Unité d'affichage |                        |                 |             |  |  |  |  | C09.028.024.077 |

**G88**  
**Feinbohr-Set Ø 9.75-164(320)mm**      **Fine boring set Ø 9.75-164(320)mm**      **Jeux d'outils Ø 9.75-164(320)mm**

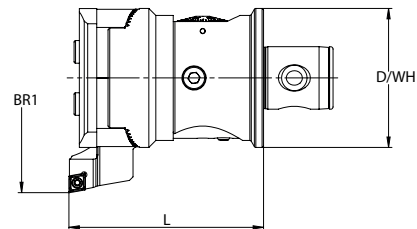
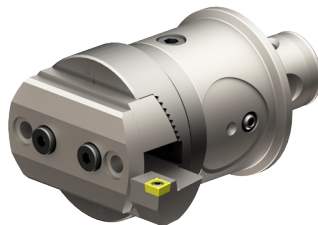


| Bestell-Nr. /<br>Order number/<br>Code | WH<br>CSMS | D2 | BR1<br>min.-<br>max. | BR2<br>min.-<br>max. | L1 | L2  | D1 | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin |
|----------------------------------------|------------|----|----------------------|----------------------|----|-----|----|-----|--------------------------------------------------------|
| <b>WH6 modular</b>                     |            |    |                      |                      |    |     |    |     |                                                        |
| G88.063.010.164                        | WH6        | 63 | 3 - 88.1             | 86 - 320             | 60 | 89  | 16 | 1.5 | B10.063.025.060                                        |
| <b>DIN 69893 HSK 63 A</b>              |            |    |                      |                      |    |     |    |     |                                                        |
| G88.163.010.164                        | HSK 63 A   | 63 | 3 - 88.1             | 86 - 320             | 96 | 125 | 16 | 2.0 | B10.806.063.095                                        |
| <b>DIN 69871 AD 40</b>                 |            |    |                      |                      |    |     |    |     |                                                        |
| G88.415.010.164                        | ISO 40     | 63 | 3 - 88.1             | 86 - 320             | 91 | 120 | 16 | 2.2 | B10.440.063.090                                        |
| <b>MAS BT 40</b>                       |            |    |                      |                      |    |     |    |     |                                                        |
| G88.412.010.164                        | BT40       | 63 | 3 - 88.1             | 86 - 320             | 91 | 120 | 16 | 2.2 | B10.540.063.090                                        |

**bestehend aus / consisting on / comprenant**

|                                                  |                |                 |             |                 |
|--------------------------------------------------|----------------|-----------------|-------------|-----------------|
| Ausdrehstäble / Boring bars / Barres d'alésage   | ø9.75-15.1     | B54.010.006.075 | ø14.75-20.1 | B54.015.006.090 |
|                                                  | ø19.75-25.1    | B54.020.006.105 | ø24.75-30.1 | B54.025.006.115 |
| Schaft / Shank / Corps d'acier                   | ø29.75-48.1    | B56.030.048.115 | ø47.75-88.1 | B56.048.088.115 |
| Wendeplattenhalter / Insert holder / Porte plaq. | ø29.75-48.1    | B56.030.006.012 | ø47.75-88.1 | B56.048.006.014 |
| Brücke / Bridge Traverse                         | ø80            | B12.086.164.080 |             |                 |
| Bedienschlüssel / Service keys / Clés de service | SW4 / SW5 / T7 |                 |             |                 |
| Kunststoffkoffer / Plastic case / Coffret        |                |                 |             |                 |

**G90**  
**Feinbohr-Set Ø 86-302 mm**      **Fine boring set Ø 86-302 mm**      **Jeux d'outils Ø 86-302 mm**



| Bestell-Nr. /<br>Order number/<br>Code | BR1 min. | BR1<br>max. | WH    | L   | D  | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin |
|----------------------------------------|----------|-------------|-------|-----|----|-----|--------------------------------------------------------|
| <b>WH modular</b>                      |          |             |       |     |    |     |                                                        |
| G90.080.086.302                        | 86       | 402         | WH6/8 | 112 | 80 | 2.8 | C44.080.086.112                                        |

**bestehend aus / consisting on / comprenant**

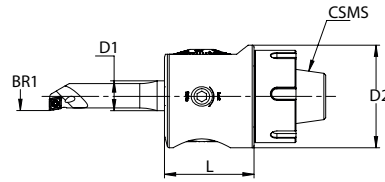
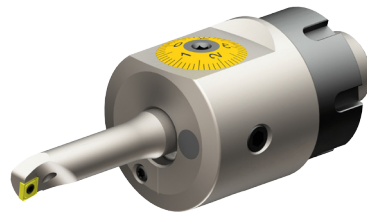
|                                                  |           |                 |
|--------------------------------------------------|-----------|-----------------|
| Wendeplattenhalter / Insert holder / Porte plaq. | ø86-138   | J00.354.086.009 |
|                                                  | ø136-220  | J00.354.136.009 |
|                                                  | ø188-302  | J00.354.188.009 |
| Abstützung / Support block                       |           | J00.354.020.086 |
|                                                  |           | J00.354.020.136 |
| Druckplatte / Clamp plate                        |           | J00.354.010.086 |
|                                                  |           | J00.354.010.136 |
| Bedienschlüssel / Service keys / Clés de service | SW5 / T15 |                 |
| Kunststoffkoffer / Plastic case / Coffret        |           |                 |

G85

Feinbohr-Set Ø 9.75-30.1mm

Fine boring set Ø 9.75-30.1mm

Jeux d'outils Ø 9.75-30.1mm



| Bestell-Nr. /<br>Order number/<br>Code | CSMS | D2 | BR1<br>min. | BR1<br>max. | L  | D1 | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin | <b>ECO LINE</b> |
|----------------------------------------|------|----|-------------|-------------|----|----|-----|--------------------------------------------------------|-----------------|
| <b>SMART ER32</b>                      |      |    |             |             |    |    |     |                                                        |                 |
| G85.032.010.030                        | ER32 | 55 | 3           | 88.1        | 60 | 16 | 1.0 | B11.032.055.060                                        |                 |

bestehend aus / consisting on / comprenant

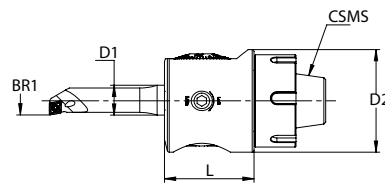
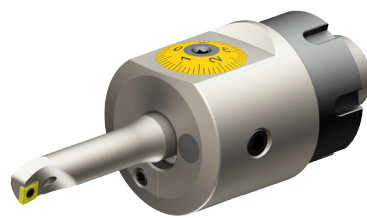
|                                                  |             |                 |
|--------------------------------------------------|-------------|-----------------|
| Ausdrehstähle / Boring bars / Barres d'alésage   | ø9.75-15.1  | B54.010.006.075 |
|                                                  | ø14.75-20.1 | B54.015.006.090 |
|                                                  | ø19.75-25.1 | B54.020.006.105 |
|                                                  | ø24.75-30.1 | B54.025.006.115 |
| Bedienschlüssel / Service keys / Clös de service | SW5 / T7    |                 |
| Kunststoffkoffer / Plastic case / Coffret        |             |                 |

G85

Feinbohr-Set Ø 9.75-88.1mm

Fine boring set Ø 9.75-88.1mm

Jeux d'outils Ø 9.75-88.1mm



| Bestell-Nr. /<br>Order number/<br>Code | CSMS | D2 | BR1<br>min. | BR1<br>max. | L  | D1 | kg  | Feinbohrkopf<br>Fine boring head<br>Tête d'alésage fin | <b>ECO LINE</b> |
|----------------------------------------|------|----|-------------|-------------|----|----|-----|--------------------------------------------------------|-----------------|
| <b>SMART ER32</b>                      |      |    |             |             |    |    |     |                                                        |                 |
| G85.032.010.088                        | ER32 | 55 | 3           | 88.1        | 60 | 16 | 1.0 | B11.032.055.060                                        |                 |

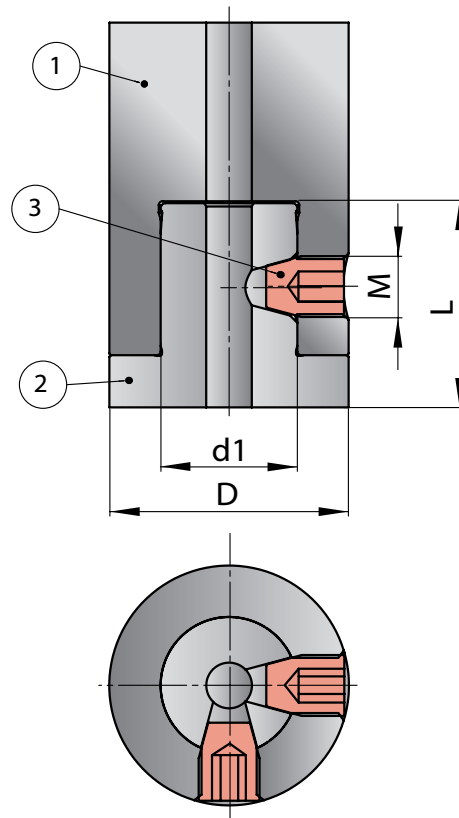
bestehend aus / consisting on / comprenant

|                                                  |                |                 |             |                 |
|--------------------------------------------------|----------------|-----------------|-------------|-----------------|
| Ausdrehstähle / Boring bars / Barres d'alésage   | ø9.75-15.1     | B54.010.006.075 | ø14.75-20.1 | B54.015.006.090 |
|                                                  | ø19.75-25.1    | B54.020.006.105 | ø24.75-30.1 | B54.025.006.115 |
| Schaft / Shank / Corps d'acier                   | ø29.75-48.1    | B56.030.048.115 | ø47.75-88.1 | B56.048.088.115 |
| Wendeplattenhalter / Insert holder / Porte plaq. | ø29.75-48.1    | B56.030.006.012 | ø47.75-88.1 | B56.048.006.014 |
| Bedienschlüssel / Service keys / Clös de service | SW4 / SW5 / T7 |                 |             |                 |
| Kunststoffkoffer / Plastic case / Coffret        |                |                 |             |                 |

Durch die seitlichen Spannschrauben (3) wird der Zapfen (2) in die Aufnahme (1) gezogen. Dank grosser Auflageflächen und hoher Vorspannung wird eine sehr grosse Steifigkeit erzielt.

The male pilot (2) will be clamped into the female receptacle (1) by using radial clamping screws (3). A very high rigidity is achieved by a big contact surface and high prestress.

Le pilote mâle (2) sera serré dans la pièce femelle (1) à l'aide de vis de serrage radiales (3). Une très grande rigidité est obtenue par une grande surface de contact et une forte pré-charge.

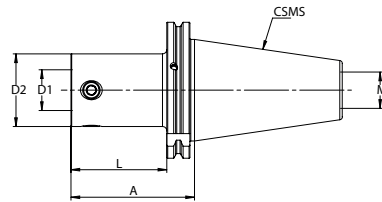
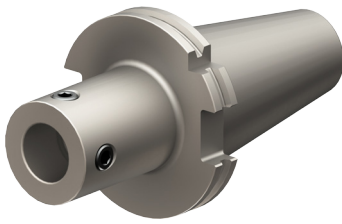



Während die Dimensionen WH1 und WH2 jeweils nur eine Spannschraube aufweisen, kommen ab WH3 zwei um 90° versetzte Spannschrauben zum Einsatz.

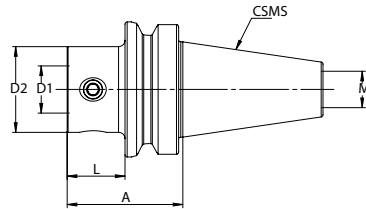
Meanwhile dimensions WH1 and WH2 are each containing just one clamping screw, WH3 and following dimensions are featuring two of these, shifted at 90°.


Alors que les dimensions WH1 et WH2 ne contiennent chacune qu'une seule vis de serrage, les dimensions WH3 et suivantes en comportent deux, décalées de 90°.

| Dimensionen |    | Dimensions |    |         | ③                         |
|-------------|----|------------|----|---------|---------------------------|
| WH          | D  | d1         | L  | M       | Anzugsdrehmoment / Torque |
| WH1         | 20 | 11         | 13 | M5x0.5  | 3.5Nm                     |
| WH2         | 25 | 14         | 18 | M8x1    | 12Nm                      |
| WH3         | 32 | 18         | 22 | M8x1    | 12Nm                      |
| WH4         | 40 | 22         | 28 | M10x1   | 22Nm                      |
| WH5         | 50 | 28         | 28 | M12x1   | 25Nm                      |
| WH6         | 63 | 36         | 40 | M16x1.5 | 30Nm                      |
| WH8         | 80 | 36         | 40 | M16x1.5 | 30Nm                      |



| Bestell-Nr. /<br>Order number/<br>Code | CSMS<br>ISO | WH  | D2 | D1 | A   | L     | M   | kg   |  |
|----------------------------------------|-------------|-----|----|----|-----|-------|-----|------|-------------------------------------------------------------------------------------|
| A14.430.050.048                        | 30          | WH5 | 50 | 28 | 48  | 28.9  | M12 | 0.60 | J00.100.012.017<br>(25 Nm)                                                          |
| A14.440.020.046                        | 40          | WH1 | 20 | 11 | 46  | 26.9  | M16 | 0.87 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A14.440.020.085                        | 40          | WH1 | 20 | 11 | 85  | 65.9  | M16 | 0.97 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A14.440.025.046                        | 40          | WH2 | 25 | 14 | 46  | 26.9  | M16 | 0.90 | J00.100.008.008<br>(12 Nm)                                                          |
| A14.440.025.085                        | 40          | WH2 | 25 | 14 | 85  | 65.9  | M16 | 1.04 | J00.100.008.008<br>(12 Nm)                                                          |
| A14.440.025.120                        | 40          | WH2 | 25 | 14 | 120 | 100.9 | M16 | 1.17 | J00.100.008.008<br>(12 Nm)                                                          |
| A14.440.032.046                        | 40          | WH3 | 32 | 18 | 46  | 26.9  | M16 | 0.93 | J00.100.008.010<br>(12 Nm)                                                          |
| A14.440.032.085                        | 40          | WH3 | 32 | 18 | 85  | 65.9  | M16 | 1.17 | J00.100.008.010<br>(12 Nm)                                                          |
| A14.440.032.120                        | 40          | WH3 | 32 | 18 | 120 | 100.9 | M16 | 1.38 | J00.100.008.010<br>(12 Nm)                                                          |
| A14.440.040.046                        | 40          | WH4 | 40 | 22 | 46  | 26.9  | M16 | 0.99 | J00.100.010.015<br>(22 Nm)                                                          |
| A14.440.040.100                        | 40          | WH4 | 40 | 22 | 100 | 80.9  | M16 | 1.50 | J00.100.010.015<br>(22 Nm)                                                          |
| A14.440.050.046                        | 40          | WH5 | 50 | 28 | 46  | 26.9  | M16 | 1.07 | J00.100.012.017<br>(25 Nm)                                                          |
| A14.440.050.100                        | 40          | WH5 | 50 | 28 | 100 | 80.9  | M16 | 1.87 | J00.100.012.017<br>(25 Nm)                                                          |
| A14.440.063.066                        | 40          | WH6 | 63 | 36 | 66  | 46.9  | M16 | 1.42 | J00.100.016.021<br>(30 Nm)                                                          |
| A14.450.025.085                        | 50          | WH2 | 25 | 14 | 85  | 65.9  | M24 | 2.82 | J00.100.008.008<br>(12 Nm)                                                          |
| A14.450.032.046                        | 50          | WH3 | 32 | 18 | 46  | 26.9  | M24 | 2.76 | J00.100.008.010<br>(12 Nm)                                                          |
| A14.450.032.100                        | 50          | WH3 | 32 | 18 | 100 | 80.9  | M24 | 3.05 | J00.100.008.010<br>(12 Nm)                                                          |
| A14.450.040.046                        | 50          | WH4 | 40 | 22 | 46  | 26.9  | M24 | 2.81 | J00.100.010.015<br>(22 Nm)                                                          |
| A14.450.040.100                        | 50          | WH4 | 40 | 22 | 100 | 80.9  | M24 | 3.31 | J00.100.010.015<br>(22 Nm)                                                          |
| A14.450.050.046                        | 50          | WH5 | 50 | 28 | 46  | 26.9  | M24 | 2.89 | J00.100.012.017<br>(25 Nm)                                                          |
| A14.450.050.085                        | 50          | WH5 | 50 | 28 | 85  | 65.9  | M24 | 3.48 | J00.100.012.017<br>(25 Nm)                                                          |
| A14.450.050.120                        | 50          | WH5 | 50 | 28 | 120 | 100.9 | M24 | 3.98 | J00.100.012.017<br>(25 Nm)                                                          |
| A14.450.063.066                        | 50          | WH6 | 63 | 36 | 66  | 46.9  | M24 | 3.39 | J00.100.016.021<br>(30 Nm)                                                          |
| A14.450.063.100                        | 50          | WH6 | 63 | 36 | 100 | 80.9  | M24 | 4.19 | J00.100.016.021<br>(30 Nm)                                                          |
| A14.450.080.046                        | 50          | WH8 | 80 | 36 | 46  | 26.9  | M24 | 3.29 | J00.100.016.029<br>(30 Nm)                                                          |
| A14.450.080.085                        | 50          | WH8 | 80 | 36 | 85  | 65.9  | M24 | 4.79 | J00.100.016.029<br>(30 Nm)                                                          |



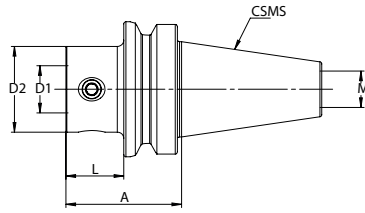
| Bestell-Nr. /<br>Order number /<br>Code | CSMS<br>BT | WH  | D2 | D1 | A   | L   | M   | kg  |  |
|-----------------------------------------|------------|-----|----|----|-----|-----|-----|-----|-------------------------------------------------------------------------------------|
| A34.530.050.049                         | 30         | WH5 | 50 | 28 | 49  | 27  | M12 | 0.6 | J00.100.012.017<br>(25 Nm)                                                          |
| A34.540.020.054                         | 40         | WH1 | 20 | 11 | 54  | 27  | M16 | 1.0 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A34.540.020.093                         | 40         | WH1 | 20 | 11 | 93  | 66  | M16 | 1.1 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A34.540.025.054                         | 40         | WH2 | 25 | 14 | 54  | 27  | M16 | 1.1 | J00.100.008.008<br>(12 Nm)                                                          |
| A34.540.025.093                         | 40         | WH2 | 25 | 14 | 93  | 66  | M16 | 1.3 | J00.100.008.008<br>(12 Nm)                                                          |
| A34.540.025.127                         | 40         | WH2 | 25 | 14 | 127 | 100 | M16 | 1.2 | J00.100.008.008<br>(12 Nm)                                                          |
| A34.540.032.054                         | 40         | WH3 | 32 | 18 | 54  | 27  | M16 | 1.1 | J00.100.008.010<br>(12 Nm)                                                          |
| A34.540.032.093                         | 40         | WH3 | 32 | 18 | 93  | 66  | M16 | 1.3 | J00.100.008.010<br>(12 Nm)                                                          |
| A34.540.032.127                         | 40         | WH3 | 32 | 18 | 127 | 100 | M16 | 1.5 | J00.100.008.010<br>(12 Nm)                                                          |
| A34.540.040.054                         | 40         | WH4 | 40 | 22 | 54  | 27  | M16 | 1.2 | J00.100.010.015<br>(22 Nm)                                                          |
| A34.540.040.107                         | 40         | WH4 | 40 | 22 | 107 | 80  | M16 | 1.7 | J00.100.010.015<br>(22 Nm)                                                          |
| A34.540.050.054                         | 40         | WH5 | 50 | 28 | 54  | 27  | M16 | 1.2 | J00.100.012.017<br>(25 Nm)                                                          |
| A34.540.050.107                         | 40         | WH5 | 50 | 28 | 107 | 80  | M16 | 2.0 | J00.100.012.017<br>(25 Nm)                                                          |
| A34.540.063.064                         | 40         | WH6 | 63 | 36 | 64  | 37  | M16 | 1.5 | J00.100.016.021<br>(30 Nm)                                                          |
| A34.550.025.104                         | 50         | WH2 | 25 | 14 | 104 | 66  | M24 | 3.9 | J00.100.008.008<br>(12 Nm)                                                          |
| A34.550.032.065                         | 50         | WH3 | 32 | 18 | 65  | 27  | M24 | 4.1 | J00.100.008.010<br>(12 Nm)                                                          |
| A34.550.032.118                         | 50         | WH3 | 32 | 18 | 118 | 80  | M24 | 4.1 | J00.100.008.010<br>(12 Nm)                                                          |
| A34.550.040.065                         | 50         | WH4 | 40 | 22 | 65  | 27  | M24 | 3.8 | J00.100.010.015<br>(22 Nm)                                                          |
| A34.550.040.118                         | 50         | WH4 | 40 | 22 | 118 | 80  | M24 | 4.3 | J00.100.010.015<br>(22 Nm)                                                          |
| A34.550.050.065                         | 50         | WH5 | 50 | 28 | 65  | 27  | M24 | 3.9 | J00.100.012.017<br>(25 Nm)                                                          |
| A34.550.050.104                         | 50         | WH5 | 50 | 28 | 104 | 66  | M24 | 4.5 | J00.100.012.017<br>(25 Nm)                                                          |
| A34.550.050.138                         | 50         | WH5 | 50 | 28 | 138 | 100 | M24 | 5.0 | J00.100.012.017<br>(25 Nm)                                                          |
| A34.550.063.075                         | 50         | WH6 | 63 | 36 | 75  | 37  | M24 | 4.8 | J00.100.016.021<br>(30 Nm)                                                          |
| A34.550.063.104                         | 50         | WH6 | 63 | 36 | 104 | 66  | M24 | 4.2 | J00.100.016.021<br>(30 Nm)                                                          |
| A34.550.080.075                         | 50         | WH8 | 80 | 36 | 75  | 37  | M24 | 4.7 | J00.100.016.029<br>(30 Nm)                                                          |
| A34.550.080.104                         | 50         | WH8 | 80 | 36 | 104 | 66  | M24 | 5.8 | J00.100.016.029<br>(30 Nm)                                                          |


## A35

### Aufnahmen MAS-BBT AD/B mit Plananlage

### Master shanks to MAS-BBT AD/B with face contact

### Mandrin de base MAS-BBT AD/B à double contact



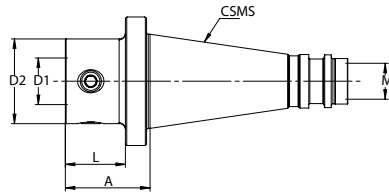
| Bestell-Nr. /<br>Order number/<br>Code | CSMS<br>BT | WH  | D2 | D1 | A   | L  | M   | kg  |  |
|----------------------------------------|------------|-----|----|----|-----|----|-----|-----|-------------------------------------------------------------------------------------|
| A35.550.050.104                        | 50         | WH5 | 50 | 28 | 104 | 66 | M24 | 4.5 | J00.100.012.017<br>(25 Nm)                                                          |
| A35.550.063.104                        | 50         | WH6 | 63 | 36 | 104 | 66 | M24 | 4.2 | J00.100.016.021<br>(30 Nm)                                                          |
| A35.550.080.104                        | 50         | WH8 | 80 | 36 | 104 | 66 | M24 | 5.8 | J00.100.016.029<br>(30 Nm)                                                          |


## A54

### Aufnahmen DIN 2080

### Master shanks to DIN 2080

### Mandrin de base DIN 2080



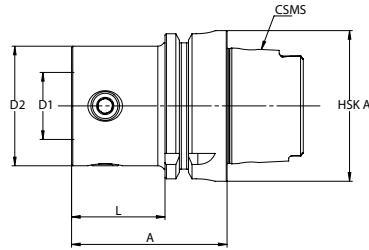
| Bestell-Nr. /<br>Order number/<br>Code | CSMS<br>ISO | WH  | D2 | D1 | A  | L    | M   | kg  |  |
|----------------------------------------|-------------|-----|----|----|----|------|-----|-----|---------------------------------------------------------------------------------------|
| A54.300.050.040                        | 30          | WH5 | 50 | 28 | 40 | -    | M12 | 0.6 | J00.100.012.017<br>(25 Nm)                                                            |
| A54.400.040.040                        | 40          | WH4 | 40 | 22 | 40 | 28.4 | M16 | 0.9 | J00.100.010.015<br>(22 Nm)                                                            |
| A54.400.050.040                        | 40          | WH5 | 50 | 28 | 40 | 28.4 | M16 | 1.0 | J00.100.012.017<br>(25 Nm)                                                            |
| A54.400.063.063                        | 40          | WH6 | 63 | 36 | 63 | -    | M16 | 1.6 | J00.100.016.021<br>(30 Nm)                                                            |
| A54.500.050.042                        | 50          | WH5 | 50 | 28 | 42 | 26.8 | M24 | 2.8 | J00.100.012.017<br>(25 Nm)                                                            |
| A54.500.063.052                        | 50          | WH6 | 63 | 36 | 52 | 36.8 | M24 | 3.1 | J00.100.016.021<br>(30 Nm)                                                            |
| A54.500.080.052                        | 50          | WH8 | 80 | 36 | 52 | 36.8 | M24 | 3.6 | J00.100.016.029<br>(30 Nm)                                                            |


## A44

Aufnahmen HSK A DIN 69893

Master shanks to HSK A DIN 69893

Mandrin de base HSK A DIN 69893



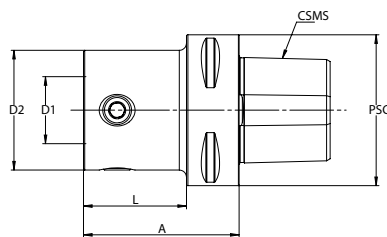
| Bestell-Nr. /<br>Order number/<br>Code | CSMS<br>HSK A | WH  | D2 | D1 | A   | L   | kg  |  |
|----------------------------------------|---------------|-----|----|----|-----|-----|-----|------------------------------------------------------------------------------------|
| A44.806.020.042                        | 63            | WH1 | 20 | 11 | 42  | 16  | 0.7 | J00.100.005.008<br>(3.5 Nm)                                                        |
| A44.806.020.086                        | 63            | WH1 | 20 | 11 | 86  | 60  | 0.8 | J00.100.005.008<br>(3.5 Nm)                                                        |
| A44.806.025.042                        | 63            | WH2 | 25 | 14 | 42  | 16  | 0.7 | J00.100.008.008<br>(12 Nm)                                                         |
| A44.806.025.086                        | 63            | WH2 | 25 | 14 | 86  | 60  | 0.9 | J00.100.008.008<br>(12 Nm)                                                         |
| A44.806.025.126                        | 63            | WH2 | 25 | 14 | 126 | 100 | 1.0 | J00.100.008.008<br>(12 Nm)                                                         |
| A44.806.032.048                        | 63            | WH3 | 32 | 18 | 48  | 22  | 0.7 | J00.100.008.010<br>(12 Nm)                                                         |
| A44.806.032.100                        | 63            | WH3 | 32 | 18 | 100 | 74  | 1.1 | J00.100.008.010<br>(12 Nm)                                                         |
| A44.806.040.055                        | 63            | WH4 | 40 | 22 | 55  | 29  | 0.8 | J00.100.010.015<br>(22 Nm)                                                         |
| A44.806.040.100                        | 63            | WH4 | 40 | 22 | 100 | 74  | 1.3 | J00.100.010.015<br>(22 Nm)                                                         |
| A44.806.050.065                        | 63            | WH5 | 50 | 28 | 65  | 39  | 1.1 | J00.100.012.017<br>(25 Nm)                                                         |
| A44.806.050.100                        | 63            | WH5 | 50 | 28 | 100 | 74  | 1.6 | J00.100.012.017<br>(25 Nm)                                                         |
| A44.806.063.080                        | 63            | WH6 | 63 | 36 | 80  | 54  | 1.2 | J00.100.016.021<br>(30 Nm)                                                         |
| A44.810.050.065                        | 100           | WH5 | 50 | 28 | 65  | 36  | 2.4 | J00.100.012.017<br>(25 Nm)                                                         |
| A44.810.063.080                        | 100           | WH6 | 63 | 36 | 80  | 51  | 2.9 | J00.100.016.021<br>(30 Nm)                                                         |
| A44.810.080.080                        | 100           | WH8 | 80 | 36 | 80  | 51  | 3.7 | J00.100.016.029<br>(30 Nm)                                                         |


## A51

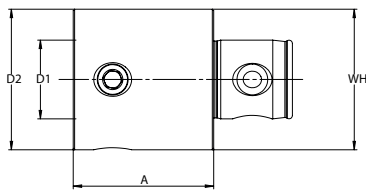
Aufnahmen PSC ISO 26623-1


Master shanks to PSC ISO 26623-1

Mandrin de base PSC ISO 26623-1



| Bestell-Nr. /<br>Order number/<br>Code | CSMS<br>PSC | WH  | D2 | D1 | A  | L  | kg  |  |
|----------------------------------------|-------------|-----|----|----|----|----|-----|--------------------------------------------------------------------------------------|
| A51.806.020.054                        | 63          | WH1 | 20 | 11 | 54 | 32 | 0.8 | J00.100.005.008<br>(3.5 Nm)                                                          |
| A51.806.025.054                        | 63          | WH2 | 25 | 14 | 54 | 32 | 0.8 | J00.100.008.008<br>(12 Nm)                                                           |
| A51.806.032.054                        | 63          | WH3 | 32 | 18 | 54 | 32 | 0.9 | J00.100.008.010<br>(12 Nm)                                                           |
| A51.806.040.065                        | 63          | WH4 | 42 | 22 | 65 | 43 | 1.1 | J00.100.010.015<br>(22 Nm)                                                           |
| A51.806.050.065                        | 63          | WH5 | 50 | 28 | 65 | 43 | 1.3 | J00.100.012.017<br>(25 Nm)                                                           |
| A51.806.063.080                        | 63          | WH6 | 63 | 36 | 80 | -  | 1.8 | J00.100.016.021<br>(30 Nm)                                                           |
| A51.806.080.080                        | 63          | WH8 | 80 | 36 | 80 | -  | 2.5 | J00.100.016.029<br>(30 Nm)                                                           |

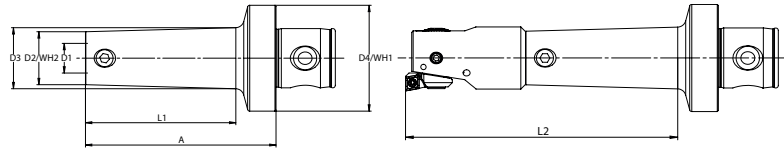



| Bestell-Nr. /<br>Order number/<br>Code | WH  | D2 | D1 | A   | kg  |  |
|----------------------------------------|-----|----|----|-----|-----|-----------------------------------------------------------------------------------|
| A64.020.020.025                        | WH1 | 20 | 11 | 25  | 0.1 | J00.100.005.008<br>(3.5 Nm)                                                       |
| A64.020.020.035                        | WH1 | 20 | 11 | 35  | 0.1 | J00.100.005.008<br>(3.5 Nm)                                                       |
| A64.025.025.030                        | WH2 | 25 | 14 | 30  | 0.1 | J00.100.008.008<br>(12 Nm)                                                        |
| A64.025.025.045                        | WH2 | 25 | 14 | 45  | 0.2 | J00.100.008.008<br>(12 Nm)                                                        |
| A64.032.032.040                        | WH3 | 32 | 18 | 40  | 0.2 | J00.100.008.010<br>(12 Nm)                                                        |
| A64.032.032.060                        | WH3 | 32 | 18 | 60  | 0.4 | J00.100.008.010<br>(12 Nm)                                                        |
| A64.039.039.050                        | WH4 | 40 | 22 | 50  | 0.5 | J00.100.010.015<br>(22 Nm)                                                        |
| A64.039.039.080                        | WH4 | 40 | 22 | 80  | 0.8 | J00.100.010.015<br>(22 Nm)                                                        |
| A64.050.050.050                        | WH5 | 50 | 28 | 50  | 0.7 | J00.100.012.017<br>(25 Nm)                                                        |
| A64.050.050.070                        | WH5 | 50 | 28 | 70  | 1.0 | J00.100.012.017<br>(25 Nm)                                                        |
| A64.050.050.100                        | WH5 | 50 | 28 | 100 | 1.5 | J00.100.012.017<br>(25 Nm)                                                        |
| A64.063.063.075                        | WH6 | 63 | 36 | 75  | 1.7 | J00.100.016.021<br>(30 Nm)                                                        |
| A64.063.063.135                        | WH6 | 63 | 36 | 135 | 3.1 | J00.100.016.021<br>(30 Nm)                                                        |
| A64.080.080.100                        | WH8 | 80 | 36 | 100 | 3.8 | J00.100.016.029<br>(30 Nm)                                                        |
| A64.080.080.180                        | WH8 | 80 | 36 | 180 | 6.9 | J00.100.016.029<br>(30 Nm)                                                        |

**A84**  
**Reduktionen**

**Reductions**

**Réductions**

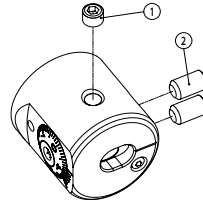
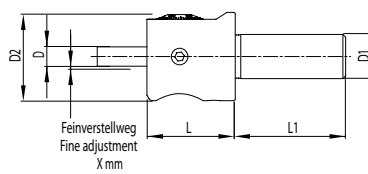
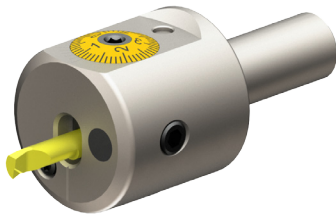




| Bestell-Nr. /<br>Order number /<br>Code | WH1 | D4 | WH2 | D2 | D3 | A   | L1  | L2  | kg  |  |
|-----------------------------------------|-----|----|-----|----|----|-----|-----|-----|-----|-------------------------------------------------------------------------------------|
| A84.025.020.036                         | WH2 | 25 | WH1 | 20 | 23 | 36  | 26  | 69  | 0.1 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A84.032.020.038                         | WH3 | 32 | WH1 | 20 | 23 | 38  | 26  | 69  | 0.2 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A84.032.025.038                         | WH3 | 32 | WH2 | 25 | 29 | 38  | 26  | 82  | 0.2 | J00.100.008.008<br>(12 Nm)                                                          |
| A84.040.020.040                         | WH4 | 40 | WH1 | 20 | 23 | 40  | 26  | 69  | 0.3 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A84.040.025.040                         | WH4 | 40 | WH2 | 25 | 29 | 40  | 26  | 82  | 0.3 | J00.100.008.008<br>(12 Nm)                                                          |
| A84.040.032.040                         | WH4 | 40 | WH3 | 32 | 38 | 40  | 26  | 92  | 0.4 | J00.100.008.010<br>(12 Nm)                                                          |
| A84.050.020.044                         | WH5 | 50 | WH1 | 20 | 23 | 44  | 28  | 73  | 0.4 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A84.050.020.080                         | WH5 | 50 | WH1 | 20 | 23 | 80  | 64  | 107 | 0.5 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A84.050.025.044                         | WH5 | 50 | WH2 | 25 | 29 | 44  | 28  | 84  | 0.4 | J00.100.008.008<br>(12 Nm)                                                          |
| A84.050.025.090                         | WH5 | 50 | WH2 | 25 | 29 | 90  | 74  | 128 | 0.6 | J00.100.008.008<br>(12 Nm)                                                          |
| A84.050.032.044                         | WH5 | 50 | WH3 | 32 | 38 | 44  | 28  | 94  | 0.5 | J00.100.008.010<br>(12 Nm)                                                          |
| A84.050.032.100                         | WH5 | 50 | WH3 | 32 | 38 | 100 | 84  | 148 | 0.9 | J00.100.008.010<br>(12 Nm)                                                          |
| A84.050.040.044                         | WH5 | 50 | WH4 | 40 | 48 | 44  | 28  | 103 | 0.6 | J00.100.010.015<br>(22 Nm)                                                          |
| A84.050.040.115                         | WH5 | 50 | WH4 | 40 | 48 | 115 | 99  | 172 | 1.4 | J00.100.010.015<br>(22 Nm)                                                          |
| A84.063.020.050                         | WH6 | 63 | WH1 | 20 | 23 | 50  | 32  | 77  | 0.7 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A84.063.020.100                         | WH6 | 63 | WH1 | 20 | 23 | 100 | 82  | 125 | 0.8 | J00.100.005.008<br>(3.5 Nm)                                                         |
| A84.063.025.050                         | WH6 | 63 | WH2 | 25 | 29 | 50  | 32  | 88  | 0.8 | J00.100.008.008<br>(12 Nm)                                                          |
| A84.063.025.110                         | WH6 | 63 | WH2 | 25 | 29 | 110 | 92  | 146 | 1.0 | J00.100.008.008<br>(12 Nm)                                                          |
| A84.063.032.050                         | WH6 | 63 | WH3 | 32 | 38 | 50  | 32  | 98  | 0.9 | J00.100.008.010<br>(12 Nm)                                                          |
| A84.063.032.120                         | WH6 | 63 | WH3 | 32 | 38 | 120 | 102 | 166 | 1.4 | J00.100.008.010<br>(12 Nm)                                                          |
| A84.063.040.050                         | WH6 | 63 | WH4 | 40 | 48 | 50  | 32  | 122 | 1.0 | J00.100.010.015<br>(22 Nm)                                                          |
| A84.063.040.140                         | WH6 | 63 | WH4 | 40 | 48 | 140 | 122 | 195 | 2.0 | J00.100.010.015<br>(22 Nm)                                                          |
| A84.063.050.050                         | WH6 | 63 | WH5 | 50 | 60 | 50  | 32  | 142 | 1.1 | J00.100.012.017<br>(25 Nm)                                                          |
| A84.063.050.160                         | WH6 | 63 | WH5 | 50 | 60 | 160 | 142 | 230 | 3.1 | J00.100.012.017<br>(25 Nm)                                                          |
| A84.080.063.060                         | WH8 | 80 | WH6 | 63 | 75 | 60  | 40  | 180 | 1.8 | J00.100.016.021<br>(30 Nm)                                                          |

**B04**  
**Micro Ausdrehköpfe ø 0.3-19.1**

**Micro fine boring heads ø 0.3-19.1**

**Micro Tête d'alésage fin ø 0.3-19.1**



| Bestell-Nr. /<br>Order number/<br>Code | D | D1 | D2 | X   | L  | L1 | kg  |  |  |
|----------------------------------------|---|----|----|-----|----|----|-----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| B04.010.025.025                        | 4 | 10 | 25 | 1.5 | 25 | 25 | 0.1 | J00.204.005.004                                                                    | J00.204.004.008                                                                     |
| B04.016.032.032                        | 7 | 16 | 32 | 2.5 | 32 | 40 | 0.2 | J00.204.006.005                                                                    | J00.204.006.010                                                                     |

- DurchmesserEinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.002mm über Nonius im Durchmesser
- mit Innenkühlung

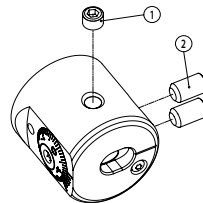
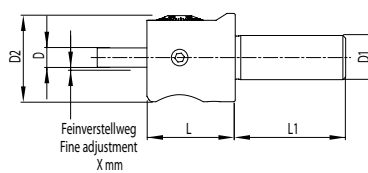
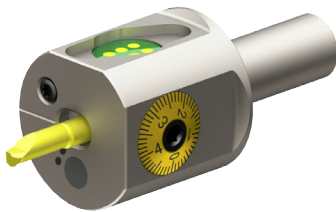
- diametrical adjustment with maximal reduced reversal backlash
- 0.002mm diametrical adjustment by nonius
- with inner coolant supply



- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- Avec arrosage interne

**B06**  
**Micro Ausdrehköpfe ø 0.3-19.1**  
**DIGITAL**

**Micro fine boring heads ø 0.3-19.1**  
**DIGITAL**

**Micro Tête d'alésage fin ø 0.3-19.1**  
**DIGITAL**



| Bestell-Nr. /<br>Order number/<br>Code | D | D1 | D2 | X   | L  | L1 | kg  |  |  |
|----------------------------------------|---|----|----|-----|----|----|-----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| B06.010.025.025                        | 4 | 10 | 25 | 1.5 | 25 | 25 | 0.1 | J00.204.005.004                                                                      | J00.204.004.008                                                                       |
| B06.016.032.032                        | 7 | 16 | 32 | 2.5 | 32 | 40 | 0.2 | J00.204.006.005                                                                      | J00.204.006.010                                                                       |

- Einstellgenauigkeit 0.001mm im Durchmesser
- direktes Wegmeßsystem (kein Umkehrspiel)
- keine Batterie und Auswerteelektronik im Werkzeug verbaut
- sehr einfache Bedienung
- digital und analog einsetzbar
- Anzeigeeinheit muss separat bestellt werden (C09.028.024.077)

- 0.001 accuracy in diameter
- direct measurement system (no backlash)
- no battery and electronic evaluation unit inside the tool
- very easy operation
- for digital and analog use
- Display unit must be ordered separately (C09.028.024.077)

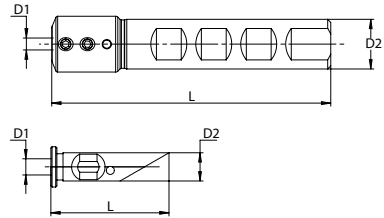
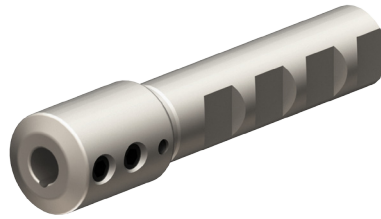
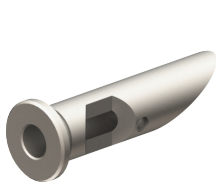
- Précision de réglage de 0,001 mm sur le diamètre
- système de mesure directe (sans jeu)
- pas de batterie ni de dispositif électronique d'évaluation installé dans l'outil
- fonctionnement très simple
- pour une utilisation numérique et analogique
- Unité d'affichage doit être commandé séparément (C09.028.024.077)


## B24

### Reduktionshülsen

### Reduction sleeves

### Réduction



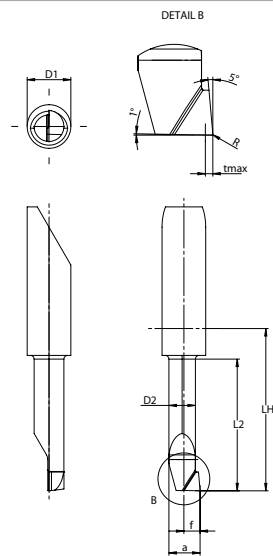
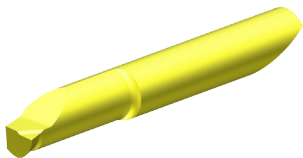
| Bestell-Nr. /<br>Order number/<br>Code | D2 | D1 | L    | kg  |  |
|----------------------------------------|----|----|------|-----|-----------------------------------------------------------------------------------|
| B24.007.004.030                        | 7  | 4  | (30) | 0.1 |                                                                                   |
| B24.016.004.090                        | 16 | 4  | 90   | 0.2 | ISO4026-M4x6                                                                      |
| B24.016.007.090                        | 16 | 7  | 90   | 0.2 | ISO4026-M6x6                                                                      |

## B55

### Schneideinsätze

### Boring bars

### Barres d'alésage



| Bestell-Nr. /<br>Order number/<br>Code | D1  | L2   | Ød<br>min | Ød<br>max | R    | a    | D2   | f    | LH   | t max | kg   |
|----------------------------------------|-----|------|-----------|-----------|------|------|------|------|------|-------|------|
| B55.004.003.013                        | 4.0 | 1.2  | 0.3       | 0.7       | -    | 0.25 | 0.15 | 0.15 | 11.0 | 0.03  | 0.05 |
| B55.004.006.013                        | 4.0 | 2.5  | 0.6       | 1.1       | -    | 0.55 | 0.46 | 0.30 | 11.0 | 0.05  | 0.05 |
| B55.004.010.013                        | 4.0 | 4.0  | 1.0       | 2.3       | 0.05 | 0.95 | 0.65 | 0.50 | 11.0 | 0.1   | 0.05 |
| B55.004.022.013                        | 4.0 | 6.0  | 2.2       | 3.3       | 0.05 | 2.00 | 1.55 | 1.10 | 11.0 | 0.2   | 0.05 |
| B55.004.032.013                        | 4.0 | 10.2 | 3.2       | 4.3       | 0.05 | 3.00 | 2.55 | 1.60 | 11.0 | 0.2   | 0.05 |
| B55.004.039.018                        | 4.0 | 15.2 | 3.9       | (7.1)     | 0.05 | 3.70 | 3.45 | 1.95 | 16.0 | 0.3   | 0.05 |
| B55.007.052.023                        | 7.0 | 20.3 | 5.2       | 6.3       | 0.05 | 5.00 | 4.25 | 2.60 | 21.0 | 0.5   | 0.05 |
| B55.007.062.023                        | 7.0 | 20.3 | 6.2       | 7.3       | 0.05 | 6.00 | 5.25 | 3.10 | 21.0 | 0.5   | 0.05 |
| B55.007.069.028                        | 7.0 | 25.4 | 6.9       | (12.1)    | 0.20 | 6.70 | 6.25 | 3.45 | 26.0 | 0.5   | 0.05 |

• Schnittwerte (Start) f 0.02 mm/U

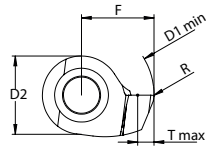
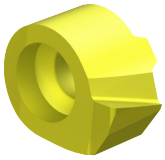
• Cutting parameters (Start) f 0.02 mm/rev

• Valeurs de coupe (départ) f 0,02 mm/tr

**B83**  
Schneidplatten

inserts

Inserts



| Bestell-Nr. /<br>Order number /<br>Code | ØD1<br>min | ØD1<br>max | R   | F    | D2  | tmax | Code | kg   |
|-----------------------------------------|------------|------------|-----|------|-----|------|------|------|
| B83.007.069.004                         | 6.9        | 8.1        | 0.2 | 3.45 | 4.8 | 1.0  | D07  | 0.05 |
| B83.007.079.004                         | 7.9        | 9.1        | 0.2 | 3.95 | 4.8 | 1.0  | D07  | 0.05 |
| B83.007.089.004                         | 8.9        | 10.1       | 0.2 | 4.45 | 4.8 | 1.0  | D07  | 0.05 |
| B83.010.099.004                         | 9.9        | 12.1       | 0.2 | 4.95 | 7   | 1.0  | D10  | 0.05 |
| B83.010.119.004                         | 11.9       | 14.1       | 0.2 | 5.95 | 7   | 1.0  | D10  | 0.05 |
| B83.010.139.004                         | 13.9       | 19.1       | 0.2 | 6.95 | 7   | 1.0  | D10  | 0.05 |

• Schnittwerte (Start) f 0.02 mm/U

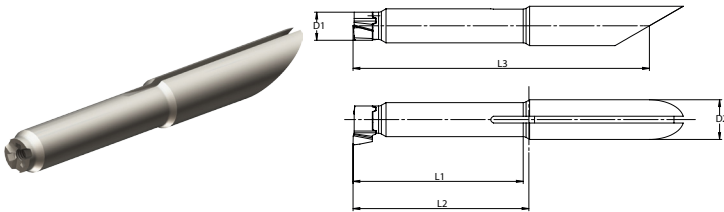
• Cutting parameters (Start) f 0.02 mm/rev


• Valeurs de coupe (départ) f 0,02 mm/tr

**B82**  
Adapter  
für Schneidplatten

Adapter  
for inserts

Adaptateur  
pour inserts

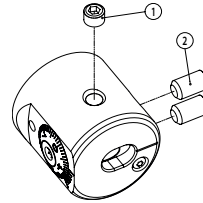
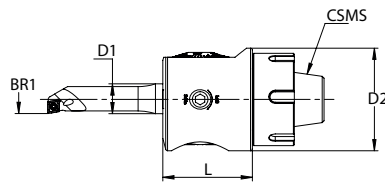
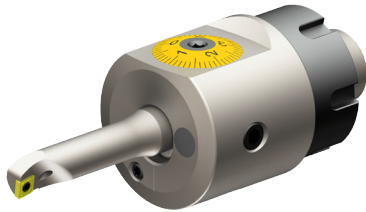


| Bestell-Nr. /<br>Order number /<br>Code | D2 h6 | L1 | D1  | L3 | L2 | Torx | Code | kg  |  |
|-----------------------------------------|-------|----|-----|----|----|------|------|-----|---------------------------------------------------------------------------------------|
| B82.007.007.033                         | 7.0   | 30 | 4.8 | 56 | 31 | T7   | D07  | 0.1 | M2x7.5 (1.0 Nm)<br>(J00.254.020.007)                                                  |
| B82.007.010.038                         | 7.0   | 35 | 7.0 | 61 | 36 | T9   | D10  | 0.1 | M3x9.0 (3.0 Nm)<br>(J00.254.030.009)                                                  |



**ECOLINE B11**  
**Ausdrehkopf ø 3-88.1**

**Fine boring heads ø 3-88.1**

**Tête d'alésage fin ø 3-88.1**



**ECO LINE**

| Bestell-Nr. /<br>Order number/<br>Code | CSMS | D2 | BR1<br>min. | BR1<br>max. | L  | D1 | kg  |  |  |
|----------------------------------------|------|----|-------------|-------------|----|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>SMART ER32</b>                      |      |    |             |             |    |    |     |                                                                                     |                                                                                     |
| B11.032.055.060                        | ER32 | 55 | 3           | 88.1        | 60 | 16 | 1.0 | J00.204.010.008                                                                     | J00.204.010.016                                                                     |

- Schnittstelle ER32 DIN6499
- Ausdrehstähe durchschiebbar
- Werkzeug in einem Spannzangenfutter spannen.

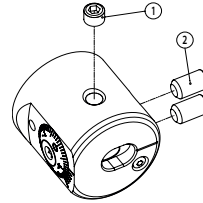
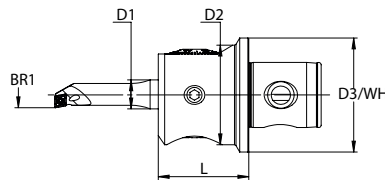
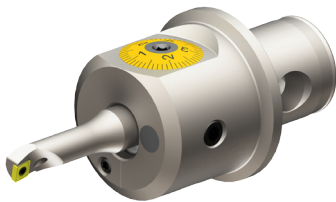
- connection ER32 DIN 6499
- boring bars go through head
- Clamp tool in a collet chuck.



- connexion ER25 DIN 6499
- Passage libre des barres d'alésage à travers la tête
- Serrer l'outil dans un porte-pince

**B04/B08/KM**  
**Ausdrehkopf ø 3-88.1**

**Fine boring heads ø 3-88.1**

**Tête d'alésage fin ø 3-88.1**



| Bestell-Nr. /<br>Order number/<br>Code | D3/WH<br>System | D2 | BR1<br>min. | BR1<br>max. | L (A) | D1 | kg  |  |  |
|----------------------------------------|-----------------|----|-------------|-------------|-------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>WH modular ANALOG*</b>              |                 |    |             |             |       |    |     |                                                                                       |                                                                                       |
| B04.050.025.050                        | WH5             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| B04.063.025.050                        | WH6             | 55 | 3           | 88.1        | 50    | 16 | 1.1 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| <b>DIN 69893 HSK 63 A</b>              |                 |    |             |             |       |    |     |                                                                                       |                                                                                       |
| B08.806.055.095                        | HSK 63 A        | 55 | 3           | 88.1        | 95    | 16 | 1.7 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| <b>DIN 69871 AD 40</b>                 |                 |    |             |             |       |    |     |                                                                                       |                                                                                       |
| B08.440.055.090                        | ISO 40          | 55 | 3           | 88.1        | 90    | 16 | 2.1 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| <b>MAS BT 40</b>                       |                 |    |             |             |       |    |     |                                                                                       |                                                                                       |
| B08.540.055.090                        | BT40            | 55 | 3           | 88.1        | 90    | 16 | 2.2 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| <b>KM / ISO 26622</b>                  |                 |    |             |             |       |    |     |                                                                                       |                                                                                       |
| KM4.A55.016.060                        | KM40            | 55 | 3           | 88.1        | 60    | 16 | 0.6 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| KM5.A55.016.070                        | KM50            | 55 | 3           | 88.1        | 70    | 16 | 1.1 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| <b>zyl. Schaft / zyl. Shank</b>        |                 |    |             |             |       |    |     |                                                                                       |                                                                                       |
| U20.A55.K01.060                        | 20              | 55 | 3           | 88.1        | 60    | 16 | 1.1 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| U25.A55.K01.060                        | 25              | 55 | 3           | 88.1        | 60    | 16 | 1.1 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| W26.A55.016.060                        | 25.4<br>(1.00") | 55 | 3           | 88.1        | 60    | 16 | 1.1 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |
| W38.A55.016.060                        | 38.1<br>(1.50") | 55 | 3           | 88.1        | 60    | 16 | 1.4 | J00.204.010.008                                                                       | J00.204.010.016                                                                       |

- für Ausdrehstähe mit Schaftdurchmesser 16mm
- DurchmesserEinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm resp. über Nonius 0.002mm im Durchmesser
- mit Innenkühlung
- \*Ausdrehstähe durchschiebbar

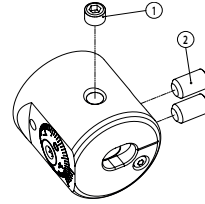
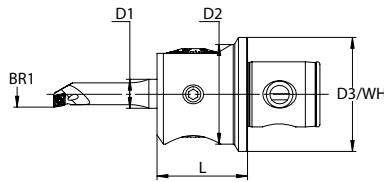
- for boring bars with a shank diameter of 16mm
- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- with inner coolant supply
- \*boring bars go through head



- pour barres d'alésage avec un diamètre de corps de 16mm
- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- Avec arrosage interne
- \*Passage libre des barres d'alésage à travers la tête

**B06/B09/PSC**  
**Ausdrehkopf ø 3-88.1**  
**DIGITAL**

**Fine boring heads ø 3-88.1**  
**DIGITAL**

**Tête d'alésage fin ø 3-88.1**  
**DIGITAL**



| Bestell-Nr. /<br>Order number/<br>Code | System   | D1 | ø A<br>min. | ø A<br>max. | L (A) | L1 | kg  |  |  |
|----------------------------------------|----------|----|-------------|-------------|-------|----|-----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>WH modular DIGITAL*</b>             |          |    |             |             |       |    |     |                                                                                    |                                                                                     |
| B06.050.025.050                        | WH5      | 55 | 3           | 88.1        | 50    | -  | 1.0 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |
| B06.063.025.050                        | WH6      | 55 | 3           | 88.1        | 50    | -  | 1.0 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |
| <b>DIN 69893 HSK 63 A</b>              |          |    |             |             |       |    |     |                                                                                    |                                                                                     |
| B09.806.055.095                        | HSK 63 A | 55 | 3           | 88.1        | 95    | 69 | 1.4 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |
| <b>DIN 69871 AD 40</b>                 |          |    |             |             |       |    |     |                                                                                    |                                                                                     |
| B09.440.055.090                        | ISO 40   | 55 | 3           | 88.1        | 90    | 70 | 1.9 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |
| <b>MAS BT 40</b>                       |          |    |             |             |       |    |     |                                                                                    |                                                                                     |
| B09.540.055.090                        | BT40     | 55 | 3           | 88.1        | 90    | 63 | 1.9 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |
| <b>PSC / ISO 26623 DIGITAL</b>         |          |    |             |             |       |    |     |                                                                                    |                                                                                     |
| PSC40-FBHO-DE-1665                     | PSC40    | 55 | 3           | 88.1        | 65    | -  | 1.9 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |
| PSC50-FBHO-DE-1670                     | PSC50    | 55 | 3           | 88.1        | 70    | -  | 1.9 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |
| PSC63-FBHO-DE-1690                     | PSC63    | 55 | 3           | 88.1        | 90    | -  | 1.9 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |
| <b>KM / ISO 26622 DIGITAL</b>          |          |    |             |             |       |    |     |                                                                                    |                                                                                     |
| KM4.A55.016.060-D                      | KM40     | 55 | 3           | 88.1        | 60    | 16 | 0.6 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |
| KM5.A55.016.070-D                      | KM50     | 55 | 3           | 88.1        | 70    | 16 | 1.1 | J00.204.010.008                                                                    | J00.204.010.016                                                                     |

- für Ausdrehstähle mit Schaftdurchmesser 16mm
- Einstellgenauigkeit 0.001mm im Durchmesser
- direktes Wegmeßsystem (kein Umkehrspiel)
- keine Batterie und Auswerteelektronik im Werkzeug verbaut
- sehr einfache Bedienung
- digital und analog einsetzbar
- mit Innenkühlung
- \*Ausdrehstähle durchschiebbar
- Anzeigeeinheit muss separat bestellt werden (C09.028.024.077)

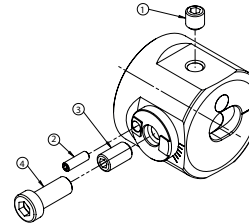
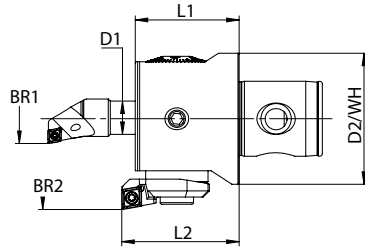
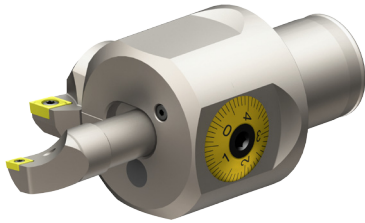
- for boring bars with a shank diameter of 16mm
- 0.001 accuracy in diameter
- direct measurement system (no backlash)
- no battery and electronic evaluation unit inside the tool
- very easy operation
- for digital and analog use
- with inner coolant supply
- \*boring bars go through head
- Display unit must be ordered separately (C09.028.024.077)









- Précision de réglage de 0,001 mm sur le diamètre
- système de mesure directe (sans jeu)
- pas de batterie ni de dispositif électronique d'évaluation installé dans l'outil
- fonctionnement très simple
- pour une utilisation numérique et analogique
- Avec arrosage interne
- \*Passage libre des barres d'alésage à travers la tête
- Unité d'affichage doit être commandé séparément (C09.028.024.077)

**B05 VARIO HEAD**  
**Ausdrehkopf ø 3-152.1**

**Fine boring heads ø 3-152.1**

**Tête d'alésage fin ø 3-152.1**



| Bestell-Nr. /<br>Order number /<br>Code | D2/WH | BR1<br>min. -<br>max. | BR2<br>min. -<br>max. | L1 | L2 | D1 | kg  |  |  |  |  |
|-----------------------------------------|-------|-----------------------|-----------------------|----|----|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| B05.063.025.050                         | WH6   | 3 -<br>88.1           | 87.75 -<br>152.1      | 50 | 57 | 16 | 1.5 |  |  |  |  |

- für Ausdrehstähle mit Schaftdurchmesser 16mm
- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm resp. über Nonius 0.002mm im Durchmesser
- mit Innenkühlung
- Ausdrehstähle durchschiebbar
- erweiterbar von ø3 bis ø152.1

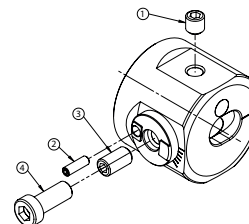
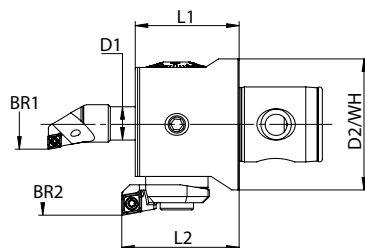
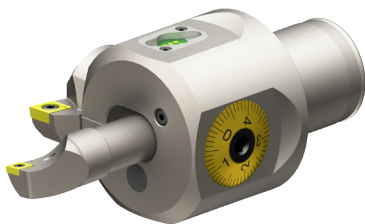
- for boring bars with a shank diameter of 16mm
- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- with inner coolant supply
- boring bars go through head
- can be upgraded from ø3 up to ø152.1









- pour barres d'alésage avec un diamètre de corps de 16mm
- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- Avec arrosage interne
- Passage libre des barres d'alésage à travers la tête
- extensible de ø3 à ø152.1

**B07 VARIO HEAD**  
**Ausdrehkopf ø 3-152.1**  
**DIGITAL**

**Fine boring heads ø 3-152.1**  
**DIGITAL**

**Tête d'alésage fin ø 3-152.1**  
**DIGITAL**



| Bestell-Nr. /<br>Order number /<br>Code | System | Ø A<br>min. -<br>max. | Ø A1<br>min. -<br>max. | L1 | L2 | kg  |  |  |  |  |
|-----------------------------------------|--------|-----------------------|------------------------|----|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| B07.063.025.050                         | WH6    | 3 -<br>88.1           | 87.75 -<br>152.1       | 50 | 57 | 1.5 |  |  |  |  |

- für Ausdrehstähle mit Schaftdurchmesser 16mm
- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.001mm im Durchmesser
- mit Innenkühlung
- Ausdrehstähle durchschiebbar
- erweiterbar von ø3 bis ø152.1
- Anzeigeeinheit muss separat bestellt werden (C09.028.024.077)

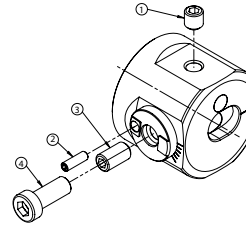
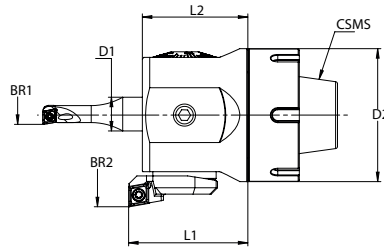
- for boring bars with a shank diameter of 16mm
- diametrical adjustment with maximal reduced reversal backlash
- 0.001mm diametrical adjustment
- with inner coolant supply
- boring bars go through head
- can be upgraded from ø3 up to ø152.1
- Display unit must be ordered separately (C09.028.024.077)

- pour barres d'alésage avec un diamètre de corps de 16mm
- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,001mm
- Avec arrosage interne
- Passage libre des barres d'alésage à travers la tête
- extensible de ø3 à ø152.1
- Unité d'affichage doit être commandé séparément (C09.028.024.077)





**ECOLINE B05 VARIO HEAD**  
Ausdrehkopf ø 3-152.1

**Fine boring heads ø 3-152.1**

**Tête d'alésage fin ø 3-152.1**



**ECO LINE**

| Bestell-Nr. /<br>Order number/<br>Code | D2/<br>CSMS | BR1<br>min. -<br>max. | BR2<br>min. -<br>max. | L1   | L2 | D1 | kg  |  |  |  |  |
|----------------------------------------|-------------|-----------------------|-----------------------|------|----|----|-----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>VARIO ER40</b>                      |             |                       |                       |      |    |    |     |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| B05.040.003.152                        | 63 / ER40   | 3 -<br>88.1           | 87.75 -<br>152.1      | 51.1 | 57 | 16 | 1.5 | J00.204.010.010                                                                    | J00.205.003.014                                                                     | J00.205.010.018                                                                     | J00.205.010.025                                                                     |

- Schnittstelle ER40 DIN6499
- für Ausdrehstäbe mit Schaftdurchmesser 16mm
- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0,01mm resp. über Nonius 0,002mm im Durchmesser
- mit Innenkühlung
- Ausdrehstäbe durchschiebbar
- Werkzeug in einem Spannzangenfutter spannen.
- erweiterbar von ø3 bis ø152.1

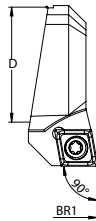
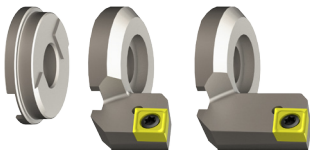
- connection ER32 DIN 6499
- for boring bars with a shank diameter of 16mm
- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- with inner coolant supply
- boring bars go through head
- Clamp tool in a collet chuck.
- can be upgraded from ø3 up to ø152.1


- connexion ER25 DIN 6499
- pour barres d'alésage avec un diamètre de corps de 16mm
- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- Avec arrosage interne
- Passage libre des barres d'alésage à travers la tête
- Serrer l'outil dans un porte-pince
- extensible de ø3 à ø152.1

**Zubehör**

**Accessory part**

**pièce accessoire**

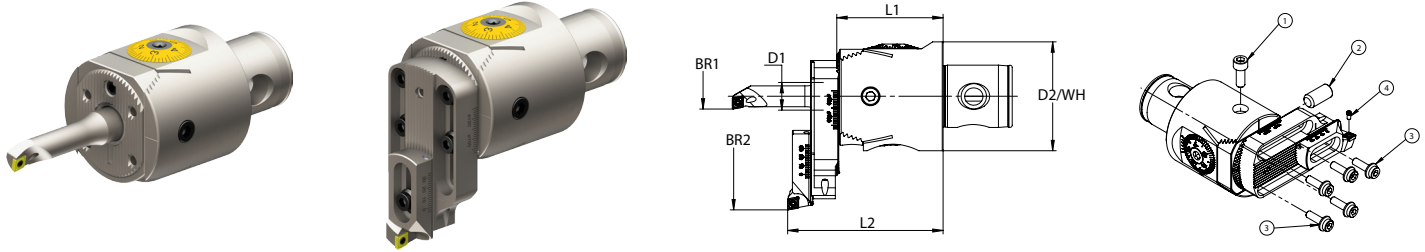





| Bestell-Nr. /<br>Order number/<br>Code                     |               | BR1 min. - max.                                          | kg  |  |
|------------------------------------------------------------|---------------|----------------------------------------------------------|-----|-------------------------------------------------------------------------------------|
| Wendeplattenhalter /<br>Insert holder /<br>porte-plaquette |               |                                                          |     |                                                                                     |
| C14.726.001.009                                            | CC.. 09 T3 .. | ø 87.75 - 101.1<br>(ø 114.1)*                            | 0.1 | J00.254.040.009                                                                     |
| C14.726.002.009                                            | CC.. 09 T3 .. | ø 105.75 - 119.0<br>(ø 132.0)*                           | 0.1 | J00.254.040.009                                                                     |
| C14.726.003.009                                            | CC.. 09 T3 .. | ø 125.75 - 139.0<br>(ø 152.0)*                           | 0.1 | J00.254.040.009                                                                     |
| Adapter                                                    |               | * mit Adapter<br>* Adapter required<br>* Espaceur requis |     |                                                                                     |
| J00.803.001.006                                            | f = 6.5mm     | ø 114.0 / ø 132.0 /<br>ø 152.0                           | 0.1 |                                                                                     |

**B10 MULTI HEAD**  
Ausdrehkopf ø 3-320

Fine boring heads ø 3-320

Tête d'alésage fin ø 3-320



| Bestell-Nr. /<br>Order number /<br>Code | WH<br>CSMS | D2 | BR1<br>min.-<br>max. | BR2<br>min.-<br>max. | L1 | L2  | D1 | kg  |  |  |  |
|-----------------------------------------|------------|----|----------------------|----------------------|----|-----|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>WH6 modular*</b>                     |            |    |                      |                      |    |     |    |     |                                                                                     |                                                                                     |                                                                                     |
| B10.063.025.060                         | WH6        | 63 | 3 - 88.1             | 86 - 320             | 60 | 89  | 16 | 1.5 | J00.210.006.016                                                                     | J00.210.010.020                                                                     | J00.256.005.016                                                                     |
| <b>DIN 69893 HSK 63 A</b>               |            |    |                      |                      |    |     |    |     |                                                                                     |                                                                                     |                                                                                     |
| B10.806.063.095                         | HSK 63 A   | 63 | 3 - 88.1             | 86 - 320             | 96 | 125 | 16 | 2.0 | J00.210.006.016                                                                     | J00.210.010.020                                                                     | J00.256.005.016                                                                     |
| <b>DIN 69871 AD 40</b>                  |            |    |                      |                      |    |     |    |     |                                                                                     |                                                                                     |                                                                                     |
| B10.440.063.090                         | ISO 40     | 63 | 3 - 88.1             | 86 - 320             | 91 | 120 | 16 | 2.2 | J00.210.006.016                                                                     | J00.210.010.020                                                                     | J00.256.005.016                                                                     |
| <b>MAS BT 40</b>                        |            |    |                      |                      |    |     |    |     |                                                                                     |                                                                                     |                                                                                     |
| B10.540.063.090                         | BT40       | 63 | 3 - 88.1             | 86 - 320             | 91 | 120 | 16 | 2.2 | J00.210.006.016                                                                     | J00.210.010.020                                                                     | J00.256.005.016                                                                     |
| <b>KM / ISO 26622</b>                   |            |    |                      |                      |    |     |    |     |                                                                                     |                                                                                     |                                                                                     |
| KM5.MH1.016.075                         | KM50TS     | 63 | 3 - 88.1             | 86 - 320             | 76 | 106 | 16 | 1.5 | J00.210.006.016                                                                     | J00.210.010.020                                                                     | J00.256.005.016                                                                     |

- für Ausdrehstähle mit Schaftdurchmesser 16mm
- DurchmesserEinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm resp. über Nonius 0.002mm im Durchmesser
- mit Innenkühlung
- \*Ausdrehstähle durchschiebbar

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



- pour barres d'alésage avec un diamètre de corps de 16mm
- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- Avec arrosage interne
- \*Passage libre des barres d'alésage à travers la tête

**Zubehör**

**Accessory part**

**pièce accessoire**

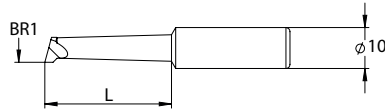
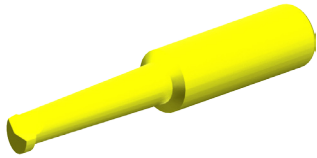


| Bestell-Nr. /<br>Order number /<br>Code                                      | D                                               | BR1<br>min.         | BR1<br>max.         | kg   |  |  |
|------------------------------------------------------------------------------|-------------------------------------------------|---------------------|---------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Aluminium-Brücken /<br/>Aluminium bridges /<br/>Traverses d'aluminium</b> |                                                 |                     |                     |      |                                                                                     |                                                                                       |
| B12.086.164.080                                                              | 80                                              | 86                  | 164                 | 0.1  | J00.256.005.016                                                                     |                                                                                       |
| B12.162.320.158                                                              | 158                                             | 162                 | 320                 | 0.2  | J00.256.005.016                                                                     |                                                                                       |
| <b>Wendeplattenhalter /<br/>Insert holders /<br/>Porte-plaquettes</b>        |                                                 |                     |                     |      |                                                                                     |                                                                                       |
|                                                                              | <b>Wendeplatte /<br/>Insert /<br/>Plaquette</b> | <b>ø A<br/>min.</b> | <b>ø A<br/>max.</b> |      |                                                                                     |                                                                                       |
| B56.048.006.014                                                              | CC .. 06 02 ..                                  | 86                  | 320                 | 0.05 | J00.256.005.016                                                                     | J00.254.025.006                                                                       |
| B56.048.009.014                                                              | CC .. 09 T3 ..                                  | 86                  | 320                 | 0.05 | J00.256.005.016                                                                     | J00.254.040.009                                                                       |
| <b>Gegengewicht /<br/>Counter weight /<br/>Contre-poids</b>                  |                                                 |                     |                     |      |                                                                                     |                                                                                       |
| B12.038.045.012                                                              |                                                 |                     |                     | 0.1  | J00.256.005.016                                                                     |                                                                                       |

**B64**  
**Ausdrehstähle**  
**mit Hartmetallschneide**

**Boring bars**  
**with carbide tips**

**Barres d'alésage avec**  
**arête de coupe en carbure**



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | L  | HM Sorte /<br>Carbide quality /<br>Qualité du carbure | kg   |
|----------------------------------------|-------------|-------------|----|-------------------------------------------------------|------|
| B64.003.010.020                        | 3.0         | 8.0         | 20 | K10                                                   | 0.05 |
| B64.003.020.020                        | 3.0         | 8.0         | 20 | P20                                                   | 0.05 |
| B64.004.010.023                        | 4.0         | 9.0         | 23 | K10                                                   | 0.05 |
| B64.004.020.023                        | 4.0         | 9.0         | 23 | P20                                                   | 0.05 |
| B64.005.010.025                        | 5.0         | 10.0        | 25 | K10                                                   | 0.05 |
| B64.005.020.025                        | 5.0         | 10.0        | 25 | P20                                                   | 0.05 |
| B64.006.010.028                        | 6.0         | 11.0        | 28 | K10                                                   | 0.05 |
| B64.006.020.028                        | 6.0         | 11.0        | 28 | P20                                                   | 0.05 |
| B64.007.010.031                        | 7.0         | 12.0        | 31 | K10                                                   | 0.05 |
| B64.007.020.031                        | 7.0         | 12.0        | 31 | P20                                                   | 0.05 |
| B64.009.010.034                        | 9.0         | 14.0        | 34 | K10                                                   | 0.05 |
| B64.009.020.034                        | 9.0         | 14.0        | 34 | P20                                                   | 0.05 |
| B64.010.010.037                        | 10.0        | 15.0        | 37 | K10                                                   | 0.05 |
| B64.010.020.037                        | 10.0        | 15.0        | 37 | P20                                                   | 0.05 |
| B64.012.010.040                        | 12.0        | 17.0        | 40 | K10                                                   | 0.05 |
| B64.012.020.040                        | 12.0        | 17.0        | 40 | P20                                                   | 0.05 |
| B64.014.010.043                        | 14.0        | 19.0        | 43 | K10                                                   | 0.05 |
| B64.014.020.043                        | 14.0        | 19.0        | 43 | P20                                                   | 0.05 |

- Hartmetall Sorte K10 für Guss, Aluminium usw.
- Hartmetall Sorte P20 für Stahl, Chromnickelstahl usw.

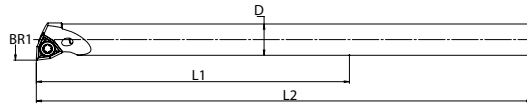
- carbide quality K10 for cast iron, aluminium etc.
- carbide quality P20 for steel, chrome nickel steel etc.


- qualité du carbure K10 pour la fonte, l'aluminium, etc.
- qualité du carbure P20 pour l'acier, l'acier nickel-chrome, etc.

**B74**  
**Ausdrehstähle**  
**mit Hartmetallschneide**

**Boring bars**  
**with carbide tips**

**Barres d'alésage avec**  
**arête de coupe en carbure**



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D  | L   | L1  | Wendeplatte /<br>Insert /<br>Plaquette | kg  |  |
|----------------------------------------|-------------|-------------|----|-----|-----|----------------------------------------|-----|-------------------------------------------------------------------------------------|
| B74.006.002.080                        | 5.8         | 11.2        | 5  | 50  | 85  | WC .. 02 01 ..                         | 0.1 | J00.254.020.004                                                                     |
| B74.008.002.100                        | 7.8         | 13.2        | 6  | 60  | 95  | WC .. 02 01 ..                         | 0.1 | J00.254.020.004                                                                     |
| B74.010.006.120                        | 9.8         | 15.0        | 8  | 80  | 120 | CC .. 06 02 ..                         | 0.1 | J00.254.025.005                                                                     |
| B74.014.006.140                        | 13.8        | 19.0        | 10 | 100 | 140 | CC .. 06 02 ..                         | 0.1 | J00.254.025.006                                                                     |
| B74.018.009.170                        | 17.8        | 23.0        | 12 | 120 | 170 | CC .. 09 T3 ..                         | 0.3 | J00.254.040.009                                                                     |
| B74.022.009.210                        | 21.8        | 27.0        | 16 | 160 | 210 | CC .. 09 T3 ..                         | 0.5 | J00.254.040.009                                                                     |

• Länge L bezeichnet die maximale Ausdrehlänge

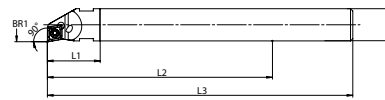
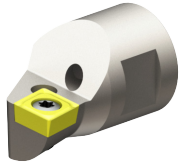
• length L stands for the maximal boring depth


• Longueur L désigne la profondeur maximum d'alésage

**B94**  
Hartmetall Ausdrehstähle  
mit Schraubverbindung

Solid carbide boring bars  
with thread connection

Barres d'alésage en  
carbure avec raccord à vis



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D  | L2<br>max. | L1 | Wendeplatte /<br>Insert /<br>Plaquette | für Schaft /<br>for shank /<br>pour arbre | kg   |  |
|----------------------------------------|-------------|-------------|----|------------|----|----------------------------------------|-------------------------------------------|------|-------------------------------------------------------------------------------------|
| B94.009.006.018                        | 8.75        | 14.1        | 8  | 56         | 18 | CC..06 02..                            | B84.008.005.073                           | 0,05 | J00.254.025.005                                                                     |
| B94.010.006.018                        | 9.75        | 15.1        | 9  | 63         | 18 | CC..06 02..                            | B84.009.005.080                           | 0,05 | J00.254.025.005                                                                     |
| B94.011.006.023                        | 10.75       | 16.1        | 10 | 70         | 23 | CC..06 02..                            | B84.010.006.082                           | 0,05 | J00.254.025.005                                                                     |
| B94.012.006.023                        | 11.75       | 17.1        | 11 | 77         | 23 | CC..06 02..                            | B84.011.006.089                           | 0,05 | J00.254.025.005                                                                     |
| B94.013.006.023                        | 12.75       | 18.1        | 12 | 84         | 23 | CC..06 02..                            | B84.012.006.096                           | 0,05 | J00.254.025.006                                                                     |
| B94.014.006.023                        | 13.75       | 19.1        | 13 | 91         | 23 | CC..06 02..                            | B84.013.006.103                           | 0,05 | J00.254.025.006                                                                     |
| B94.015.006.023                        | 14.75       | 20.1        | 14 | 98         | 23 | CC..06 02..                            | B84.014.006.110                           | 0,05 | J00.254.025.006                                                                     |
| B94.016.006.023                        | 15.75       | 21.1        | 14 | 98         | 23 | CC..06 02..                            | B84.014.006.110                           | 0,05 | J00.254.025.006                                                                     |
| B94.017.006.027                        | 16.75       | 22.1        | 16 | 112        | 27 | CC..06 02..                            | B84.016.010.120                           | 0,05 | J00.254.025.006                                                                     |
| B94.018.006.027                        | 17.75       | 23.1        | 16 | 112        | 27 | CC..06 02..                            | B84.016.010.120                           | 0,05 | J00.254.025.006                                                                     |
| B94.020.006.027                        | 19.75       | 25.1        | 16 | 112        | 27 | CC..06 02..                            | B84.016.010.120                           | 0,05 | J00.254.025.006                                                                     |
| B94.022.006.027                        | 21.75       | 27.1        | 16 | 112        | 27 | CC..06 02..                            | B84.016.010.120                           | 0,05 | J00.254.025.006                                                                     |
| B94.025.006.027                        | 24.75       | 30.1        | 16 | 112        | 27 | CC..06 02..                            | B84.016.010.120                           | 0,05 | J00.254.025.006                                                                     |
| B94.028.006.027                        | 27.75       | 33.1        | 16 | 112        | 27 | CC..06 02..                            | B84.016.010.120                           | 0,05 | J00.254.025.006                                                                     |
| B94.032.006.027                        | 31.75       | 37.1        | 16 | 112        | 27 | CC..06 02..                            | B84.016.010.120                           | 0,05 | J00.254.025.006                                                                     |
| B94.035.006.027                        | 34.75       | 40.1        | 16 | 112        | 27 | CC..06 02..                            | B84.016.010.120                           | 0,05 | J00.254.025.006                                                                     |

- zum Ausdrehen von langen Bohrungen
- sehr gute Dämpfungseigenschaften durch Hartmetallschaft
- mit Innenkühlung

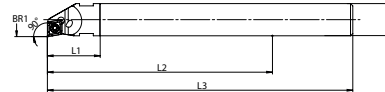
- to machine long holes
- high end absorbability by solid carbide shank
- with inner coolant supply

- pour l'alésage de longs trous
- très bonnes propriétés d'amortissement grâce au corps en carbure
- avec arrosage interne

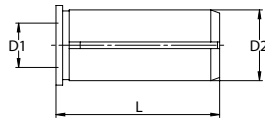
**B84**  
Hartmetallschaft

Solid carbide shank

Corps en carbure



| Bestell-Nr. /<br>Order number/<br>Code | D  | L3  | M   | für Kopf /<br>for head /<br>pour la tête     | kg  |
|----------------------------------------|----|-----|-----|----------------------------------------------|-----|
| B84.008.005.073                        | 8  | 91  | M5  | B94.009.006.018                              | 0,1 |
| B84.009.005.080                        | 9  | 98  | M5  | B94.010.006.018                              | 0,1 |
| B84.010.006.082                        | 10 | 105 | M6  | B94.011.006.023                              | 0,1 |
| B84.011.006.089                        | 11 | 112 | M6  | B94.012.006.023                              | 0,1 |
| B84.012.006.096                        | 12 | 119 | M6  | B94.013.006.023                              | 0,1 |
| B84.013.006.103                        | 13 | 126 | M6  | B94.014.006.023                              | 0,2 |
| B84.014.006.110                        | 14 | 133 | M6  | B94.015/016.006.023                          | 0,2 |
| B84.016.010.120                        | 16 | 147 | M10 | B94.017/018/020/022/025//028/032/035.006.027 | 0,3 |

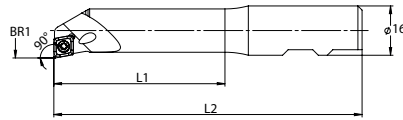
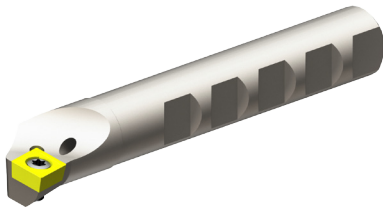



| Bestell-Nr. /<br>Order number /<br>Code | D2 | D1 | L  | kg  |
|-----------------------------------------|----|----|----|-----|
| B24.016.004.037                         | 16 | 4  | 37 | 0.1 |
| B24.016.005.037                         | 16 | 5  | 37 | 0.1 |
| B24.016.006.037                         | 16 | 6  | 37 | 0.1 |
| B24.016.008.037                         | 16 | 8  | 37 | 0.1 |
| B24.016.009.037                         | 16 | 9  | 37 | 0.1 |
| B24.016.010.037                         | 16 | 10 | 37 | 0.1 |
| B24.016.011.037                         | 16 | 11 | 37 | 0.1 |
| B24.016.012.037                         | 16 | 12 | 37 | 0.1 |
| B24.016.013.037                         | 16 | 13 | 37 | 0.1 |
| B24.016.014.037                         | 16 | 14 | 37 | 0.1 |

**B54**  
Ausdrehstähle ø9.75-30.1

**Boring bars ø9.75-30.1**

**Barres d'alésage ø9.75-30.1**



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | L1<br>max. | L2  | Wendeplatte /<br>Insert /<br>Plaquette | kg  |  |
|----------------------------------------|-------------|-------------|------------|-----|----------------------------------------|-----|------------------------------------------------------------------------------------|
| B54.010.006.075                        | 9.75        | 15.1        | 30         | 75  | CC..06 02..                            | 0.1 | J00.254.025.006                                                                    |
| B54.012.006.080                        | 11.75       | 17.1        | 37         | 80  | CC..06 02..                            | 0.1 | J00.254.025.006                                                                    |
| B54.014.006.085                        | 13.75       | 19.1        | 43         | 85  | CC..06 02..                            | 0.1 | J00.254.025.006                                                                    |
| B54.015.006.090                        | 14.75       | 20.1        | 51         | 90  | CC..06 02..                            | 0.1 | J00.254.025.006                                                                    |
| B54.016.006.095                        | 15.75       | 21.1        | 57         | 95  | CC..06 02..                            | 0.1 | J00.254.025.006                                                                    |
| B54.018.006.100                        | 17.75       | 23.1        | 67         | 100 | CC..06 02..                            | 0.1 | J00.254.025.006                                                                    |
| B54.020.006.105                        | 19.75       | 25.1        | 72         | 105 | CC..06 02..                            | 0.2 | J00.254.025.006                                                                    |
| B54.020.009.105                        | 19.75       | 25.1        | 72         | 105 | CC..09 T3..                            | 0.2 | J00.254.040.009                                                                    |
| B54.022.009.110                        | 21.75       | 27.1        | 77         | 110 | CC..09 T3..                            | 0.2 | J00.254.040.009                                                                    |
| B54.025.006.115                        | 24.75       | 30.1        | 82         | 115 | CC..06 02..                            | 0.2 | J00.254.025.006                                                                    |
| B54.025.009.115                        | 24.75       | 30.1        | 82         | 115 | CC..09 T3..                            | 0.2 | J00.254.040.009                                                                    |

• mit Innenkühlung

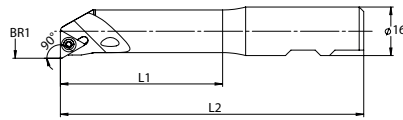
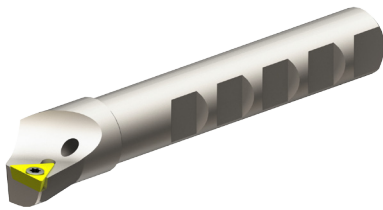
• with inner coolant supply


• avec arrosage interne

**B54**  
Ausdrehstähle ø9.75-30.1

**Boring bars ø9.75-30.1**

**Barres d'alésage ø9.75-30.1**



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | L1<br>max. | L2  | Wendeplatte /<br>Insert /<br>Plaquette | kg  |  |
|----------------------------------------|-------------|-------------|------------|-----|----------------------------------------|-----|--------------------------------------------------------------------------------------|
| B54.010.T06.075                        | 9.75        | 15.1        | 30         | 75  | TB..06 01..                            | 0.1 | J00.254.025.006                                                                      |
| B54.012.T06.080                        | 11.75       | 17.1        | 37         | 80  | TB..06 01..                            | 0.1 | J00.254.025.006                                                                      |
| B54.014.T09.085                        | 13.75       | 19.1        | 43         | 85  | TP..09 02..                            | 0.1 | J00.254.040.009                                                                      |
| B54.015.T09.090                        | 14.75       | 20.1        | 51         | 90  | TP..09 02..                            | 0.1 | J00.254.040.009                                                                      |
| B54.016.T09.095                        | 15.75       | 21.1        | 57         | 95  | TP..09 02..                            | 0.1 | J00.254.040.009                                                                      |
| B54.018.T09.100                        | 17.75       | 23.1        | 67         | 100 | TP..09 02..                            | 0.1 | J00.254.040.009                                                                      |
| B54.020.T11.105                        | 19.75       | 25.1        | 72         | 105 | TP..11 03..                            | 0.2 | J00.254.040.009                                                                      |
| B54.025.T11.115                        | 24.75       | 30.1        | 82         | 115 | TP..11 03..                            | 0.2 | J00.254.040.009                                                                      |

• mit Innenkühlung

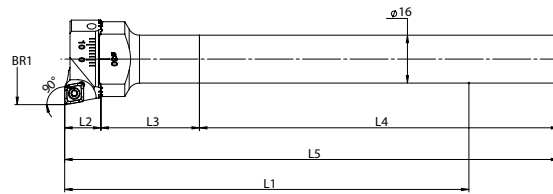
• with inner coolant supply

• avec arrosage interne

**B84**  
Hartmetallschaft

Solid carbide shank

Corps en carbure



| Bestell-Nr. /<br>Order number /<br>Code | D  | L4  | M   | für Kopf /<br>for head /<br>pour la tête | kg  |
|-----------------------------------------|----|-----|-----|------------------------------------------|-----|
| B84.016.010.120                         | 16 | 120 | M10 | B56.030.048.033<br>B56.048.088.031       | 0.3 |

- sehr gute Dämpfungseigenschaften
- mit Innenkühlung

- high end absorbability
- with inner coolant supply

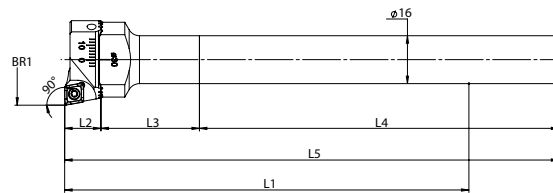
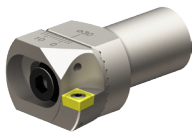
- très bonnes propriétés d'amortissement
- avec arrosage interne


**B56**

Kopf

Head

Tête



| Bestell-Nr. /<br>Order number /<br>Code | BR1<br>min. | BR1<br>max. | L1  | L5  | L3 | für Wendeplattenhalter /<br>for insert holder /<br>pour porte-inserts | kg  |  |
|-----------------------------------------|-------------|-------------|-----|-----|----|-----------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|
| B56.030.048.033                         | 29.75       | 48.1        | 135 | 165 | 33 | B56.030.006.012                                                       | 0.1 | J00.256.005.016                                                                       |
| B56.048.088.031                         | 47.75       | 88.1        | 135 | 165 | 31 | B56.048.xxx.014                                                       | 0.1 | J00.256.005.016                                                                       |

- mit Innenkühlung

- with inner coolant supply

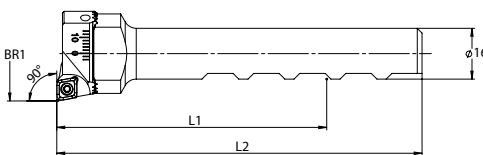
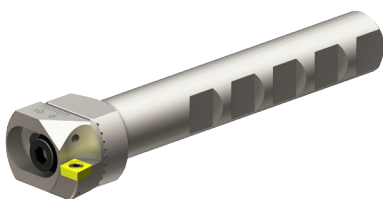
- avec arrosage interne


**B56**

Stahlschaft

Steel shanks

Corps d'acier



| Bestell-Nr. /<br>Order number /<br>Code | BR1<br>min. | BR1<br>max. | L1 | L2  | für Wendeplattenhalter /<br>for insert holder /<br>pour porte-inserts | kg  |  |
|-----------------------------------------|-------------|-------------|----|-----|-----------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|
| B56.030.048.115                         | 29.75       | 48.1        | 85 | 115 | B56.030.006.012                                                       | 0.1 | J00.256.005.016                                                                       |
| B56.048.088.115                         | 47.75       | 88.1        | 85 | 115 | B56.048.xxx.014                                                       | 0.1 | J00.256.005.016                                                                       |

- mit Innenkühlung

- with inner coolant supply

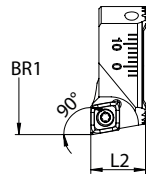
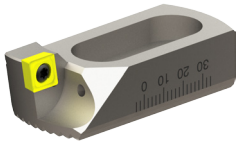
- avec arrosage interne


## B56

### Wendeplattenhalter

### Insert holders

### Porte -plaquettes



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | L2 | Wendeplatte /<br>Insert /<br>Plaquette | kg   |  |
|----------------------------------------|-------------|-------------|----|----------------------------------------|------|-----------------------------------------------------------------------------------|
| B56.030.006.012                        | 29.75       | 48.1        | 12 | CC .. 06 02 ..                         | 0.05 | J00.254.025.006                                                                   |
| B56.048.006.014                        | 47.75       | 88.1        | 14 | CC .. 06 02 ..                         | 0.05 | J00.254.025.006                                                                   |
| B56.048.009.014                        | 47.75       | 88.1        | 14 | CC .. 09 T3 ..                         | 0.05 | J00.254.040.009                                                                   |

- mit Innenkühlung
- Schäfte und Wendeplattenhalter müssen separat bestellt werden

- with inner coolant supply
- shanks and insert holder must be ordered separately

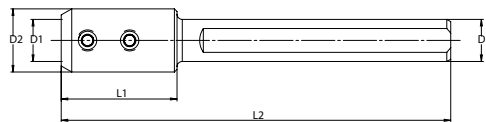
- avec arrosage interne
- Corps et porte-plaquettes doivent être commandés séparément


## B34

### Ausdrehstahl-Verlängerungen

### Boring bar extensions

### Extensions de barres d'alésage



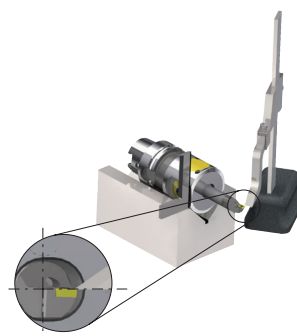
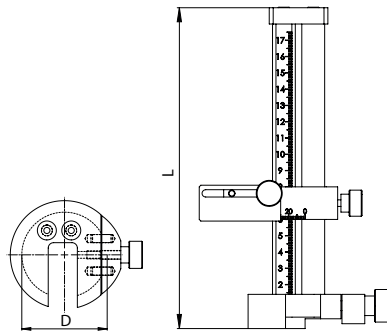
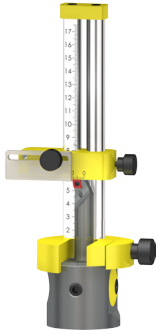
| Bestell-Nr. /<br>Order number/<br>Code | D3 | D1 | D2 | L2  | L1 | kg  |  |
|----------------------------------------|----|----|----|-----|----|-----|-------------------------------------------------------------------------------------|
| B34.016.010.128                        | 16 | 10 | 16 | 128 | –  | 0.2 | J00.234.006.003                                                                     |
| B34.016.016.148                        | 16 | 16 | 24 | 148 | 44 | 0.2 | J00.234.008.005                                                                     |

## B00

### Einstellvorrichtung

### Setting Jig

### Dispositif de réglage



| Bestell-Nr. /<br>Order number/<br>Code | L  | L1  | für Ausdrehkopf /<br>for fine boring head /<br>pour têtes d'alésage fin | kg  |
|----------------------------------------|----|-----|-------------------------------------------------------------------------|-----|
| B00.055.055.197                        | 55 | 197 | B04 / B08                                                               | 0.9 |
| B00.063.063.197                        | 63 | 197 | B06                                                                     | 0.9 |
| B00.163.063.207                        | 63 | 207 | B10                                                                     | 0.9 |

- Orientierung der Werkzeugschneide
- Einstellung der Ausraglänge der Bohrstange
- Grobeinstellung des Ausdrehdurchmessers

- alignment of the cutting edge
- adjustment of the boring bar projection length
- coarse diameter adjustment

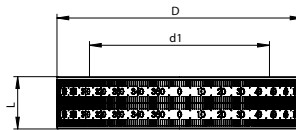
- alignement de l'arête de coupe
- réglage de la longueur de projection de la barre d'alésage
- réglage grossier du diamètre


## B16

### Universal-Auswuchtringe

### Universal balancing rings

### Anneaux d'équilibrage universels



| Bestell-Nr. /<br>Order number/<br>Code | D  | d1 | L  | kg  |  |
|----------------------------------------|----|----|----|-----|-------------------------------------------------------------------------------------|
| B16.055.075.016                        | 75 | 55 | 16 | 0.2 | J00.216.004.008                                                                     |
| B16.063.084.016                        | 84 | 63 | 16 | 0.2 | J00.216.004.008                                                                     |

- zum Auswuchten verstellbarer Werkzeuge, z.B. Ausdrehköpfe der Serien B04 - B06
- für die Ausdrehköpfe der Serie B04 und B06 (mit den Ausdrehstäben der Serie B54, B74, B84, B94) sind Einstelltabeln verfügbar, womit die Unwucht über 90% reduziert wird

- to balance adjustable tools, e.g. fine boring heads from series B04-B06
- balancing charts for fine boring heads from serie B04 and B06 (with boring bars from serie B54, B74, B84, B94) are available in order to reduce unbalance by 90%

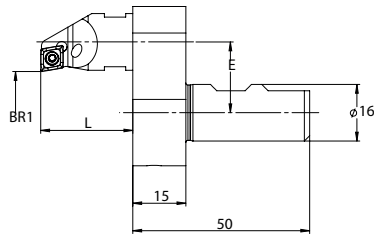
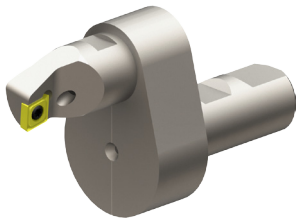
- pour l'équilibrage des outils réglables, par exemple les têtes d'alésage de la série B04 - B06
- pour les têtes d'alésage des séries B04 et B06 (avec les barres d'alésage des séries B54, B74, B84, B94) des tables de réglage sont disponibles, qui réduisent le balourd de plus de 90%.


## B85

### Überdrehhalter ø5.3-48.6

### Pin turning adapter ø5.3-48.6

### Support de tournage ø5.3-48.6



| Bestell-Nr. /<br>Order number/<br>Code | für Kopf /<br>for head /<br>pour la tête | BR1<br>min. | BR1<br>max. | E  | L  | Wendeplatte /<br>Insert /<br>Plaque | kg  |  |
|----------------------------------------|------------------------------------------|-------------|-------------|----|----|-------------------------------------|-----|-------------------------------------------------------------------------------------|
| B85.020.010.050                        | B94.035.006.027                          | 5.3         | 10.6        | 20 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.020.010.050                        | B94.032.006.027                          | 8.3         | 13.6        | 20 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.020.010.050                        | B94.028.006.027                          | 12.3        | 17.6        | 20 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.020.010.050                        | B94.025.006.027                          | 15.3        | 20.6        | 20 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.020.010.050                        | B94.022.006.027                          | 18.3        | 23.6        | 20 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.020.010.050                        | B94.020.006.027                          | 20.3        | 25.6        | 20 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.020.010.050                        | B94.018.006.027                          | 22.3        | 27.6        | 20 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.020.010.050                        | B94.017.006.027                          | 23.3        | 28.6        | 20 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.030.010.050                        | B94.035.006.027                          | 25.3        | 30.6        | 30 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.030.010.050                        | B94.032.006.027                          | 28.3        | 33.6        | 30 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.030.010.050                        | B94.028.006.027                          | 32.3        | 37.6        | 30 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.030.010.050                        | B94.025.006.027                          | 35.3        | 40.6        | 30 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.030.010.050                        | B94.022.006.027                          | 38.3        | 43.6        | 30 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.030.010.050                        | B94.020.006.027                          | 40.3        | 45.6        | 30 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.030.010.050                        | B94.018.006.027                          | 42.3        | 47.6        | 30 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |
| B85.030.010.050                        | B94.017.006.027                          | 43.3        | 48.6        | 30 | 27 | CC..06 02..                         | 0.2 | J00.285.010.016                                                                     |

- für die Verwendung in Ausdrehköpfen der Serien B04 bis B10
- mit Innenkühlung die maximale Überdrehlänge L kann mit der Verlängerung B86.016.016.032 oder B86.016.016.064 verlängert werden
- Überdrehhalter und Kopf müssen separat bestellt werden
- Achtung: Linkslauf

- for use in fine boring heads from series B04 to B10
- with inner coolant supply the maximal turning length L can be increased by extension B86.016.016.032 or B86.016.016.064
- pin turning adapter and head must be ordered separately
- Caution: anticlockwise rotation

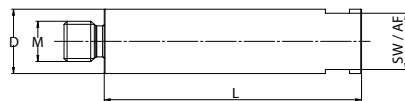
- pour utilisation dans les têtes d'alésage fin des séries B04 à B10
- La longueur maximale de tournage L peut être augmentée par l'extension B86.016.016.032 ou B86.016.016.064
- Support de tournage et tête doivent être commandés séparément
- Attention : rotation dans le sens contraire des aiguilles d'une montre

## B86

### Schaft-Verlängerungen

### Shank extensions

### Extensions de barres d'alésage



| Bestell-Nr. /<br>Order number/<br>Code | D  | L  | M   | SW /<br>AF | kg   |
|----------------------------------------|----|----|-----|------------|------|
| B86.016.016.032                        | 16 | 32 | M10 | 14         | 0.05 |
| B86.016.016.064                        | 16 | 64 | M10 | 14         | 0.1  |

- zur Verlängerung von den Schäften und Überdrehhaltern
- mit Innenkühlung
- aus gehärtetem Stahl

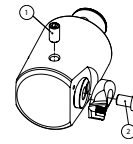
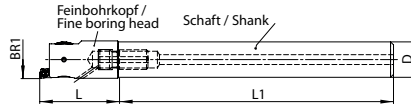
- to extend shanks and pin turning adapters
- with inner coolant supply
- made of hardened steel



- pour prolonger les corps et supports de tournage
- avec arrosage interne
- en acier trempé

**C00**  
High-Speed Feinbohrköpfe

High-Speed fine boring heads

Corps d'acier



| Bestell-Nr. /<br>Order number /<br>Code | D  | BR1<br>min. | BR1<br>max. | L  | für Wendeplattenhalter /<br>for insert holder /<br>pour porte-inserts | Wendeplatte /<br>Insert /<br>Plaquette | kg  |  |  |
|-----------------------------------------|----|-------------|-------------|----|-----------------------------------------------------------------------|----------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| C00.014.015.040                         | 14 | 14.7        | 17.1        | 40 | C02.005.017.002                                                       | WC . . 02 01 . .                       | 0.1 | J00.881.280.140                                                                     | J00.882.280.140                                                                     |
| C00.016.017.040                         | 16 | 16.7        | 20.1        | 40 | C02.005.017.002                                                       | WC . . 02 01 . .                       | 0.1 | J00.881.280.160                                                                     | J00.882.280.160                                                                     |
| C00.019.020.040                         | 18 | 19.7        | 24.1        | 40 | C02.005.017.002                                                       | WC . . 02 01 . .                       | 0.1 | J00.881.280.180                                                                     | J00.288.280.180                                                                     |

- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.002mm über Nonius im Durchmesser
- mit Innenkühlung
- Feinbohrkopf, Schaft und Wendeplattenhalter müssen separat bestellt werden

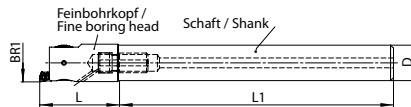
- diametrical adjustment with maximal reduced reversal backlash
- 0.002mm diametrical adjustment by nonius
- with inner coolant supply
- **fine boring head, shank and insert holder must be ordered separately**

- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- avec arrosage interne
- **Corps et porte-plaquettes doivent être commandés séparément**

**B84**  
Hartmetallschaft

Solid carbide shank

Corps en carbure

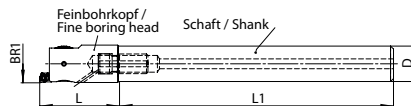


| Bestell-Nr. /<br>Order number /<br>Code | D  | L1  | M   | für Feinbohrkopf /<br>for fine boring head /<br>pour Têtes d'alésage fin | kg  |
|-----------------------------------------|----|-----|-----|--------------------------------------------------------------------------|-----|
| B84.014.006.110                         | 14 | 110 | M6  | C00.014.015.040                                                          | 0.2 |
| B84.016.010.120                         | 16 | 120 | M10 | C00.016.017.040                                                          | 0.3 |
| B84.018.010.100                         | 18 | 100 | M10 | C00.019.020.040                                                          | 0.4 |
| B84.018.010.140                         | 18 | 140 | M10 | C00.019.020.040                                                          | 0.5 |

**B82**  
Stahlschaft

Steel shank

Corps d'acier

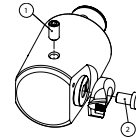
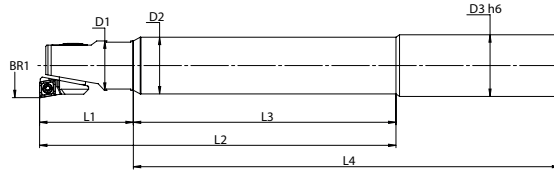




| Bestell-Nr. /<br>Order number /<br>Code | D  | L1 | M   | für Feinbohrkopf /<br>for fine boring head /<br>pour Têtes d'alésage fin | kg  |
|-----------------------------------------|----|----|-----|--------------------------------------------------------------------------|-----|
| B82.014.006.060                         | 14 | 60 | M6  | C00.014.015.040                                                          | 0.1 |
| B82.016.010.070                         | 16 | 70 | M10 | C00.016.017.040                                                          | 0.1 |
| B82.018.010.080                         | 18 | 80 | M10 | C00.019.020.040                                                          | 0.2 |

**C00/C01**  
**Feinbohrköpfe**  
**zum Einschrauben**

**Fine boring heads with**  
**thread connection**

**Têtes d'alésage fin**  
**avec connexion fileté**



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min.  | BR1<br>max.  | D1   | L1 | für Wendeplattenhalter /<br>for insert holder /<br>pour porte-inserts | kg  |  |  |  |
|----------------------------------------|--------------|--------------|------|----|-----------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| C00/C01.020.024.041                    | 23.9<br>29.9 | 31.1<br>37.1 | 22.5 | 41 | C14.011.024.006<br>C14.011.030.006                                    | 0.1 | J00.304.004.003                                                                     | J00.314.004.006                                                                     | J00.254.025.006                                                                     |
| C00/C01.025.031.045                    | 30.9<br>37.9 | 40.1<br>47.1 | 29   | 45 | C14.013.031.006<br>C14.013.038.006                                    | 0.1 | J00.304.005.004                                                                     | J00.314.005.008                                                                     | J00.254.025.006                                                                     |
| C00/C01.032.040.051                    | 39.9<br>47.9 | 51.1<br>59.1 | 37   | 51 | C14.017.040.006<br>C14.017.048.006                                    | 0.2 | J00.304.006.005                                                                     | J00.314.006.010                                                                     | J00.254.025.006                                                                     |

- Typ C00 (analog) Zustellgenauigkeit von 0.002mm über Nonius im Durchmesser
- Typ C01 (digital) Einstellgenauigkeit 0.001mm im Durchmesser direktes Wegmeßsystem (kein Umkehrspiel)
- mit Innenkühlung
- Feinbohrkopf, Schaft und Wendeplattenhalter müssen separat bestellt werden

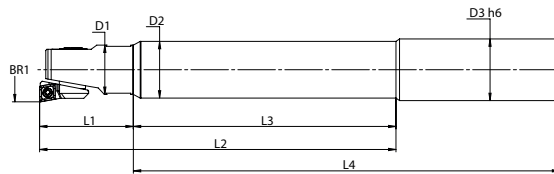
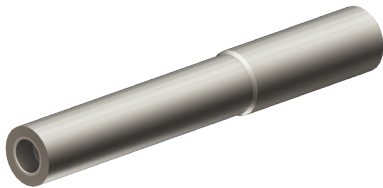
- Type C00 (analog) 0.002mm diametrical adjustment by nonius
- Type C01 (digital) 0.001 accuracy in diameter
- direct measurement system (no backlash)
- with inner coolant supply
- fine boring head, shank and insert holder must be ordered separately

- Type C00 (analog) 0.002mm diametrical adjustment by nonius
- Type C01 (digital) 0.001 accuracy in diameter
- direct measurement system (no backlash)
- avec arrosage interne
- Corps et porte-plaquettes doivent être commandés séparément

**B84**  
**Vollhartmetallschäfte**

**solid carbide shanks**

**Corps en carbure**



| Bestell-Nr. /<br>Order number/<br>Code | D3 | D2 | L2<br>max | L1+L4 | L4  | L3  | M   | für Einschraubkopf /<br>for screwable head /<br>pour tête vissable | kg  |
|----------------------------------------|----|----|-----------|-------|-----|-----|-----|--------------------------------------------------------------------|-----|
| B84.025.023.170                        | 25 | 23 | 146       | 211   | 170 | 105 | M12 | C00/D00.020.024.041                                                | 0.7 |
| B84.025.023.220                        | 25 | 23 | 196       | 261   | 220 | 155 | M12 | C00/D00.020.024.041                                                | 1.2 |
| B84.025.023.265                        | 25 | 23 | 241       | 306   | 265 | 200 | M12 | C00/D00.020.024.041                                                | 1.5 |
| B84.032.029.220                        | 32 | 29 | 200       | 265   | 220 | 155 | M16 | C00/D00.025.031.045                                                | 2.0 |
| B84.032.029.260                        | 32 | 29 | 240       | 305   | 260 | 195 | M16 | C00/D00.025.031.045                                                | 2.3 |
| B84.032.029.310                        | 32 | 29 | 290       | 355   | 310 | 245 | M16 | C00/D00.025.031.045                                                | 2.8 |
| B84.032.032.217                        | 32 | 32 | 203       | 268   | 217 | 152 | M16 | C00/D00.032.040.051                                                | 2.3 |
| B84.032.032.287                        | 32 | 32 | 273       | 338   | 287 | 222 | M16 | C00/D00.032.040.051                                                | 3.0 |
| B84.032.032.357                        | 32 | 32 | 343       | 408   | 357 | 292 | M16 | C00/D00.032.040.051                                                | 3.8 |

- Produktivitätsgewinn dank der unterdrückten Schwingungen können die Schnittdaten beträchtlich erhöht werden
- Verbesserte Oberflächengüte
- Verbesserte Prozesssicherheit
- Verbesserte Spanabfuhr
- Reduzierte Kosten pro Bauteil
- Für Bohrungstiefen bis 12xD

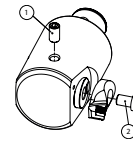
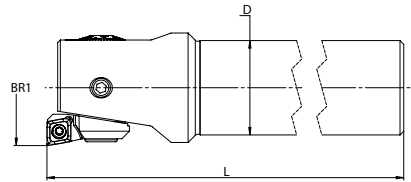
- productivity improvement: thanks to reduced vibrations, the cutting conditions can be improved remarkable
- better surface quality
- improved process stability
- better chip evacuation
- reduced cost per part
- for boring length up to 12xD

- Amélioration de la productivité : grâce à la réduction des vibrations, les conditions de coupe peuvent être améliorées de façon remarquable.
- Meilleure qualité de surface
- Meilleure stabilité du processus
- Meilleure évacuation des copeaux
- Réduction du coût par pièce
- pour longueur d'alésage jusqu'à 12xD



**ECO LINE Uxx\_F**  
Feinbohrköpfe Ø23.9-47.1

**Fine boring heads Ø23.9-47.1**

**Têtes d'alésage fin Ø23.9-47.1**



**ECO LINE**

| Bestell-Nr. /<br>Order number /<br>Code | D               | BR1<br>min.  | BR1<br>max.  | L   | Wendeplattenhalter /<br>insert holder /<br>porte-inserts | Wendeplatte /<br>Insert /<br>Plaquette | kg  |  |  |
|-----------------------------------------|-----------------|--------------|--------------|-----|----------------------------------------------------------|----------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| U20_F20.K21.150                         | 20              | 23.9<br>29.9 | 31.1<br>37.1 | 150 | C14.011.024.006*<br>C14.011.030.006                      | CC.. 06 02 ..                          | 0.3 | J00.304.004.003                                                                     | J00.314.004.006                                                                     |
| U25_F25.K21.170                         | 25              | 30.9<br>37.9 | 40.1<br>47.1 | 170 | C14.013.031.006*<br>C14.013.038.006                      | CC.. 06 02 ..                          | 0.6 | J00.304.005.004                                                                     | J00.314.005.008                                                                     |
| W19.F20.024.150                         | 19.1<br>(0.75") | 23.9<br>29.9 | 31.1<br>37.1 | 150 | C14.011.024.006<br>C14.011.030.006                       | CC.. 06 02 ..                          | 0.3 | J00.304.004.003                                                                     | J00.314.004.006                                                                     |
| W26.F25.031.170                         | 25.4<br>(1.00") | 30.9<br>37.9 | 40.1<br>47.1 | 170 | C14.013.031.006<br>C14.013.038.006                       | CC.. 06 02 ..                          | 0.6 | J00.304.005.004                                                                     | J00.314.005.008                                                                     |

- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm resp. über Nonius 0.002mm im Durchmesser
- mit Innenkühlung
- Werkzeug in einem Spannzangenfutter spannen.
- \*inklusive Wendeplattenhalter

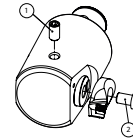
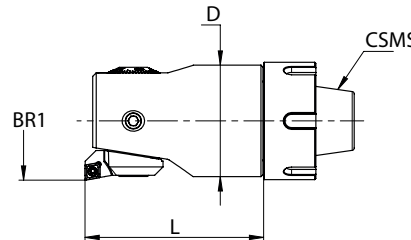
- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- with inner coolant supply
- Clamp tool in a collet chuck.
- \*insert holder included

- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- Avec arrosage interne
- Serrer l'outil dans un porte-pince.
- \*Porte-plaquette inclus



**ECO LINE Exx\_F**  
Feinbohrköpfe Ø39.9-105.1

**Fine boring heads Ø39.9-105.1**

**Têtes d'alésage fin Ø39.9-105.1**



**ECO LINE**

| Bestell-Nr. /<br>Order number /<br>Code | D /<br>CSMS | BR1<br>min.  | BR1<br>max.   | L  | Wendeplattenhalter /<br>insert holder /<br>porte-inserts | Wendeplatte /<br>Insert /<br>Plaquette | kg  |  |  |
|-----------------------------------------|-------------|--------------|---------------|----|----------------------------------------------------------|----------------------------------------|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| E25_F32.K21.065                         | 37 / ER25   | 39.9<br>47.9 | 51.1<br>59.1  | 65 | C14.017.040.006*<br>C14.017.048.006                      | CC.. 06 02 ..                          | 0.6 | J00.304.006.005                                                                       | J00.314.006.010                                                                       |
| E32_F42.K21.075                         | 47 / ER32   | 50.9<br>64.9 | 67.1<br>81.1  | 75 | C14.022.051.006*<br>C14.022.065.006                      | CC.. 06 02 ..                          | 1.1 | J00.304.008.006                                                                       | J00.314.008.012                                                                       |
| E40_F55.K21.085                         | 59 / ER40   | 66.9<br>84.9 | 87.1<br>105.1 | 85 | C14.030.067.009*<br>C14.030.067.006<br>C14.030.085.006/9 | CC.. 09 T3 ..<br>CC.. 06 02 ..         | 2.0 | J00.304.010.010                                                                       | J00.314.010.016                                                                       |

- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm resp. über Nonius 0.002mm im Durchmesser
- mit Innenkühlung
- Werkzeug in einem Spannzangenfutter spannen.
- \*inklusive Wendeplattenhalter

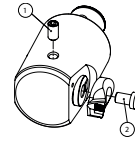
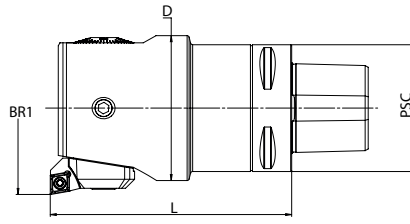
- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- with inner coolant supply
- Clamp tool in a collet chuck.
- \*insert holder included



- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- Avec arrosage interne
- Serrer l'outil dans un porte-pince.
- \*Porte-plaquette inclus

**PSC FBHS (ISO 26623)**  
**Feinbohrköpfe Ø23.9-203.1**  
**DIGITAL**

**Fine boring heads Ø23.9-203.1**  
**DIGITAL**

**Têtes d'alésage fin Ø23.9-203.1**  
**DIGITAL**

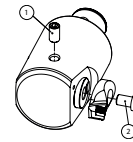
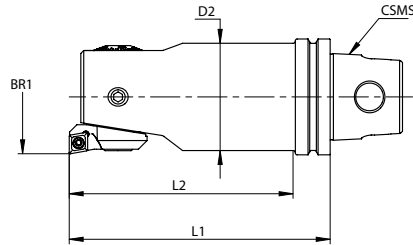
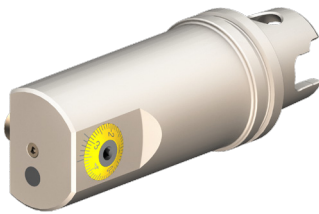




| Bestell-Nr. /<br>Order number/<br>Code | PSC           | BR1<br>min.                       | BR1<br>max.                       | L   | D    | Wendeplattenhalter /<br>insert holder /<br>porte-inserts                   | kg  |  |  |
|----------------------------------------|---------------|-----------------------------------|-----------------------------------|-----|------|----------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| PSC32-FBHS-DE-24                       | PSC 32 / 22.5 | 23.9<br>29.9                      | 31.1<br>37.1                      | 80  | 22.5 | C14.011.024.006<br>C14.011.030.006                                         | 0.3 | J00.304.004.003                                                                     | J00.314.004.006                                                                     |
| PSC32-FBHS-DE-31                       | PSC 32 / 29   | 30.9<br>37.9                      | 40.1<br>47.1                      | 90  | 29   | C14.013.031.006<br>C14.013.038.006                                         | 0.4 | J00.304.005.004                                                                     | J00.314.005.008                                                                     |
| PSC40-FBHS-DE-40                       | PSC 40 / 37   | 39.9<br>47.9                      | 51.1<br>59.1                      | 90  | 37   | C14.017.040.006<br>C14.017.048.006                                         | 0.6 | J00.304.006.005                                                                     | J00.314.006.010                                                                     |
| PSC50-FBHS-DE-51                       | PSC 50 / 47   | 50.9<br>64.9                      | 67.1<br>81.1                      | 90  | 47   | C14.022.051.006<br>C14.022.065.006                                         | 1.1 | J00.304.008.006                                                                     | J00.314.008.012                                                                     |
| PSC50-FBHS-DE-67                       | PSC 50 / 59   | 66.9<br>84.9                      | 87.1<br>105.1                     | 100 | 59   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9                    | 1.7 | J00.304.010.010                                                                     | J00.314.010.016                                                                     |
| PSC63-FBHS-DE-87                       | PSC 63 / 72   | 86.9<br>104.9                     | 116.1<br>134.1                    | 120 | 72   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9                    | 3.4 | J00.304.010.018                                                                     | J00.314.010.016                                                                     |
| PSC63-FBHS-DE-116                      | PSC 63 / 94   | 115.9<br>133.9<br>153.9<br>165.9* | 153.1<br>171.1<br>191.1<br>203.1* | 150 | 94   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9<br>C14.726.003.009 | 4.8 | J00.304.010.030                                                                     | J00.314.010.016                                                                     |

- Einstellgenauigkeit 0.001mm im Durchmesser
- direktes Wegmeßsystem (kein Umkehrspiel)
- keine Batterie und Auswerteelektronik im Werkzeug verbaut
- sehr einfache Bedienung
- digital und analog einsetzbar
- Anzeigeeinheit muss separat bestellt werden (C09.028.024.077)
- Wendeplattenhalter müssen separat bestellt werden
- \* Hinweis: Dieser Ausdrehbereich wird erreicht mit dem Wendeplattenhalter C14.726.003.009 in Kombination mit dem Distanzstück J00.803.001.006

- 0.001 accuracy in diameter
- direct measurement system (no backlash)
- no battery and electronic evaluation unit inside the tool
- very easy operation
- for digital and analog use
- Display unit must be ordered separately (C09.028.024.077)
- insert holder must be ordered separately
- \* Note: For this diameter range the insert holder C14.726.003.009 and the adapter J00.803.001.006 is required

- Précision de réglage de 0,001 mm sur le diamètre
- système de mesure directe (sans jeu)
- pas de batterie ni de dispositif électronique d'évaluation installé dans l'outil
- fonctionnement très simple
- pour une utilisation numérique et analogique
- Unité d'affichage doit être commandé séparément (C09.028.024.077)
- porte-plaquettes doivent être commandés séparément
- \* Remarque : Pour obtenir cette plage de diamètres, le porte-plaquette C14.726.003.009 et l'adaptateur J00.803.001.006 sont nécessaires

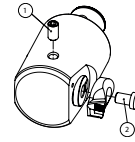
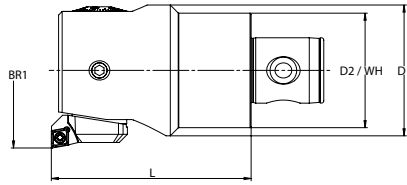
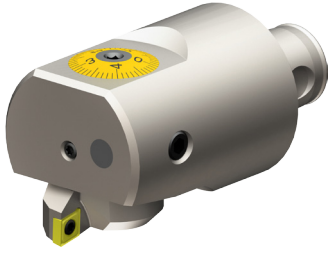




| Bestell-Nr. /<br>Order number /<br>Code | CSMS | BR1<br>min.              | BR1<br>max.              | L1  | L2  | D2   | Wendeplattenhalter /<br>insert holder /<br>porte-inserts                   | kg  |  |  |
|-----------------------------------------|------|--------------------------|--------------------------|-----|-----|------|----------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| KM3.F20.024.090                         | KM32 | 23.9<br>29.9             | 31.1<br>37.1             | 90  | 76  | 22.5 | C14.011.024.006<br>C14.011.030.006                                         | 0.2 | J00.304.004.003                                                                     | J00.314.004.006                                                                     |
| KM3.F25.031.100                         | KM32 | 30.9<br>37.9             | 40.1<br>47.1             | 100 | 86  | 29   | C14.013.031.006<br>C14.013.038.006                                         | 0.3 | J00.304.005.004                                                                     | J00.314.005.008                                                                     |
| KM4.F32.040.090                         | KM40 | 39.9<br>47.9             | 51.1<br>59.1             | 90  | 74  | 37   | C14.017.040.006<br>C14.017.048.006                                         | 0.5 | J00.304.006.005                                                                     | J00.314.006.010                                                                     |
| KM5.F42.051.090                         | KM50 | 50.9<br>64.9             | 67.1<br>81.1             | 90  | 70  | 47   | C14.022.051.006<br>C14.022.065.006                                         | 0.6 | J00.304.008.006                                                                     | J00.314.008.012                                                                     |
| KM5.F55.067.100                         | KM50 | 66.9<br>84.9             | 87.1<br>105.1            | 100 | 100 | 59   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9                    | 1.8 | J00.304.010.010                                                                     | J00.314.010.016                                                                     |
| KM5.F72.087.120                         | KM50 | 86.9<br>104.9            | 116.1<br>134.1           | 120 | 120 | 72   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9                    | 2.9 | J00.304.010.018                                                                     | J00.314.010.016                                                                     |
| KM6.F72.087.120                         | KM63 | 86.9<br>104.9            | 116.1<br>134.1           | 120 | 120 | 72   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9                    | 3.1 | J00.304.010.018                                                                     | J00.314.010.016                                                                     |
| KM6.F94.116.150                         | KM63 | 115.9<br>153.9<br>165.9* | 153.1<br>171.1<br>203.1* | 150 | 150 | 94   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9<br>C14.726.003.009 | 4.8 | J00.304.010.030                                                                     | J00.314.010.016                                                                     |

- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm resp. über Nonius 0.002mm im Durchmesser
- mit Innenkühlung
- Wendeplattenhalter müssen separat bestellt werden
- \* Hinweis: Dieser Ausdrehbereich wird erreicht mit dem Wendeplattenhalter 314.726.003.009 in Kombination mit dem Distanzstück 900.803.001.006

- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- with inner coolant supply
- insert holder must be ordered separately
- \* Note: For this diameter range the insert holder 314.726.003.009 and the adapter 900.803.001.006 is required

- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- Avec arrosage interne
- porte-plaquettes doivent être commandés séparément
- \* Remarque : Pour obtenir cette plage de diamètres, le porte-plaquette 314.726.003.009 et l'adaptateur 900.803.001.006 sont nécessaires



| Bestell-Nr. /<br>Order number /<br>Code | WH  | BR1<br>min.                       | BR1<br>max.                       | L   | D1   | Wendeplattenhalter /<br>insert holder /<br>porte-inserts                   | kg  |  |  |
|-----------------------------------------|-----|-----------------------------------|-----------------------------------|-----|------|----------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| C04.020.024.045                         | WH1 | 23.9<br>29.9                      | 31.1<br>37.1                      | 45  | 22.5 | C14.011.024.006<br>C14.011.030.006                                         | 0.1 | J00.304.004.003                                                                     | J00.314.004.006                                                                     |
| C04.025.031.056                         | WH2 | 30.9<br>37.9                      | 40.1<br>47.1                      | 56  | 29   | C14.013.031.006<br>C14.013.038.006                                         | 0.2 | J00.304.005.004                                                                     | J00.314.005.008                                                                     |
| C04.032.040.066                         | WH3 | 39.9<br>47.9                      | 51.1<br>59.1                      | 66  | 37   | C14.017.040.006<br>C14.017.048.006                                         | 0.4 | J00.304.006.005                                                                     | J00.314.006.010                                                                     |
| C04.040.051.075                         | WH4 | 50.9<br>64.9                      | 67.1<br>81.1                      | 75  | 47   | C14.022.051.006<br>C14.022.065.006                                         | 0.7 | J00.304.008.006                                                                     | J00.314.008.012                                                                     |
| C04.050.067.090                         | WH5 | 66.9<br>84.9                      | 87.1<br>105.1                     | 90  | 59   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9                    | 1.3 | J00.304.010.010                                                                     | J00.314.010.016                                                                     |
| C04.063.087.110                         | WH6 | 86.9<br>104.9                     | 116.1<br>134.1                    | 110 | 72   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9                    | 3.2 | J00.304.010.018                                                                     | J00.314.010.016                                                                     |
| C04.080.116.140                         | WH8 | 115.9<br>133.9<br>153.9<br>165.9* | 153.1<br>171.1<br>191.1<br>203.1* | 140 | 94   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9<br>C14.726.003.009 | 5.8 | J00.304.010.030                                                                     | J00.314.010.016                                                                     |

- DurchmesserEinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm resp. über Nonius 0.002mm im Durchmesser
- mit Innenkühlung
- Wendeplattenhalter müssen separat bestellt werden
- \* Hinweis: Dieser Ausdrehbereich wird erreicht mit dem Wendeplattenhalter C14.726.003.009 in Kombination mit dem Distanzstück J00.803.001.006

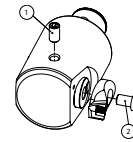
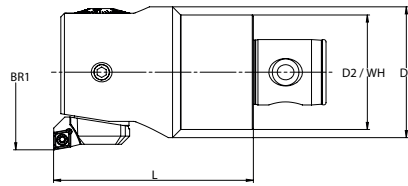
- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment resp. 0.002mm by nonius
- with inner coolant supply
- insert holder must be ordered separately
- \* Note: For this diameter range the insert holder C14.726.003.009 and the adapter J00.803.001.006 is required



- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm resp. 0,002mm par vernier
- Avec arrosage interne
- porte-plaquettes doivent être commandés séparément
- \* Remarque : Pour obtenir cette plage de diamètres, le porte-plaquette C14.726.003.009 et l'adaptateur J00.803.001.006 sont nécessaires

**C05**  
**Feinbohrköpfe Ø23.9-203.1**  
**DIGITAL**

**Fine boring heads Ø23.9-203.1**  
**DIGITAL**

**Têtes d'alésage fin Ø23.9-203.1**  
**DIGITAL**



| Bestell-Nr. /<br>Order number/<br>Code | WH  | BR1<br>min.                       | BR1<br>max.                       | L   | D1   | Wendeplattenhalter /<br>insert holder /<br>porte-inserts                   | kg  |  |  |
|----------------------------------------|-----|-----------------------------------|-----------------------------------|-----|------|----------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| C05.020.024.045                        | WH1 | 23.9<br>29.9                      | 31.1<br>37.1                      | 45  | 22.5 | C14.011.024.006<br>C14.011.030.006                                         | 0.1 | J00.304.004.003                                                                     | J00.314.004.006                                                                     |
| C05.025.031.056                        | WH2 | 30.9<br>37.9                      | 40.1<br>47.1                      | 56  | 29   | C14.013.031.006<br>C14.013.038.006                                         | 0.2 | J00.304.005.004                                                                     | J00.314.005.008                                                                     |
| C05.032.040.066                        | WH3 | 39.9<br>47.9                      | 51.1<br>59.1                      | 66  | 37   | C14.017.040.006<br>C14.017.048.006                                         | 0.4 | J00.304.006.005                                                                     | J00.314.006.010                                                                     |
| C05.040.051.075                        | WH4 | 50.9<br>64.9                      | 67.1<br>81.1                      | 75  | 47   | C14.022.051.006<br>C14.022.065.006                                         | 0.7 | J00.304.008.006                                                                     | J00.314.008.012                                                                     |
| C05.050.067.090                        | WH5 | 66.9<br>84.9                      | 87.1<br>105.1                     | 90  | 59   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9                    | 1.3 | J00.304.010.010                                                                     | J00.314.010.016                                                                     |
| C05.063.087.110                        | WH6 | 86.9<br>104.9                     | 116.1<br>134.1                    | 110 | 72   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9                    | 3.2 | J00.304.010.018                                                                     | J00.314.010.016                                                                     |
| C05.080.116.140                        | WH8 | 115.9<br>133.9<br>153.9<br>165.9* | 153.1<br>171.1<br>191.1<br>203.1* | 140 | 94   | C14.030.067.009<br>C14.030.067.006<br>C14.030.085.006/9<br>C14.726.003.009 | 5.8 | J00.304.010.030                                                                     | J00.314.010.016                                                                     |

- Einstellgenauigkeit 0.001mm im Durchmesser
- direktes Wegmeßsystem (kein Umkehrspiel)
- keine Batterie und Auswerteelektronik im Werkzeug verbaut
- sehr einfache Bedienung
- digital und analog einsetzbar
- Anzeigeeinheit muss separat bestellt werden (C09.028.024.077)
- Wendeplattenhalter müssen separat bestellt werden
- \* Hinweis: Dieser Ausdrehbereich wird erreicht mit dem Wendeplattenhalter C14.726.003.009 in Kombination mit dem Distanzstück J00.803.001.006

- 0.001 accuracy in diameter
- direct measurement system (no backlash)
- no battery and electronic evaluation unit inside the tool
- very easy operation
- for digital and analog use
- Display unit must be ordered separately (C09.028.024.077)
- insert holder must be ordered separately
- \* Note: For this diameter range the insert holder C14.726.003.009 and the adapter J00.803.001.006 is required

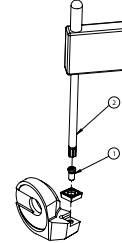
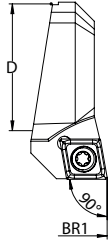
- Précision de réglage de 0,001 mm sur le diamètre
- système de mesure directe (sans jeu)
- pas de batterie ni de dispositif électronique d'évaluation installé dans l'outil
- fonctionnement très simple
- pour une utilisation numérique et analogique
- Unité d'affichage doit être commandé séparément (C09.028.024.077)
- porte-plaquettes doivent être commandés séparément
- \* Remarque : Pour obtenir cette plage de diamètres, le porte-plaquette C14.726.003.009 et l'adaptateur J00.803.001.006 sont nécessaires



## C14

### Wendeplattenhalter 90°

### Insert holders 90°

### Porte-plaquettes 90°



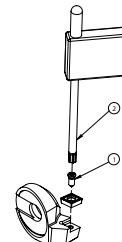
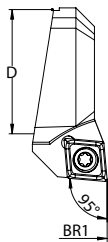
| Bestell-Nr. /<br>Order number /<br>Code | BR1<br>min. | BR1<br>max. | D  | Wendeplatte /<br>Insert /<br>Plaquette | für Feinbohrkopf /<br>for fine boring head /<br>pour Têtes d'alésage fin | kg   |  1 |  2 |
|-----------------------------------------|-------------|-------------|----|----------------------------------------|--------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| C14.011.024.006                         | 23.9        | 31.1        | 11 | CC .. 06 02 ..                         | C04/C05.020.024.045                                                      | 0.05 | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.011.030.006                         | 29.9        | 37.1        | 11 | CC .. 06 02 ..                         | C04/C05.020.024.045                                                      | 0.05 | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.013.031.006                         | 30.9        | 40.1        | 13 | CC .. 06 02 ..                         | C04/C05.025.031.056                                                      | 0.05 | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.013.038.006                         | 37.9        | 47.1        | 13 | CC .. 06 02 ..                         | C04/C05.025.031.056                                                      | 0.05 | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.017.040.006                         | 39.9        | 51.1        | 17 | CC .. 06 02 ..                         | C04/C05.032.040.066                                                      | 0.05 | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.017.048.006                         | 47.9        | 59.1        | 17 | CC .. 06 02 ..                         | C04/C05.032.040.066                                                      | 0.05 | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.022.051.006                         | 50.9        | 67.1        | 22 | CC .. 06 02 ..                         | C04/C05.040.051.075                                                      | 0.05 | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.022.065.006                         | 64.9        | 81.1        | 22 | CC .. 06 02 ..                         | C04/C05.040.051.075                                                      | 0.05 | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.030.067.006                         | 66.9        | 87.1        | 30 | CC .. 06 02 ..                         | C04/C05.050.067.090                                                      | 0.1  | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.030.067.009                         | 66.9        | 87.1        | 30 | CC .. 09 T3 ..                         | C04/C05.050.067.090                                                      | 0.1  | J00.254.040.009                                                                       | J00.254.009.000                                                                       |
| C14.030.085.006                         | 84.9        | 105.1       | 30 | CC .. 06 02 ..                         | C04/C05.050.067.090                                                      | 0.1  | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.030.085.009                         | 84.9        | 105.1       | 30 | CC .. 09 T3 ..                         | C04/C05.050.067.090                                                      | 0.1  | J00.254.040.009                                                                       | J00.254.009.000                                                                       |
| C14.030.067.006                         | 86.9        | 116.1       | 30 | CC .. 06 02 ..                         | C04/C05.063.087.110                                                      | 0.1  | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.030.067.009                         | 86.9        | 116.1       | 30 | CC .. 09 T3 ..                         | C04/C05.063.087.110                                                      | 0.1  | J00.254.040.009                                                                       | J00.254.009.000                                                                       |
| C14.030.085.006                         | 104.9       | 134.1       | 30 | CC .. 06 02 ..                         | C04/C05.063.087.110                                                      | 0.1  | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.030.085.009                         | 104.9       | 134.1       | 30 | CC .. 09 T3 ..                         | C04/C05.063.087.110                                                      | 0.1  | J00.254.040.009                                                                       | J00.254.009.000                                                                       |
| C14.030.067.006                         | 115.9       | 153.1       | 30 | CC .. 06 02 ..                         | C04/C05.080.116.140                                                      | 0.1  | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.030.067.009                         | 115.9       | 153.1       | 30 | CC .. 09 T3 ..                         | C04/C05.080.116.140                                                      | 0.1  | J00.254.040.009                                                                       | J00.254.009.000                                                                       |
| C14.030.085.006                         | 133.9       | 171.1       | 30 | CC .. 06 02 ..                         | C04/C05.080.116.140                                                      | 0.1  | J00.254.025.006                                                                       | J00.254.007.000                                                                       |
| C14.030.085.009                         | 133.9       | 171.1       | 30 | CC .. 09 T3 ..                         | C04/C05.080.116.140                                                      | 0.1  | J00.254.040.009                                                                       | J00.254.009.000                                                                       |
| C14.726.003.009                         | 153.9       | 191.1       | 30 | CC .. 09 T3 ..                         | C04/C05.080.116.140                                                      | 0.1  | J00.254.040.009                                                                       | J00.254.009.000                                                                       |



## C15

### Wendeplattenhalter 95°

### Insert holders 95°

### Porte-plaquettes 95°



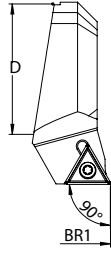
| Bestell-Nr. /<br>Order number /<br>Code | BR1<br>min. | BR1<br>max. | D  | Wendeplatte /<br>Insert /<br>Plaquette | für Feinbohrkopf /<br>for fine boring head /<br>pour Têtes d'alésage fin | kg   |  1 |  2 |
|-----------------------------------------|-------------|-------------|----|----------------------------------------|--------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| C15.011.024.006                         | 23.9        | 31.1        | 11 | CC .. 06 02 ..                         | C04/C05.020.024.045                                                      | 0.05 | J00.254.025.006                                                                         | J00.254.007.000                                                                         |
| C15.013.031.006                         | 30.9        | 40.1        | 13 | CC .. 06 02 ..                         | C04/C05.025.031.056                                                      | 0.05 | J00.254.025.006                                                                         | J00.254.007.000                                                                         |
| C15.017.040.006                         | 39.9        | 51.1        | 17 | CC .. 06 02 ..                         | C04/C05.032.040.066                                                      | 0.05 | J00.254.025.006                                                                         | J00.254.007.000                                                                         |
| C15.022.051.006                         | 50.9        | 67.1        | 22 | CC .. 06 02 ..                         | C04/C05.040.051.075                                                      | 0.05 | J00.254.025.006                                                                         | J00.254.007.000                                                                         |
| C15.030.067.009                         | 66.9        | 87.1        | 30 | CC .. 09 T3 ..                         | C04/C05.050.067.090                                                      | 0.1  | J00.254.040.009                                                                         | J00.254.009.000                                                                         |
| C15.030.067.009                         | 86.9        | 116.1       | 30 | CC .. 09 T3 ..                         | C04/C05.063.087.110                                                      | 0.1  | J00.254.040.009                                                                         | J00.254.009.000                                                                         |
| C15.030.067.009                         | 115.9       | 153.1       | 30 | CC .. 09 T3 ..                         | C04/C05.080.116.140                                                      | 0.1  | J00.254.040.009                                                                         | J00.254.009.000                                                                         |

## C17

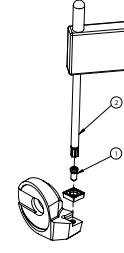
### Wendeplattenhalter 90°





### Insert holders 90°



### Porte-plaquettes 90°



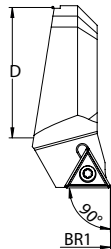
| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D  | Wendeplatte /<br>Insert /<br>Plaquette | für Feinbohrkopf /<br>for fine boring head /<br>pour Têtes d'alésage fin | kg   |  1 |  2 |
|----------------------------------------|-------------|-------------|----|----------------------------------------|--------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| C17.011.024.T07                        | 23.9        | 31.1        | 11 | TP .. 07 01 ..                         | C04/C05.020.024.045                                                      | 0.05 | WTL.ER2.001.004                                                                       | J00.254.007.000                                                                       |
| C17.011.030.T07                        | 29.9        | 37.1        | 11 | TP .. 07 01 ..                         | C04/C05.020.024.045                                                      | 0.05 | WTL.ER2.001.004                                                                       | J00.254.007.000                                                                       |
| C17.013.031.T07                        | 30.9        | 40.1        | 13 | TP .. 07 01 ..                         | C04/C05.025.031.056                                                      | 0.05 | WTL.ER2.001.004                                                                       | J00.254.007.000                                                                       |
| C17.013.038.T07                        | 37.9        | 47.1        | 13 | TP .. 07 01 ..                         | C04/C05.025.031.056                                                      | 0.05 | WTL.ER2.001.004                                                                       | J00.254.007.000                                                                       |
| C17.017.040.T07                        | 39.9        | 51.1        | 17 | TP .. 07 01 ..                         | C04/C05.032.040.066                                                      | 0.05 | WTL.ER2.001.004                                                                       | J00.254.007.000                                                                       |
| C17.017.048.T07                        | 47.9        | 59.1        | 17 | TP .. 07 01 ..                         | C04/C05.032.040.066                                                      | 0.05 | WTL.ER2.001.004                                                                       | J00.254.007.000                                                                       |
| C17.022.051.T07                        | 50.9        | 67.1        | 22 | TP .. 07 01 ..                         | C04/C05.040.051.075                                                      | 0.05 | WTL.ER2.001.004                                                                       | J00.254.007.000                                                                       |
| C17.022.065.T07                        | 64.9        | 81.1        | 22 | TP .. 07 01 ..                         | C04/C05.040.051.075                                                      | 0.05 | WTL.ER2.001.004                                                                       | J00.254.007.000                                                                       |
| C17.030.067.T11                        | 66.9        | 87.1        | 30 | TP .. 11 02 ..                         | C04/C05.050.067.090                                                      | 0.1  | WTM.ER2.001.005                                                                       | J00.254.007.000                                                                       |
| C17.030.085.T11                        | 84.9        | 105.1       | 30 | TP .. 11 02 ..                         | C04/C05.050.067.090                                                      | 0.1  | WTM.ER2.001.005                                                                       | J00.254.007.000                                                                       |
| C17.030.067.T11                        | 86.9        | 116.1       | 30 | TP .. 11 02 ..                         | C04/C05.063.087.110                                                      | 0.1  | WTM.ER2.001.005                                                                       | J00.254.007.000                                                                       |
| C17.030.085.T11                        | 104.9       | 134.1       | 30 | TP .. 11 02 ..                         | C04/C05.063.087.110                                                      | 0.1  | WTM.ER2.001.005                                                                       | J00.254.007.000                                                                       |
| C17.030.067.T11                        | 115.9       | 153.1       | 30 | TP .. 11 02 ..                         | C04/C05.080.116.140                                                      | 0.1  | WTM.ER2.001.005                                                                       | J00.254.007.000                                                                       |
| C17.030.085.T11                        | 133.9       | 171.1       | 30 | TP .. 11 02 ..                         | C04/C05.080.116.140                                                      | 0.1  | WTM.ER2.001.005                                                                       | J00.254.007.000                                                                       |
| C17.726.003.T11                        | 153.9       | 191.1       | 30 | TP .. 11 02 ..                         | C04/C05.080.116.140                                                      | 0.1  | WTM.ER2.001.005                                                                       | J00.254.007.000                                                                       |

## C16

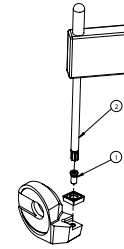
### Wendeplattenhalter 93°





### Insert holders 93°



### Porte-plaquettes 93°

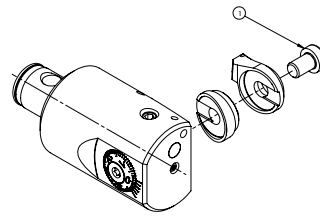
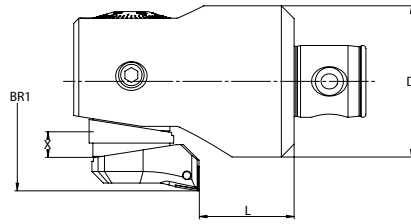



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D  | Wendeplatte /<br>Insert /<br>Plaquette | für Feinbohrkopf /<br>for fine boring head /<br>pour Têtes d'alésage fin | kg   |  1 |  2 |
|----------------------------------------|-------------|-------------|----|----------------------------------------|--------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| C16.011.024.T06                        | 23.9        | 31.1        | 11 | TB .. 06 01 ..                         | C04/C05.020.024.045                                                      | 0.05 | WWA.ER2.001.004                                                                         | WWA.ER1.001.000                                                                         |
| C16.013.031.T09                        | 30.9        | 40.1        | 13 | TP .. 09 02 ..                         | C04/C05.025.031.056                                                      | 0.05 | WCA.ER2.001.006                                                                         | J00.254.007.000                                                                         |
| C16.017.040.T09                        | 39.9        | 51.1        | 17 | TP .. 09 02 ..                         | C04/C05.032.040.066                                                      | 0.05 | WCA.ER2.001.006                                                                         | J00.254.007.000                                                                         |
| C16.022.051.T11                        | 50.9        | 67.1        | 22 | TP .. 11 03 ..                         | C04/C05.040.051.075                                                      | 0.05 | WCA.ER2.001.006                                                                         | J00.254.007.000                                                                         |
| C16.030.067.T11                        | 66.9        | 87.1        | 30 | TP .. 11 03 ..                         | C04/C05.050.067.090                                                      | 0.1  | WCA.ER2.001.006                                                                         | J00.254.007.000                                                                         |
| C16.030.085.T11                        | 84.9        | 105.1       | 30 | TP .. 11 03 ..                         | C04/C05.050.067.080                                                      | 0.1  | WCA.ER2.001.006                                                                         | J00.254.007.000                                                                         |
| C16.030.067.T11                        | 86.9        | 116.1       | 30 | TP .. 11 03 ..                         | C04/C05.063.087.110                                                      | 0.1  | WCA.ER2.001.006                                                                         | J00.254.007.000                                                                         |
| C16.030.085.T11                        | 104.9       | 134.1       | 30 | TP .. 11 03 ..                         | C04/C05.063.087.110                                                      | 0.1  | WCA.ER2.001.006                                                                         | J00.254.007.000                                                                         |
| C16.030.067.T11                        | 115.9       | 153.1       | 30 | TP .. 11 03 ..                         | C04/C05.080.116.140                                                      | 0.1  | WCA.ER2.001.006                                                                         | J00.254.007.000                                                                         |
| C16.030.085.T11                        | 133.9       | 171.1       | 30 | TP .. 11 03 ..                         | C04/C05.080.116.140                                                      | 0.1  | WCA.ER2.001.006                                                                         | J00.254.007.000                                                                         |

**C24**  
**Umkehradapter**  
**für Rückwärtsbearbeitung**

**Reversal adapter**  
**for reverse machining**

**Adaptateur pour**  
**alésage en sens opposé**

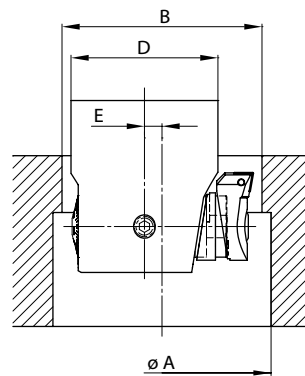


| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D    | L    | X    | für Feinbohrkopf /<br>for fine boring head /<br>pour Têtes d'alésage fin | kg   |  |
|----------------------------------------|-------------|-------------|------|------|------|--------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|
| C24.011.065.008                        | 37          | 44          | 22.5 | 8.5  | 6.5  | C04.020.024.045                                                          | 0.05 | J00.324.004.012                                                                     |
| C24.011.080.008                        | 40          | 51          | 22.5 | 8.5  | 8.0  | C04.020.024.045                                                          | 0.05 | J00.324.004.013                                                                     |
| C24.013.065.007                        | 44          | 53          | 29   | 7.6  | 6.5  | C04.025.031.056                                                          | 0.05 | J00.324.005.014                                                                     |
| C24.013.100.007                        | 51          | 60          | 29   | 7.6  | 10.0 | C04.025.031.056                                                          | 0.05 | J00.324.005.016                                                                     |
| C24.017.065.013                        | 53          | 64          | 37   | 13.3 | 6.5  | C04.032.040.066                                                          | 0.05 | J00.324.006.015                                                                     |
| C24.017.100.013                        | 60          | 71          | 37   | 13.3 | 10.0 | C04.032.040.066                                                          | 0.05 | J00.324.006.020                                                                     |
| C24.022.065.016                        | 64          | 80          | 47   | 16.2 | 6.5  | C04.040.051.075                                                          | 0.05 | J00.324.008.020                                                                     |
| C24.022.120.016                        | 75          | 91          | 47   | 16.2 | 12.0 | C04.040.051.075                                                          | 0.05 | J00.324.008.025                                                                     |
| C24.030.100.027                        | 87          | 107         | 59   | 27.0 | 10.0 | C04.050.067.090                                                          | 0.05 | J00.324.010.030                                                                     |
| C24.030.100.027                        | 107         | 136         | 72   | 47.0 | 10.0 | C04.063.087.110                                                          | 0.05 | J00.324.010.030                                                                     |
| C24.030.100.027                        | 136         | 173         | 90   | 77.0 | 10.0 | C04.080.116.140                                                          | 0.05 | J00.324.010.030                                                                     |

- für die Verwendung in Feinbohrköpfen der Serie C04 und C05
- damit können die Wendeplattenhalter der Serie C14 und C15 rückwärts montiert werden
- Befestigungsschrauben werden mitgeliefert
- **Achtung: Linkslauf**

- for use in fine boring heads from serie C04 und C05
- the insert holders from serie C14 and C15 will be fitted backwards on the adapter
- fastening screws will be delivered with adapters
- **Caution: counterclockwise rotation**

- Les porte-plaquettes des series C14 et C15 seront montés en sens opposé sur l'adaptateur
- Des vis de fixation seront livrées avec les adaptateurs
- **Attention : rotation dans le sens contraire des aiguilles d'une montre**



- Minstdurchmesser der Eintrittsbohrung  
 $B = \frac{D+A}{2} + 1^*$
- Mindestversatz zum Einfahren  
 $E = \frac{A-B}{2} + 0.5^*$

- minimum entry bore diameter  
 $B = \frac{D+A}{2} + 1^*$
- minimum off centre to enter into the bore  
 $E = \frac{A-B}{2} + 0.5^*$

- diamètre minimal de l'alésage d'entrée  
 $B = \frac{D+A}{2} + 1^*$
- décentrage minimum pour entrer dans l'alésage  
 $E = \frac{A-B}{2} + 0.5^*$

\*Sicherheitsabstand

\*safety distance

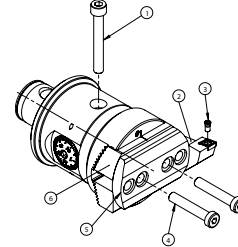
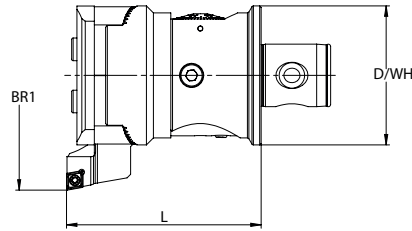
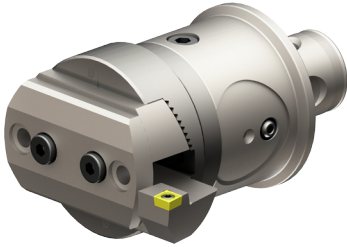
\*Distance de sécurité



## C44 Feinbohrköpfe ø86-402

## Fine boring heads ø86-402

## Têtes d'alésage fin ø86-402



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | WH    | L   | D  | kg  | ①               | ④               |
|----------------------------------------|-------------|-------------|-------|-----|----|-----|-----------------|-----------------|
| C44.080.086.112                        | 86          | 402         | WH6/8 | 112 | 80 | 2.8 | J00.344.008.065 | J00.344.008.044 |

- DurchmesserEinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm im Durchmesser
- mit Innenkühlung
- Wendeplattenhalter müssen separat bestellt werden

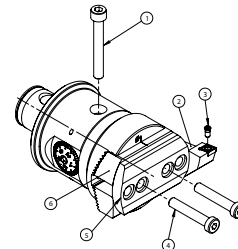
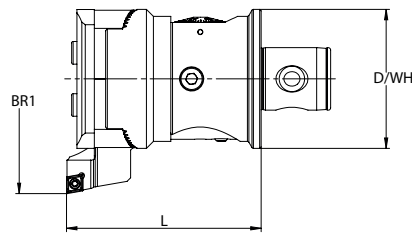
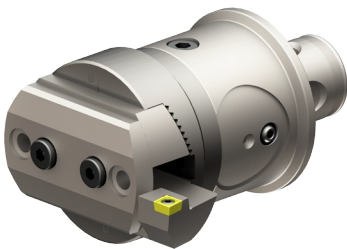
- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment
- with inner coolant supply
- insert holder must be ordered separately

- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm
- Avec arrosage interne
- porte-plaquettes doivent être commandés séparément

## C45 Feinbohrköpfe ø86-402 DIGITAL

## Fine boring heads ø86-402 DIGITAL

## Têtes d'alésage fin ø86-402 DIGITAL



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | WH    | L   | D  | kg  | ①               | ④               |
|----------------------------------------|-------------|-------------|-------|-----|----|-----|-----------------|-----------------|
| C45.080.086.112                        | 86          | 402         | WH6/8 | 112 | 80 | 2.8 | J00.344.008.065 | J00.344.008.044 |

- Einstellgenauigkeit 0.001mm im Durchmesser
- direktes Wegmeßsystem (kein Umkehrspiel)
- keine Batterie und Auswerteelektronik im Werkzeug verbaut
- sehr einfache Bedienung
- digital und analog einsetzbar
- Anzeigeeinheit muss separat bestellt werden (C09.028.024.077)
- Wendeplattenhalter müssen separat bestellt werden

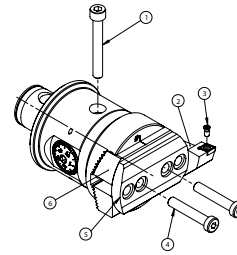
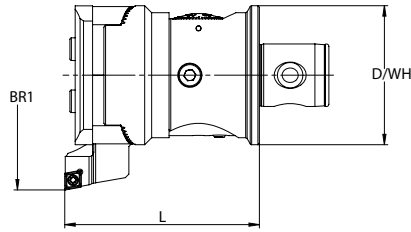
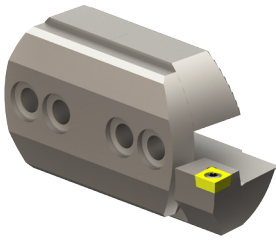
- 0.001 accuracy in diameter
- direct measurement system (no backlash)
- no battery and electronic evaluation unit inside the tool
- very easy operation
- for digital and analog use
- Display unit must be ordered separately (C09.028.024.077)

- Précision de réglage de 0,001 mm sur le diamètre
- système de mesure directe (sans jeu)
- pas de batterie ni de dispositif électronique d'évaluation installé dans l'outil
- fonctionnement très simple
- pour une utilisation numérique et analogique
- Unité d'affichage doit être commandé séparément (C09.028.024.077)
- porte-plaquettes doivent être commandés séparément

**C54**  
**Wendeplattenhalter inkl.**  
**Druckplatte und Abstützung**

**Insert holders incl.**  
**clamp plate and support block**

**Porte-plaquettes incl.**  
**plaque de serrage et support**



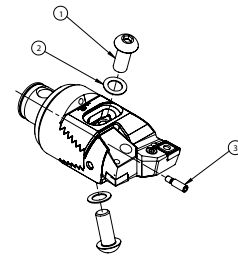
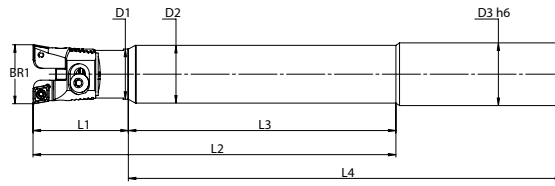
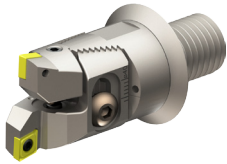
| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | Wendeplatte /<br>Insert /<br>Plaquette | kg  | ②               | ③               | ⑤               | ⑥               |
|----------------------------------------|-------------|-------------|----------------------------------------|-----|-----------------|-----------------|-----------------|-----------------|
| C54.086.138.009                        | 86          | 138         | CC .. 09 T3 ..                         | 0,5 | J00.354.086.009 | J00.254.040.009 | J00.345.010.086 | J00.345.020.086 |
| C54.086.138.012                        | 86          | 138         | CC .. 12 04 ..                         | 0,5 | J00.354.086.012 | J00.254.050.010 | J00.345.010.086 | J00.345.020.086 |
| C54.136.220.009                        | 136         | 220         | CC .. 09 T3 ..                         | 0,9 | J00.354.136.009 | J00.254.040.009 | J00.345.010.136 | J00.345.020.136 |
| C54.136.220.012                        | 136         | 220         | CC .. 12 04 ..                         | 0,9 | J00.354.136.012 | J00.254.050.010 | J00.345.010.136 | J00.345.020.136 |
| C54.188.302.009                        | 188         | 302         | CC .. 09 T3 ..                         | 1,0 | J00.354.188.009 | J00.254.040.009 | J00.345.010.136 | J00.345.020.136 |
| C54.242.402.009                        | 242         | 402         | CC .. 09 T3 ..                         | 1,3 | J00.354.242.009 | J00.254.040.009 | J00.345.010.136 | J00.345.020.136 |

## D04

### Zweischneiderköpfe zum Einschrauben

### Twin cutter heads with thread connection

### Tête à double tranchant avec connexion fileté



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D1 | L1 | für Wendeplattenhalter /<br>for insert holder /<br>pour porte-inserts    | kg  | ①               | ②               | ③               |
|----------------------------------------|-------------|-------------|----|----|--------------------------------------------------------------------------|-----|-----------------|-----------------|-----------------|
| D00.020.024.041                        | 23.5        | 31.1        | 20 | 41 | D14.020.024.006<br>D24.020.024.006<br>D34.020.024.006<br>D37.020.024.006 | 0.1 | J00.404.004.008 | J00.405.004.000 | J00.406.030.012 |
| D00.025.031.045                        | 29.5        | 40.1        | 25 | 45 | D14.025.031.006<br>D24.025.031.006<br>D34.025.031.006<br>D37.025.031.006 | 0.1 | J00.404.005.012 | J00.405.005.000 | J00.406.030.012 |
| D00.032.040.051                        | 39.5        | 51.1        | 32 | 51 | D14.032.040.009<br>D24.032.040.009<br>D34.032.040.009<br>D37.032.040.009 | 0.2 | J00.404.006.016 | J00.405.006.000 | J00.406.030.012 |

- mit Innenkühlung
- Zweischneiderköpfe, Schaft und Wendeplattenhalter müssen separat bestellt werden

- with inner coolant supply
- twin cutter heads, shank and insert holder must be ordered separately

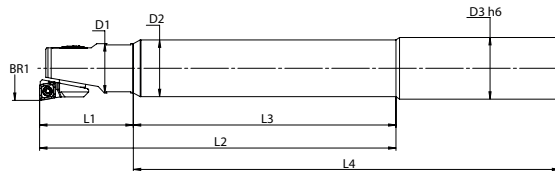
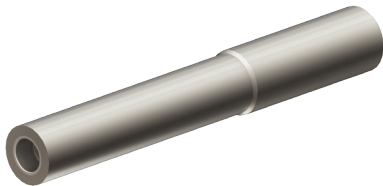
- avec arrosage interne
- Corps et porte-plaquettes doivent être commandés séparément

## B84

### Vollhartmetallschäfte

### solid carbide shanks

### Corps en carbure



| Bestell-Nr. /<br>Order number/<br>Code | D3 | D2 | L2<br>max | L1+L4 | L4  | L3  | M   | für Einschraubkopf /<br>for screwable head /<br>pour tête vissable | kg  |
|----------------------------------------|----|----|-----------|-------|-----|-----|-----|--------------------------------------------------------------------|-----|
| B84.025.023.170                        | 25 | 23 | 146       | 211   | 170 | 105 | M12 | C00/D00.020.024.041                                                | 0.7 |
| B84.025.023.220                        | 25 | 23 | 196       | 261   | 220 | 155 | M12 | C00/D00.020.024.041                                                | 1.2 |
| B84.025.023.265                        | 25 | 23 | 241       | 306   | 265 | 200 | M12 | C00/D00.020.024.041                                                | 1.5 |
| B84.032.029.220                        | 32 | 29 | 200       | 265   | 220 | 155 | M16 | C00/D00.025.031.045                                                | 2.0 |
| B84.032.029.260                        | 32 | 29 | 240       | 305   | 260 | 195 | M16 | C00/D00.025.031.045                                                | 2.3 |
| B84.032.029.310                        | 32 | 29 | 290       | 355   | 310 | 245 | M16 | C00/D00.025.031.045                                                | 2.8 |
| B84.032.032.217                        | 32 | 32 | 203       | 268   | 217 | 152 | M16 | C00/D00.032.040.051                                                | 2.3 |
| B84.032.032.287                        | 32 | 32 | 273       | 338   | 287 | 222 | M16 | C00/D00.032.040.051                                                | 3.0 |
| B84.032.032.357                        | 32 | 32 | 343       | 408   | 357 | 292 | M16 | C00/D00.032.040.051                                                | 3.8 |

- Produktivitätsgewinn dank der unterdrückten Schwingungen können die Schnittdaten beträchtlich erhöht werden
- Verbesserte Oberflächengüte
- Verbesserte Prozesssicherheit
- Verbesserte Spanabfuhr
- Reduzierte Kosten pro Bauteil
- Für Bohrungstiefen bis 12xD

- productivity improvement: thanks to reduced vibrations, the cutting conditions can be improved remarkable
- better surface quality
- improved process stability
- better chip evacuation
- reduced cost per part
- for boring length up to 12xD

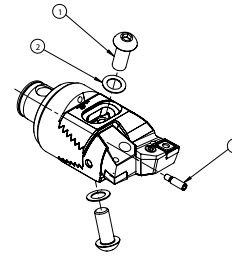
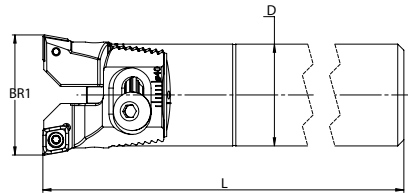
- Amélioration de la productivité : grâce à la réduction des vibrations, les conditions de coupe peuvent être améliorées de façon remarquable.
- Meilleure qualité de surface
- Meilleure stabilité du processus
- Meilleure évacuation des copeaux
- Réduction du coût par pièce
- pour longueur d'alésage jusqu'à 12xD

## ECO LINE Uxx\_Z

### Zweischneiderköpfe Ø23.5-40.1

### Twin cutter heads with Ø23.5-40.1

### Tête à double tranchant Ø23.5-40.1



**ECO LINE**

| Bestell-Nr. /<br>Order number /<br>Code | D               | BR1<br>min. | BR1<br>max. | L   | Wendeplattenhalter /<br>insert holder /<br>porte-inserts                  | Wendeplatte /<br>Insert /<br>Plaquette | kg  | ①               | ②               | ③               |
|-----------------------------------------|-----------------|-------------|-------------|-----|---------------------------------------------------------------------------|----------------------------------------|-----|-----------------|-----------------|-----------------|
| U20_Z20.K23.150                         | 20              | 23.5        | 31.1        | 150 | D14.020.024.006*<br>D24.020.024.006<br>D34.020.024.006<br>D37.020.024.006 | CC.. 06 02 ..                          | 0.3 | J00.404.004.008 | J00.405.004.000 | J00.406.030.012 |
| U25_Z25.K23.170                         | 25              | 29.5        | 40.1        | 170 | D14.025.031.006*<br>D24.025.031.006<br>D34.025.031.006<br>D37.025.031.006 | CC.. 06 02 ..                          | 0.6 | J00.404.005.012 | J00.405.005.000 | J00.406.030.012 |
| W19_Z20.024.150                         | 19.1<br>(0.75") | 23.5        | 31.1        | 150 | D14.020.024.006<br>D24.020.024.006<br>D34.020.024.006<br>D37.020.024.006  | CC.. 06 02 ..                          | 0.3 | J00.404.004.008 | J00.405.004.000 | J00.406.030.012 |
| W26_Z25.030.170                         | 25.4<br>(1.00") | 29.5        | 40.1        | 170 | D14.025.031.006<br>D24.025.031.006<br>D34.025.031.006<br>D37.025.031.006  | CC.. 06 02 ..                          | 0.6 | J00.404.005.012 | J00.405.005.000 | J00.406.030.012 |

- mit Innenkühlung
- Werkzeug in einem Spannzangenfutter spannen.
- \*inklusive Wendeplattenhalter

- with inner coolant supply
- Clamp tool in a collet chuck.
- \*insert holder included

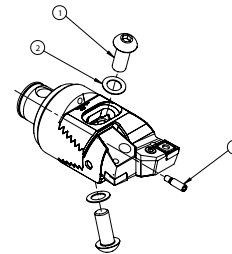
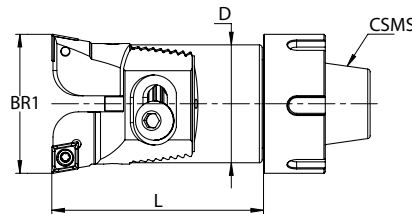
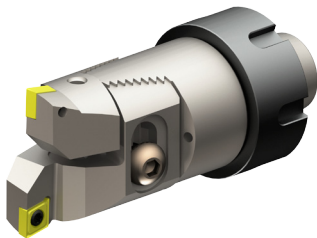
- Avec arrosage interne
- Serrer l'outil dans un porte-pince.
- \*Porte-plaquette inclus

## ECO LINE Exx\_Z

### Zweischneiderköpfe Ø39.9-87.1

### Twin cutter heads with Ø39.9-87.1

### Tête à double tranchant Ø39.9-87.1



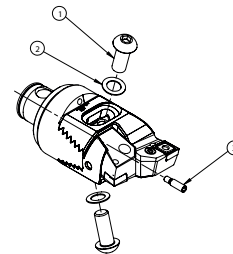
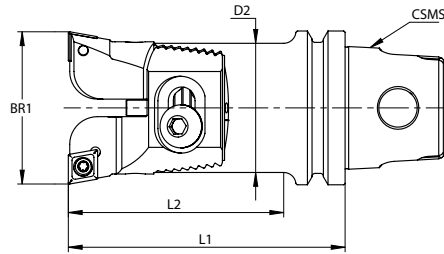
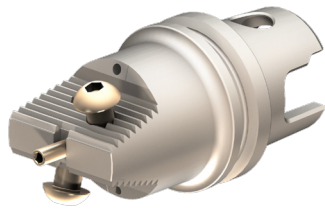
**ECO LINE**

| Bestell-Nr. /<br>Order number /<br>Code | D /<br>CSMS | BR1<br>min. | BR1<br>max. | L  | Wendeplattenhalter /<br>insert holder /<br>porte-inserts                          | Wendeplatte /<br>Insert /<br>Plaquette | kg  | ①               | ②               | ③               |
|-----------------------------------------|-------------|-------------|-------------|----|-----------------------------------------------------------------------------------|----------------------------------------|-----|-----------------|-----------------|-----------------|
| E25_Z32.K23.065                         | 32 / ER25   | 39.5        | 50.1        | 65 | D14.032.040.009*<br>D24.032.040.009<br>D34.032.040.009<br>D37.032.040.009         | CC.. 09 T3 ..                          | 0.5 | J00.404.006.016 | J00.405.006.000 | J00.406.030.012 |
| E32_Z42.K23.075                         | 42 / ER32   | 49.5        | 67.1        | 75 | D14.039.051.009*<br>D24.039.051.009<br>D34.039.051.009<br>D37.039.051.009         | CC.. 09 T3 ..                          | 0.9 | J00.404.008.020 | J00.405.008.000 | J00.406.040.020 |
| E40_Z55.K23.085                         | 55 / ER40   | 65.5        | 87.1        | 85 | D14.050.067.012*/112<br>D24.050.067.012/112<br>D34.050.067.012<br>D37.050.067.012 | CC.. 12 04 ..                          | 1.7 | J00.404.010.025 | J00.405.010.000 | J00.406.040.020 |

- mit Innenkühlung
- Werkzeug in einem Spannzangenfutter spannen.
- \*inklusive Wendeplattenhalter

- with inner coolant supply
- Clamp tool in a collet chuck.
- \*insert holder included

- Avec arrosage interne
- Serrer l'outil dans un porte-pince.
- \*Porte-plaquette inclus

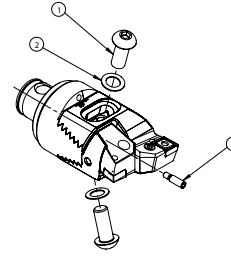
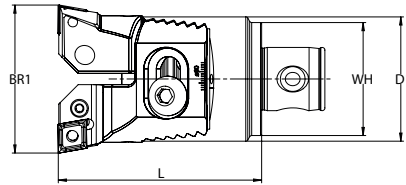
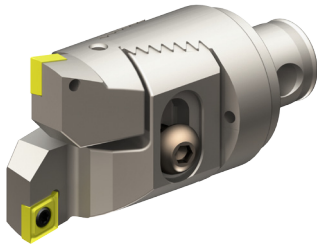


| Bestell-Nr. /<br>Order number /<br>Code | ST     | BR1<br>min. | BR1<br>max. | L1  | L2  | D2 | Wendeplattenhalter /<br>insert holder /<br>porte-inserts                         | kg  | ①               | ②               | ③               |
|-----------------------------------------|--------|-------------|-------------|-----|-----|----|----------------------------------------------------------------------------------|-----|-----------------|-----------------|-----------------|
| KM3.Z20.024.090                         | KM32   | 23.5        | 31.1        | 90  | 76  | 20 | D14.020.024.006<br>D24.020.024.006<br>D34.020.024.006<br>D37.020.024.006         | 0.1 | J00.404.004.008 | J00.405.004.000 | J00.406.030.012 |
| KM3.Z25.030.100                         | KM32   | 29.5        | 40.1        | 100 | 86  | 25 | D14.025.031.006<br>D24.025.031.006<br>D34.025.031.006<br>D37.025.031.006         | 0.1 | J00.404.005.012 | J00.405.005.000 | J00.406.030.012 |
| KM4.Z32.040.090                         | KM40   | 39.5        | 51.1        | 90  | 74  | 32 | D14.032.040.009<br>D24.032.040.009<br>D34.032.040.009<br>D37.032.040.009         | 0.3 | J00.404.006.016 | J00.405.006.000 | J00.406.030.012 |
| KM5.Z42.050.090                         | KM50   | 49.5        | 67.1        | 90  | 70  | 42 | D14.039.051.009<br>D24.039.051.009<br>D34.039.051.009<br>D37.039.051.009         | 0.4 | J00.404.008.020 | J00.405.008.000 | J00.406.040.020 |
| KM5.Z55.066.100                         | KM50   | 65.5        | 87.5        | 100 | 100 | 55 | D14.050.067.012/112<br>D24.050.067.012/112<br>D34.050.067.012<br>D37.050.067.012 | 0.8 | J00.404.010.025 | J00.405.010.000 | J00.406.040.020 |
| KM5.Z72.087.120                         | KM50   | 86.5        | 116.1       | 120 | 120 | 72 | D14.064.087.012/116<br>D24.064.087.012/116<br>D34.064.087.012<br>D37.064.087.012 | 1.4 | J00.404.012.025 | J00.405.012.000 | J00.406.040.020 |
| KM6.Z72.087.120                         | KM63UT | 86.5        | 116.1       | 120 | 120 | 72 | D14.064.087.012/116<br>D24.064.087.012/116<br>D34.064.087.012<br>D37.064.087.012 | 1.4 | J00.404.012.025 | J00.405.012.000 | J00.406.040.020 |
| KM6.Z94.115.150                         | KM63UT | 114.5       | 153.1       | 150 | 150 | 94 | D14.090.115.012/116<br>D24.090.115.116<br>D34.090.115.012<br>D37.090.115.012     | 2.6 | J00.404.016.035 | J00.405.016.000 | J00.406.040.020 |

- mit Innenkühlung
- Wendeplattenhalter müssen separat bestellt werden

- with inner coolant supply
- insert holder must be ordered separately

- Avec arrosage interne
- porte-plaquettes doivent être commandés séparément



| Bestell-Nr. /<br>Order number /<br>Code | WH  | BR1<br>min. | BR1<br>max. | L   | D1 | Wendeplattenhalter /<br>insert holder /<br>porte-inserts                         | kg  | ①               | ②               | ③               |
|-----------------------------------------|-----|-------------|-------------|-----|----|----------------------------------------------------------------------------------|-----|-----------------|-----------------|-----------------|
| D04.020.024.045                         | WH1 | 23.5        | 31.1        | 45  | 20 | D14.020.024.006<br>D24.020.024.006<br>D34.020.024.006<br>D37.020.024.006         | 0.1 | J00.404.004.008 | J00.405.004.000 | J00.406.030.012 |
| D04.025.031.056                         | WH2 | 29.5        | 40.1        | 56  | 25 | D14.025.031.006<br>D24.025.031.006<br>D34.025.031.006<br>D37.025.031.006         | 0.1 | J00.404.005.012 | J00.405.005.000 | J00.406.030.012 |
| D04.032.040.066                         | WH3 | 39.5        | 51.1        | 66  | 32 | D14.032.040.009<br>D24.032.040.009<br>D34.032.040.009<br>D37.032.040.009         | 0.3 | J00.404.006.016 | J00.405.006.000 | J00.406.030.012 |
| D04.040.051.075                         | WH4 | 49.5        | 67.1        | 75  | 42 | D14.039.051.009<br>D24.039.051.009<br>D34.039.051.009<br>D37.039.051.009         | 0.4 | J00.404.008.020 | J00.405.008.000 | J00.406.040.020 |
| D04.050.067.090                         | WH5 | 65.5        | 87.5        | 90  | 55 | D14.050.067.012/112<br>D24.050.067.012/112<br>D34.050.067.012<br>D37.050.067.012 | 0.8 | J00.404.010.025 | J00.405.010.000 | J00.406.040.020 |
| D04.063.087.110                         | WH6 | 86.5        | 116.1       | 110 | 72 | D14.064.087.012/116<br>D24.064.087.012/116<br>D34.064.087.012<br>D37.064.087.012 | 1.4 | J00.404.012.025 | J00.405.012.000 | J00.406.040.020 |
| D04.080.115.140                         | WH8 | 114.5       | 153.1       | 140 | 94 | D14.090.115.012/116<br>D24.090.115.116<br>D34.090.115.012<br>D37.090.115.012     | 2.6 | J00.404.016.035 | J00.405.016.000 | J00.406.040.020 |

- mit Innenkühlung
- Wendeplattenhalter müssen separat bestellt werden

- with inner coolant supply
- insert holder must be ordered separately

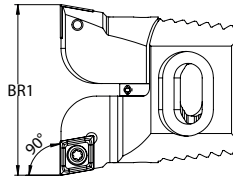
- Avec arrosage interne
- porte-plaquettes doivent être commandés séparément

## D14

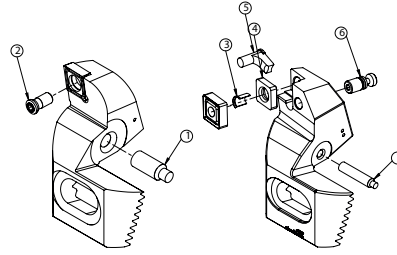
### Wendeplattenhalter 90°



### Insert holders 90°



### Porte-inserts 90°



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D1 Kopf /<br>D1 head /<br>D1 Tête | Wendeplatte /<br>Insert /<br>Plaquette | kg   | ①               | ②               | ③               | ④               | ⑤               | ⑥ |
|----------------------------------------|-------------|-------------|-----------------------------------|----------------------------------------|------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| D14.020.024.006                        | 23.5        | 31.1        | 20                                | CC . .06 02 . .                        | 0.05 | J00.414.004.007 | J00.254.025.006 |                 |                 |                 |   |
| D14.025.031.006                        | 29.5        | 40.1        | 25                                | CC . .06 02 . .                        | 0.05 | J00.414.004.010 | J00.254.025.006 |                 |                 |                 |   |
| D14.032.040.009                        | 39.5        | 51.1        | 32                                | CC . .09 T3 . .                        | 0.1  | J00.414.004.013 | J00.254.040.009 |                 |                 |                 |   |
| D14.039.051.009                        | 49.5        | 67.1        | 42                                | CC . .09 T3 . .                        | 0.2  | J00.414.006.014 | J00.254.040.009 |                 |                 |                 |   |
| D14.050.067.012                        | 65.5        | 87.5        | 55                                | CC . .12 04 . .                        | 0.5  | J00.415.006.020 | J00.254.050.010 |                 |                 |                 |   |
| D14.050.067.112                        | 65.5        | 87.5        | 55                                | CN . .12 04 . .                        | 0.5  | J00.415.006.020 | J00.416.012.000 | J00.417.012.000 | J00.418.012.000 | J00.419.012.000 |   |
| D14.064.087.012                        | 86.5        | 116.1       | 72                                | CC . .12 04 . .                        | 1.2  | J00.415.006.030 | J00.254.050.010 |                 |                 |                 |   |
| D14.064.087.116                        | 86.5        | 116.1       | 72                                | CN . .16 06 . .                        | 1.2  | J00.415.006.030 | J00.416.016.000 | J00.417.016.000 | J00.418.016.000 | J00.419.016.000 |   |
| D14.090.115.012                        | 114.5       | 153.1       | 94                                | CC . .12 04 . .                        | 2.6  | J00.415.006.040 | J00.254.050.010 |                 |                 |                 |   |
| D14.090.115.116                        | 114.5       | 153.1       | 94                                | CN . .16 06 . .                        | 2.6  | J00.415.006.040 | J00.416.016.000 | J00.417.016.000 | J00.418.016.000 | J00.419.016.000 |   |

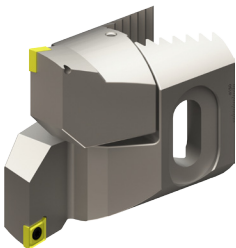
- für die Verwendung in Zweischniderköpfen der Serie D04
- Wendeplattenhalter werden paarweise geliefert

- for use in twin cutter boring heads from serie D04
- insert holders will be supplied in pairs

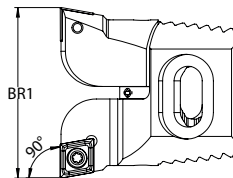
- Pour utilisation dans tête à double tranchant de la série D04
- Porte-plaquettes seront livrés par paire

## D34

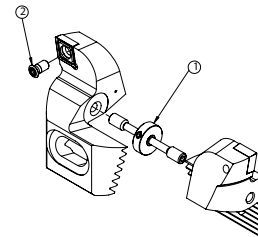
### Synchro-Wendeplattenhalter 90°



### Synchro-Insert holders 90°



### Synchro-porte-inserts 90°



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D1 Kopf /<br>D1 head /<br>D1 Tête | Wendeplatte /<br>Insert /<br>Plaquette | kg   | ①               | ②               |
|----------------------------------------|-------------|-------------|-----------------------------------|----------------------------------------|------|-----------------|-----------------|
| D34.020.024.006                        | 23.5        | 31.1        | 20                                | CC . .06 02 . .                        | 0.05 | J00.434.004.018 | J00.254.025.006 |
| D34.025.031.006                        | 29.5        | 40.1        | 25                                | CC . .06 02 . .                        | 0.05 | J00.434.004.023 | J00.254.025.006 |
| D34.032.040.009                        | 39.5        | 51.1        | 32                                | CC . .09 T3 . .                        | 0.1  | J00.434.004.030 | J00.254.040.009 |
| D34.039.051.009                        | 49.5        | 67.1        | 42                                | CC . .09 T3 . .                        | 0.2  | J00.434.006.040 | J00.254.040.009 |
| D34.050.067.012                        | 65.5        | 87.5        | 55                                | CC . .12 04 . .                        | 0.5  | J00.434.006.052 | J00.254.050.010 |
| D34.064.087.012                        | 86.5        | 116.1       | 72                                | CC . .12 04 . .                        | 1.2  | J00.434.006.068 | J00.254.050.010 |
| D34.090.115.012                        | 114.5       | 153.1       | 94                                | CC . .12 04 . .                        | 2.6  | J00.434.006.090 | J00.254.050.010 |

- für die Verwendung in Zweischniderköpfen der Serie D04
- mit der Synchrospindel können beide Wendeplattenhalter gleichzeitig symmetrisch eingestellt werden
- Wendeplattenhalter werden paarweise geliefert

- for use in twin cutter boring heads from serie D04
- with synchro spindle both insert holders can be adjusted synchronously and symmetrically
- insert holders will be supplied in pairs

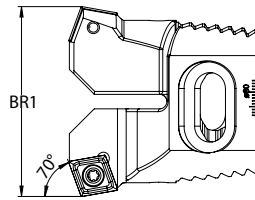
- Pour utilisation dans tête à double tranchant de la série D04
- avec la vis de réglage synchro, les deux porte-plaquettes peuvent être réglés de façon synchronisée et symétrique
- Porte-plaquettes seront livrés par paire

## D24

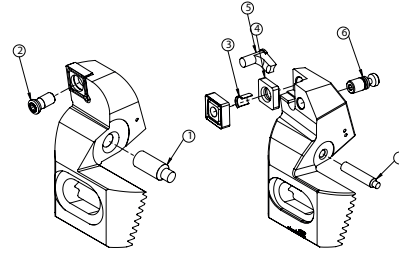
### Wendeplattenhalter 70°



### Insert holders 70°



### Porte-inserts 70°



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D1 Kopf /<br>D1 head /<br>D1 Tête | Wendeplatte /<br>Insert /<br>Plaquette | kg   | ①               | ②               | ③               | ④               | ⑤               | ⑥ |
|----------------------------------------|-------------|-------------|-----------------------------------|----------------------------------------|------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| D24.020.024.006                        | 23.5        | 31.1        | 20                                | CC..06 02 ..                           | 0.05 | J00.414.004.007 | J00.254.025.006 |                 |                 |                 |   |
| D24.025.031.006                        | 29.5        | 40.1        | 25                                | CC..06 02 ..                           | 0.05 | J00.414.004.010 | J00.254.025.006 |                 |                 |                 |   |
| D24.032.040.009                        | 39.5        | 51.1        | 32                                | CC..09 T3 ..                           | 0.1  | J00.414.004.013 | J00.254.040.009 |                 |                 |                 |   |
| D24.039.051.009                        | 49.5        | 67.1        | 42                                | CC..09 T3 ..                           | 0.2  | J00.414.006.014 | J00.254.040.009 |                 |                 |                 |   |
| D24.050.067.012                        | 65.5        | 87.5        | 55                                | CC..12 04 ..                           | 0.5  | J00.415.006.020 | J00.254.050.010 |                 |                 |                 |   |
| D24.050.067.112                        | 65.5        | 87.5        | 55                                | CN..12 04 ..                           | 0.5  | J00.415.006.020 | J00.416.012.000 | J00.417.012.000 | J00.418.012.000 | J00.419.012.000 |   |
| D24.064.087.012                        | 86.5        | 116.1       | 72                                | CC..12 04 ..                           | 1.2  | J00.415.006.030 | J00.254.050.010 |                 |                 |                 |   |
| D24.064.087.116                        | 86.5        | 116.1       | 72                                | CN..16 06 ..                           | 1.2  | J00.415.006.030 | J00.416.016.000 | J00.417.016.000 | J00.418.016.000 | J00.419.016.000 |   |
| D24.090.115.116                        | 114.5       | 153.1       | 94                                | CN..16 06 ..                           | 2.6  | J00.415.006.030 | J00.416.016.000 | J00.417.016.000 | J00.418.016.000 | J00.419.016.000 |   |

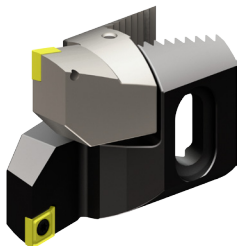
- für die Verwendung in Zweischniderköpfen der Serie D04
- Wendeplattenhalter werden paarweise geliefert

- for use in twin cutter boring heads from serie D04
- insert holders will be supplied in pairs

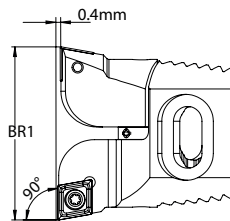
- Pour utilisation dans tête à double tranchant de la série D04
- Porte-plaquettes seront livrés par paire

## D37

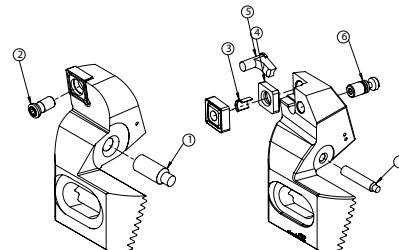
### Wendeplattenhalter 90° axial 0.4mm zurückgesetzt



### Insert holders 90° axial 0.4mm staggered



### Porte-inserts 90° 0.4mm de décalage axial



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D1 Kopf /<br>D1 head /<br>D1 Tête | Wendeplatte /<br>Insert /<br>Plaquette | kg   | ①               | ②               | ③ | ④ | ⑤ | ⑥ |
|----------------------------------------|-------------|-------------|-----------------------------------|----------------------------------------|------|-----------------|-----------------|---|---|---|---|
| D37.020.024.006                        | 23.5        | 31.1        | 20                                | CC..06 02 ..                           | 0.05 | J00.414.004.007 | J00.254.025.006 |   |   |   |   |
| D37.025.031.006                        | 29.5        | 40.1        | 25                                | CC..06 02 ..                           | 0.05 | J00.414.004.010 | J00.254.025.006 |   |   |   |   |
| D37.032.040.009                        | 39.5        | 51.1        | 32                                | CC..09 T3 ..                           | 0.1  | J00.414.004.013 | J00.254.040.009 |   |   |   |   |
| D37.039.051.009                        | 49.5        | 67.1        | 42                                | CC..09 T3 ..                           | 0.2  | J00.414.006.014 | J00.254.040.009 |   |   |   |   |
| D37.050.067.012                        | 65.5        | 87.5        | 55                                | CC..12 04 ..                           | 0.5  | J00.415.006.020 | J00.254.050.010 |   |   |   |   |
| D37.064.087.012                        | 86.5        | 116.1       | 72                                | CC..12 04 ..                           | 1.2  | J00.415.006.030 | J00.254.050.010 |   |   |   |   |
| D37.090.115.012                        | 114.5       | 153.1       | 94                                | CC..12 04 ..                           | 2.6  | J00.415.006.040 | J00.254.050.010 |   |   |   |   |

- für die Verwendung in Zweischniderköpfen der Serie D04
- zur Schnittaufteilung bei grosser Spantiefe
- Wendeplattenhalter werden paarweise geliefert

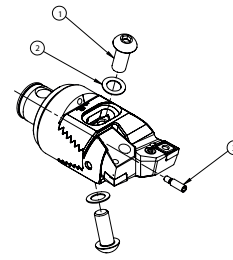
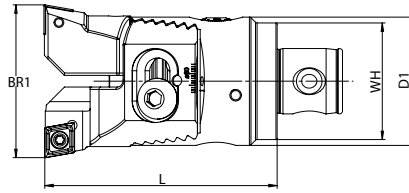
- for use in twin cutter boring heads from serie D04
- for divided cut
- insert holders will be supplied in pairs

- Pour utilisation dans tête à double tranchant de la série D04
- pour coupe sur deux niveaux
- Porte-plaquettes seront livrés par paire

**D64**  
**Schrupp-/ Schlicht**  
**Zweischneiderkopf Ø29.5-116.1**

**Roughing-/Finishing**  
**Twin cutter heads with Ø29.5-116.1**

**Dégrossissage-/Finition**  
**Tête à double tranchant Ø29.5-116.1**



| Bestell-Nr. /<br>Order number/<br>Code | WH  | BR1<br>min. | BR1<br>max. | L   | D1 | Wendeplattenhalter /<br>insert holder /<br>porte-inserts | kg  | ①               | ②               | ③               |
|----------------------------------------|-----|-------------|-------------|-----|----|----------------------------------------------------------|-----|-----------------|-----------------|-----------------|
| D64.025.031.056                        | WH2 | 29.5        | 40.1        | 56  | 25 | D74.025.031.006                                          | 0.1 | J00.404.005.012 | J00.405.005.000 | J00.406.030.012 |
| D64.032.040.066                        | WH3 | 39.5        | 51.1        | 66  | 32 | D74.032.040.009                                          | 0.3 | J00.404.006.016 | J00.405.006.000 | J00.406.030.012 |
| D64.040.051.082                        | WH4 | 49.5        | 67.1        | 82  | 42 | D74.039.051.009                                          | 0.4 | J00.404.008.020 | J00.405.008.000 | J00.406.040.020 |
| D64.050.067.100                        | WH5 | 65.5        | 87.5        | 100 | 55 | D74.050.067.012                                          | 0.8 | J00.404.010.025 | J00.405.010.000 | J00.406.040.020 |
| D64.063.087.125                        | WH6 | 86.5        | 116.1       | 125 | 72 | D74.064.087.012                                          | 1.4 | J00.404.012.025 | J00.405.012.000 | J00.406.040.020 |

- Schruppen und Schlichten in einem Arbeitsgang
- Zustellgenauigkeit von 0.01mm im Durchmesser
- Schlichtschneide axial 0.4mm zurückgesetzt
- höchste Stabilität durch Kerbverzahnung
- mit Innenkühlung
- Wendeplattenhalter müssen separat bestellt werden

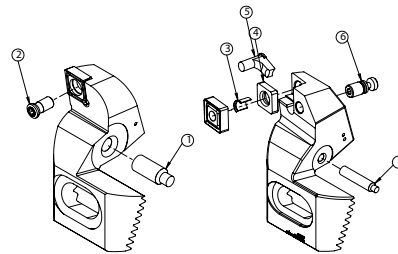
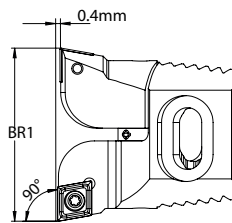
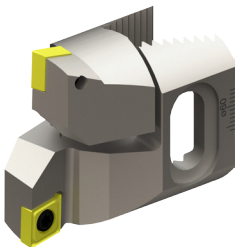
- Roughing and finishing in one step
- Setting accuracy 0.01mm in diameter
- Fine boring cutting edge axial 0.4mm staggered
- highest stability because of the tooth profile
- with inner coolant supply
- insert holder must be ordered separately

- Dégrossissage et finition en une étape
- Réglage diamétral de 0,01mm
- Arête de coupe décalé axialement de 0.4mm
- stabilité maximale grâce au profil moleté
- Avec arrosage interne
- porte-plaquettes doivent être commandés séparément

**D74**  
**Wendeplattenhalter 90°**  
**Schrupp-/ Schlicht**

**Insert holders 90°**  
**Roughing-/Finishing**

**Porte-inserts 90°**  
**Dégrossissage-/Finition**



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D1 Kopf /<br>D1 head /<br>D1 Tête | Wendeplatte /<br>Insert /<br>Plaquette | kg   | ①               | ②               | ③ | ④ | ⑤ | ⑥ |
|----------------------------------------|-------------|-------------|-----------------------------------|----------------------------------------|------|-----------------|-----------------|---|---|---|---|
| D74.025.031.006                        | 29.5        | 40.1        | 25                                | CC .06 02 ..                           | 0.05 | J00.414.004.010 | J00.254.025.006 |   |   |   |   |
| D74.032.040.009                        | 39.5        | 51.1        | 32                                | CC .09 T3 ..                           | 0.1  | J00.414.004.013 | J00.254.040.009 |   |   |   |   |
| D74.039.051.009                        | 49.5        | 67.1        | 42                                | CC .09 T3 ..                           | 0.2  | J00.414.006.014 | J00.254.040.009 |   |   |   |   |
| D74.050.067.012                        | 65.5        | 87.5        | 55                                | CC .12 04 ..                           | 0.5  | J00.415.006.020 | J00.254.050.010 |   |   |   |   |
| D74.064.087.012                        | 86.5        | 116.1       | 72                                | CC .12 04 ..                           | 1.2  | J00.415.006.030 | J00.254.050.010 |   |   |   |   |

- für die Verwendung in Zweischneiderköpfen der Serie D64
- Wendeplattenhalter werden paarweise geliefert

- for use in twin cutter boring heads from serie D64
- insert holders will be supplied in pairs

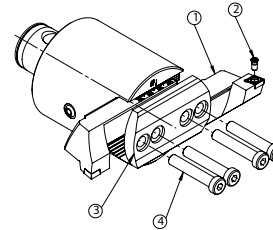
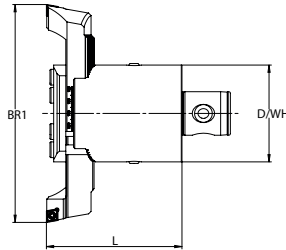
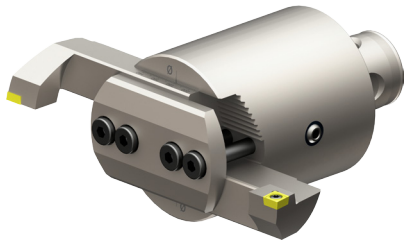
- Pour utilisation dans tête à double tranchant de la série D64
- Porte-plaquettes seront livrés par paire



**D44**  
Zweischneiderkopf ø86-402

**Twin cutter boring head ø86-402**

**Tête à double tranchant ø86-402**



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | WH    | L   | D  | kg  | ④               |
|----------------------------------------|-------------|-------------|-------|-----|----|-----|-----------------|
| D44.080.086.112                        | 86          | 402         | WH6/8 | 112 | 80 | 3.3 | J00.344.008.044 |

- mit Innenkühlung
- Wendeplattenhalter müssen separat bestellt werden

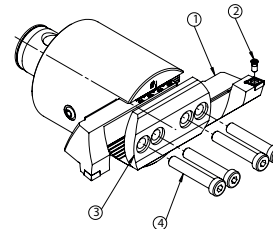
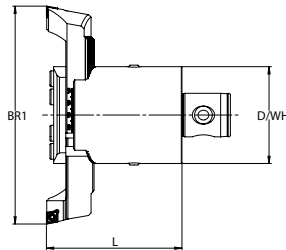
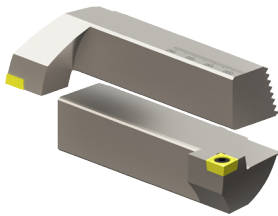
- with inner coolant supply
- insert holder must be ordered separately

- Avec arrosage interne
- porte-plaquettes doivent être commandés séparément

**D54**  
Wendeplattenhalter inkl.  
Druckplatte

**Insert holders incl.  
clamp plate**

**Porte-plaquettes incl.  
plaque de serrage**



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | Wendeplatte /<br>Insert /<br>Plaquette | kg  | ①               | ②               | ③               |
|----------------------------------------|-------------|-------------|----------------------------------------|-----|-----------------|-----------------|-----------------|
| D54.086.138.009                        | 86          | 138         | CC .. 09 T3 ..                         | 0,7 | J00.354.086.009 | J00.354.086.009 | J00.345.010.086 |
| D54.086.138.012                        | 86          | 138         | CC .. 12 04 ..                         | 0,7 | J00.354.086.012 | J00.354.086.012 | J00.345.010.086 |
| D54.136.220.009                        | 136         | 220         | CC .. 09 T3 ..                         | 1,1 | J00.354.136.009 | J00.354.136.009 | J00.345.010.136 |
| D54.136.220.012                        | 136         | 220         | CC .. 12 04 ..                         | 1,1 | J00.354.136.012 | J00.354.136.012 | J00.345.010.136 |
| D54.188.302.009                        | 188         | 302         | CC .. 09 T3 ..                         | 1,4 | J00.354.188.009 | J00.354.188.009 | J00.345.010.136 |
| D54.242.402.009                        | 242         | 402         | CC .. 09 T3 ..                         | 1,9 | J00.354.242.009 | J00.354.242.009 | J00.345.010.136 |

- für die Verwendung in Zweischneiderköpfen der Serie D44
- Wendeplattenhalter werden paarweise geliefert

- for use in twin cutter boring heads from serie D44
- insert holders will be supplied in pairs

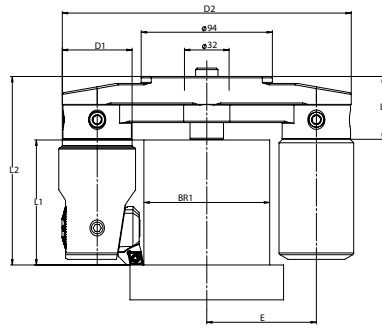
- Pour utilisation dans tête à double tranchant de la série D44
- Porte-plaquettes seront livrés par paire

# E61

## Werkzeughalter zum Zapfendrehen

## Tool holders for pin turning

## Porte-outils pour adaptateur pour le tournage

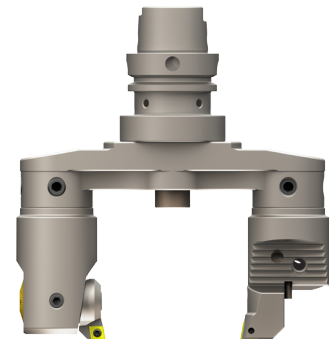
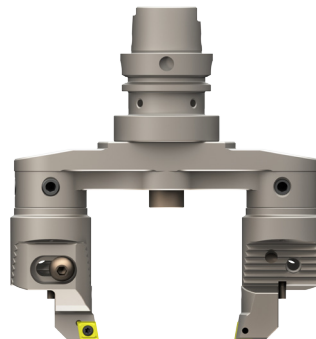
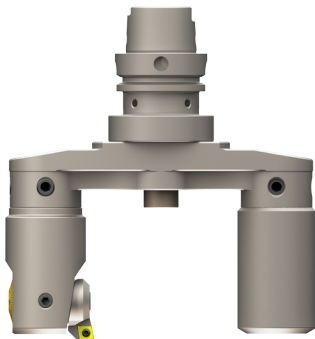


| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D1 | E    | D2  | L3 | L1   | L2    | kg  | Feinbohrkopf /<br>Boring head/<br>Têtes d'alésage<br>fin | Schruppkopf /<br>Roughing head/<br>Tête à double<br>tranchant |
|----------------------------------------|-------------|-------------|----|------|-----|----|------|-------|-----|----------------------------------------------------------|---------------------------------------------------------------|
| E61.032.032.099                        | 15.9        | 27.1        | 32 | 33.5 | 99  | 40 | 65.5 | 105.5 | 1.0 | C04.032.040.066                                          | D04.032.040.066                                               |
| E61.032.032.110                        | 26.9        | 38.1        | 32 | 39.0 | 110 | 40 | 65.5 | 105.5 | 1.3 | C04.032.040.066                                          | D04.032.040.066                                               |
| E61.040.032.145                        | 37.9        | 54.1        | 40 | 52.5 | 145 | 40 | 74.5 | 114.5 | 1.6 | C04.040.051.075                                          | D04.040.051.075                                               |
| E61.040.032.161                        | 53.9        | 70.1        | 40 | 60.5 | 161 | 40 | 74.5 | 114.5 | 1.8 | C04.040.051.075                                          | D04.040.051.075                                               |
| E61.050.032.207                        | 69.9        | 90.1        | 50 | 78.5 | 207 | 45 | 89.5 | 134.5 | 2.2 | C04.050.067.090                                          | D04.050.067.090                                               |
| E61.050.032.227                        | 89.9        | 110.1       | 50 | 88.5 | 227 | 45 | 89.5 | 134.5 | 2.4 | C04.050.067.090                                          | D04.050.067.090                                               |

- Einfache, kostengünstige Ausführung
- Brücke wird auf einen Fräsdorn Ø32 gespannt
- Modular aufgebaut und verlängerbar für grosse Zapfenlängen
- mit innerer Kühlmittelzuführung
- Gegengewicht und Spannschraube im Lieferumfang enthalten. Feinbohrkopf oder Zweischnneiderkopf muss separat bestellt werden

- simple and cost effective solution
- bridge is assembled on a milling arbor Ø32
- modular construction, extendable for long work pieces
- with inner coolant supply
- Counter weight and clamping screw included. Fine boring head or twin cutter must be ordered separately.

- solution simple et rentable
- la traverse est assemblée sur un mandrin porte-fraise Ø32
- construction modulaire, extensible pour les longues pièces à usiner
- Avec arrosage interne



• **Achtung:** Spindel linksdrehend  
Vc max. 450 m/min

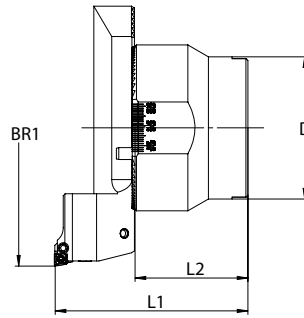
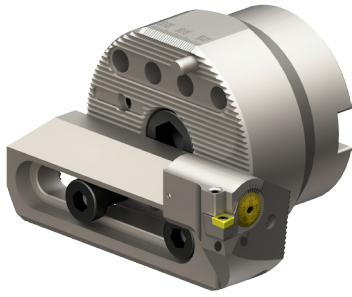
• **Attention:** Counter clockwise spindle rotation  
Vc max. 450 m/min

• **Attention:** Rotation de la broche dans le sens inverse des aiguilles d'une montre  
Vc max. 450 m/min

**ECO LINE Dxx\_F**  
**Feinbohrbrückenwerkzeuge**  
**Ø85.5-650.1**

**Fine boring brigdes tools**  
**Ø85.5-650.1**

**Traverses d'alésage fin**  
**Ø85.5-650.1**



**ECO LINE**

| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D         | L1  | L2 | Feinbohraufsatz /<br>Fine bore adapter/<br>Têtes d'alésage fin | Wendeplatte /<br>Insert /<br>Plaquette | kg   |
|----------------------------------------|-------------|-------------|-----------|-----|----|----------------------------------------------------------------|----------------------------------------|------|
| D32_F01.085.098                        | 85.5        | 140.1       | 78 / D32  | 98  | 50 | F01_WCA.B11.050                                                | CC.. 06 02 ..                          | 2.3  |
| D32_F02.139.098                        | 139.5       | 220.1       | 78 / D32  | 98  | 50 | F02_WCA.B11.050                                                | CC.. 06 02 ..                          | 2.5  |
| D32_F02.219.098                        | 219.5       | 310.1       | 78 / D32  | 98  | 50 | F02_WCA.B11.050                                                | CC.. 06 02 ..                          | 3.3  |
| D40_F02.309.108                        | 309.5       | 395.1       | 88 / D40  | 108 | 50 | F02_WCA.B11.050                                                | CC.. 06 02 ..                          | 4.4  |
| D40_F02.394.108                        | 394.5       | 480.1       | 88 / D40  | 108 | 50 | F02_WCA.B11.050                                                | CC.. 06 02 ..                          | 5.0  |
| D60_F02.479.118                        | 479.5       | 565.1       | 128 / D60 | 118 | 50 | F02_WCA.B11.050                                                | CC.. 06 02 ..                          | 10.0 |
| D60_F02.564.118                        | 564.5       | 650.1       | 128 / D60 | 118 | 50 | F02_WCA.B11.050                                                | CC.. 06 02 ..                          | 11.9 |

- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm im Durchmesser
- mit Innenkühlung
- Werkzeug in einer Fräsdorn- oder Messerkopfaufnahme spannen.
- **inklusive Feinbohraufsatz (F01/F02)**

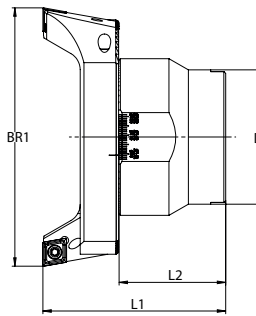
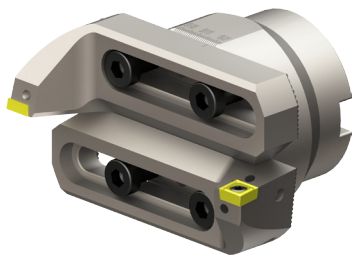
- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment
- with inner coolant supply
- Clamp tool in a shell mill holder.
- **Fine boring adapter included (F01/F02)**

- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01mm
- Avec arrosage interne
- Serrer l'outil dans un porte-fraise
- **Adaptateur pour alésage fin inclus (F01/F02)**

**ECO LINE Dxx\_Z**  
**Zwischneiderbrückenwerk-**  
**Ø85.5-650.1**

**Twin cutter brigde tools**  
**Ø85.5-650.1**

**Traverses à double tranchant**  
**Ø85.5-650.1**



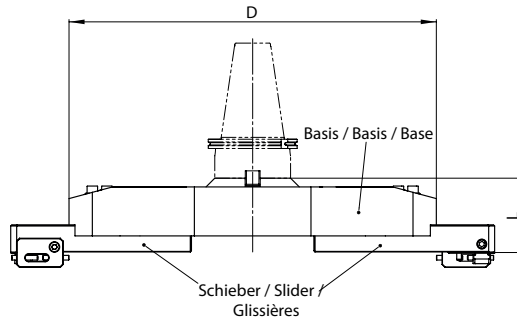
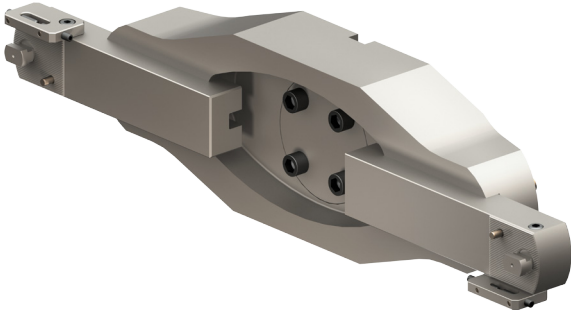
**ECO LINE**

| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D         | L1  | L2 | Wendeplattenhalter / insert holder /<br>porte-inserts | Wendeplatte /<br>Insert /<br>Plaquette | kg   |
|----------------------------------------|-------------|-------------|-----------|-----|----|-------------------------------------------------------|----------------------------------------|------|
| D32_Z01.085.098                        | 85.5        | 140.1       | 78 / D32  | 98  | 50 | Z01_WCC.B11.050                                       | CC.. 12 04 ..                          | 2.5  |
| D32_Z02.139.098                        | 139.5       | 220.1       | 78 / D32  | 98  | 50 | Z02_WCC.B11.050                                       | CC.. 12 04 ..                          | 2.7  |
| D32_Z02.219.098                        | 219.5       | 310.1       | 78 / D32  | 98  | 50 | Z02_WCC.B11.050                                       | CC.. 12 04 ..                          | 3.4  |
| D40_Z02.309.108                        | 309.5       | 395.1       | 88 / D40  | 108 | 50 | Z02_WCC.B11.050                                       | CC.. 12 04 ..                          | 4.8  |
| D40_Z02.394.108                        | 394.5       | 480.1       | 88 / D40  | 108 | 50 | Z02_WCC.B11.050                                       | CC.. 12 04 ..                          | 5.4  |
| D60_Z02.479.118                        | 479.5       | 565.1       | 128 / D60 | 118 | 50 | Z02_WCC.B11.050                                       | CC.. 12 04 ..                          | 10.4 |
| D60_Z02.564.118                        | 564.5       | 650.1       | 128 / D60 | 118 | 50 | Z02_WCC.B11.050                                       | CC.. 12 04 ..                          | 12.3 |

- mit Innenkühlung
- Werkzeug in einer Fräsdorn- oder Messerkopfaufnahme spannen.
- **inklusive Wendeplattenhalter (Z01/Z02)**

- with inner coolant supply
- Clamp tool in a shell mill holder.
- **Insert holder are included (Z01/ZF02)**

- Avec arrosage interne
- Serrer l'outil dans un porte-fraise
- **Porte inserts inclus (Z01/ Z02)**



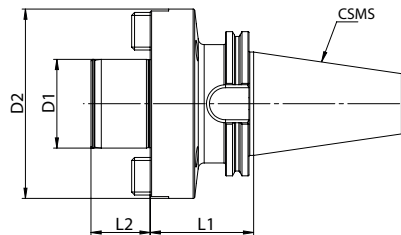
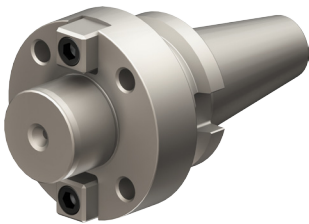
| Bestell-Nr. Basis/<br>Order number Basis/<br>Code Base | BR1<br>min. | BR1<br>max. | D    | L   | kg   | Bestell-Nr. Schieber/<br>Order number Slider/<br>Code Glissières | kg   |
|--------------------------------------------------------|-------------|-------------|------|-----|------|------------------------------------------------------------------|------|
| E62.060.063.080                                        | 650         | 1105        | 630  | 128 | 16.3 | E64.000.310.048                                                  | 13.7 |
| E62.060.108.080                                        | 1100        | 1655        | 1080 | 128 | 27.3 | E64.000.360.048                                                  | 15.7 |
| E62.060.163.080                                        | 1650        | 2205        | 1630 | 128 | 42.2 | E64.000.360.048                                                  | 15.7 |

- für die Verwendung auf Aufnahmedorn ø60 / ø129 DIN 6357
- Basis aus Aluminium
- fragen Sie uns an für optimierte Komplettlösungen
- Schieber müssen separat bestellt werden und werden paarweise geliefert

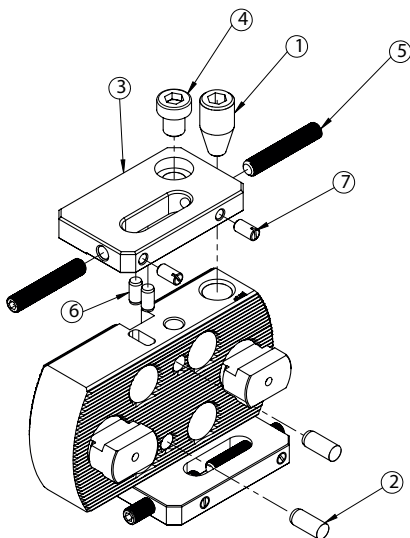
- for use on holding arbor ø60 / ø129
- basis made of aluminium
- please get in touch with us for customized solutions
- sliders must be ordered separately and will be supplied in pairs

- pour utilisation sur le mandrin de base ø60 / ø129 DIN 6357
- base en aluminium
- veuillez nous contacter pour des solutions personnalisées
- Glissières doivent être commandés séparément et sont livrés par paire

## E58

Aufnahmedorn für  
Verlängerungskonsolen ø650-2205Holding arbor for  
Extension bridges ø650-2205Mandrin de base pour  
Extensions de traverses ø650-2205

| Bestell-Nr. /<br>Order number/<br>Code | CSMS      | D1 | L1 | L2 | D   | kg  |
|----------------------------------------|-----------|----|----|----|-----|-----|
| E58.450.060.070                        | SK 50     | 60 | 70 | 40 | 128 | 7.5 |
| E58.550.060.080                        | BT 50     | 60 | 80 | 40 | 128 | 8.1 |
| E58.810.060.070                        | HSK-A 100 | 60 | 70 | 40 | 128 | 6.2 |

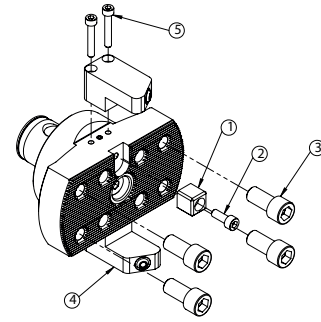
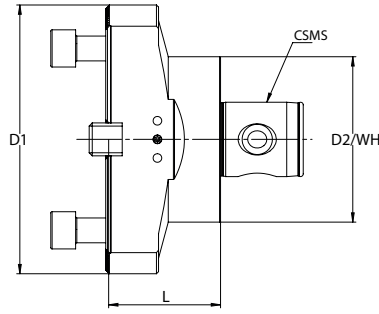
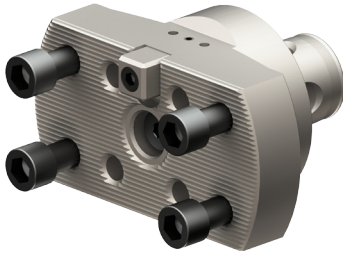


| 1               | 2               | 3               | 4               | 5               | 6               | 7               |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| J00.560.016.030 | J00.560.008.028 | J00.560.080.012 | J00.560.110.018 | J00.560.008.045 | J00.560.006.014 | J00.560.006.012 |

E04 / E14 / E34 / E44 / E54 / KM  
Aufnahmen mit Konsole  
Ø150-655

Master shanks with bridge adapter  
Ø150-655

base avec adaptateur de traverses  
Ø150-655



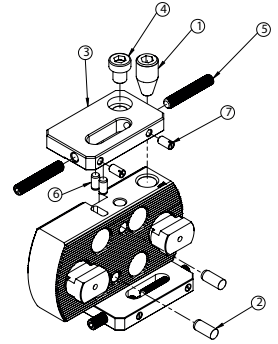
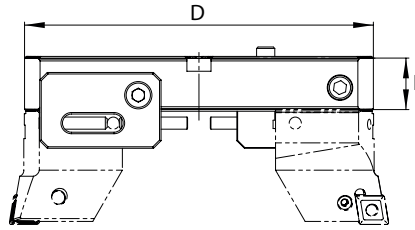
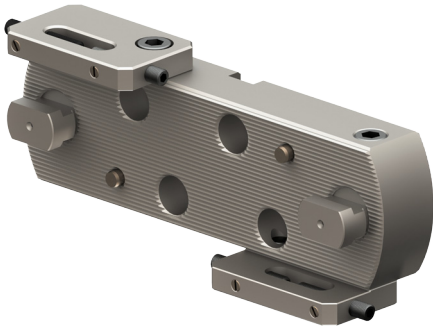
| Bestell-Nr. /<br>Order number /<br>Code | CSMS /<br>WH | D1  | L    | D2 | kg  | ①               | ②               | ③               | ④               | ⑤               |
|-----------------------------------------|--------------|-----|------|----|-----|-----------------|-----------------|-----------------|-----------------|-----------------|
| E04.340.130.069                         | CAT 40       | 130 | 69.1 |    | 3.3 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| E04.350.130.069                         | CAT 50       | 130 | 69.1 |    | 5.6 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| E14.440.130.069                         | ISO 40       | 130 | 69.1 |    | 3.3 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| E14.450.130.069                         | ISO 50       | 130 | 69.1 |    | 5.6 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| E34.540.130.077                         | BT 40        | 130 | 77   |    | 3.4 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| E34.550.130.088                         | BT 50        | 130 | 88   |    | 6.5 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| E44.806.130.075                         | HSK A63      | 130 | 77   |    | 2.8 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| E44.810.130.075                         | HSK A100     | 130 | 88   |    | 4.4 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| E54.090.130.055                         | WH8          | 130 | 55   | 90 | 3.0 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| V44.KM6.130.065                         | KM63         | 130 | 65   |    | 2.8 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |
| V44.KM8.130.070                         | KM80         | 130 | 70   |    | 3.9 | J00.514.016.016 | J00.515.006.015 | J00.516.012.025 | J00.500.028.015 | J00.500.005.025 |

## E60

Verlängerungskonsolen Ø150-655

Extension bridges Ø150-655

Extensions de traverses Ø150-655



| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | D   | L  | kg   |
|----------------------------------------|-------------|-------------|-----|----|------|
| E60.130.130.030                        | 150         | 205         | 130 | 30 | 1.9  |
| E60.130.180.030                        | 200         | 255         | 180 | 30 | 2.8  |
| E60.130.230.035                        | 250         | 305         | 230 | 35 | 4.0  |
| E60.130.280.035                        | 300         | 355         | 280 | 35 | 5.1  |
| E60.130.330.040                        | 350         | 405         | 330 | 40 | 6.9  |
| E60.130.380.040                        | 400         | 455         | 380 | 40 | 8.0  |
| E60.130.430.040                        | 450         | 505         | 430 | 40 | 9.2  |
| E60.130.480.040                        | 500         | 555         | 480 | 40 | 10.2 |
| E60.130.530.050                        | 550         | 605         | 530 | 50 | 13.9 |
| E60.130.580.050                        | 600         | 655         | 580 | 50 | 15.3 |

• für die Verwendung zu E04/E14/E34/E44/E54

• for use with E04/E14/E34/E44/E54

• Pour utilisation E04/E14/E34/E44/54

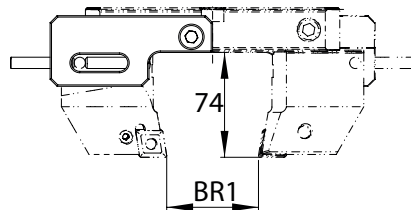
| ①               | ②               | ③               | ④               | ⑤               | ⑥               | ⑦               |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| J00.560.016.030 | J00.560.008.028 | J00.560.080.012 | J00.560.110.018 | J00.560.008.045 | J00.560.006.014 | J00.560.006.012 |

## E00

Einstellplatte zum Überdrehen

Adjustment plate for pin turning

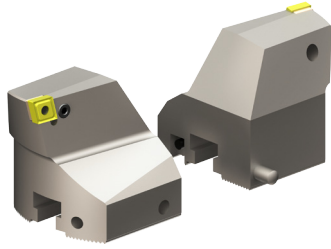
Plaque de réglage pour adaptateur  
pour le tournage



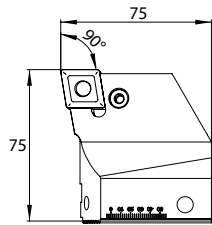
| Bestell-Nr. /<br>Order number/<br>Code | BR1<br>min. | BR1<br>max. | Für Verlängerungskonsole /<br>For extensions bridge / pour<br>Extensions de traverses | kg  |
|----------------------------------------|-------------|-------------|---------------------------------------------------------------------------------------|-----|
| E00.561.080.012                        | 10          | 65          | E60.130.180.030                                                                       | 0.9 |
| E00.561.080.012                        | 60          | 115         | E60.130.230.035                                                                       | 0.9 |
| E00.561.080.012                        | 110         | 165         | E60.130.280.035                                                                       | 0.9 |
| E00.561.080.012                        | 160         | 215         | E60.130.330.040                                                                       | 0.9 |
| E00.561.080.012                        | 210         | 265         | E60.130.380.040                                                                       | 0.9 |
| E00.561.080.012                        | 260         | 315         | E60.130.430.040                                                                       | 0.9 |
| E00.561.080.012                        | 310         | 365         | E60.130.480.040                                                                       | 0.9 |
| E00.561.080.012                        | 360         | 415         | E60.130.530.050                                                                       | 0.9 |
| E00.561.080.012                        | 410         | 465         | E60.130.580.050                                                                       | 0.9 |

## E70

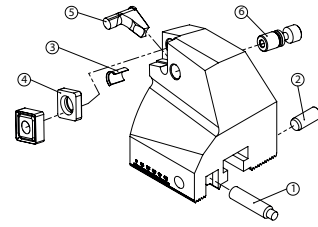
### Wendeplattenhalter 90°




### Insert holders 90°



### Porte-plaquettes 90°



| Bestell-Nr. /<br>Order number/<br>Code | Wendeplatte /<br>Insert /<br>Plaquette | kg  | ①               | ②               | ③               | ④               | ⑤               | ⑥               |  |
|----------------------------------------|----------------------------------------|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------------------------------------------------------------------|
| E70.070.009.075                        | CC .. 09 T3 ..                         | 3,2 | J00.570.008.035 | J00.570.008.024 |                 |                 |                 |                 | J00.254.040.009                                                                     |
| E70.070.012.075                        | CN .. 12 04 ..                         | 3,2 | J00.570.008.035 | J00.570.008.024 | J00.416.012.000 | J00.417.012.000 | J00.418.012.000 | J00.419.012.000 |                                                                                     |
| E70.070.019.075                        | CN .. 19 06 ..                         | 3,2 | J00.570.008.035 | J00.570.008.024 | J00.416.019.000 | J00.417.019.000 | J00.418.019.000 | J00.419.019.000 |                                                                                     |

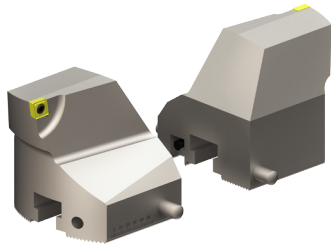
• Wendeplattenhalter werden paarweise geliefert

• insert holders will be supplied in pairs

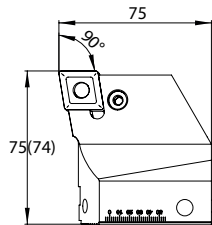
• Porte-plaquettes seront livrés par paire

## E75

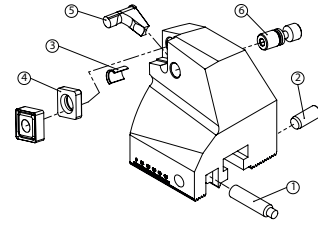
### Wendeplattenhalter 90° axial 1.0mm zurückgesetzt




### Insert holders 90° axial 1.0mm staggered



### Porte-plaquettes 90° en retrait axial de 1,0 mm



| Bestell-Nr. /<br>Order number/<br>Code | Wendeplatte /<br>Insert /<br>Plaquette | kg  | ①               | ②               | ③               | ④               | ⑤               | ⑥               |  |
|----------------------------------------|----------------------------------------|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------------------------------------------------------------------------|
| E75.070.009.074                        | CC .. 09 T3 ..                         | 3,2 | J00.570.008.035 | J00.570.008.024 |                 |                 |                 |                 | J00.254.040.009                                                                       |
| E75.070.012.074                        | CN .. 12 04 ..                         | 3,2 | J00.570.008.035 | J00.570.008.024 | J00.416.012.000 | J00.417.012.000 | J00.418.012.000 | J00.419.012.000 |                                                                                       |
| E75.070.019.074                        | CN .. 19 06 ..                         | 3,2 | J00.570.008.035 | J00.570.008.024 | J00.416.019.000 | J00.417.019.000 | J00.418.019.000 | J00.419.019.000 |                                                                                       |

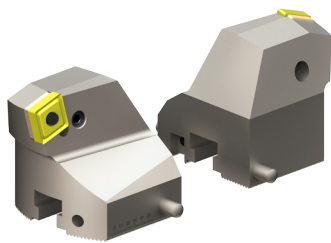
• Wendeplattenhalter werden paarweise geliefert

• insert holders will be supplied in pairs

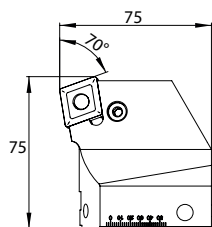
• Porte-plaquettes seront livrés par paire

## E80

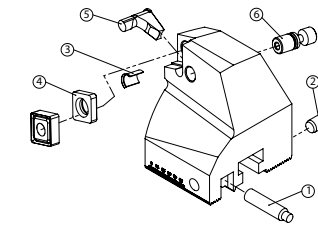
### Wendeplattenhalter 70°




### Insert holders 70°



### Porte-plaquettes 70°



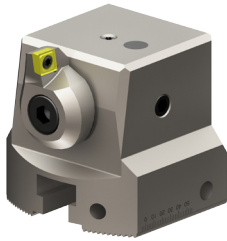
| Bestell-Nr. /<br>Order number/<br>Code | Wendeplatte /<br>Insert /<br>Plaquette | kg  | ①               | ②               | ③               | ④               | ⑤               | ⑥               |  |
|----------------------------------------|----------------------------------------|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------------------------------------------------------------------------|
| E80.070.019.075                        | CN .. 19 06 ..                         | 3,2 | J00.570.008.035 | J00.570.008.024 | J00.416.019.000 | J00.417.019.000 | J00.418.019.000 | J00.419.019.000 |                                                                                       |

• Wendeplattenhalter werden paarweise geliefert

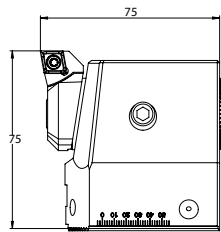
• insert holders will be supplied in pairs

• Porte-plaquettes seront livrés par paire

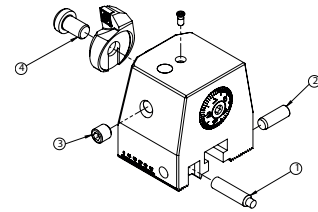
**E90**  
**Feinbohrkopf**



**Fine boring head**



**Tête d'alésage fin**



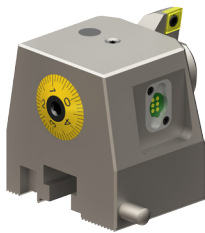
| Bestell-Nr. /<br>Order number/<br>Code | Wendeplattenhalter /<br>insert holder /<br>porte-inserts | Wendeplatte /<br>Insert /<br>Plaquette | kg  | ①               | ②               | ③               | ④               |  |
|----------------------------------------|----------------------------------------------------------|----------------------------------------|-----|-----------------|-----------------|-----------------|-----------------|-------------------------------------------------------------------------------------|
| E90.070.030.075                        | C14.030.067.006<br>C14.030.067.009                       | CC .. 06 02 ..<br>CC .. 09 T3 ..       | 2.1 | J00.570.008.035 | J00.570.008.024 | J00.590.010.020 | J00.314.010.016 | J00.254.025.006<br>J00.254.040.009                                                  |

- Durchmessereinstellung mit geringstem Umkehrspiel
- Zustellgenauigkeit von 0.01mm im Durchmesser
- Wendeplattenhalter müssen separat bestellt werden

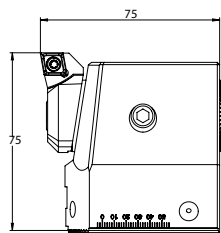
- diametrical adjustment with maximal reduced reversal backlash
- 0.01mm diametrical adjustment
- insert holder must be ordered separately

- réglage du diamètre avec un jeu réduit au minimum
- Réglage diamétral de 0,01 mm
- porte-plaquettes doivent être commandés séparément

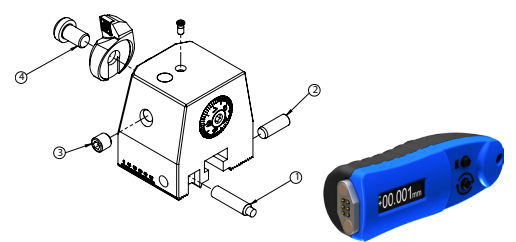
**E91**  
**Feinbohrkopf**  
**DIGITAL**



**Fine boring head**  
**DIGITAL**



**Tête d'alésage fin**  
**DIGITAL**



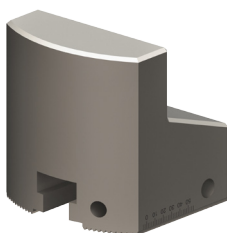
| Bestell-Nr. /<br>Order number/<br>Code | Wendeplattenhalter /<br>insert holder /<br>porte-inserts | Wendeplatte /<br>Insert /<br>Plaquette | kg  | ①               | ②               | ③               | ④               |  |
|----------------------------------------|----------------------------------------------------------|----------------------------------------|-----|-----------------|-----------------|-----------------|-----------------|---------------------------------------------------------------------------------------|
| E91.070.030.075                        | C14.030.067.006<br>C14.030.067.009                       | CC .. 06 02 ..<br>CC .. 09 T3 ..       | 2.1 | J00.570.008.035 | J00.570.008.024 | J00.590.010.020 | J00.314.010.016 | J00.254.025.006<br>J00.254.040.009                                                    |

- Einstellgenauigkeit 0.001mm im Durchmesser
- direktes Wegmeßsystem (kein Umkehrspiel)
- keine Batterie und Auswertelektronik im Werkzeug verbaut
- sehr einfache Bedienung
- digital und analog einsetzbar
- Anzeigeeinheit muss separat bestellt werden (C09.028.024.077)
- Wendeplattenhalter müssen separat bestellt werden

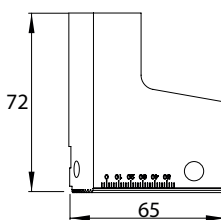
- 0.001 accuracy in diameter
- direct measurement system (no backlash)
- no battery and electronic evaluation unit inside the tool
- very easy operation
- for digital and analog use
- Display unit must be ordered separately (C09.028.024.077)

- Précision de réglage de 0,001 mm sur le diamètre
- système de mesure directe (sans jeu)
- pas de batterie ni de dispositif électronique d'évaluation installé dans l'outil
- fonctionnement très simple
- pour une utilisation numérique et analogique
- Unité d'affichage doit être commandé séparément (C09.028.024.077)
- porte-plaquettes doivent être commandés séparément

**E94**  
**Gegengewicht**










**Counterweight**



**Contre-poids**

| Bestell-Nr. /<br>Order number/<br>Code | kg  |
|----------------------------------------|-----|
| E94.070.065.072                        | 2.2 |












| Bestell-Nummer  | Wendeplatte | Schneidstoff                                                                            | Technische Informationen                                                                                                                                                                                                                                                                                                                                | Materialen                                                                                 | v [m/min]                                                 | f [mm/Z]            |
|-----------------|-------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------|
| Order number    | Insert      | Cutting mat.                                                                            | Technical information                                                                                                                                                                                                                                                                                                                                   | Materials                                                                                  | v [m/min]                                                 | f [mm/r]            |
| Code            | Plaquette   | Matière de coupe                                                                        | Informations techniques                                                                                                                                                                                                                                                                                                                                 | Matières                                                                                   | v [m/min]                                                 | f [mm/r]            |
| H00.600.050.022 | WCMT 020102 |  CTU   | <br><b>Cermet-Wendeplatte</b> (Titan-Carbid / Titan-Nitrid) für Feinbohrarbeiten mit hoher Schnittgeschwindigkeit und gleichmässigem Aufmass.                                                                                                                          | Stahl<br>Grauguss<br>Aluminium                                                             | 50–300<br>50–300<br>bis 800                               | 0.04<br>bis<br>0.10 |
|                 |             |                                                                                         | Titanium carbide / titanium nitride ( <b>Cermet</b> ) for fine bore machining with high cutting speed and regular cutting depth.                                                                                                                                                                                                                        | Steel<br>Cast Iron<br>Aluminium                                                            | 50–300<br>50–300<br>to 800                                | 0.04<br>to<br>0.10  |
|                 |             |                                                                                         | <b>Plaquette de Cermet</b> (carbure de titane / nitrure de titane) pour travaux d'alésage fin avec haute vitesse de coupe et profondeur de coupe régulière.                                                                                                                                                                                             | Acier<br>Fonte<br>Aluminium                                                                | 50–300<br>50–300<br>à 800                                 | 0.04<br>à<br>0.10   |
| H00.600.060.022 | WCGT 020102 |  HUP   | <br>Unbeschichtete <b>Hartmetall-Wendeplatte</b> , allseitig geschliffen mit grossem Spanwinkel für Feinbohrarbeiten. Die Wendeplatte eignet sich insbesondere bei kleinem Aufmass und langen Bohrungen.                                                               | Stahl<br>Stahl rostfrei<br>Grauguss<br>Aluminium                                           | 50–250<br>30–200<br>50–300<br>bis 800                     | 0.04<br>bis<br>0.10 |
|                 |             |                                                                                         | Uncoated Carbide insert, ground all around with large rake angle for fine bore cutting. The insert is particularly good for small cutting depth in deep bores.                                                                                                                                                                                          | Steel<br>Stainless steel<br>Cast iron<br>Aluminium                                         | 50–250<br>30–200<br>50–300<br>to 800                      | 0.04<br>to<br>0.10  |
|                 |             |                                                                                         | <b>Plaquette en carbure</b> non revêtue, rectifiée sur tous les côtés avec un grand angle de coupe pour les travaux d'alésage fin. La plaquette est particulièrement adaptée aux petites profondeurs de coupe et aux longs alésages.                                                                                                                    | Acier<br>Acier inox<br>Fonte<br>Aluminium                                                  | 50–250<br>30–200<br>50–300<br>à 800                       | 0.04<br>à<br>0.10   |
| H00.600.070.022 | WCGT 020102 |  SFH | <br>Mehrfach <b>beschichtete superfeinstkorn Hartmetall-Wendeplatte</b> zur Bearbeitung von harten und gehärteten Werkstoffen <b>bis 62 HRC</b> . Die Wendeplatte eignet sich hervorragend für Feinbohrarbeiten in gehärtetem Stahl als Alternative zum K-Schleifen. | Stahl weich                                                                                | bis 300                                                   | 0.04                |
| H00.600.070.024 | WCGT 020104 |      |                                                                                                                                                                                                                                                                                                                                                         | Stahl HRC 45<br>Stahl HRC 50<br>Stahl HRC 55<br>Stahl HRC 60<br>Stahl HRC 62               | 80–250<br>80–200<br>50–150<br>30–100<br>20– 60            | bis<br>0.20         |
|                 |             |                                                                                         | Repeat <b>coated extremely fine grain carbide</b> insert for machining of hard and hardened steels up <b>to 62 HRC</b> . Very suitable for fine boring of precision bores in hardened steel as an alternative to Jig-grinding.                                                                                                                          | Steel soft<br>Steel HRC 45<br>Steel HRC 50<br>Steel HRC 55<br>Steel HRC 60<br>Steel HRC 62 | bis 300<br>80–250<br>80–200<br>50–150<br>30–100<br>20– 60 | 0.04<br>to<br>0.20  |
|                 |             |                                                                                         | <b>Plaquette en carbure à grains super fins</b> multicouches pour l'usinage de matériaux durs et trempés jusqu'à <b>62 HRC</b> . Cette plaquette convient parfaitement aux travaux d'alésage fin dans l'acier trempé, comme alternative à la réctification par coordonnée.                                                                              | Acier soft<br>Acier HRC 45<br>Acier HRC 50<br>Acier HRC 55<br>Acier HRC 60<br>Acier HRC 62 | à 300<br>80–250<br>80–200<br>50–150<br>30–100<br>20– 60   | 0.04<br>à<br>0.20   |

HIT  
HRC+



# H00 Wendeplatten

## Inserts

## Plaquettes

| Bestell-Nummer  | Wendeplatte  | Schneidstoff                                                                            | Technische Informationen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Materialen                                                                                                   | v [m/min]                                                                          | f [mm/Z]                         |
|-----------------|--------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|
| Order number    | Insert       | Cutting mat.                                                                            | Technical information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Materials                                                                                                    | v [m/min]                                                                          | f [mm/r]                         |
| Code            | Plaquette    | Matière de coupe                                                                        | Informations techniques                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Matières                                                                                                     | v [m/min]                                                                          | f [mm/r]                         |
| H00.600.200.062 | CCMT 060202  |  CTU   |  <p><b>Cermet-Wendeplatte</b> (Titan-Carbid / Titan-Nitrid) für niedrige bis hohe Schnittgeschwindigkeiten beim Schlichten mit gleichbleibendem Aufmass. Auch für leichte Schrupparbeiten einsetzbar. Bester Widerstand gegen Verschleiss und Schneidekantendeformation. Geeignet für Feinbohrarbeiten mit normalem Aufmass von 0.25 mm im Durchmesser.</p> <p>Titanium carbide / titanium nitride <b>(Cermet)</b> for finishing with low to high cutting speeds with regular cutting depth. Also for light roughing. High resistance to wear and tip deformation. Suitable for fine boring with normal cutting depths from 0.25 mm in bored diameter.</p> | Stahl                                                                                                        | 50–300                                                                             | 0.08                             |
| H00.600.200.064 | CCMT 060204  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Stahl rostfrei                                                                                               | 30–250                                                                             | bis                              |
| H00.600.200.092 | CCMT 09T302  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Grauguss                                                                                                     | 50–300                                                                             | 0.15                             |
| H00.600.200.094 | CCMT 09T304  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Aluminium                                                                                                    | bis 800                                                                            |                                  |
| H00.600.200.098 | CCMT 09T308  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Buntmetall                                                                                                   | bis 500                                                                            |                                  |
| H00.600.200.128 | CCMT 120408  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                              |                                                                                    |                                  |
|                 |              |                                                                                         | <p>Acier</p> <p>Acier inox</p> <p>Fonte</p> <p>Aluminium</p> <p>Alliage de cuivre</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>50–300</p> <p>30–250</p> <p>50–300</p> <p>à 800</p> <p>à 500</p>                                          | <p>0.08</p> <p>à</p> <p>0.15</p>                                                   |                                  |
| H00.600.850.062 | CCGT 060202L |  ICH |  <p>Hochwiderstandsfähig gegen Brüche durch die besondere Zusammensetzung des Basismaterial plus der speziellen TiCN-Beschichtung. Sehr hohe mechanische Stabilität und Verschleissbeständigkeit. Sehr gut geeignet für unterbrochenen Schnitt.</p> <p>Excellent toughness and wear resistance due to the special composition of the base material plus the special TiCN coating. Very suitable for interrupted cuts</p>                                                                                                                                                                                                                                 | Stahl weich                                                                                                  | bis 300                                                                            | 0.04                             |
| H00.600.850.064 | CCGT 060204L |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Stahl HRC 45                                                                                                 | 80–250                                                                             | bis                              |
| H00.600.850.094 | CCGT 09T304L |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Stahl HRC 50                                                                                                 | 80–200                                                                             | 0.20                             |
|                 |              |                                                                                         | <p>Stahl HRC 55</p> <p>Stahl rostfrei</p> <p>Grauguss</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>50–150</p> <p>30–200</p> <p>50–300</p>                                                                    |                                                                                    |                                  |
|                 |              |                                                                                         | <p>Acier soft</p> <p>Acier HRC 45</p> <p>Acier HRC 50</p> <p>Acier HRC 55</p> <p>Stainless steel</p> <p>Cast iron</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>bis 300</p> <p>80–250</p> <p>80–200</p> <p>50–150</p> <p>30–200</p> <p>50–300</p>                         | <p>0.04</p> <p>to</p> <p>0.20</p>                                                  |                                  |
|                 |              |                                                                                         | <p>Haute résistance et tenacité à l'usure grâce à la composition spéciale de la matière de base et au revêtement spécial TiCN. Stabilité mécanique et résistance à l'usure très élevées. Très bien adapté à la coupe interrompue.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>Acier soft</p> <p>Acier HRC 45</p> <p>Acier HRC 50</p> <p>Acier HRC 55</p> <p>Acier inox</p> <p>Fonte</p> | <p>à 300</p> <p>80–250</p> <p>80–200</p> <p>50–150</p> <p>30–200</p> <p>50–300</p> | <p>0.04</p> <p>à</p> <p>0.20</p> |















**HIT  
HRC+**

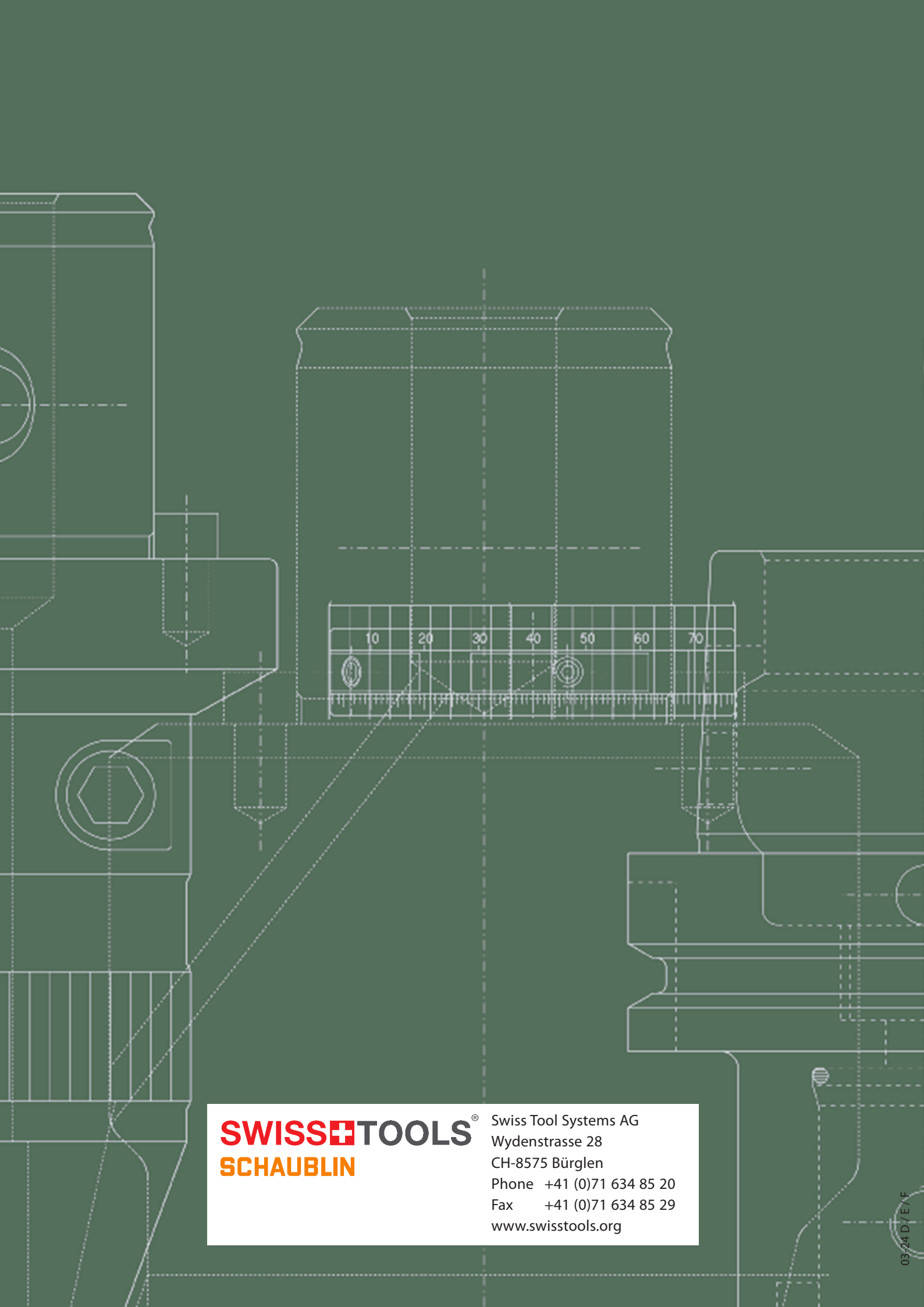
| Bestell-Nummer  | Wendeplatte    | Schneidstoff                                                                           | Technische Informationen                                                                                                                                                                                                                                                                                                                                            | Materialen                                                                                  | v [m/min]                                                 | f [mm/Z]            |
|-----------------|----------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------|
| Order number    | Insert         | Cutting mat.                                                                           | Technical information                                                                                                                                                                                                                                                                                                                                               | Materials                                                                                   | v [m/min]                                                 | f [mm/r]            |
| Code            | Plaquette      | Matière de coupe                                                                       | Informations techniques                                                                                                                                                                                                                                                                                                                                             | Matières                                                                                    | v [m/min]                                                 | f [mm/r]            |
| H00.600.300.062 | CCGT 060202L ○ | CTG   | Allseitig <b>geschliffene, hochpositive Cermet-Wendeplatte</b> (Titan-Carbid / Titan-Nitrid), für alle Feinbohrarbeiten. Die Wendeplatte eignet sich insbesondere bei kleinem Aufmass und langen Bohrungen. Durch den grossen Spanwinkel sind die Druck- und Schnittkräfte sehr gering.                                                                             | Stahl<br>Stahl rostfrei<br>Grauguss<br>Aluminium<br>Buntmetall                              | 50–300<br>30–250<br>50–250<br>bis 800<br>bis 500          | 0.06<br>bis<br>0.12 |
| H00.600.300.064 | CCGT 060204L ○ |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                           |                     |
| H00.600.300.092 | CCGT 09T302L ○ |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                           |                     |
| H00.600.300.094 | CCGT 09T304L ○ |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                           |                     |
| <b>HIT</b>      |                |                                                                                        | All ground, <b>Cermet</b> insert with highly positive rake angle for all fine bore machining. Very suitable for deep bores with small cutting depth. Low cutting and pressing forces due to large rake angle.                                                                                                                                                       | Steel<br>Stainless steel<br>Cast iron<br>Aluminium<br>Copper alloys                         | 50–300<br>30–250<br>50–250<br>to 800<br>to 500            | 0.06<br>to<br>0.12  |
|                 |                |                                                                                        | Plaquette en cermet (carbure de titane/nitride de titane) entièrement rectifiée et avec une géométrie hautement positive de coupe, pour tous les travaux d'alésage fin. La plaquette est particulièrement adaptée aux petites profondeurs d'alésage et aux longs alésages. En raison du grand angle de coupe, la pression et les forces de coupe sont très faibles. | Acier<br>Acier inox<br>Fonte<br>Aluminium<br>Alliage de cuivre                              | 50–300<br>30–250<br>50–250<br>à 800<br>à 500              | 0.06<br>à<br>0.12   |
| H00.600.800.062 | CCGT 060202L ○ | SFH  | Mehrfach <b>beschichtete superfeinstkorn Hartmetall-Wendeplatte</b> zur Bearbeitung von harten und gehärteten Werkstoffen <b>bis 62 HRC</b> . Die Wendeplatte eignet sich hervorragend für Feinbohrarbeiten in gehärtetem Stahl als Alternative zum K-Schleifen.                                                                                                    | Stahl weich<br>Stahl HRC 45<br>Stahl HRC 50<br>Stahl HRC 55<br>Stahl HRC 60<br>Stahl HRC 62 | bis 300<br>80–250<br>80–200<br>50–150<br>30–100<br>20– 60 | 0.04<br>bis<br>0.20 |
| H00.600.800.064 | CCGT 060204L ○ |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                           |                     |
| H00.600.800.092 | CCGT 09T302L ○ |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                           |                     |
| H00.600.800.094 | CCGT 09T304L ○ |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                                                           |                     |
| <b>HIT HRC+</b> |                |                                                                                        | Repeat <b>coated extremely fine grain carbide</b> insert for machining of hard and hardened steels up to <b>62 HRC</b> . Very suitable for fine boring of precision bores in hardened steel as an alternative to Jig-grinding.                                                                                                                                      | Steel soft<br>Steel HRC 45<br>Steel HRC 50<br>Steel HRC 55<br>Steel HRC 60<br>Steel HRC 62  | bis 300<br>80–250<br>80–200<br>50–150<br>30–100<br>20– 60 | 0.04<br>to<br>0.20  |
|                 |                |                                                                                        | <b>Plaquette en carbure à grains super fins</b> multicouches pour l'usinage de matériaux durs et trempés jusqu'à <b>62 HRC</b> . Cette plaquette convient parfaitement aux travaux d'alésage fin dans l'acier trempé, comme alternative à la réctification par coordonnée.                                                                                          | Acier soft<br>Acier HRC 45<br>Acier HRC 50<br>Acier HRC 55<br>Acier HRC 60<br>Acier HRC 62  | à 300<br>80–250<br>80–200<br>50–150<br>30–100<br>20– 60   | 0.04<br>à<br>0.20   |

# H00 Wendeplatten

## Inserts

## Plaquettes

| Bestell-Nummer  | Wendeplatte  | Schneidstoff                                                                            | Technische Informationen                                                                                                                                                                                                                                                                                                                                                                                                     | Materialen           | v [m/min] | f [mm/Z] |
|-----------------|--------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------|----------|
| Order number    | Insert       | Cutting mat.                                                                            | Technical information                                                                                                                                                                                                                                                                                                                                                                                                        | Materials            | v [m/min] | f [mm/r] |
| Code            | Plaquette    | Matière de coupe                                                                        | Informations techniques                                                                                                                                                                                                                                                                                                                                                                                                      | Matières             | v [m/min] | f [mm/r] |
| H00.600.400.064 | CCMT 060204  |  HBH   | <p>Mehrfach <b>beschichtete Hartmetall-Wendeplatte</b> mit hoher Verschleissfestigkeit und grossem Widerstand gegen plastische Verformung. Generell geeignet für die Stahlbearbeitung mit mittleren bis hohen Schnittgeschwindigkeiten.</p> <p>Repeat <b>coated carbide</b> insert with high wear and plastic deformation resistance. Generally used for machining of ferrous steels with middle to high cutting speeds.</p> | Stahl                | 20–280    | 0.10     |
| H00.600.400.094 | CCMT 09T304  |        |                                                                                                                                                                                                                                                                                                                                                                                                                              | Stahl rostfrei       | 30–250    | bis      |
| H00.600.400.098 | CCMT 09T308  |        |                                                                                                                                                                                                                                                                                                                                                                                                                              | Grauguss             | 50–250    | 0.40     |
| H00.600.401.128 | CCMT 1204.08 |        |                                                                                                                                                                                                                                                                                                                                                                                                                              | Sphäroguss           | 50–180    |          |
| H00.600.400.128 | CNMG 120408  |        |                                                                                                                                                                                                                                                                                                                                                                                                                              | Aluminium            | bis 800   |          |
| H00.600.400.168 | CNMG 160608  |        |                                                                                                                                                                                                                                                                                                                                                                                                                              | Buntmetall           | bis 500   |          |
| H00.600.400.169 | CNMG 160612  |        |                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |           |          |
| H00.600.400.198 | CNMG 190612  |        |                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |           |          |
| H00.600.400.199 | CNMG 190616  |        |                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |           |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Steel                | 20–280    | 0.10     |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Stainless steel      | 30–250    | to       |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Cast iron            | 50–250    | 0.40     |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Spheroidal cast iron | 50–180    |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Aluminium            | to 800    |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Copper alloys        | to 500    |          |
|                 |              |                                                                                         | <p>Plaquette en carbure multicouche avec une grande résistance à l'usure et à la déformation plastique. Généralement utilisée pour l'usinage de l'acier avec des vitesses de coupe de moyennes à élevées.</p>                                                                                                                                                                                                                | Acier                | 20–280    | 0.10     |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Acier inox           | 30–250    | à        |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Fonte                | 50–250    | 0.40     |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Fonte sphéroïdale    | 50–180    |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Aluminium            | à 800     |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Alliage de cuivre    | à 500     |          |
| H00.600.500.128 | CNMM 120408  |  HBZ | <p>Mehrfach <b>beschichtete Hartmetall-Wendeplatte</b> mit höchster Zähigkeit und Stabilität der Schneidekante. Geeignet für Stahlbearbeitung durch die positive Schneidegeometrie auch bei unterbrochenem Schnitt.</p> <p>Repeat <b>coated carbide</b> insert, very tough with high stability cutting edge. Suitable for machining of ferrous steels also with interrupted cut due to its positive cutting geometry.</p>    | Stahl                | 50–300    | 0.10     |
| H00.600.500.168 | CNMM 160608  |      |                                                                                                                                                                                                                                                                                                                                                                                                                              | Stahl rostfrei       | 30–250    | bis      |
| H00.600.500.169 | CNMM 160612  |      |                                                                                                                                                                                                                                                                                                                                                                                                                              | Grauguss             | 50–300    | 0.60     |
| H00.600.500.198 | CNMM 190612  |      |                                                                                                                                                                                                                                                                                                                                                                                                                              | Sphäroguss           | 50–200    |          |
| H00.600.500.199 | CNMM 190616  |      |                                                                                                                                                                                                                                                                                                                                                                                                                              | Aluminium            | bis 800   |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Buntmetall           | bis 500   |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Steel                | 50–300    | 0.10     |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Stainless steel      | 30–250    | to       |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Cast iron            | 50–300    | 0.60     |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Spheroidal cast iron | 50–200    |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Aluminium            | to 800    |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Copper alloys        | to 500    |          |
|                 |              |                                                                                         | <p>Plaquette en carbure multicouche avec une ténacité et une stabilité maximales de l'arête de coupe. Convient à l'usinage de l'acier grâce à la géométrie positive de coupe, aussi en cas de coupe interrompue.</p>                                                                                                                                                                                                         | Acier                | 50–300    | 0.10     |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Acier inox           | 30–250    | à        |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Fonte                | 50–300    | 0.60     |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Fonte sphéroïdale    | 50–200    |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Aluminium            | à 800     |          |
|                 |              |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              | Alliage de cuivre    | à 500     |          |



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