

# IN-Line



**APPLITEC**  
CUTTING TOOLS

## Index

|                                                                                                                                                                                                |                             |                                                                                                                                                                         |         |
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## Codification des porte-outils

Kodifizierung für Halter  
Coding guide for holders

**BH-D / BHS**  
**BHS-D / BHY-D**

**H****HS****HY**

**B H 4 - D 20 - 100**

Ligne produit d'alésage  
Innendreihen Produktlinie  
Boring product line

Porte-outils  
Halter  
Holders

Ø alésage  
Bohrung Ø  
Bore Ø

Queue cylindrique  
Zylindrischer Schaft  
Cylindrical shank

Ø/∅ queue  
Schaft Ø/∅  
Shank Ø/∅

Longueur  
Länge  
Length



HK

|   |    |   |   |   |    |   |     |
|---|----|---|---|---|----|---|-----|
| B | HK | 4 | N | - | 20 | - | 32R |
|---|----|---|---|---|----|---|-----|

Barres d'alésage compatibles (longueur L3)  
Kompatible Bohrstangen (Länge L3)  
Compatible boring bars (length L3)

∅ queue  
Schaft ∅  
Shank ∅

Géométrie du porte-outil  
Haltergeometrie  
Tool holder geometry

∅ alésage  
Bohrung ∅  
Bore ∅

Porte-outils  
Halter  
Holders

Ligne produit d'alésage  
Innendrehen Produktlinie  
Boring product line

# Codification des barres d'alésage

Kodifizierung für Bohrstangen

Coding guide for holders



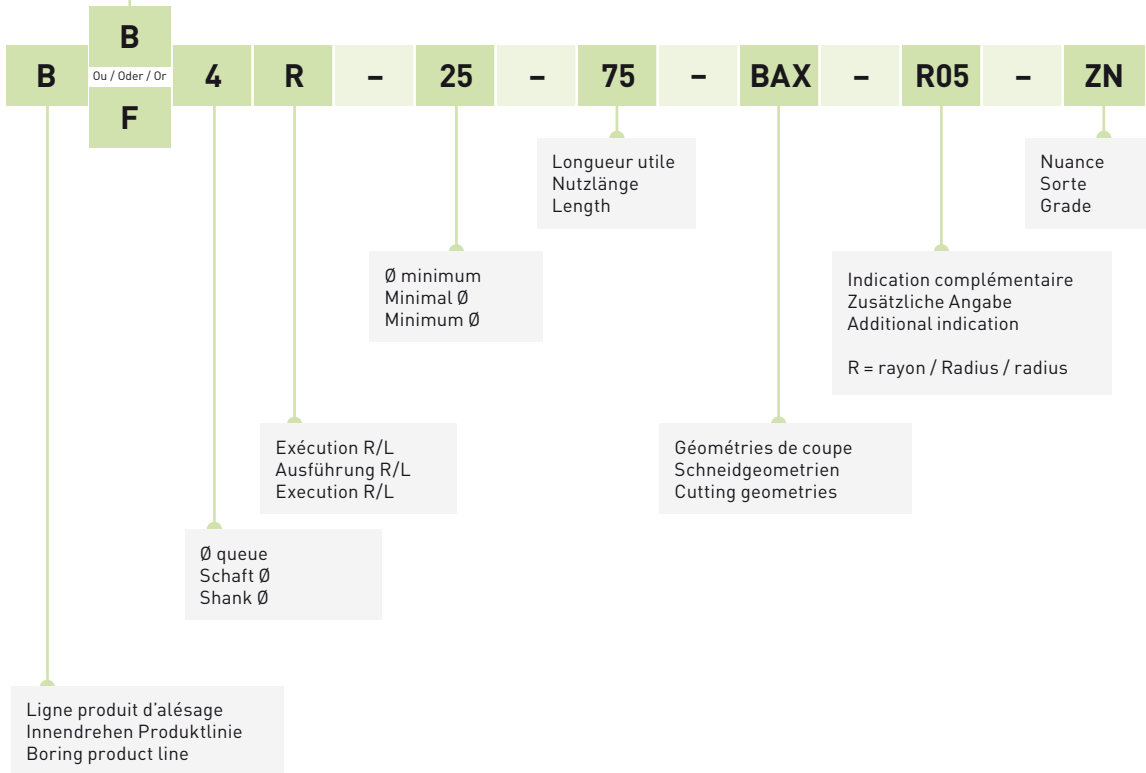
**B**

Arrosage intégré  
Integrierter Kühlmittelzufuhr  
Integrated coolant supply



**F**

Sans arrosage  
Ohne Kühlung  
Without coolant



### Infos et avantages

Infos und Vorteile

Infos and advantages

### Porte-outils avec écrou de serrage

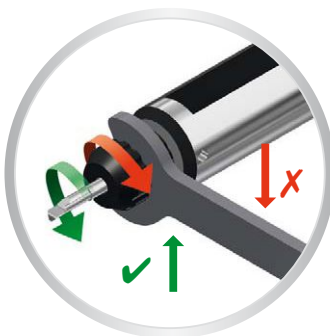
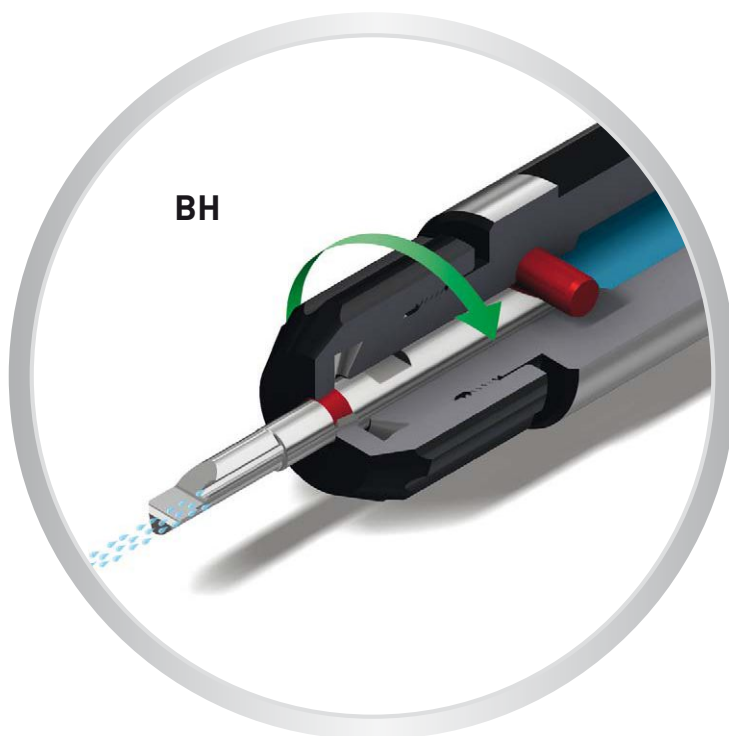
Halter mit Spannmutter

Holders with clamping nut

Arrosage par la barre d'alésage

Kühlung durch die Bohrstange

Cooling through the boring bar



## Porte-outils avec arrosage multiple

Halter mit mehrfaches Kühlungssystem  
Holders with multiple coolant system

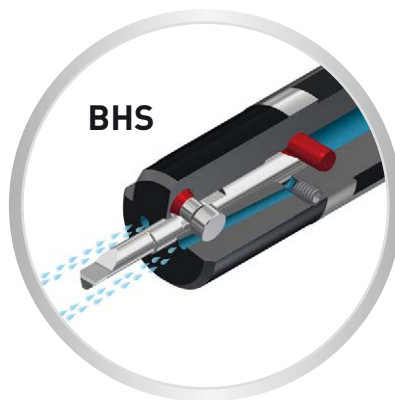
## Infos et avantages

Infos und Vorteile  
Infos and advantages

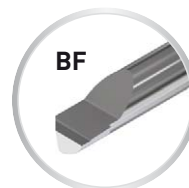
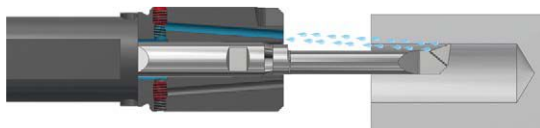
Système de serrage à vis transversale

Querverschraubungsspannsystem

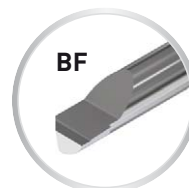
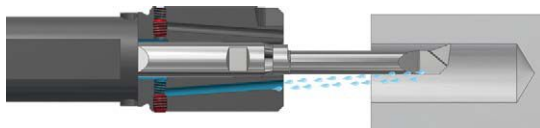
Clamping system with transverse screw



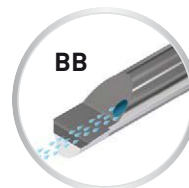
Arrosage sur l'arête de coupe  
Kühlung auf der Schneidkante  
Cooling on the cutting edge



Arrosage favorisant l'évacuation des copeaux  
Spanabfuhr fördernde Kühlung  
Cooling for better chip outflow



Arrosage par le centre de l'outil  
Zentrale Kühlmittelzufuhr  
Cooling through the center of the tool



## IN-Line

### Infos et avantages

Infos und Vorteile

Infos and advantages

### Porte-outils à serrage hydraulique

Hydro-Dehnspann-System Halter

Holders with hydraulic clamping system

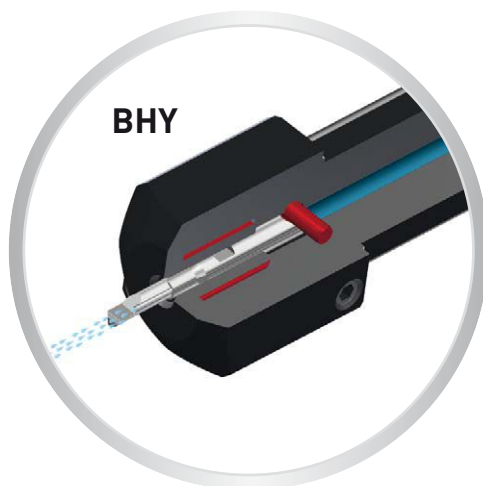


Excellente absorption des vibrations  
Ausgezeichnete Schwingungsdämpfung  
Excellent vibration absorbtion

Arrosage par la barre d'alésage

Kühlung durch die Bohrstange

Cooling through the boring bar



### Infos et avantages

Infos und Vorteile

Infos and advantages

### Porte-outils coudés

Gekröpfte Halter

Cranked holders

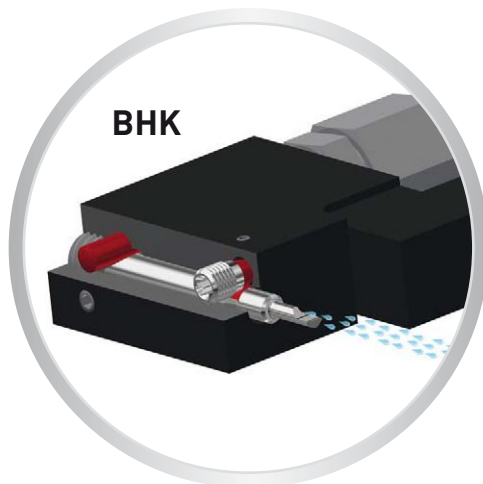
Système de serrage à vis transversale  
Querverschraubungssystem  
Clamping system with transverse screw



Arrosage par la barre d'alésage

Kühlung durch die Bohrstange

Cooling through the boring bar





**Recommandations de serrage**

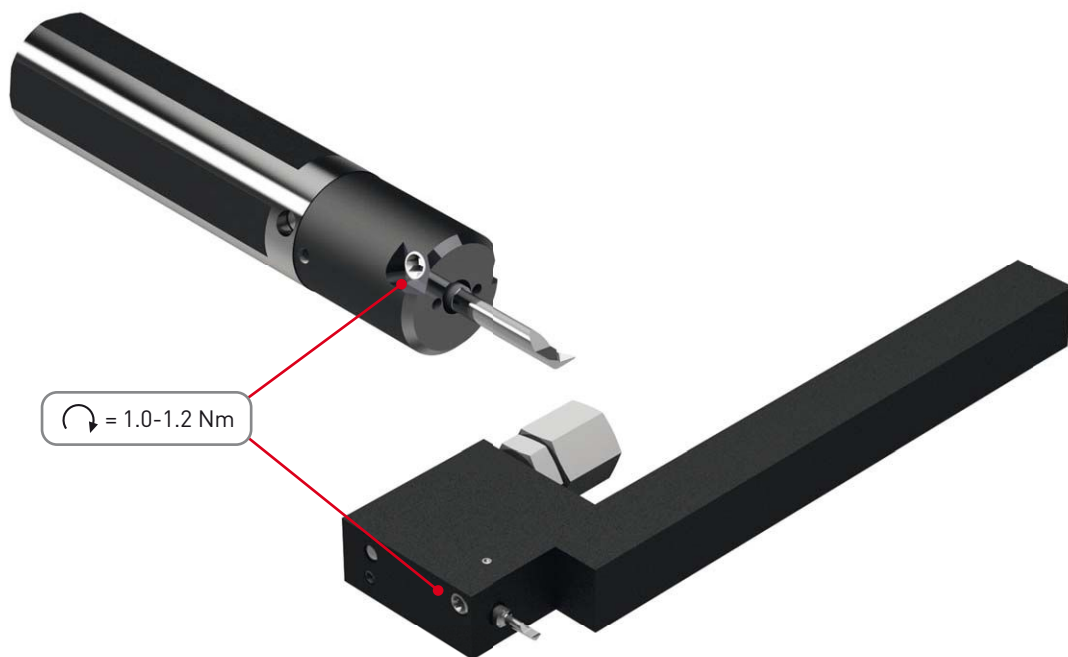
Spannempfehlungen

Clamping recommendations

**Infos et avantages**

Infos und Vorteile

Infos and advantages



Nous recommandons le serrage des porte-outils type BHS et BHK avec ce type de tournevis dynamométrique.

Wir empfehlen für das Anziehen der Halter Typ BHS und BHK diese Art von Drehmomentschraubendreher.

For holders type BHS and BHK clamping, we recommend this kind of torque screwdriver.



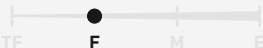
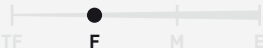
Art. N°

SET-NM1.2-TX8

## Nuances

Sorten

Grades

|             |                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                         |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>μK30</p> | <p><b>ZTAF</b></p>  <ul style="list-style-type: none"> <li>• nuance universelle pour l'usage des aciers, aciers inoxydables, aciers alliés, alliages de titane</li> <li>• bonne résistance à la température</li> </ul>                                                                            | <p> K30</p> <p><b>ZN + revêtement PVD</b><br/>ZN + PVD Beschichtung<br/>ZN + PVD coating</p>  <p> <br/> <br/> <br/>  </p> <ul style="list-style-type: none"> <li>• Vielzweck-Hartmetallsorte für die Bearbeitung von Stahl, rostfreien Stählen, Stahllegierung, Titanlegierung</li> <li>• gute Warmfestigkeit</li> </ul>                                                                 | <ul style="list-style-type: none"> <li>• universal grade for steel, stainless steel, alloyed steel, titanium alloys</li> <li>• good heat resistance</li> </ul>                                                                                          |
| <p>μK30</p> | <p><b>ZTAXF</b></p>  <ul style="list-style-type: none"> <li>• nuance très résistante à l'usure et à la température, recommandée pour l'usinage des matières suivantes : inox 304, 316L, 317L, 904, Phynox</li> <li>• aciers alliés contenant : chrome nickel, vanadium, molybdène, ...</li> </ul> | <p> K30</p> <p><b>ZN + revêtement PVD</b><br/>ZN + PVD Beschichtung<br/>ZN + PVD coating</p>  <p> <br/> <br/> <br/>  </p> <ul style="list-style-type: none"> <li>• sehr verschleissfeste und temperaturbeständige Sorte, für folgende Materialien empfohlen : Inox 304, 316L, 317L, 904, Phynox</li> <li>• legierter Stahl enthaltend : Chrom-Nickel, Vanadium, Molybdän, ...</li> </ul> | <ul style="list-style-type: none"> <li>• very wear and high temperature resistant grade, recommended for following material : Inox 304, 316L, 317L, 904, Phynox</li> <li>• alloy steel containing : Chrome-nickel, Vanadium, Molybdenum, ...</li> </ul> |
| <p>μK30</p> | <p><b>ZN</b></p>  <ul style="list-style-type: none"> <li>• nuance de base micro-grain tenace</li> <li>• 1<sup>er</sup> choix pour l'usinage des métaux non ferreux</li> </ul>                                                                                                                   | <p> K30</p> <p><b>Non revêtu</b><br/>Unbeschichtet<br/>Uncoated</p> <p> <br/> <br/> <br/>  </p> <ul style="list-style-type: none"> <li>• zähe Basis Feinkornsorte</li> <li>• erste Wahl für die Bearbeitung von Nichteisenmetalle</li> </ul>                                                                                                                                                                                                                    | <ul style="list-style-type: none"> <li>• tough base micro-grain grade</li> <li>• first choice for non-ferrous materials</li> </ul>                                                                                                                      |

## Paramètres de coupe

Schnittwerte

Machining data

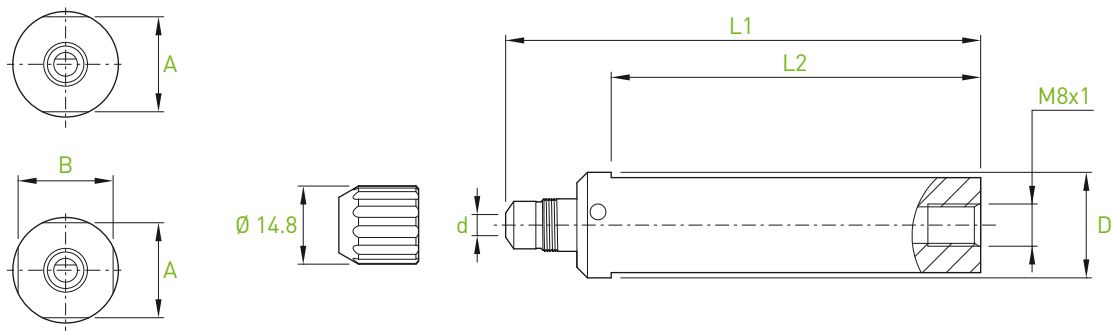
| Matière<br>Werkstoff<br>Material                                                          | VC<br>(m/min) | Ø barre d'alésage<br>Bohrstange Ø<br>boring bar Ø |                       |                       |
|-------------------------------------------------------------------------------------------|---------------|---------------------------------------------------|-----------------------|-----------------------|
|                                                                                           |               | Ø1.0 - Ø2.0<br>(mm/U)                             | Ø2.5 - Ø4.0<br>(mm/U) | Ø4.5 - Ø5.5<br>(mm/U) |
| Acier de décolletage<br>Automatenstahl<br>Free-cutting steel <span>P</span>               | 60-100        | 0.02-0.03                                         | 0.02-0.08             | 0.03-0.10             |
| Acier faiblement allié<br>Leicht legierter Stahl<br>Low alloyed steel <span>P</span>      | 50-80         | 0.01-0.03                                         | 0.02-0.05             | 0.03-0.06             |
| Acier fortement allié<br>Legierter Stahl<br>High alloyed steel <span>P</span>             | 40-60         | 0.01-0.02                                         | 0.02-0.04             | 0.02-0.06             |
| Acier inoxydable<br>Rostfreistahl<br>Stainless steel <span>M</span>                       | 40-90         | 0.01-0.03                                         | 0.02-0.05             | 0.03-0.08             |
| Aluminium <span>N</span>                                                                  | 60-150        | 0.01-0.03                                         | 0.02-0.06             | 0.03-0.10             |
| Cuivre, laiton, bronze<br>Kupfer, Messing, Bronze<br>Copper, brass, bronze <span>N</span> | 60-150        | 0.01-0.03                                         | 0.02-0.05             | 0.03-0.08             |
| Titane<br>Titan<br>Titanium <span>S</span>                                                | 30-70         | 0.01-0.03                                         | 0.02-0.05             | 0.03-0.10             |

## BH4-D

Porte-outils avec écrou de serrage

Halter mit Spannmutter

Holders with clamping nut



| d | Bars             | D     | L1  | L2  | A x B     | 2 flats | 4 flats | Art. N°          |
|---|------------------|-------|-----|-----|-----------|---------|---------|------------------|
| 4 | BB4...<br>BF4... | 10    | 75  | 55  | 8.8x8.8   | ●       |         | BH4-D10-75       |
|   |                  | 12    | 75  | 55  | 11.2x11.2 | ●       |         | BH4-D12-75       |
|   |                  | 12.7  | 75  | 55  | 11.2x11.2 | ●       |         | BH4-D12.7-75     |
|   |                  | 15.87 | 75  | 55  | 14x14     |         | ●       | BH4-D15.87-75-F4 |
|   |                  | 16    | 75  | 55  | 14x14     | ●       |         | BH4-D16-75       |
|   |                  | 16    | 75  | 55  | 14x14     |         | ●       | BH4-D16-75-F4    |
|   |                  | 16    | 110 | 90  | 14x14     |         | ●       | BH4-D16-110-F4   |
|   |                  | 19.05 | 90  | 70  | 17x17     |         | ●       | BH4-D19.05-90-F4 |
|   |                  | 20    | 90  | 70  | 18x18     | ●       |         | BH4-D20-90       |
|   |                  | 20    | 90  | 70  | 18x18     |         | ●       | BH4-D20-90-F4    |
|   |                  | 20    | 160 | 140 | 18x18     |         | ●       | BH4-D20-160-F4   |
|   |                  | 22    | 90  | 70  | 20x20     | ●       |         | BH4-D22-90       |
|   |                  | 22    | 90  | 70  | 20x20     |         | ●       | BH4-D22-90-F4    |
|   |                  | 22    | 130 | 110 | 20x20     |         | ●       | BH4-D22-130-F4   |
|   |                  | 25    | 100 | 80  | 23x23     | ●       |         | BH4-D25-100      |
|   |                  | 25    | 100 | 80  | 23x23     |         | ●       | BH4-D25-100-F4   |
|   |                  | 25    | 170 | 150 | 23x23     |         | ●       | BH4-D25-170-F4   |
|   |                  | 25.4  | 100 | 80  | 23.4x23.4 | ●       |         | BH4-D25.4-100    |
|   |                  | 28    | 100 | 80  | 26x26     | ●       |         | BH4-D28-100      |

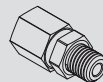
Pièces de rechange  
Ersatzteile  
Spare parts

Art. N°



Art. N°

Option



Art. N°

BH4...

BH4-M10

C-BH4-M10

BH4...

J-M8X1-D6

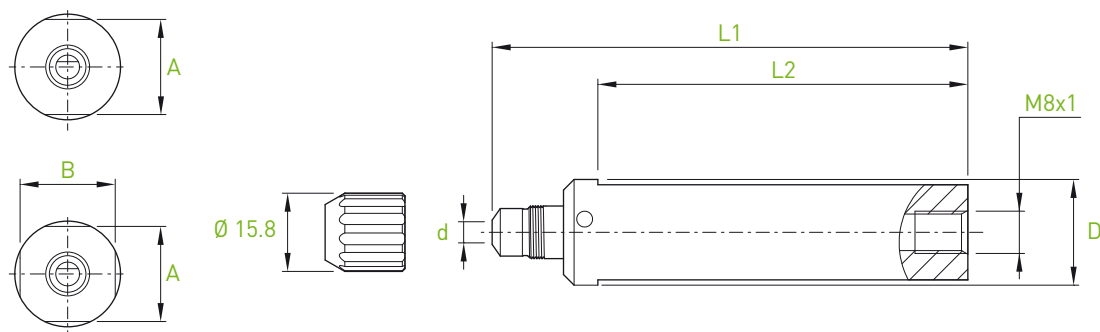
more option  
see JET-Line

## Porte-outils avec écrou de serrage

Halter mit Spannmutter

Holders with clamping nut

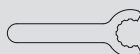
BH6-D



| d | Bars             | D     | L1  | L2  | A x B     | 2 flats | 4 flats | Art. N°        |
|---|------------------|-------|-----|-----|-----------|---------|---------|----------------|
| 6 | BB6...<br>BF6... | 12    | 75  | 55  | 11.2x11.2 | ●       |         | BH6-D12-75     |
|   |                  | 12.7  | 75  | 55  | 11.2x11.2 | ●       |         | BH6-D12.7-75   |
|   |                  | 15.87 | 75  | 55  | 14x14     | ●       |         | BH6-D15.87-75  |
|   |                  | 16    | 75  | 55  | 14x14     | ●       |         | BH6-D16-75     |
|   |                  | 19.05 | 90  | 70  | 17x17     | ●       |         | BH6-D19.05-90  |
|   |                  | 20    | 90  | 70  | 18x18     | ●       |         | BH6-D20-90     |
|   |                  | 20    | 90  | 70  | 18x18     |         | ●       | BH6-D20-90-F4  |
|   |                  | 20    | 160 | 140 | 18x18     |         | ●       | BH6-D20-160-F4 |
|   |                  | 22    | 90  | 70  | 20x20     | ●       |         | BH6-D22-90     |
|   |                  | 22    | 90  | 70  | 20x20     |         | ●       | BH6-D22-90-F4  |
|   |                  | 22    | 130 | 110 | 20x20     |         | ●       | BH6-D22-130-F4 |
|   |                  | 25    | 100 | 80  | 23x23     | ●       |         | BH6-D25-100    |
|   |                  | 25    | 100 | 80  | 23x23     |         | ●       | BH6-D25-100-F4 |
|   |                  | 25    | 170 | 150 | 23x23     |         | ●       | BH6-D25-170-F4 |
|   |                  | 25.4  | 100 | 80  | 23.4x23.4 | ●       |         | BH6-D25.4-100  |
|   |                  | 28    | 100 | 80  | 26x26     | ●       |         | BH6-D28-100    |

Pièces de rechange  
Ersatzteile  
Spare parts

Art. N°



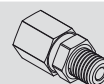
Art. N°

BH6...

BH6-M12

C-BH6-M12

Option



Art. N°

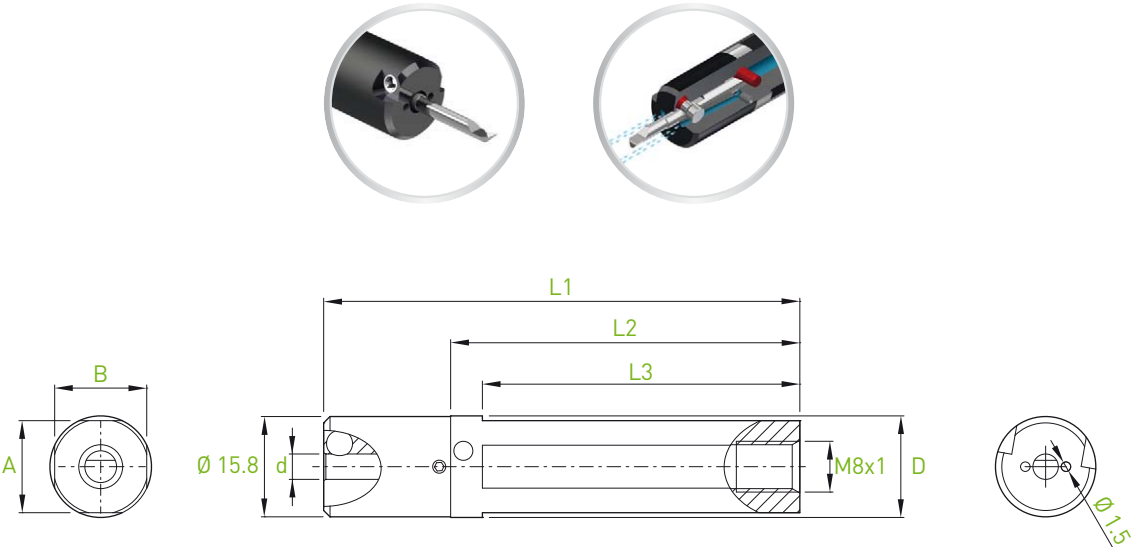
BH6...

J-M8X1-D6

more option  
see JET-Line

BHS4-D

Porte-outils avec arrosage multiple  
Halter mit mehrfaches Kühlungssystem  
Holders with multiple coolant system



| d | Bars             | D     | L1  | L2  | L3  | A x B     | Art. N°           |
|---|------------------|-------|-----|-----|-----|-----------|-------------------|
| 4 | BB4...<br>BF4... | 10    | 75  | 55  | 50  | 9.2x9.2   | BHS4-D10-75-F4    |
|   |                  | 12    | 75  | 55  | 50  | 11x11     | BHS4-D12-75-F4    |
|   |                  | 12.7  | 75  | 55  | 50  | 11.7x11.7 | BHS4-D12.7-75-F4  |
|   |                  | 15.87 | 75  | 55  | 50  | 14.5x14.5 | BHS4-D15.87-75-F4 |
|   |                  | 16    | 75  | 55  | 50  | 14.5x14.5 | BHS4-D16-75-F4    |
|   |                  | 16    | 110 | 90  | 85  | 14.5x14.5 | BHS4-D16-110-F4   |
|   |                  | 19.05 | 90  | 70  | 65  | 17x17     | BHS4-D19.05-90-F4 |
|   |                  | 20    | 90  | 70  | 65  | 18x18     | BHS4-D20-90-F4    |
|   |                  | 20    | 160 | 140 | 135 | 18x18     | BHS4-D20-160-F4   |
|   |                  | 22    | 90  | 70  | 65  | 20x20     | BHS4-D22-90-F4    |
|   |                  | 22    | 130 | 110 | 105 | 20x20     | BHS4-D22-130-F4   |
|   |                  | 25    | 100 | 80  | 75  | 23x23     | BHS4-D25-100-F4   |
|   |                  | 25    | 170 | 150 | 145 | 23x23     | BHS4-D25-170-F4   |
|   |                  | 25.4  | 100 | 80  | 75  | 23x23     | BHS4-D25.4-100-F4 |
|   |                  | 28    | 100 | 80  | 75  | 26x26     | BHS4-D28-100-F4   |

Pièces de rechange  
Ersatzteile  
Spare parts

Art. N°

BHS4...

V-BHS-M4X0.5-T8

Option

Art. N°

BHS4...

C-T8

Art. N°

J-M8X1-D6

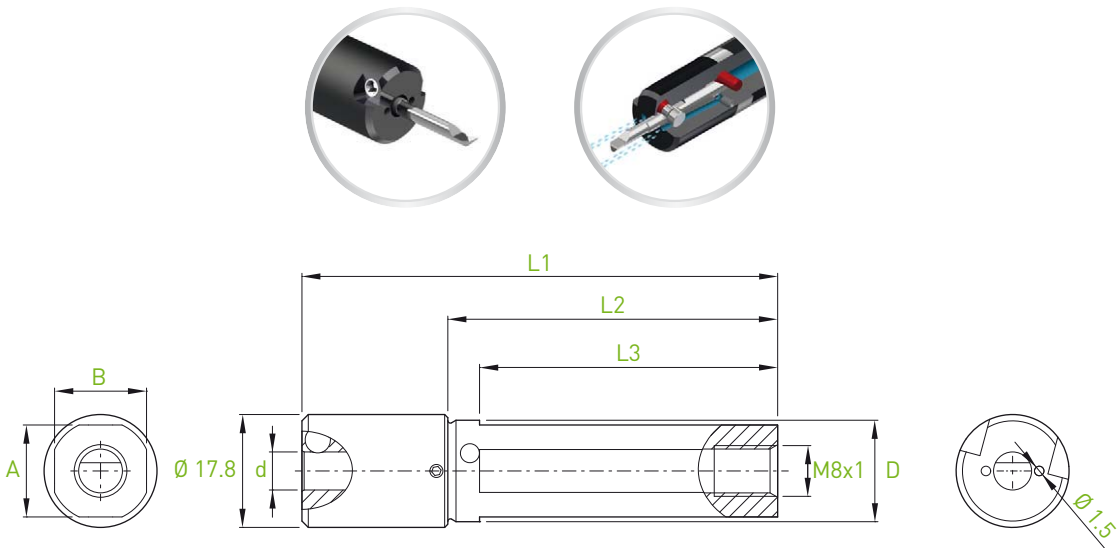
more option  
see JET-Line

Art. N°

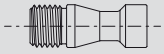
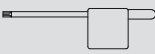
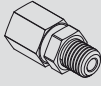
SET-NM1.2-TX8

Porte-outils avec arrosage multiple  
Halter mit mehrfaches Kühlungssystem  
Holders with multiple coolant system

BHS6-D

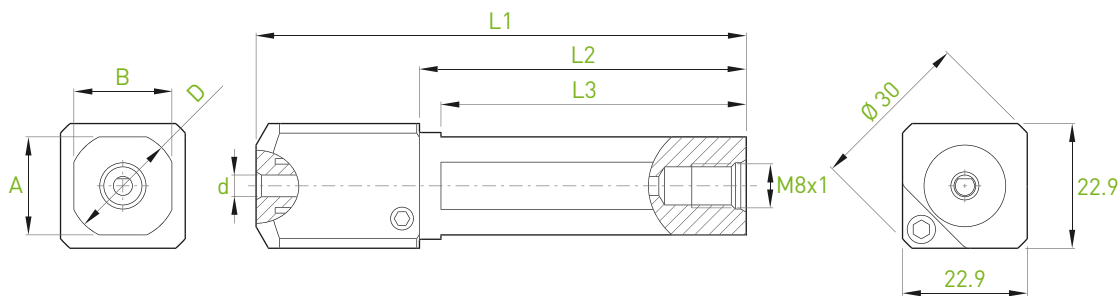
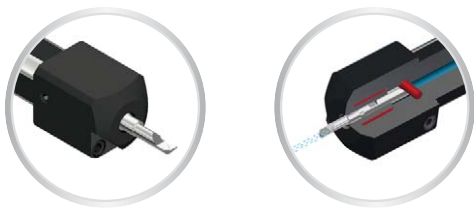


| d | Bars             | D     | L1  | L2  | L3  | A x B     | Art. N°           |
|---|------------------|-------|-----|-----|-----|-----------|-------------------|
| 6 | BB6...<br>BF6... | 12    | 75  | 52  | 47  | 11x11     | BHS6-D12-75-F4    |
|   |                  | 12.7  | 75  | 52  | 47  | 11.7x11.7 | BHS6-D12.7-75-F4  |
|   |                  | 15.87 | 75  | 52  | 47  | 14.5x14.5 | BHS6-D15.87-75-F4 |
|   |                  | 16    | 75  | 52  | 47  | 14.5x14.5 | BHS6-D16-75-F4    |
|   |                  | 16    | 110 | 87  | 82  | 14.5x14.5 | BHS6-D16-110-F4   |
|   |                  | 19.05 | 90  | 67  | 62  | 17x17     | BHS6-D19.05-90-F4 |
|   |                  | 20    | 90  | 67  | 62  | 18x18     | BHS6-D20-90-F4    |
|   |                  | 20    | 160 | 137 | 132 | 18x18     | BHS6-D20-160-F4   |
|   |                  | 22    | 90  | 67  | 62  | 20x20     | BHS6-D22-90-F4    |
|   |                  | 22    | 130 | 107 | 102 | 20x20     | BHS6-D22-130-F4   |
|   |                  | 25    | 100 | 77  | 72  | 23x23     | BHS6-D25-100-F4   |
|   |                  | 25    | 170 | 147 | 142 | 23x23     | BHS6-D25-170-F4   |
|   |                  | 25.4  | 100 | 77  | 72  | 23x23     | BHS6-D25.4-100-F4 |
|   |                  | 28    | 100 | 77  | 72  | 26x26     | BHS6-D28-100-F4   |

|                                                  |                                                                                     |         |         |                                                                                     |         |                                                                                      |               |                                                                                       |         |
|--------------------------------------------------|-------------------------------------------------------------------------------------|---------|---------|-------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|---------|
| Pièces de rechange<br>Ersatzteile<br>Spare parts |  | Art. N° | Option  |  | Art. N° |  | Art. N°       |  | Art. N° |
| BHS4...                                          | V-BHS-M4X0.5-T8                                                                     |         | BHS6... | C-T8                                                                                |         | J-M8X1-D6<br>more option<br>see JET-Line                                             | SET-NM1.2-TX8 |                                                                                       |         |

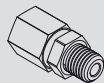
BHY4-D

Porte-outils à serrage hydraulique  
Hydro-Dehnspan-System Halter  
Holders with hydraulic clamping system



| d | Bars             | D     | L1  | L2 | L3 | A x B     | Art. N°           |
|---|------------------|-------|-----|----|----|-----------|-------------------|
| 4 | BB4...<br>BF4... | 12    | 90  | 60 | 55 | 11.2x11.2 | BHY4-D12-90-F4    |
|   |                  | 16    | 90  | 60 | 55 | 14.5x14.5 | BHY4-D16-90-F4    |
|   |                  | 19.05 | 90  | 60 | 55 | 17x17     | BHY4-D19.05-90-F4 |
|   |                  | 20    | 90  | 60 | 55 | 18x18     | BHY4-D20-90-F4    |
|   |                  | 22    | 90  | 60 | 55 | 20x20     | BHY4-D22-90-F4    |
|   |                  | 25    | 100 | 70 | 65 | 23x23     | BHY4-D25-100-F4   |

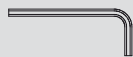
Pièces de rechange  
Ersatzteile  
Spare parts



Art. N°

J-M8X1-D6

more option  
see JET-Line



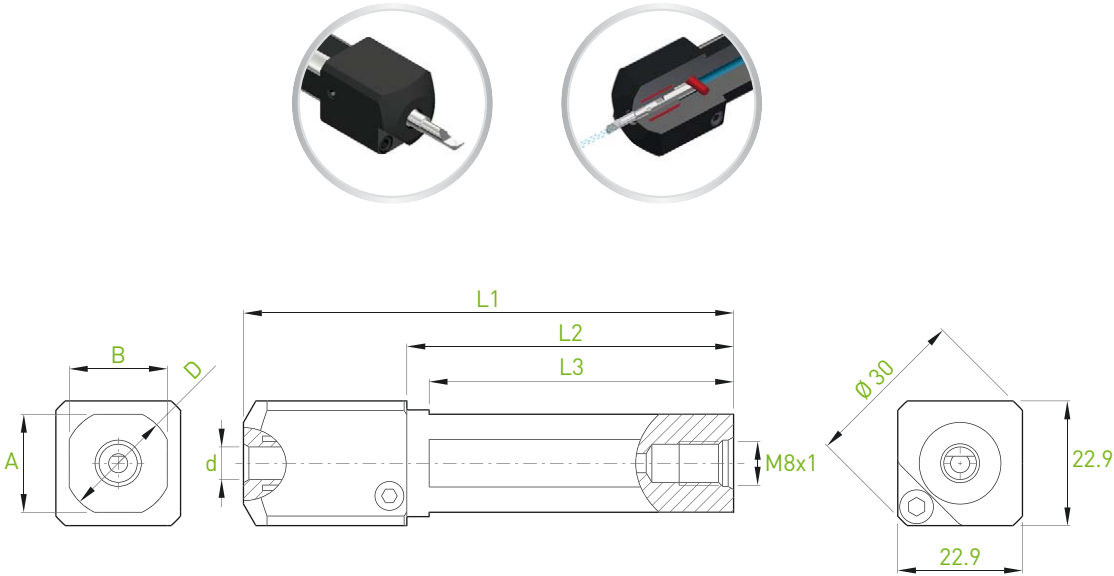
Art. N°

C-6P-3.0

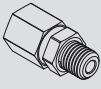
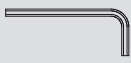


Porte-outils à serrage hydraulique  
Hydro-Dehnspann-System Halter  
Holders with hydraulic clamping system

BHY6-D

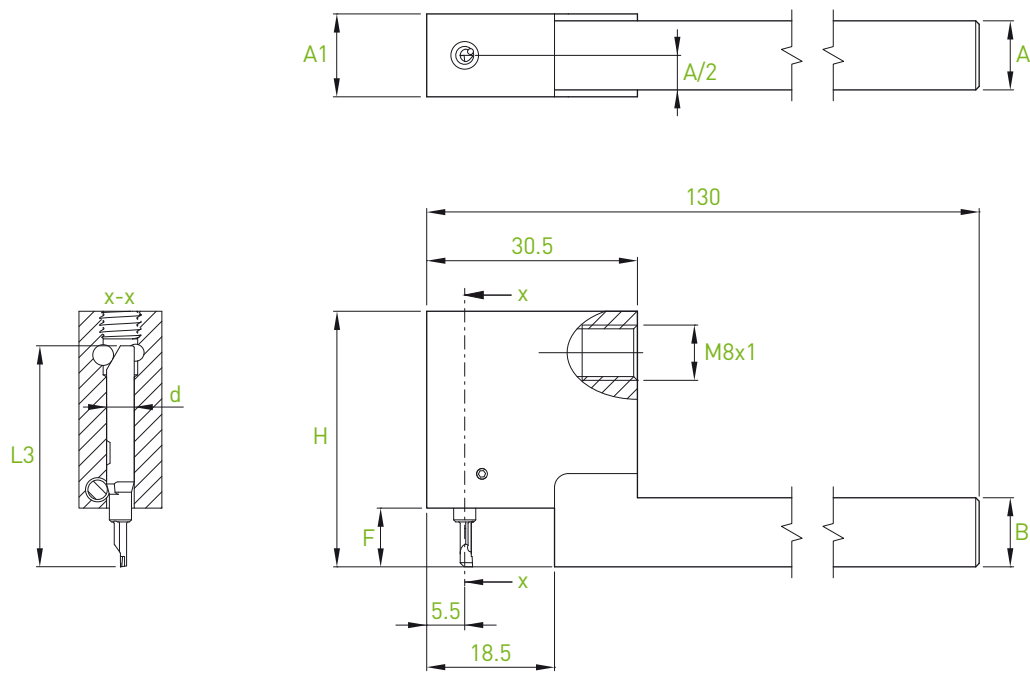


| d | Bars             | D     | L1  | L2 | L3 | A x B     | Art. N°           |
|---|------------------|-------|-----|----|----|-----------|-------------------|
| 6 | BB6...<br>BF6... | 12    | 90  | 60 | 55 | 11.2x11.2 | BHY6-D12-90-F4    |
|   |                  | 16    | 90  | 60 | 55 | 14.5x14.5 | BHY6-D16-90-F4    |
|   |                  | 19.05 | 90  | 60 | 55 | 17x17     | BHY6-D19.05-90-F4 |
|   |                  | 20    | 90  | 60 | 55 | 18x18     | BHY6-D20-90-F4    |
|   |                  | 22    | 90  | 60 | 55 | 20x20     | BHY6-D22-90-F4    |
|   |                  | 25    | 100 | 70 | 65 | 23x23     | BHY6-D25-100-F4   |

|                                                  |                                                                                     |                                                                                     |
|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Pièces de rechange<br>Ersatzteile<br>Spare parts |  |  |
|                                                  | Art. N°                                                                             | Art. N°                                                                             |
| BHY6...                                          | J-M8X1-D6                                                                           | C-6P-3.0                                                                            |
|                                                  | more option<br>see JET-Line                                                         |                                                                                     |

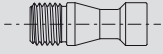
BHK4N

Porte-outils coudés  
Kröpfhalter  
Cranked holders



| d | Bars               | L3 | A x B | F    | H  | A1 | Art. N°         |
|---|--------------------|----|-------|------|----|----|-----------------|
| 4 | BB4R...<br>BF4R... | 32 | 8x8   | 8.5  | 37 | 12 | BHK4N-0808X-32R |
|   |                    |    | 10x10 | 8.5  | 37 | 12 | BHK4N-1010X-32R |
|   |                    |    | 12x12 | 8.5  | 37 | 12 | BHK4N-1212X-32R |
|   |                    |    | 16x16 | 8.5  | 37 | 16 | BHK4N-1616X-32R |
|   |                    | 37 | 8x8   | 13.5 | 42 | 12 | BHK4N-0808X-37R |
|   |                    |    | 10x10 | 13.5 | 42 | 12 | BHK4N-1010X-37R |
|   |                    |    | 12x12 | 13.5 | 42 | 12 | BHK4N-1212X-37R |
|   |                    |    | 16x16 | 13.5 | 42 | 16 | BHK4N-1616X-37R |
|   |                    | 42 | 10x10 | 18.5 | 47 | 12 | BHK4N-1010X-42R |
|   |                    |    | 12x12 | 18.5 | 47 | 12 | BHK4N-1212X-42R |
|   |                    |    | 16x16 | 18.5 | 47 | 16 | BHK4N-1616X-42R |
|   |                    |    |       |      |    |    |                 |

Pièces de rechange  
Ersatzteile  
Spare parts

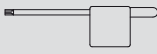


Art. N°

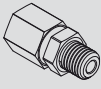
BHK4N...

V-BHK-M4X0.5-T8

Option



Art. N°



Art. N°



Art. N°

BHK4N...

C-T8

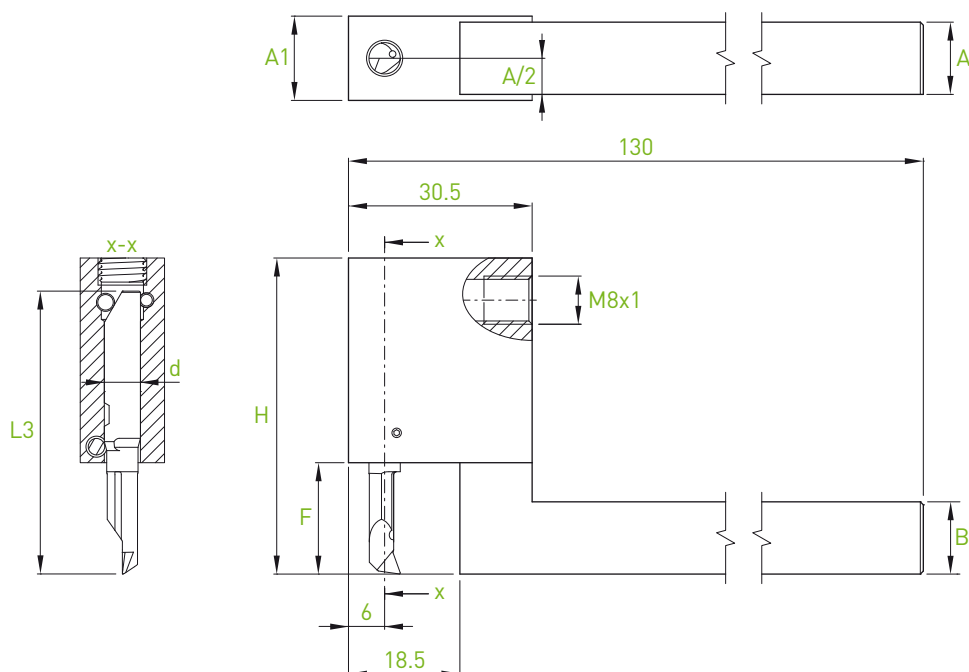
J-M8X1-D6  
more option  
see JET-Line

SET-NM1.2-TX8

**Porte-outils coudés**

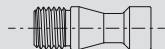
Kröpfhalter

Cranked holders

**BHK6N**

| d | Bars               | L3 | A x B | F    | H    | A1 | Art. N°         |
|---|--------------------|----|-------|------|------|----|-----------------|
| 6 | BB6R...<br>BF6R... | 47 | 10x10 | 18.5 | 52.5 | 12 | BHK6N-1010X-47R |
|   |                    |    | 12x12 | 18.5 | 52.5 | 12 | BHK6N-1212X-47R |
|   |                    |    | 16x16 | 18.5 | 52.5 | 16 | BHK6N-1616X-47R |
|   |                    | 57 | 10x10 | 28.5 | 62.5 | 12 | BHK6N-1010X-57R |
|   |                    |    | 12x12 | 28.5 | 62.5 | 12 | BHK6N-1212X-57R |
|   |                    |    | 16x16 | 28.5 | 62.5 | 16 | BHK6N-1616X-57R |

Pièces de rechange  
Ersatzteile  
Spare parts



Art. N°

BHK6N...

V-BHK-M4X0.5-T8

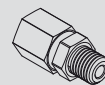
Option



Art. N°

BHK6N...

C-T8



Art. N°

J-M8X1-D6

more option  
see JET-Line



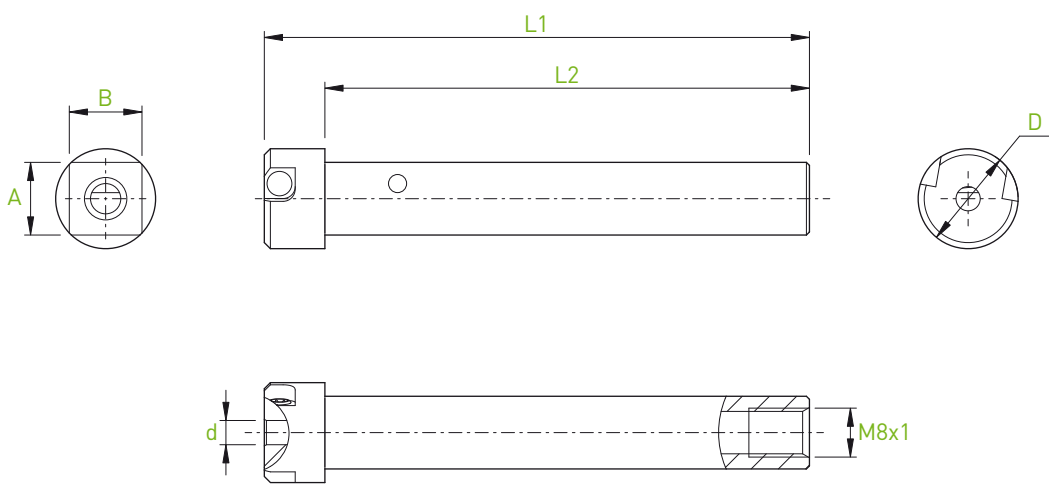
Art. N°

SET-NM1.2-TX8

BHS4

Porte-outils section carrée

Viereckige Halter  
Square holders



| d | Bars          | A x B | L1  | L2 | D    | Art. N°       |
|---|---------------|-------|-----|----|------|---------------|
| 4 | BB4... BF4... | 12x12 | 90  | 80 | 16.5 | BHS4-1212-90  |
|   |               | 16x16 | 100 | 90 | 15.5 | BHS4-1616-100 |

Pièces de rechange  
Ersatzteile  
Spare parts

Art. N°

BHS4...

V-BHS-M4X0.5-T8

Option

Art. N°

BHS4...

C-T8

Art. N°

J-M8X1-D6

more option  
see JET-Line

Art. N°

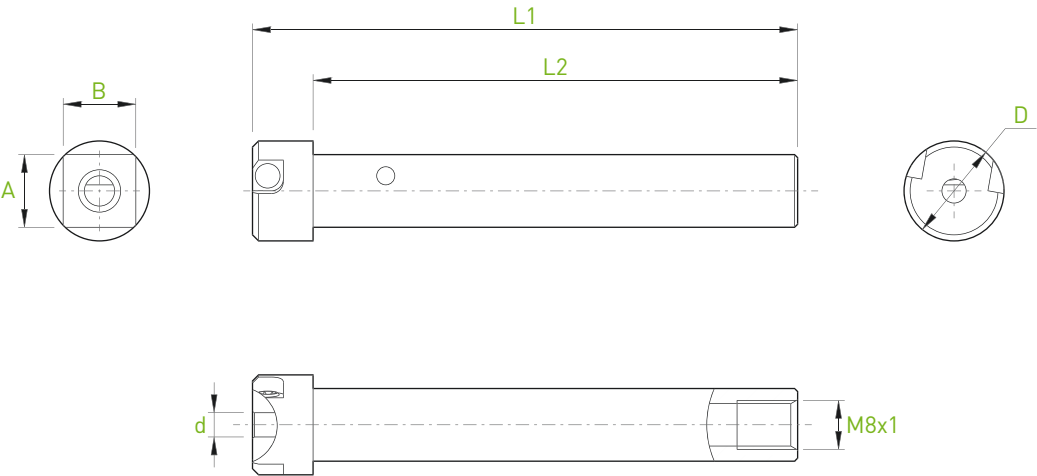
SET-NM1.2-TX8

Porte-outils section carrée

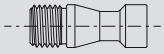
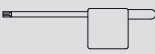
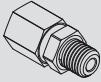
Viereckige Halter

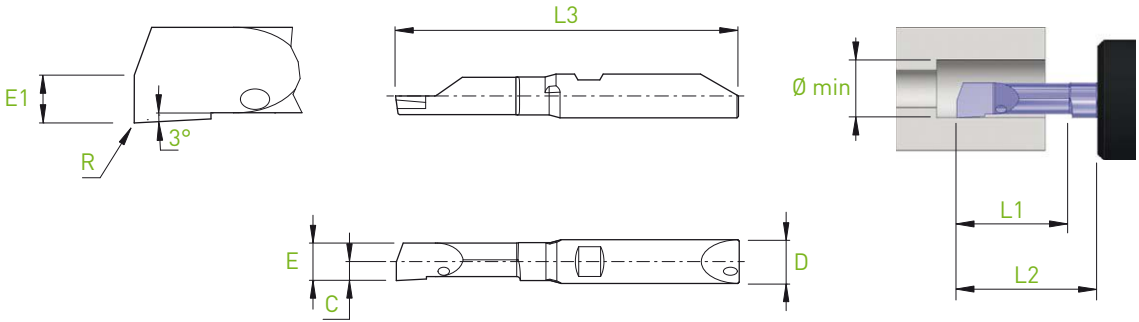
Square holders

BHS6



| d | Bars          | A x B | L1  | L2 | D    | Art. N°       |
|---|---------------|-------|-----|----|------|---------------|
| 6 | BB6... BF6... | 12x12 | 90  | 80 | 17.5 | BHS6-1212-90  |
|   |               | 16x16 | 100 | -  | -    | BHS4-1616-100 |

|                                                  |                                                                                                |         |                                                                                                |                                                                                                 |                                                                                                  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Pièces de rechange<br>Ersatzteile<br>Spare parts | <br>Art. N° | Option  | <br>Art. N° | <br>Art. N° | <br>Art. N° |
|                                                  |                                                                                                |         |                                                                                                |                                                                                                 |                                                                                                  |
| BHS6...                                          | V-BHS-M4X0.5-T8                                                                                | BHS6... | C-T8                                                                                           | J-M8X1-D6<br><small>more option<br/>see JET-Line</small>                                        | SET-NM1.2-TX8                                                                                    |

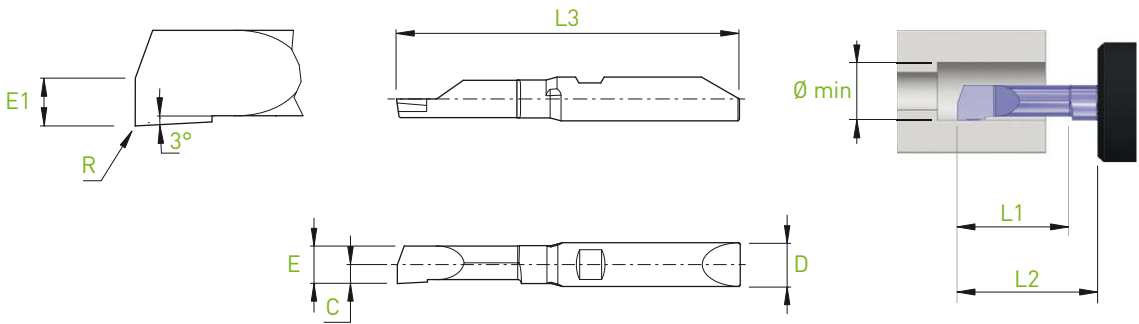


| D h5 | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | E    | E1   | C    | R    | L3 | Art. N°             | R                        |                          | L                      |                        |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|---------------------|--------------------------|--------------------------|------------------------|------------------------|
|      |                                         |       |      |                         |                          |      |      |      |      |    |                     | P<br>M<br>N<br>S<br>ZTAF | P<br>M<br>N<br>S<br>ZTAF | P<br>M<br>N<br>S<br>ZN | P<br>M<br>N<br>S<br>ZN |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 0.3   | 0.9  | 10                      | 8.5                      | 0.27 | 0.13 | 0.15 | 0    | 32 | BB4R/L-0309-BA      | •                        | •                        | •                      | •                      |
|      |                                         | 0.4   | 1.2  | 10                      | 8.5                      | 0.36 | 0.18 | 0.20 | 0    | 32 | BB4R/L-0412-BA      | •                        | •                        | •                      | •                      |
|      |                                         | 0.5   | 1.5  | 10                      | 8.5                      | 0.45 | 0.22 | 0.25 | 0    | 32 | BB4R/L-0515-BA      | •                        | •                        | •                      | •                      |
|      |                                         | 0.6   | 1.8  | 10                      | 8.5                      | 0.54 | 0.27 | 0.30 | 0    | 32 | BB4R/L-0618-BA      | •                        | •                        | •                      | •                      |
|      |                                         | 0.7   | 2.1  | 10                      | 8.5                      | 0.63 | 0.31 | 0.35 | 0    | 32 | BB4R/L-0721-BA      | •                        | •                        | •                      | •                      |
|      |                                         | 0.8   | 2.4  | 10                      | 8.5                      | 0.72 | 0.36 | 0.40 | 0    | 32 | BB4R/L-0824-BA      | •                        | •                        | •                      | •                      |
|      |                                         | 0.9   | 2.7  | 10                      | 8.5                      | 0.81 | 0.40 | 0.45 | 0    | 32 | BB4R/L-0927-BA      | •                        | •                        | •                      | •                      |
|      |                                         | 1.0   | 3.0  | 10                      | 8.5                      | 0.90 | 0.45 | 0.60 | 0.02 | 32 | BB4R/L-1030-BA-R02  | •                        | •                        | •                      | •                      |
|      |                                         | 1.2   | 3.6  | 10                      | 8.5                      | 1.08 | 0.54 | 0.60 | 0.02 | 32 | BB4R/L-1236-BA-R02  | •                        | •                        | •                      | •                      |
|      |                                         | 1.5   | 4.5  | 10                      | 8.5                      | 1.35 | 0.67 | 0.65 | 0.02 | 32 | BB4R/L-1545-BA-R02  | •                        | •                        | •                      | •                      |
|      |                                         | 2.0   | 6.0  | 10                      | 8.5                      | 1.80 | 0.90 | 1.15 | 0.02 | 32 | BB4R/L-2060-BA-R02  | •                        | •                        | •                      | •                      |
|      |                                         | 2.5   | 7.5  | 10                      | 8.5                      | 2.25 | 1.13 | 1.30 | 0.02 | 32 | BB4R/L-2575-BA-R02  | •                        | •                        | •                      | •                      |
|      |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 2.70 | 1.35 | 1.35 | 0.05 | 37 | BB4R/L-3090-BA-R05  | •                        | •                        | •                      | •                      |
|      |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 3.15 | 1.58 | 1.60 | 0.05 | 37 | BB4R/L-35105-BA-R05 | •                        | •                        | •                      | •                      |

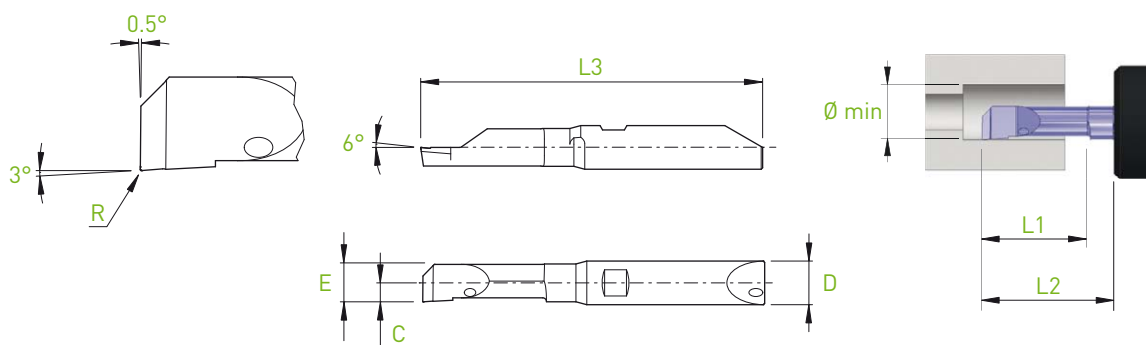
**Alésage**  
 Ausbohren  
 Boring


BF4...

BA



|      |                                         |       |      |                         |                          |      |      |      |      |    |                     | R                                                                   |                                                                      |                                                                   | L                                                                   |                                                                   |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|---------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | E    | E1   | C    | R    | L3 | Art. N°             | <div><div>P</div><div>M</div><div>N</div><div>S</div></div><br>ZTAF | <div><div>P</div><div>M</div><div>N</div><div>S</div></div><br>ZTAXF | <div><div>P</div><div> </div><div>N</div><div>S</div></div><br>ZN | <div><div>P</div><div>M</div><div>N</div><div>S</div></div><br>ZTAF | <div><div>P</div><div> </div><div>N</div><div>S</div></div><br>ZN |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 0.3   | 0.9  | 10                      | 8.5                      | 0.27 | 0.13 | 0.15 | 0    | 32 | BF4R/L-0309-BA      | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 0.4   | 1.2  | 10                      | 8.5                      | 0.36 | 0.18 | 0.20 | 0    | 32 | BF4R/L-0412-BA      | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 0.5   | 1.5  | 10                      | 8.5                      | 0.45 | 0.22 | 0.25 | 0    | 32 | BF4R/L-0515-BA      | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 0.6   | 1.8  | 10                      | 8.5                      | 0.54 | 0.27 | 0.30 | 0    | 32 | BF4R/L-0618-BA      | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 0.7   | 2.1  | 10                      | 8.5                      | 0.63 | 0.31 | 0.35 | 0    | 32 | BF4R/L-0721-BA      | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 0.8   | 2.4  | 10                      | 8.5                      | 0.72 | 0.36 | 0.40 | 0    | 32 | BF4R/L-0824-BA      | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 0.9   | 2.7  | 10                      | 8.5                      | 0.81 | 0.40 | 0.45 | 0    | 32 | BF4R/L-0927-BA      | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 1.0   | 3.0  | 10                      | 8.5                      | 0.90 | 0.45 | 0.60 | 0.02 | 32 | BF4R/L-1030-BA-R02  | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 1.2   | 3.6  | 10                      | 8.5                      | 1.08 | 0.54 | 0.60 | 0.02 | 32 | BF4R/L-1236-BA-R02  | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 1.5   | 4.5  | 10                      | 8.5                      | 1.35 | 0.67 | 0.65 | 0.02 | 32 | BF4R/L-1545-BA-R02  | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 2.0   | 6.0  | 10                      | 8.5                      | 1.80 | 0.90 | 1.15 | 0.02 | 32 | BF4R/L-2060-BA-R02  | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 2.5   | 7.5  | 10                      | 8.5                      | 2.25 | 1.13 | 1.30 | 0.02 | 32 | BF4R/L-2575-BA-R02  | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 2.70 | 1.35 | 1.35 | 0.05 | 37 | BF4R/L-3090-BA-R05  | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |
|      |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 3.15 | 1.58 | 1.60 | 0.05 | 37 | BF4R/L-35105-BA-R05 | ●                                                                   | ●                                                                    | ●                                                                 | ●                                                                   | ●                                                                 |

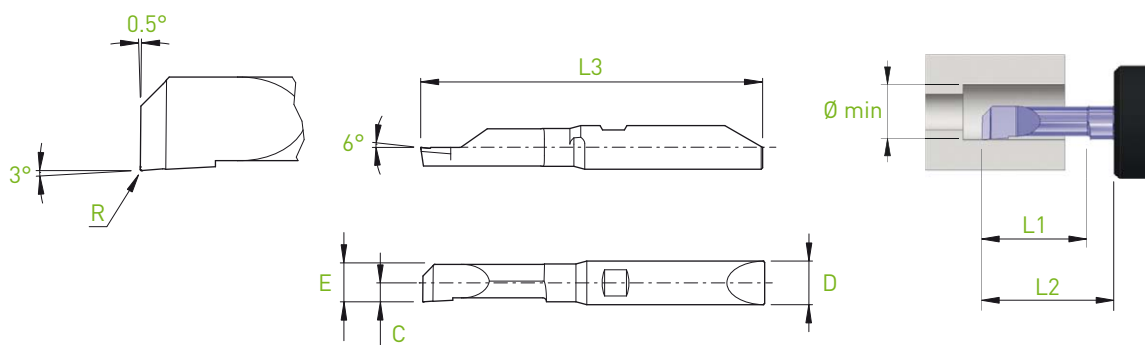


| D h5 | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | E    | C    | R    | L3 | Art. N°              | R                        |                           | L                      |                        |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|----|----------------------|--------------------------|---------------------------|------------------------|------------------------|
|      |                                         |       |      |                         |                          |      |      |      |    |                      | ZTAF<br>P<br>M<br>N<br>S | ZTAXF<br>P<br>M<br>N<br>S | ZN<br>P<br>M<br>N<br>S | ZN<br>P<br>M<br>N<br>S |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 0.5   | 1.5  | 10                      | 8.5                      | 0.45 | 0.25 | 0    | 32 | BB4R/L-0515-BAX      | •                        | •                         | •                      | •                      |
|      |                                         | 0.6   | 1.8  | 10                      | 8.5                      | 0.54 | 0.30 | 0    | 32 | BB4R/L-0618-BAX      | •                        | •                         | •                      | •                      |
|      |                                         | 0.7   | 2.1  | 10                      | 8.5                      | 0.63 | 0.35 | 0    | 32 | BB4R/L-0721-BAX      | •                        | •                         | •                      | •                      |
|      |                                         | 0.8   | 2.4  | 10                      | 8.5                      | 0.72 | 0.40 | 0    | 32 | BB4R/L-0824-BAX      | •                        | •                         | •                      | •                      |
|      |                                         | 0.9   | 2.7  | 10                      | 8.5                      | 0.81 | 0.45 | 0    | 32 | BB4R/L-0927-BAX      | •                        | •                         | •                      | •                      |
|      |                                         | 1.0   | 3.0  | 10                      | 8.5                      | 0.90 | 0.60 | 0.02 | 32 | BB4R/L-1030-BAX-R02  | •                        | •                         | •                      | •                      |
|      |                                         |       | 5.0  | 10                      | 8.5                      | 0.90 | 0.60 | 0.02 | 32 | BB4R/L-1050-BAX-R02  | •                        | •                         | •                      | •                      |
|      |                                         | 1.5   | 4.5  | 10                      | 8.5                      | 1.35 | 0.65 | 0.02 | 32 | BB4R/L-1545-BAX-R02  | •                        | •                         | •                      | •                      |
|      |                                         |       | 7.5  | 10                      | 8.5                      | 1.35 | 0.65 | 0.02 | 32 | BB4R/L-1575-BAX-R02  | •                        | •                         | •                      | •                      |
|      |                                         | 2.0   | 6.0  | 10                      | 8.5                      | 1.80 | 1.15 | 0.02 | 32 | BB4R/L-2060-BAX-R02  | •                        | •                         | •                      | •                      |
|      |                                         |       | 10.0 | 15                      | 13.5                     | 1.80 | 1.15 | 0.02 | 37 | BB4R/L-20100-BAX-R02 | •                        | •                         | •                      | •                      |
|      |                                         | 2.5   | 7.5  | 10                      | 8.5                      | 2.25 | 1.30 | 0.05 | 32 | BB4R/L-2575-BAX-R05  | •                        | •                         | •                      | •                      |
|      |                                         |       | 12.5 | 15                      | 13.5                     | 2.25 | 1.30 | 0.05 | 37 | BB4R/L-25125-BAX-R05 | •                        | •                         | •                      | •                      |
|      |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 2.70 | 1.35 | 0.05 | 37 | BB4R/L-3090-BAX-R05  | •                        | •                         | •                      | •                      |
|      |                                         |       | 15.0 | 20                      | 18.5                     | 2.70 | 1.35 | 0.05 | 42 | BB4R/L-30150-BAX-R05 | •                        | •                         | •                      | •                      |
|      |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 3.15 | 1.60 | 0.05 | 37 | BB4R/L-35105-BAX-R05 | •                        | •                         | •                      | •                      |
|      |                                         |       | 17.5 | 20                      | 18.5                     | 3.15 | 1.60 | 0.05 | 42 | BB4R/L-35175-BAX-R05 | •                        | •                         | •                      | •                      |

| D h5 | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | E    | C    | R    | L3 | Art. N°              | ZTAF | ZTAXF | ZN | ZN |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|----|----------------------|------|-------|----|----|
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 3.80 | 2.20 | 0.05 | 47 | BB6R/L-40120-BAX-R05 | •    | •     | •  | •  |
|      |                                         |       | 20.0 | 30                      | 28.5                     | 3.80 | 2.20 | 0.05 | 57 | BB6R/L-40200-BAX-R05 | •    | •     | •  | •  |
|      |                                         | 4.5   | 13.5 | 20                      | 18.5                     | 4.28 | 2.30 | 0.05 | 47 | BB6R/L-45135-BAX-R05 | •    | •     | •  | •  |
|      |                                         |       | 22.5 | 30                      | 28.5                     | 4.28 | 2.30 | 0.05 | 57 | BB6R/L-45225-BAX-R05 | •    | •     | •  | •  |
|      |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 4.75 | 2.40 | 0.05 | 47 | BB6R/L-50150-BAX-R05 | •    | •     | •  | •  |
|      |                                         |       | 25.0 | 30                      | 28.5                     | 4.75 | 2.40 | 0.05 | 57 | BB6R/L-50250-BAX-R05 | •    | •     | •  | •  |
|      |                                         | 5.5   | 16.5 | 20                      | 18.5                     | 5.15 | 2.60 | 0.05 | 47 | BB6R/L-55165-BAX-R05 | •    | •     | •  | •  |
|      |                                         |       | 27.5 | 30                      | 28.5                     | 5.15 | 2.60 | 0.05 | 57 | BB6R/L-55275-BAX-R05 | •    | •     | •  | •  |

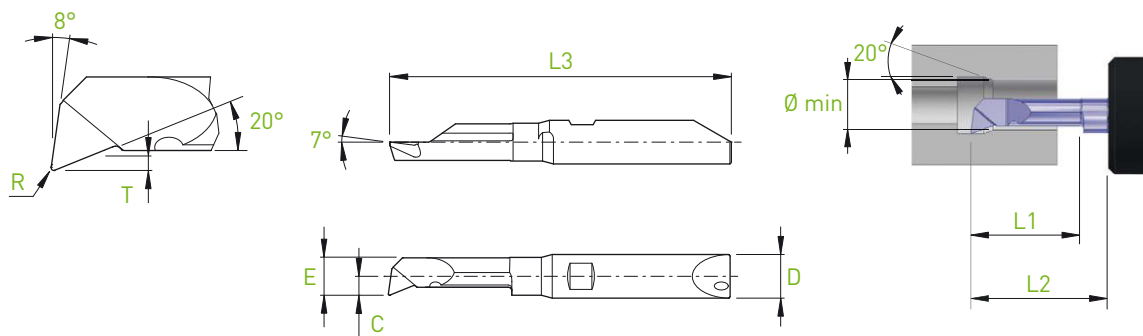


**Alésage**  
 Ausbohren  
 Boring

**BF4... / BF6...**
**BAX**


|      |                                         |       |      |                         |                          |      |      |      |    |                      | R                                                           |                                                             |                                                            | L                                                           |                                                            |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|----|----------------------|-------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|
|      |                                         |       |      | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... |      |      |      |    |                      | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> | <div><div>P</div><div></div><div>N</div><div>S</div></div> | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> | <div><div>P</div><div></div><div>N</div><div>S</div></div> |
| D h5 | Holder                                  | Ø min | L1   |                         |                          | E    | C    | R    | L3 | Art. N°              | ZTAF                                                        | ZTAXF                                                       | ZN                                                         | ZTAF                                                        | ZN                                                         |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 0.5   | 1.5  | 10                      | 8.5                      | 0.45 | 0.25 | 0    | 32 | BF4R/L-0515-BAX      | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 0.6   | 1.8  | 10                      | 8.5                      | 0.54 | 0.30 | 0    | 32 | BF4R/L-0618-BAX      | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 0.7   | 2.1  | 10                      | 8.5                      | 0.63 | 0.35 | 0    | 32 | BF4R/L-0721-BAX      | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 0.8   | 2.4  | 10                      | 8.5                      | 0.72 | 0.40 | 0    | 32 | BF4R/L-0824-BAX      | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 0.9   | 2.7  | 10                      | 8.5                      | 0.81 | 0.45 | 0    | 32 | BF4R/L-0927-BAX      | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 1.0   | 3.0  | 10                      | 8.5                      | 0.90 | 0.60 | 0.02 | 32 | BF4R/L-1030-BAX-R02  | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         |       | 5.0  | 10                      | 8.5                      | 0.90 | 0.60 | 0.02 | 32 | BF4R/L-1050-BAX-R02  | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 1.5   | 4.5  | 10                      | 8.5                      | 1.35 | 0.65 | 0.02 | 32 | BF4R/L-1545-BAX-R02  | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         |       | 7.5  | 10                      | 8.5                      | 1.35 | 0.65 | 0.02 | 32 | BF4R/L-1575-BAX-R02  | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 2.0   | 6.0  | 10                      | 8.5                      | 1.80 | 1.15 | 0.02 | 32 | BF4R/L-2060-BAX-R02  | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         |       | 10.0 | 15                      | 13.5                     | 1.80 | 1.15 | 0.02 | 37 | BF4R/L-20100-BAX-R02 | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 2.5   | 7.5  | 10                      | 8.5                      | 2.25 | 1.30 | 0.05 | 32 | BF4R/L-2575-BAX-R05  | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         |       | 12.5 | 15                      | 13.5                     | 2.25 | 1.30 | 0.05 | 37 | BF4R/L-25125-BAX-R05 | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 2.70 | 1.35 | 0.05 | 37 | BF4R/L-3090-BAX-R05  | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         |       | 15.0 | 20                      | 18.5                     | 2.70 | 1.35 | 0.05 | 42 | BF4R/L-30150-BAX-R05 | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 3.15 | 1.60 | 0.05 | 37 | BF4R/L-35105-BAX-R05 | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |
|      |                                         |       | 17.5 | 20                      | 18.5                     | 3.15 | 1.60 | 0.05 | 42 | BF4R/L-35175-BAX-R05 | ●                                                           | ●                                                           | ●                                                          | ●                                                           | ●                                                          |

| D h5 | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | E    | C    | R    | L3 | Art. N°              | ZTAF | ZTAXF | ZN | ZTAF | ZN |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|----|----------------------|------|-------|----|------|----|
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 3.80 | 2.20 | 0.05 | 47 | BF6R/L-40120-BAX-R05 | •    | •     | •  | •    | •  |
|      |                                         |       | 20.0 | 30                      | 28.5                     | 3.80 | 2.20 | 0.05 | 57 | BF6R/L-40200-BAX-R05 | •    | •     | •  | •    | •  |
|      |                                         | 4.5   | 13.5 | 20                      | 18.5                     | 4.28 | 2.30 | 0.05 | 47 | BF6R/L-45135-BAX-R05 | •    | •     | •  | •    | •  |
|      |                                         |       | 22.5 | 30                      | 28.5                     | 4.28 | 2.30 | 0.05 | 57 | BF6R/L-45225-BAX-R05 | •    | •     | •  | •    | •  |
|      |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 4.75 | 2.40 | 0.05 | 47 | BF6R/L-50150-BAX-R05 | •    | •     | •  | •    | •  |
|      |                                         |       | 25.0 | 30                      | 28.5                     | 4.75 | 2.40 | 0.05 | 57 | BF6R/L-50250-BAX-R05 | •    | •     | •  | •    | •  |
|      |                                         | 5.5   | 16.5 | 20                      | 18.5                     | 5.15 | 2.60 | 0.05 | 47 | BF6R/L-55165-BAX-R05 | •    | •     | •  | •    | •  |
|      |                                         |       | 27.5 | 30                      | 28.5                     | 5.15 | 2.60 | 0.05 | 57 | BF6R/L-55275-BAX-R05 | •    | •     | •  | •    | •  |



| D <sub>h5</sub> | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | T    | E    | C    | R    | L3 | Art. N°              | R     |       | L     |       |
|-----------------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|----------------------|-------|-------|-------|-------|
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                      | PTMNS | PTMNS | PTMNS | PTMNS |
| 4               | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 1.0   | 3.0  | 10                      | 8.5                      | 0.15 | 0.90 | 0.70 | 0.05 | 32 | BB4R/L-1030-BCX-R05  | ●     | ●     | ●     | ●     |
|                 |                                         |       | 5.0  | 10                      | 8.5                      | 0.15 | 0.90 | 0.70 | 0.05 | 32 | BB4R/L-1050-BCX-R05  | ●     | ●     | ●     | ●     |
|                 |                                         | 1.5   | 4.5  | 10                      | 8.5                      | 0.23 | 1.35 | 0.75 | 0.05 | 32 | BB4R/L-1545-BCX-R05  | ●     | ●     | ●     | ●     |
|                 |                                         |       | 7.5  | 10                      | 8.5                      | 0.23 | 1.35 | 0.75 | 0.05 | 32 | BB4R/L-1575-BCX-R05  | ●     | ●     | ●     | ●     |
|                 |                                         | 2.0   | 6.0  | 10                      | 8.5                      | 0.30 | 1.80 | 1.15 | 0.05 | 32 | BB4R/L-2060-BCX-R05  | ●     | ●     | ●     | ●     |
|                 |                                         |       | 10.0 | 15                      | 13.5                     | 0.30 | 1.80 | 1.15 | 0.05 | 37 | BB4R/L-20100-BCX-R05 | ●     | ●     | ●     | ●     |
|                 |                                         | 2.5   | 7.5  | 10                      | 8.5                      | 0.38 | 2.25 | 1.30 | 0.10 | 32 | BB4R/L-2575-BCX-R10  | ●     | ●     | ●     | ●     |
|                 |                                         |       | 12.5 | 15                      | 13.5                     | 0.38 | 2.25 | 1.30 | 0.10 | 37 | BB4R/L-25125-BCX-R10 | ●     | ●     | ●     | ●     |
|                 |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 0.45 | 2.70 | 1.35 | 0.10 | 37 | BB4R/L-3090-BCX-R10  | ●     | ●     | ●     | ●     |
|                 |                                         |       | 15.0 | 20                      | 18.5                     | 0.45 | 2.70 | 1.35 | 0.10 | 42 | BB4R/L-30150-BCX-R10 | ●     | ●     | ●     | ●     |
|                 |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 0.53 | 3.15 | 1.60 | 0.10 | 37 | BB4R/L-35105-BCX-R10 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 17.5 | 20                      | 18.5                     | 0.53 | 3.15 | 1.60 | 0.10 | 42 | BB4R/L-35175-BCX-R10 | ●     | ●     | ●     | ●     |
| 6               | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 0.60 | 3.80 | 2.20 | 0.15 | 47 | BB6R/L-40120-BCX-R15 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 20.0 | 30                      | 28.5                     | 0.60 | 3.80 | 2.20 | 0.15 | 57 | BB6R/L-40200-BCX-R15 | ●     | ●     | ●     | ●     |
|                 |                                         | 4.5   | 13.5 | 20                      | 18.5                     | 0.68 | 4.28 | 2.30 | 0.15 | 47 | BB6R/L-45135-BCX-R15 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 22.5 | 30                      | 28.5                     | 0.68 | 4.28 | 2.30 | 0.15 | 57 | BB6R/L-45225-BCX-R15 | ●     | ●     | ●     | ●     |
|                 |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 0.75 | 4.75 | 2.40 | 0.15 | 47 | BB6R/L-50150-BCX-R15 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 25.0 | 30                      | 28.5                     | 0.75 | 4.75 | 2.40 | 0.15 | 57 | BB6R/L-50250-BCX-R15 | ●     | ●     | ●     | ●     |
|                 |                                         | 5.5   | 16.5 | 20                      | 18.5                     | 0.83 | 5.15 | 2.60 | 0.15 | 47 | BB6R/L-55165-BCX-R15 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 27.5 | 30                      | 28.5                     | 0.83 | 5.15 | 2.60 | 0.15 | 57 | BB6R/L-55275-BCX-R15 | ●     | ●     | ●     | ●     |
| D <sub>h5</sub> | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | T    | E    | C    | R    | L3 | Art. N°              | ZTAF  |       | ZTAF  |       |
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                      | ZTAF  | ZTAF  | ZTAF  | ZTAF  |

## Alésage-copiage

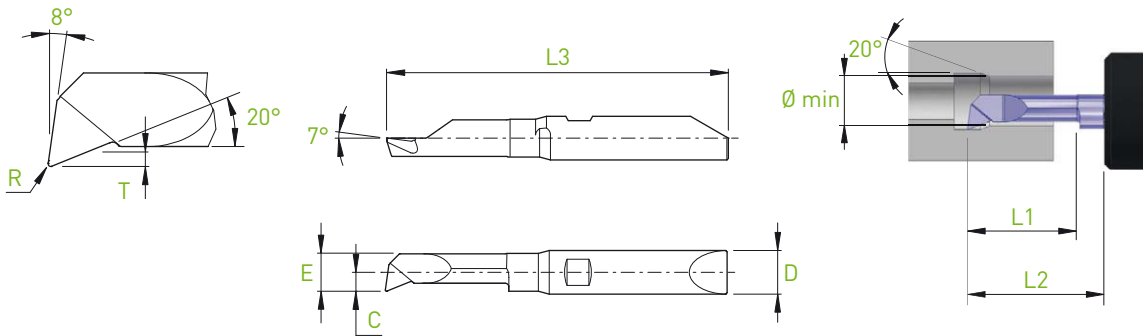
Ausbohren-kopieren

Boring-chamfering

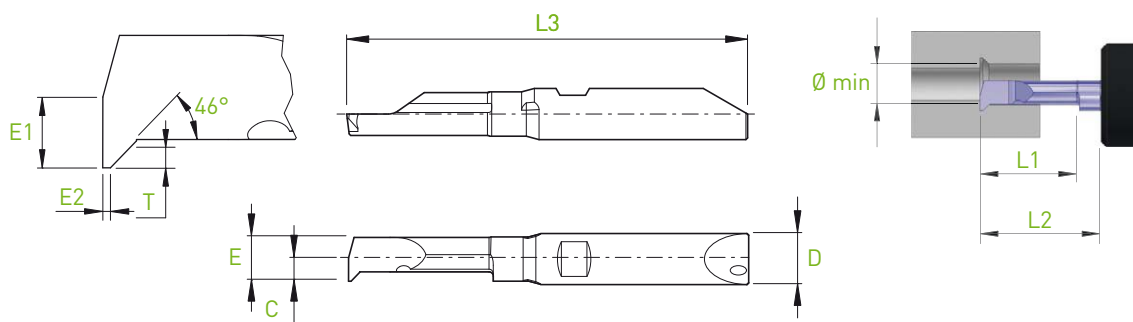


BF4... / BF6...

BCX



| D <sub>h5</sub> | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | T    | E    | C    | R    | L3 | Art. N°              | R    |       | L  |      |
|-----------------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|----------------------|------|-------|----|------|
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                      | P    | P     | P  | P    |
| 4               | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 1.0   | 3.0  | 10                      | 8.5                      | 0.15 | 0.90 | 0.70 | 0.05 | 32 | BF4R/L-1030-BCX-R05  | ●    | ●     | ●  | ●    |
|                 |                                         |       | 5.0  | 10                      | 8.5                      | 0.15 | 0.90 | 0.70 | 0.05 | 32 | BF4R/L-1050-BCX-R05  | ●    | ●     | ●  | ●    |
|                 |                                         | 1.5   | 4.5  | 10                      | 8.5                      | 0.23 | 1.35 | 0.75 | 0.05 | 32 | BF4R/L-1545-BCX-R05  | ●    | ●     | ●  | ●    |
|                 |                                         |       | 7.5  | 10                      | 8.5                      | 0.23 | 1.35 | 0.75 | 0.05 | 32 | BF4R/L-1575-BCX-R05  | ●    | ●     | ●  | ●    |
|                 |                                         | 2.0   | 6.0  | 10                      | 8.5                      | 0.30 | 1.80 | 1.15 | 0.05 | 32 | BF4R/L-2060-BCX-R05  | ●    | ●     | ●  | ●    |
|                 |                                         |       | 10.0 | 15                      | 13.5                     | 0.30 | 1.80 | 1.15 | 0.05 | 37 | BF4R/L-20100-BCX-R05 | ●    | ●     | ●  | ●    |
|                 |                                         | 2.5   | 7.5  | 10                      | 8.5                      | 0.38 | 2.25 | 1.30 | 0.10 | 32 | BF4R/L-2575-BCX-R10  | ●    | ●     | ●  | ●    |
|                 |                                         |       | 12.5 | 15                      | 13.5                     | 0.38 | 2.25 | 1.30 | 0.10 | 37 | BF4R/L-25125-BCX-R10 | ●    | ●     | ●  | ●    |
|                 |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 0.45 | 2.70 | 1.35 | 0.10 | 37 | BF4R/L-3090-BCX-R10  | ●    | ●     | ●  | ●    |
|                 |                                         |       | 15.0 | 20                      | 18.5                     | 0.45 | 2.70 | 1.35 | 0.10 | 42 | BF4R/L-30150-BCX-R10 | ●    | ●     | ●  | ●    |
|                 |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 0.53 | 3.15 | 1.60 | 0.10 | 37 | BF4R/L-35105-BCX-R10 | ●    | ●     | ●  | ●    |
|                 |                                         |       | 17.5 | 20                      | 18.5                     | 0.53 | 3.15 | 1.60 | 0.10 | 42 | BF4R/L-35175-BCX-R10 | ●    | ●     | ●  | ●    |
| 6               | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 0.60 | 3.80 | 2.20 | 0.15 | 47 | BF6R/L-40120-BCX-R15 | ●    | ●     | ●  | ●    |
|                 |                                         |       | 20.0 | 30                      | 28.5                     | 0.60 | 3.80 | 2.20 | 0.15 | 57 | BF6R/L-40200-BCX-R15 | ●    | ●     | ●  | ●    |
|                 |                                         | 4.5   | 13.5 | 20                      | 18.5                     | 0.68 | 4.28 | 2.30 | 0.15 | 47 | BF6R/L-45135-BCX-R15 | ●    | ●     | ●  | ●    |
|                 |                                         |       | 22.5 | 30                      | 28.5                     | 0.68 | 4.28 | 2.30 | 0.15 | 57 | BF6R/L-45225-BCX-R15 | ●    | ●     | ●  | ●    |
|                 |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 0.75 | 4.75 | 2.40 | 0.15 | 47 | BF6R/L-50150-BCX-R15 | ●    | ●     | ●  | ●    |
|                 |                                         |       | 25.0 | 30                      | 28.5                     | 0.75 | 4.75 | 2.40 | 0.15 | 57 | BF6R/L-50250-BCX-R15 | ●    | ●     | ●  | ●    |
|                 |                                         | 5.5   | 16.5 | 20                      | 18.5                     | 0.83 | 5.15 | 2.60 | 0.15 | 47 | BF6R/L-55165-BCX-R15 | ●    | ●     | ●  | ●    |
|                 |                                         |       | 27.5 | 30                      | 28.5                     | 0.83 | 5.15 | 2.60 | 0.15 | 57 | BF6R/L-55275-BCX-R15 | ●    | ●     | ●  | ●    |
| D <sub>h5</sub> | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | T    | E    | C    | R    | L3 | Art. N°              | R    |       | L  |      |
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                      | ZTAF | ZTAXF | ZN | ZTAF |



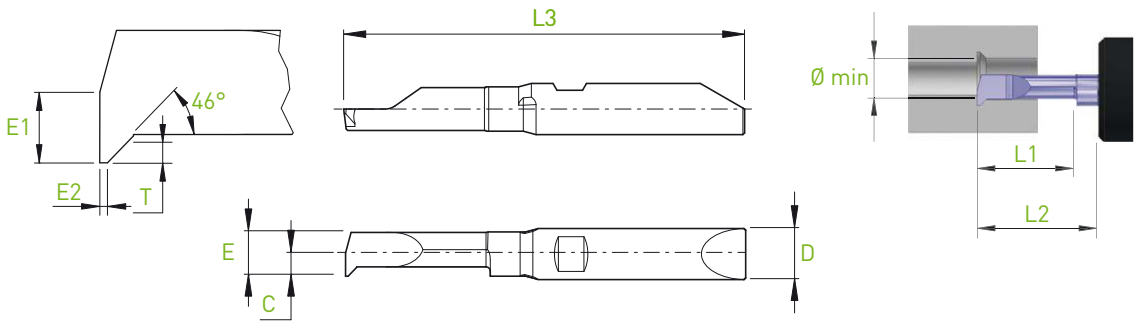
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | T    | E    | E1   | C    | E2   | L3 | Art. N°              | R                |                  | L                |                  |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|------|----|----------------------|------------------|------------------|------------------|------------------|
|      |                                         |       |      |                         |                          |      |      |      |      |      |    |                      | P<br>M<br>N<br>S | P<br>M<br>N<br>S | P<br>M<br>N<br>S | P<br>M<br>N<br>S |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 0.3   | 0.6  | 10                      | 8.5                      | 0.05 | 0.27 | 0.13 | 0.15 | 0.03 | 32 | BB4R/L-0306-C45-E03  | •                | •                | •                | •                |
|      |                                         | 0.4   | 0.8  | 10                      | 8.5                      | 0.07 | 0.36 | 0.18 | 0.20 | 0.03 | 32 | BB4R/L-0408-C45-E03  | •                | •                | •                | •                |
|      |                                         | 0.5   | 1.0  | 10                      | 8.5                      | 0.08 | 0.45 | 0.22 | 0.25 | 0.03 | 32 | BB4R/L-0510-C45-E03  | •                | •                | •                | •                |
|      |                                         | 0.6   | 1.2  | 10                      | 8.5                      | 0.10 | 0.54 | 0.27 | 0.30 | 0.03 | 32 | BB4R/L-0612-C45-E03  | •                | •                | •                | •                |
|      |                                         | 0.7   | 1.2  | 10                      | 8.5                      | 0.12 | 0.63 | 0.32 | 0.35 | 0.03 | 32 | BB4R/L-0714-C45-E03  | •                | •                | •                | •                |
|      |                                         | 0.8   | 1.6  | 10                      | 8.5                      | 0.14 | 0.72 | 0.36 | 0.40 | 0.05 | 32 | BB4R/L-0816-C45-E05  | •                | •                | •                | •                |
|      |                                         | 0.9   | 1.8  | 10                      | 8.5                      | 0.15 | 0.81 | 0.41 | 0.45 | 0.05 | 32 | BB4R/L-0918-C45-E05  | •                | •                | •                | •                |
|      |                                         | 1.0   | 3.0  | 10                      | 8.5                      | 0.17 | 0.90 | 0.45 | 0.70 | 0.10 | 32 | BB4R/L-1030-C45-E10  | •                | •                | •                | •                |
|      |                                         | 1.2   | 3.6  | 10                      | 8.5                      | 0.20 | 1.08 | 0.54 | 0.70 | 0.10 | 32 | BB4R/L-1236-C45-E10  | •                | •                | •                | •                |
|      |                                         | 1.5   | 4.5  | 10                      | 8.5                      | 0.25 | 1.35 | 0.67 | 0.75 | 0.10 | 32 | BB4R/L-1545-C45-E10  | •                | •                | •                | •                |
|      |                                         | 2.0   | 6.0  | 10                      | 8.5                      | 0.34 | 1.80 | 0.90 | 1.15 | 0.20 | 32 | BB4R/L-2060-C45-E20  | •                | •                | •                | •                |
|      |                                         | 2.5   | 7.5  | 10                      | 8.5                      | 0.43 | 2.25 | 1.13 | 1.30 | 0.20 | 32 | BB4R/L-2575-C45-E20  | •                | •                | •                | •                |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 3.0   | 9.0  | 15                      | 13.5                     | 0.51 | 2.70 | 1.35 | 1.35 | 0.30 | 37 | BB4R/L-3090-C45-E30  | •                | •                | •                | •                |
|      |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 0.60 | 3.15 | 1.58 | 1.60 | 0.30 | 37 | BB4R/L-35105-C45-E30 | •                | •                | •                | •                |
|      |                                         |       |      |                         |                          |      |      |      |      |      |    |                      |                  |                  |                  |                  |
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | T    | E    | E1   | C    | E2   | L3 | Art. N°              | ZTAF             |                  | ZTAXF            |                  |
|      |                                         |       |      |                         |                          |      |      |      |      |      |    |                      | ZN               | ZN               | ZN               | ZN               |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 0.68 | 3.80 | 1.90 | 2.30 | 0.40 | 47 | BB6R/L-40120-C45-E40 | •                | •                | •                | •                |
|      |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 0.85 | 4.75 | 2.37 | 2.50 | 0.50 | 47 | BB6R/L-50150-C45-E50 | •                | •                | •                | •                |

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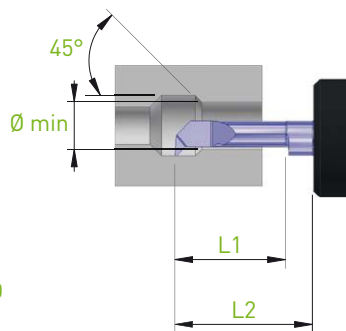
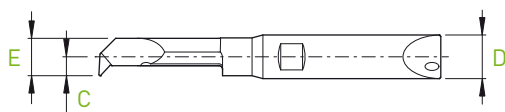
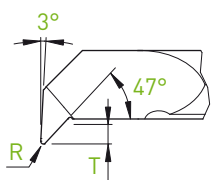


**BF4... / BF6...**

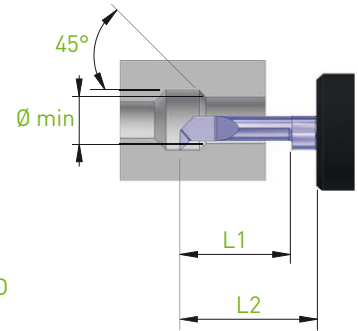
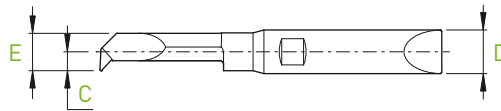
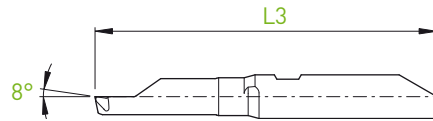
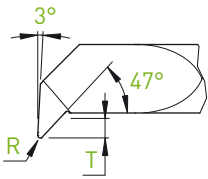
**C45**



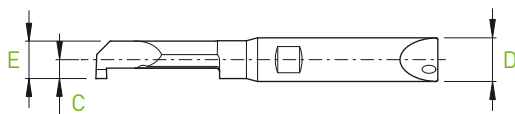
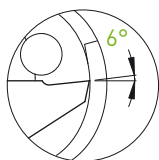
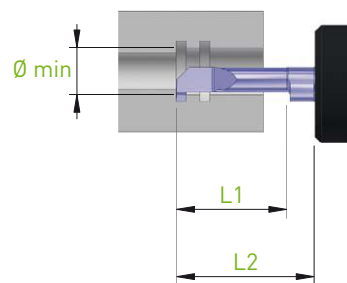
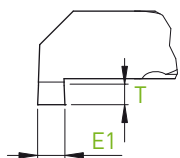
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | T    | E    | E1   | C    | E2   | L3 | Art. N°              | R    |       | L  |      |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|------|----|----------------------|------|-------|----|------|
|      |                                         |       |      |                         |                          |      |      |      |      |      |    |                      | P    | P     | P  | P    |
|      |                                         |       |      |                         |                          |      |      |      |      |      |    |                      | M    | M     | M  | M    |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 0.3   | 0.6  | 10                      | 8.5                      | 0.05 | 0.27 | 0.13 | 0.15 | 0.03 | 32 | BF4R/L-0306-C45-E03  | ZTAF | ZTAXF | ZN | ZTAF |
|      |                                         | 0.4   | 0.8  | 10                      | 8.5                      | 0.07 | 0.36 | 0.18 | 0.20 | 0.03 | 32 | BF4R/L-0408-C45-E03  | •    | •     | •  | •    |
|      |                                         | 0.5   | 1.0  | 10                      | 8.5                      | 0.08 | 0.45 | 0.22 | 0.25 | 0.03 | 32 | BF4R/L-0510-C45-E03  | •    | •     | •  | •    |
|      |                                         | 0.6   | 1.2  | 10                      | 8.5                      | 0.10 | 0.54 | 0.27 | 0.30 | 0.03 | 32 | BF4R/L-0612-C45-E03  | •    | •     | •  | •    |
|      |                                         | 0.7   | 1.4  | 10                      | 8.5                      | 0.12 | 0.63 | 0.32 | 0.35 | 0.03 | 32 | BF4R/L-0714-C45-E03  | •    | •     | •  | •    |
|      |                                         | 0.8   | 1.6  | 10                      | 8.5                      | 0.14 | 0.72 | 0.36 | 0.40 | 0.05 | 32 | BF4R/L-0816-C45-E05  | •    | •     | •  | •    |
|      |                                         | 0.9   | 1.8  | 10                      | 8.5                      | 0.15 | 0.81 | 0.41 | 0.45 | 0.05 | 32 | BF4R/L-0918-C45-E05  | •    | •     | •  | •    |
|      |                                         | 1.0   | 3.0  | 10                      | 8.5                      | 0.17 | 0.90 | 0.45 | 0.70 | 0.10 | 32 | BF4R/L-1030-C45-E10  | •    | •     | •  | •    |
|      |                                         | 1.2   | 3.6  | 10                      | 8.5                      | 0.20 | 1.08 | 0.54 | 0.70 | 0.10 | 32 | BF4R/L-1236-C45-E10  | •    | •     | •  | •    |
|      |                                         | 1.5   | 4.5  | 10                      | 8.5                      | 0.25 | 1.35 | 0.67 | 0.75 | 0.10 | 32 | BF4R/L-1545-C45-E10  | •    | •     | •  | •    |
|      |                                         | 2.0   | 6.0  | 10                      | 8.5                      | 0.34 | 1.80 | 0.90 | 1.15 | 0.20 | 32 | BF4R/L-2060-C45-E20  | •    | •     | •  | •    |
|      |                                         | 2.5   | 7.5  | 10                      | 8.5                      | 0.43 | 2.25 | 1.13 | 1.30 | 0.20 | 32 | BF4R/L-2575-C45-E20  | •    | •     | •  | •    |
|      |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 0.51 | 2.70 | 1.35 | 1.35 | 0.30 | 37 | BF4R/L-3090-C45-E30  | •    | •     | •  | •    |
|      |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 0.60 | 3.15 | 1.58 | 1.60 | 0.30 | 37 | BF4R/L-35105-C45-E30 | •    | •     | •  | •    |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 0.68 | 3.80 | 1.90 | 2.30 | 0.40 | 47 | BF6R/L-40120-C45-E40 | ZTAF | ZTAXF | ZN | ZTAF |
|      |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 0.85 | 4.75 | 2.37 | 2.50 | 0.50 | 47 | BF6R/L-50150-C45-E50 | •    | •     | •  | •    |
|      |                                         |       |      |                         |                          |      |      |      |      |      |    |                      |      |       |    |      |



| D <sub>h5</sub> | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | T    | E    | C    | R    | L3 | Art. N°               | R     |       | L     |       |
|-----------------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|-----------------------|-------|-------|-------|-------|
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                       | PTMNS | PTMNS | PTMNS | PTMNS |
| 4               | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 2.5   | 7.5  | 10                      | 8.5                      | 0.50 | 2.25 | 1.35 | 0.10 | 32 | BB4R/L-2575-C45X-R10  | ●     | ●     | ●     | ●     |
|                 |                                         |       | 12.5 | 15                      | 13.5                     | 0.50 | 2.25 | 1.35 | 0.10 | 37 | BB4R/L-25125-C45X-R10 | ●     | ●     | ●     | ●     |
|                 |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 0.60 | 2.70 | 1.45 | 0.10 | 37 | BB4R/L-3090-C45X-R10  | ●     | ●     | ●     | ●     |
|                 |                                         |       | 15.0 | 20                      | 18.5                     | 0.60 | 2.70 | 1.45 | 0.10 | 42 | BB4R/L-30150-C45X-R10 | ●     | ●     | ●     | ●     |
|                 |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 0.70 | 3.15 | 1.60 | 0.10 | 37 | BB4R/L-35105-C45X-R10 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 17.5 | 20                      | 18.5                     | 0.70 | 3.15 | 1.60 | 0.10 | 42 | BB4R/L-35175-C45X-R10 | ●     | ●     | ●     | ●     |
| D <sub>h5</sub> | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | T    | E    | C    | R    | L3 | Art. N°               | R     |       | L     |       |
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                       | PTMNS | PTMNS | PTMNS | PTMNS |
| 6               | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 0.80 | 3.80 | 2.30 | 0.15 | 47 | BB6R/L-40120-C45X-R15 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 20.0 | 30                      | 28.5                     | 0.80 | 3.80 | 2.30 | 0.15 | 57 | BB6R/L-40200-C45X-R15 | ●     | ●     | ●     | ●     |
|                 |                                         | 4.5   | 13.5 | 20                      | 18.5                     | 0.90 | 4.28 | 2.40 | 0.15 | 47 | BB6R/L-45135-C45X-R15 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 22.5 | 30                      | 28.5                     | 0.90 | 4.28 | 2.40 | 0.15 | 57 | BB6R/L-45225-C45X-R15 | ●     | ●     | ●     | ●     |
|                 |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 1.00 | 4.75 | 2.50 | 0.15 | 47 | BB6R/L-50150-C45X-R15 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 25.0 | 30                      | 28.5                     | 1.00 | 4.75 | 2.50 | 0.15 | 57 | BB6R/L-50250-C45X-R15 | ●     | ●     | ●     | ●     |
|                 |                                         | 5.5   | 16.5 | 20                      | 18.5                     | 1.10 | 5.15 | 2.60 | 0.15 | 47 | BB6R/L-55165-C45X-R15 | ●     | ●     | ●     | ●     |
|                 |                                         |       | 27.5 | 30                      | 28.5                     | 1.10 | 5.15 | 2.60 | 0.15 | 57 | BB6R/L-55275-C45X-R15 | ●     | ●     | ●     | ●     |



| D <sub>h5</sub> | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | T    | E    | C    | R    | L3 | Art. N°               | R                        | L                        |
|-----------------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|-----------------------|--------------------------|--------------------------|
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                       | P<br>M<br>N<br>S<br>ZTAF | P<br>M<br>N<br>S<br>ZTAF |
| 4               | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 2.5   | 7.5  | 10                      | 8.5                      | 0.50 | 2.25 | 1.35 | 0.10 | 32 | BF4R/L-2575-C45X-R10  | •                        | •                        |
|                 |                                         |       | 12.5 | 15                      | 13.5                     | 0.50 | 2.25 | 1.35 | 0.10 | 37 | BF4R/L-25125-C45X-R10 | •                        | •                        |
|                 |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 0.60 | 2.70 | 1.45 | 0.10 | 37 | BF4R/L-3090-C45X-R10  | •                        | •                        |
|                 |                                         |       | 15.0 | 20                      | 18.5                     | 0.60 | 2.70 | 1.45 | 0.10 | 42 | BF4R/L-30150-C45X-R10 | •                        | •                        |
|                 |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 0.70 | 3.15 | 1.60 | 0.10 | 37 | BF4R/L-35105-C45X-R10 | •                        | •                        |
|                 |                                         |       | 17.5 | 20                      | 18.5                     | 0.70 | 3.15 | 1.60 | 0.10 | 42 | BF4R/L-35175-C45X-R10 | •                        | •                        |
| D <sub>h5</sub> | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | T    | E    | C    | R    | L3 | Art. N°               | ZTAF                     | ZTAF                     |
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                       | ZN                       | ZN                       |
| 6               | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 0.80 | 3.80 | 2.30 | 0.15 | 47 | BF6R/L-40120-C45X-R15 | •                        | •                        |
|                 |                                         |       | 20.0 | 30                      | 28.5                     | 0.80 | 3.80 | 2.30 | 0.15 | 57 | BF6R/L-40200-C45X-R15 | •                        | •                        |
|                 |                                         | 4.5   | 13.5 | 20                      | 18.5                     | 0.90 | 4.28 | 2.40 | 0.15 | 47 | BF6R/L-45135-C45X-R15 | •                        | •                        |
|                 |                                         |       | 22.5 | 30                      | 28.5                     | 0.90 | 4.28 | 2.40 | 0.15 | 57 | BF6R/L-45225-C45X-R15 | •                        | •                        |
|                 |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 1.00 | 4.75 | 2.50 | 0.15 | 47 | BF6R/L-50150-C45X-R15 | •                        | •                        |
|                 |                                         |       | 25.0 | 30                      | 28.5                     | 1.00 | 4.75 | 2.50 | 0.15 | 57 | BF6R/L-50250-C45X-R15 | •                        | •                        |
|                 |                                         | 5.5   | 16.5 | 20                      | 18.5                     | 1.10 | 5.15 | 2.60 | 0.15 | 47 | BF6R/L-55165-C45X-R15 | •                        | •                        |
|                 |                                         |       | 27.5 | 30                      | 28.5                     | 1.10 | 5.15 | 2.60 | 0.15 | 57 | BF6R/L-55275-C45X-R15 | •                        | •                        |
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                       |                          |                          |
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                       |                          |                          |



| D <sub>h5</sub> | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | E1   | T    | E    | C    | L3 | Art. N°            | R                |                  | L                |                  |
|-----------------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|--------------------|------------------|------------------|------------------|------------------|
|                 |                                         |       |      |                         |                          |      |      |      |      |    |                    | P<br>M<br>N<br>S | P<br>M<br>N<br>S | P<br>M<br>N<br>S | P<br>M<br>N<br>S |
| 4               | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 3.0   | 9.0  | 15                      | 13.5                     | 0.50 | 0.60 | 2.70 | 1.45 | 37 | BB4R/L-3090-G050X  | •                | •                | •                | •                |
|                 |                                         |       | 15.0 | 20                      | 18.5                     | 0.50 | 0.60 | 2.70 | 1.45 | 42 | BB4R/L-30150-G050X | •                | •                | •                | •                |
|                 |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 0.75 | 0.70 | 3.15 | 1.60 | 37 | BB4R/L-35105-G075X | •                | •                | •                | •                |
|                 |                                         |       | 17.5 | 20                      | 18.5                     | 0.75 | 0.70 | 3.15 | 1.60 | 42 | BB4R/L-35175-G075X | •                | •                | •                | •                |
| 6               | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 1.00 | 0.80 | 3.80 | 2.20 | 47 | BB6R/L-40120-G100X | •                | •                | •                | •                |
|                 |                                         |       | 20.0 | 30                      | 28.5                     | 1.00 | 0.80 | 3.80 | 2.20 | 57 | BB6R/L-40200-G100X | •                | •                | •                | •                |
| 6               | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.5   | 13.5 | 20                      | 18.5                     | 1.00 | 0.90 | 4.28 | 2.40 | 47 | BB6R/L-45135-G100X | •                | •                | •                | •                |
|                 |                                         |       |      |                         |                          | 1.50 |      |      |      |    | BB6R/L-45135-G150X | •                | •                | •                | •                |
|                 |                                         |       | 22.5 | 30                      | 28.5                     | 1.00 | 0.90 | 4.28 | 2.40 | 57 | BB6R/L-45225-G100X | •                | •                | •                | •                |
|                 |                                         |       |      |                         |                          | 1.50 |      |      |      |    | BB6R/L-45225-G150X | •                | •                | •                | •                |
|                 |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 1.00 | 1.00 | 4.75 | 2.50 | 47 | BB6R/L-50150-G100X | •                | •                | •                | •                |
|                 |                                         |       |      |                         |                          | 1.50 |      |      |      |    | BB6R/L-50150-G150X | •                | •                | •                | •                |
|                 |                                         |       | 25.0 | 30                      | 28.5                     | 1.00 | 1.00 | 4.75 | 2.50 | 57 | BB6R/L-50250-G100X | •                | •                | •                | •                |
|                 |                                         |       |      |                         |                          | 1.50 |      |      |      |    | BB6R/L-50250-G150X | •                | •                | •                | •                |
|                 |                                         | 5.5   |      |                         |                          | 1.00 |      |      |      |    | BB6R/L-55165-G100X | •                | •                | •                | •                |
|                 |                                         |       | 16.5 | 20                      | 18.5                     | 1.50 | 1.10 | 5.15 | 2.60 | 47 | BB6R/L-55165-G150X | •                | •                | •                | •                |
|                 |                                         |       |      |                         |                          | 2.00 |      |      |      |    | BB6R/L-55165-G200X | •                | •                | •                | •                |
|                 |                                         |       |      |                         |                          | 1.00 |      |      |      |    | BB6R/L-55275-G100X | •                | •                | •                | •                |
| 6               | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 5.5   | 27.5 | 30                      | 28.5                     | 1.50 | 1.10 | 5.15 | 2.60 | 57 | BB6R/L-55275-G150X | •                | •                | •                | •                |
|                 |                                         |       |      |                         |                          | 2.00 |      |      |      |    | BB6R/L-55275-G200X | •                | •                | •                | •                |

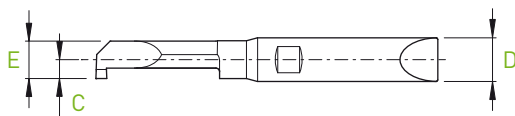
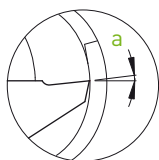
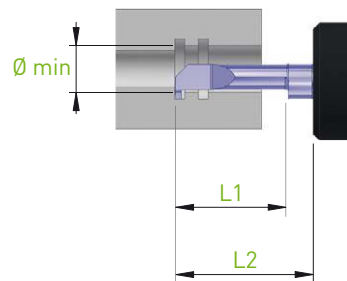
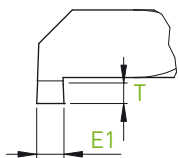


## Gorge

Einstechen  
Grooving

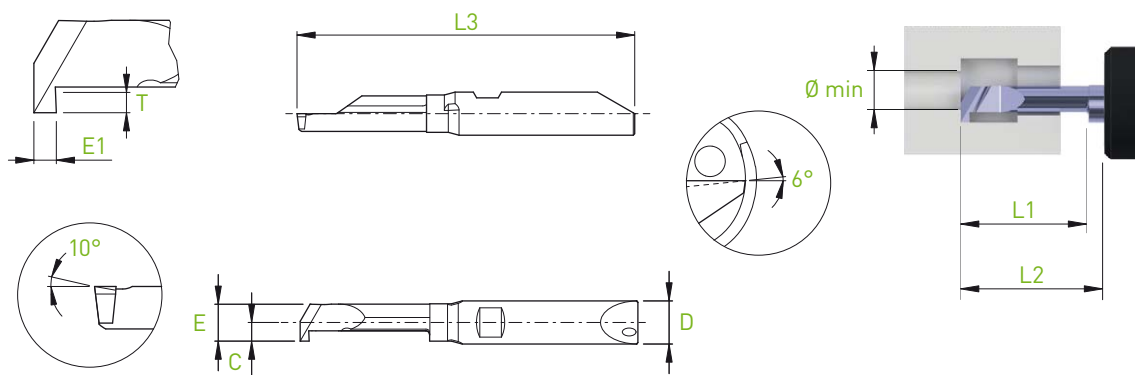
BF4... / BF6...

GX

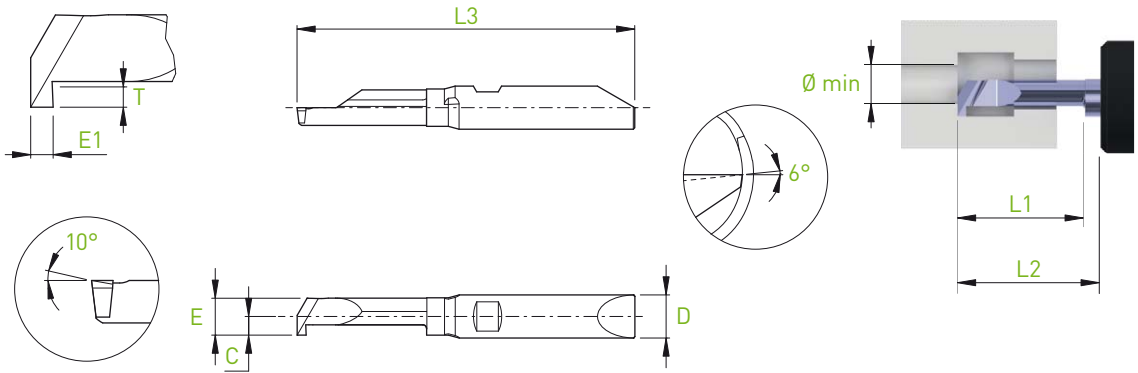


| D h5 | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | E1   | T    | E    | a  | C    | L3 | Art. N°            | R                |                  | L                |                  |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|----|------|----|--------------------|------------------|------------------|------------------|------------------|
|      |                                         |       |      |                         |                          |      |      |      |    |      |    |                    | P<br>M<br>N<br>S | P<br>M<br>N<br>S | P<br>M<br>N<br>S | P<br>M<br>N<br>S |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 0.5   | 1.0  | 10                      | 8.5                      | 0.15 | 0.10 | 0.45 | 3° | 0.25 | 32 | BF4R/L-0510-G015X  | •                | •                | •                | •                |
|      |                                         | 0.7   | 1.4  | 10                      | 8.5                      | 0.20 | 0.14 | 0.63 |    | 0.35 | 32 | BF4R/L-0714-G020X  | •                | •                | •                | •                |
|      |                                         | 1.0   | 2.0  | 10                      | 8.5                      | 0.30 | 0.20 | 0.90 |    | 0.60 | 32 | BF4R/L-1020-G030X  | •                | •                | •                | •                |
|      |                                         | 1.5   | 3.0  | 10                      | 8.5                      | 0.40 | 0.30 | 1.35 | 6° | 0.80 | 32 | BF4R/L-1530-G040X  | •                | •                | •                | •                |
|      |                                         | 2.0   | 6.0  | 10                      | 8.5                      | 0.40 | 0.40 | 1.80 |    | 1.15 | 32 | BF4R/L-2060-G040X  | •                | •                | •                | •                |
|      |                                         | 2.5   | 7.5  | 10                      | 8.5                      | 0.50 | 0.50 | 2.25 |    | 1.15 | 32 | BF4R/L-2575-G050X  | •                | •                | •                | •                |
|      |                                         | 3.0   | 9.0  | 15                      | 13.5                     | 0.50 | 0.60 | 2.70 |    | 1.45 | 37 | BF4R/L-3090-G050X  | •                | •                | •                | •                |
|      |                                         |       | 15.0 | 20                      | 18.5                     | 0.50 | 0.60 | 2.70 |    | 1.45 | 42 | BF4R/L-30150-G050X | •                | •                | •                | •                |
|      |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 0.75 | 0.70 | 3.15 |    | 1.60 | 37 | BF4R/L-35105-G075X | •                | •                | •                | •                |
|      |                                         |       | 17.5 | 20                      | 18.5                     | 0.75 | 0.70 | 3.15 |    | 1.60 | 42 | BF4R/L-35175-G075X | •                | •                | •                | •                |

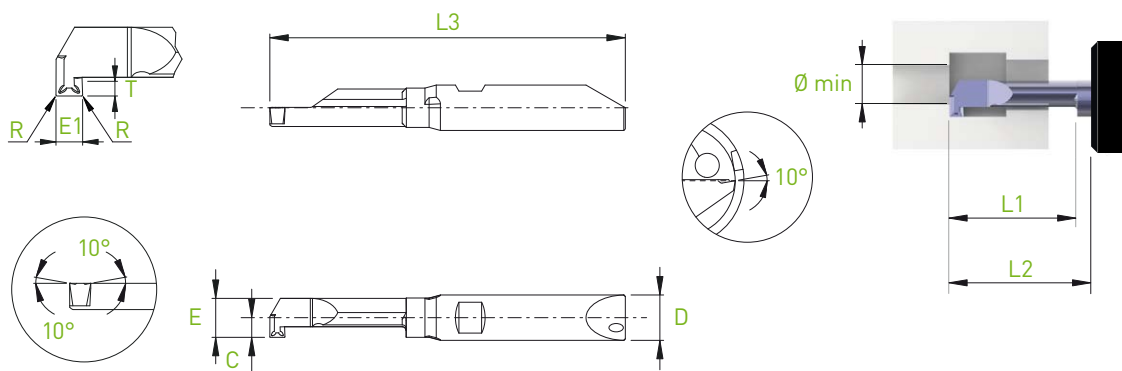
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | E1   | T    | E    | a  | C    | L3 | Art. N°            | ZTAF | ZTAXF | ZN | ZTAF | ZN |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|----|------|----|--------------------|------|-------|----|------|----|
|      |                                         |       |      |                         |                          |      |      |      |    |      |    |                    |      |       |    |      |    |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 12.0 | 20                      | 18.5                     | 1.00 | 0.80 | 3.80 | 6° | 2.20 | 47 | BF6R/L-40120-G100X | •    | •     | •  | •    | •  |
|      |                                         |       | 20.0 | 30                      | 28.5                     | 1.00 | 0.80 | 3.80 |    | 2.20 | 57 | BF6R/L-40200-G100X | •    | •     | •  | •    | •  |
|      |                                         | 4.5   | 13.5 | 20                      | 18.5                     | 1.00 | 0.90 | 4.28 |    | 2.40 | 47 | BF6R/L-45135-G100X | •    | •     | •  | •    | •  |
|      |                                         |       |      |                         |                          | 1.50 |      |      |    |      |    | BF6R/L-45135-G150X | •    | •     | •  | •    | •  |
|      |                                         |       | 22.5 | 30                      | 28.5                     | 1.00 | 0.90 | 4.28 |    | 2.40 | 57 | BF6R/L-45225-G100X | •    | •     | •  | •    | •  |
|      |                                         |       |      |                         |                          | 1.50 |      |      |    |      |    | BF6R/L-45225-G150X | •    | •     | •  | •    | •  |
|      |                                         | 5.0   | 15.0 | 20                      | 18.5                     | 1.00 | 1.00 | 4.75 |    | 2.50 | 47 | BF6R/L-50150-G100X | •    | •     | •  | •    | •  |
|      |                                         |       |      |                         |                          | 1.50 |      |      |    |      |    | BF6R/L-50150-G150X | •    | •     | •  | •    | •  |
|      |                                         |       | 25.0 | 30                      | 28.5                     | 1.00 | 1.00 | 4.75 |    | 2.50 | 57 | BF6R/L-50250-G100X | •    | •     | •  | •    | •  |
|      |                                         |       |      |                         |                          | 1.50 |      |      |    |      |    | BF6R/L-50250-G150X | •    | •     | •  | •    | •  |
|      |                                         | 5.5   | 16.5 | 20                      | 18.5                     | 1.50 | 1.10 | 5.15 |    | 2.60 | 47 | BF6R/L-55165-G100X | •    | •     | •  | •    | •  |
|      |                                         |       |      |                         |                          | 2.00 |      |      |    |      |    | BF6R/L-55165-G150X | •    | •     | •  | •    | •  |
|      |                                         |       |      |                         |                          | 1.00 |      |      |    |      |    | BF6R/L-55275-G100X | •    | •     | •  | •    | •  |
|      |                                         |       | 27.5 | 30                      | 28.5                     | 1.50 | 1.10 | 5.15 |    | 2.60 | 57 | BF6R/L-55275-G150X | •    | •     | •  | •    | •  |
|      |                                         |       |      |                         |                          | 2.00 |      |      |    |      |    | BF6R/L-55275-G200X | •    | •     | •  | •    | •  |



| D h5 | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | E1   | T    | E    | C    | L3 | Art. N°             | R    |       | L  |    |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|---------------------|------|-------|----|----|
|      |                                         |       |      |                         |                          |      |      |      |      |    |                     | P    | P     | P  | P  |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 3.0   | 9.0  | 15                      | 13.5                     | 1.00 | 0.60 | 2.7  | 1.45 | 37 | BB4R/L-3090-GT100X  | •    | •     | •  | •  |
|      |                                         |       | 15.0 | 20                      | 18.5                     | 1.00 | 0.60 | 2.7  | 1.45 | 42 | BB4R/L-30150-GT100X | •    | •     | •  | •  |
|      |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 1.00 | 0.70 | 3.15 | 1.6  | 37 | BB4R/L-35105-GT100X | •    | •     | •  | •  |
|      |                                         |       | 17.5 | 20                      | 18.5                     | 1.00 | 0.70 | 3.15 | 1.6  | 42 | BB4R/L-35175-GT100X | •    | •     | •  | •  |
|      |                                         |       |      |                         |                          |      |      |      |      |    |                     |      |       |    |    |
|      |                                         |       |      |                         |                          |      |      |      |      |    |                     |      |       |    |    |
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | E1   | T    | E    | C    | L3 | Art. N°             | R    |       | L  |    |
|      |                                         |       |      |                         |                          |      |      |      |      |    |                     | ZTAF | ZTAXF | ZN | ZN |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 14.0 | 20                      | 18.5                     | 1.25 | 0.80 | 3.8  | 2.2  | 47 | BB6R/L-40140-GT125X | •    | •     | •  | •  |
|      |                                         |       | 22.0 | 30                      | 28.5                     | 1.25 | 0.80 | 3.8  | 2.2  | 57 | BB6R/L-40220-GT125X | •    | •     | •  | •  |
|      |                                         | 4.5   | 16.0 | 20                      | 18.5                     | 1.25 | 0.90 | 4.28 | 2.4  | 47 | BB6R/L-45160-GT125X | •    | •     | •  | •  |
|      |                                         |       | 25.0 | 30                      | 28.5                     | 1.25 | 0.90 | 4.28 | 2.4  | 57 | BB6R/L-45250-GT125X | •    | •     | •  | •  |
|      |                                         | 5.0   | 17.5 | 20                      | 18.5                     | 1.25 | 1.00 | 4.75 | 2.5  | 47 | BB6R/L-50175-GT125X | •    | •     | •  | •  |
|      |                                         |       | 27.5 | 30                      | 28.5                     | 1.25 | 1.00 | 4.75 | 2.5  | 57 | BB6R/L-50275-GT125X | •    | •     | •  | •  |
|      |                                         | 5.5   | 17.5 | 20                      | 18.5                     | 1.25 | 1.10 | 5.15 | 2.6  | 47 | BB6R/L-55175-GT125X | •    | •     | •  | •  |
|      |                                         |       | 27.5 | 30                      | 28.5                     | 1.25 | 1.10 | 5.15 | 2.6  | 57 | BB6R/L-55275-GT125X | •    | •     | •  | •  |
|      |                                         |       |      |                         |                          |      |      |      |      |    |                     |      |       |    |    |
|      |                                         |       |      |                         |                          |      |      |      |      |    |                     |      |       |    |    |



|      |                                         |       |      |                         |                          |      |      |      |      |    |                     | R                                                                | L                                                                 |                                                                |                                                                  |                                                                |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|---------------------|------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | E1   | T    | E    | C    | L3 | Art. N°             | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> ZTAF | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> ZTAXF | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> ZN | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> ZTAF | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> ZN |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 3.0   | 9.0  | 15                      | 13.5                     | 1.00 | 0.60 | 2.7  | 1.45 | 37 | BF4R/L-3090-GT100X  | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         |       | 15.0 | 20                      | 18.5                     | 1.00 | 0.60 | 2.7  | 1.45 | 42 | BF4R/L-30150-GT100X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         | 3.5   | 10.5 | 15                      | 13.5                     | 1.00 | 0.70 | 3.15 | 1.6  | 37 | BF4R/L-35105-GT100X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         |       | 17.5 | 20                      | 18.5                     | 1.00 | 0.70 | 3.15 | 1.6  | 42 | BF4R/L-35175-GT100X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | E1   | T    | E    | C    | L3 | Art. N°             | ZTAF                                                             | ZTAXF                                                             | ZN                                                             | ZTAF                                                             | ZN                                                             |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 14.0 | 20                      | 18.5                     | 1.25 | 0.80 | 3.8  | 2.2  | 47 | BF6R/L-40140-GT125X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         |       | 22.0 | 30                      | 28.5                     | 1.25 | 0.80 | 3.8  | 2.2  | 57 | BF6R/L-40220-GT125X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         | 4.5   | 16.0 | 20                      | 18.5                     | 1.25 | 0.90 | 4.28 | 2.4  | 47 | BF6R/L-45160-GT125X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         |       | 25.0 | 30                      | 28.5                     | 1.25 | 0.90 | 4.28 | 2.4  | 57 | BF6R/L-45250-GT125X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         | 5.0   | 17.5 | 20                      | 18.5                     | 1.25 | 1.00 | 4.75 | 2.5  | 47 | BF6R/L-50175-GT125X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         |       | 27.5 | 30                      | 28.5                     | 1.25 | 1.00 | 4.75 | 2.5  | 57 | BF6R/L-50275-GT125X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         | 5.5   | 17.5 | 20                      | 18.5                     | 1.25 | 1.10 | 5.15 | 2.6  | 47 | BF6R/L-55175-GT125X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |
|      |                                         |       | 27.5 | 30                      | 28.5                     | 1.25 | 1.10 | 5.15 | 2.6  | 57 | BF6R/L-55275-GT125X | ●                                                                | ●                                                                 | ●                                                              | ●                                                                | ●                                                              |



| D | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | E1   | T    | E    | C   | R    | L3 | Art. N°                 | R    |      |      |
|---|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|-----|------|----|-------------------------|------|------|------|
|   |                                         |       |      |                         |                          |      |      |      |     |      |    |                         | PTAF | PTAF | PTAF |
| 6 | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.0   | 14.0 | 20                      | 18.5                     | 1.25 | 0.80 | 3.8  | 2.2 | 0.08 | 47 | BB6R-40140-GT125ZFX-R08 | •    | •    | •    |
|   |                                         |       | 22.0 | 30                      | 28.5                     | 1.25 | 0.80 | 3.8  | 2.2 | 0.08 | 57 | BB6R-40220-GT125ZFX-R08 | •    | •    | •    |
|   |                                         | 4.5   | 16.0 | 20                      | 18.5                     | 1.25 | 0.90 | 4.28 | 2.4 | 0.08 | 47 | BB6R-45160-GT125ZFX-R08 | •    | •    | •    |
|   |                                         |       | 25.0 | 30                      | 28.5                     | 1.25 | 0.90 | 4.28 | 2.4 | 0.08 | 57 | BB6R-45250-GT125ZFX-R08 | •    | •    | •    |
|   |                                         | 5.0   | 17.5 | 20                      | 18.5                     | 1.25 | 1.00 | 4.75 | 2.5 | 0.08 | 47 | BB6R-50175-GT125ZFX-R08 | •    | •    | •    |
|   |                                         |       | 17.5 | 20                      | 18.5                     | 2.00 | 1.00 | 4.75 | 2.5 | 0.08 | 47 | BB6R-50175-GT200ZFX-R08 | •    | •    | •    |
|   |                                         |       | 27.5 | 30                      | 28.5                     | 1.25 | 1.00 | 4.75 | 2.5 | 0.08 | 57 | BB6R-50275-GT125ZFX-R08 | •    | •    | •    |
|   |                                         |       | 27.5 | 30                      | 28.5                     | 2.00 | 1.00 | 4.75 | 2.5 | 0.08 | 57 | BB6R-50275-GT200ZFX-R08 | •    | •    | •    |
|   |                                         | 5.5   | 17.5 | 20                      | 18.5                     | 1.25 | 1.10 | 5.15 | 2.6 | 0.08 | 47 | BB6R-55175-GT125ZFX-R08 | •    | •    | •    |
|   |                                         |       | 17.5 | 20                      | 18.5                     | 2.00 | 1.10 | 5.15 | 2.6 | 0.08 | 47 | BB6R-55175-GT200ZFX-R08 | •    | •    | •    |
|   |                                         |       | 27.5 | 30                      | 28.5                     | 1.25 | 1.10 | 5.15 | 2.6 | 0.08 | 57 | BB6R-55275-GT125ZFX-R08 | •    | •    | •    |
|   |                                         |       | 27.5 | 30                      | 28.5                     | 2.00 | 1.10 | 5.15 | 2.6 | 0.08 | 57 | BB6R-55275-GT200ZFX-R08 | •    | •    | •    |

## GT-ZFX

Géométrie de coupe innovante avec brise copeaux de dernière génération  
 Innovative Schneidgeometrie mit Spanbrecher der neuesten Generation  
 Innovative cutting geometry with next-generation chip breaker



## Laser geometry

Très bonne maîtrise du copeau pour matières difficiles  
 Sehr gute Spankontrolle für schwierige Werkstoffe  
 Very efficient chip control for difficult materials



## Three-directional

Géométrie tri-directionnelle permettant un usinage optimal aussi bien en fonçage qu'en tournage, avant et arrière

Drei-direktionale Geometrie für eine optimale Bearbeitung sowohl im Senken als auch im Drehen, vorwärts und rückwärts

Three-directional geometry enabling optimal machining in both plunging and turning, forward and reverse

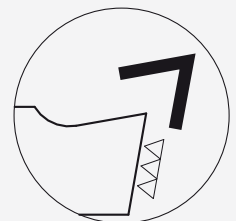


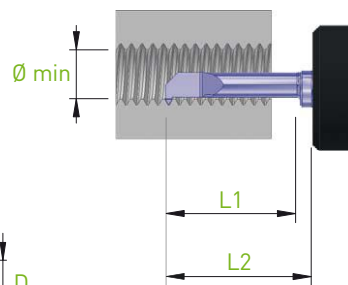
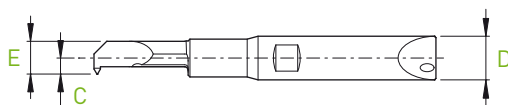
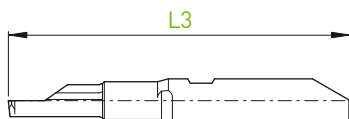
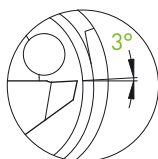
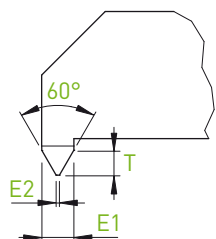
## Sharp cutting edge

L'arête de coupe vive assure une finition de haute qualité, réduisant l'effort et l'usure des outils

Die scharfe Schneidkante sorgt für eine hochwertige Oberflächengüte und verringert sowohl die Schnittkräfte als auch den Werkzeugverschleiss

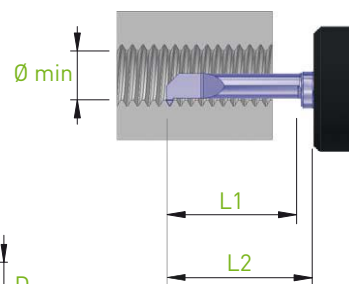
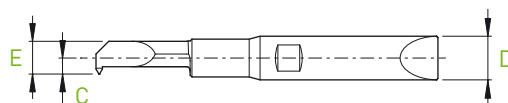
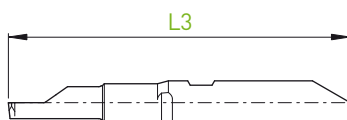
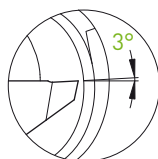
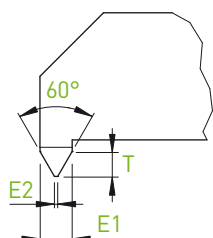
The sharp cutting edge ensures a high-quality finish while reducing cutting forces and tool wear



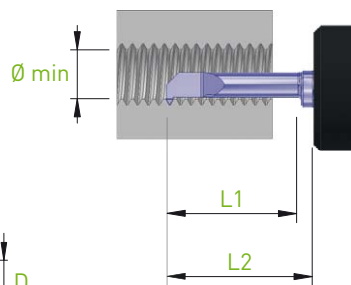
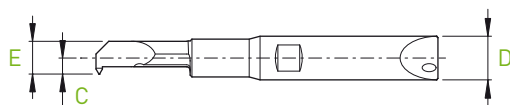
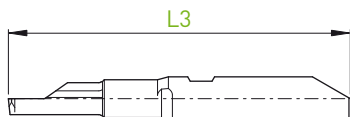
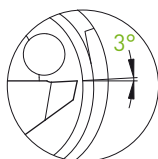
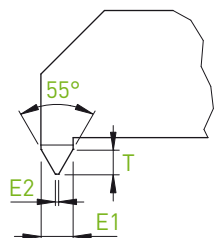


| D<br>h5 | Holder                                  | Ø<br>min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | P (mm)    | P (TPI) | E1   | E2<br>(0/-0.01) | T    | E    | C    | L3 | Art. N°           | R    |    | L    |    |
|---------|-----------------------------------------|----------|------|-------------------------|--------------------------|-----------|---------|------|-----------------|------|------|------|----|-------------------|------|----|------|----|
|         |                                         |          |      |                         |                          |           |         |      |                 |      |      |      |    |                   | ZTAF | ZN | ZTAF | ZN |
| 4       | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 1.25     | 3.2  | 10                      | 8.5                      | 0.20-0.35 | 80      | 0.30 | 0.02            | 0.25 | 1.10 | 0.80 | 32 | BB4R/L-1232-TP60  | •    | •  | •    | •  |
|         |                                         | 1.6      | 4.0  | 10                      | 8.5                      | 0.25-0.40 | 72-64   | 0.35 | 0.03            | 0.28 | 1.41 | 0.90 | 32 | BB4R/L-1640-TP60  | •    | •  | •    | •  |
|         |                                         | 2.5      | 6.0  | 10                      | 8.5                      | 0.35-0.50 | 56-48   | 0.44 | 0.04            | 0.34 | 2.25 | 1.35 | 32 | BB4R/L-2560-TP60  | •    | •  | •    | •  |
|         |                                         |          | 9.0  | 15                      | 13.5                     | 0.35-0.50 | 56-48   | 0.44 | 0.04            | 0.34 | 2.25 | 1.35 | 37 | BB4R/L-2590-TP60  | •    | •  | •    | •  |
|         |                                         | 3.3      | 8.0  | 15                      | 13.5                     | 0.50-0.75 | 40-36   | 0.62 | 0.06            | 0.48 | 2.97 | 1.50 | 37 | BB4R/L-3380-TP60  | •    | •  | •    | •  |
|         |                                         |          | 12.0 | 15                      | 13.5                     | 0.50-0.75 | 40-36   | 0.62 | 0.06            | 0.48 | 2.97 | 1.50 | 37 | BB4R/L-33120-TP60 | •    | •  | •    | •  |
| D<br>h5 | Holder                                  | Ø<br>min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | P (mm)    | P (TPI) | E1   | E2<br>(0/-0.01) | T    | E    | C    | L3 | Art. N°           | R    |    | L    |    |
|         |                                         |          |      |                         |                          |           |         |      |                 |      |      |      |    |                   | ZTAF | ZN | ZTAF | ZN |
| 6       | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.2      | 10.0 | 20                      | 18.5                     | 0.50-0.80 | 36-32   | 0.70 | 0.06            | 0.55 | 3.78 | 2.10 | 47 | BB6R/L-42100-TP60 | •    | •  | •    | •  |
|         |                                         |          | 15.0 | 20                      | 18.5                     | 0.50-0.80 | 36-32   | 0.70 | 0.06            | 0.55 | 3.78 | 2.10 | 47 | BB6R/L-42150-TP60 | •    | •  | •    | •  |
|         |                                         | 5.0      | 12.0 | 20                      | 18.5                     | 0.75-1.00 | 28-24   | 0.89 | 0.09            | 0.69 | 4.50 | 2.20 | 47 | BB6R/L-50120-TP60 | •    | •  | •    | •  |
|         |                                         |          | 18.0 | 20                      | 18.5                     | 0.75-1.00 | 28-24   | 0.89 | 0.09            | 0.69 | 4.50 | 2.20 | 47 | BB6R/L-50180-TP60 | •    | •  | •    | •  |

**Filetage**  
 Gewindedrehen  
 Threading

**BF4... / BF6...**
**TP60**


| D<br>h5 | Holder                                  | Ø<br>min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | P (mm)    | P (TPI) | E1   | E2<br>(0/-0.01) | T    | E    | C    | L3 | Art. N°           | R    |    | L    |    |
|---------|-----------------------------------------|----------|------|-------------------------|--------------------------|-----------|---------|------|-----------------|------|------|------|----|-------------------|------|----|------|----|
|         |                                         |          |      |                         |                          |           |         |      |                 |      |      |      |    |                   | PTAF | ZN | PTAF | ZN |
| 4       | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 1.25     | 3.2  | 10                      | 8.5                      | 0.20-0.35 | 80      | 0.30 | 0.02            | 0.25 | 1.10 | 0.80 | 32 | BF4R/L-1232-TP60  | •    | •  | •    | •  |
|         |                                         | 1.6      | 4.0  | 10                      | 8.5                      | 0.25-0.40 | 72-64   | 0.35 | 0.03            | 0.28 | 1.41 | 0.90 | 32 | BF4R/L-1640-TP60  | •    | •  | •    | •  |
|         |                                         | 2.5      | 6.0  | 10                      | 8.5                      | 0.35-0.50 | 56-48   | 0.44 | 0.04            | 0.34 | 2.25 | 1.35 | 32 | BF4R/L-2560-TP60  | •    | •  | •    | •  |
|         |                                         |          | 9.0  | 15                      | 13.5                     | 0.35-0.50 | 56-48   | 0.44 | 0.04            | 0.34 | 2.25 | 1.35 | 37 | BF4R/L-2590-TP60  | •    | •  | •    | •  |
|         |                                         | 3.3      | 8.0  | 15                      | 13.5                     | 0.50-0.75 | 40-36   | 0.62 | 0.06            | 0.48 | 2.97 | 1.50 | 37 | BF4R/L-3380-TP60  | •    | •  | •    | •  |
|         |                                         |          | 12.0 | 15                      | 13.5                     | 0.50-0.75 | 40-36   | 0.62 | 0.06            | 0.48 | 2.97 | 1.50 | 37 | BF4R/L-33120-TP60 | •    | •  | •    | •  |
| 6       | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 4.2      | 10.0 | 20                      | 18.5                     | 0.50-0.80 | 36-32   | 0.70 | 0.06            | 0.55 | 3.78 | 2.10 | 47 | BF6R/L-42100-TP60 | •    | •  | •    | •  |
|         |                                         |          | 15.0 | 20                      | 18.5                     | 0.50-0.80 | 36-32   | 0.70 | 0.06            | 0.55 | 3.78 | 2.10 | 47 | BF6R/L-42150-TP60 | •    | •  | •    | •  |
|         |                                         | 5.0      | 12.0 | 20                      | 18.5                     | 0.75-1.00 | 28-24   | 0.89 | 0.09            | 0.69 | 4.50 | 2.20 | 47 | BF6R/L-50120-TP60 | •    | •  | •    | •  |
|         |                                         |          | 18.0 | 20                      | 18.5                     | 0.75-1.00 | 28-24   | 0.89 | 0.09            | 0.69 | 4.50 | 2.20 | 47 | BF6R/L-50180-TP60 | •    | •  | •    | •  |
|         |                                         |          |      |                         |                          |           |         |      |                 |      |      |      |    |                   |      |    |      |    |



|                 |         |          |      |                         |                          |            |      |                 |      |      |      |    | R                 |            | L          |            |
|-----------------|---------|----------|------|-------------------------|--------------------------|------------|------|-----------------|------|------|------|----|-------------------|------------|------------|------------|
| D <sub>h5</sub> | Holder  | Ø<br>min | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | P<br>(TPI) | E1   | E2<br>[0/-0.02] | T    | E    | C    | L3 | Art. N°           | ZTAF<br>ZN | ZTAF<br>ZN | ZTAF<br>ZN |
| 4               | BH4...  | 1.85     | 4.5  | 10                      | 8.5                      | 48         | 0.54 | 0.09            | 0.44 | 1.67 | 0.97 | 32 | BB4R/L-1845-TP55  | •          | •          | •          |
|                 | BHS4... |          |      |                         |                          |            |      |                 |      |      |      |    |                   |            |            |            |
|                 | BHY4... | 2.55     | 6.0  | 10                      | 8.5                      | 40         | 0.64 | 0.10            | 0.52 | 2.25 | 1.35 | 32 | BB4R/L-2560-TP55  | •          | •          | •          |
|                 |         |          |      |                         |                          |            |      |                 |      |      |      |    |                   |            |            |            |
| D <sub>h5</sub> | Holder  | Ø<br>min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | P<br>(TPI) | E1   | E2<br>[0/-0.02] | T    | E    | C    | L3 | Art. N°           | ZTAF<br>ZN | ZTAF<br>ZN | ZTAF<br>ZN |
| 6               | BH6...  | 3.70     | 11.0 | 20                      | 18.5                     | 32-24      | 1.08 | 0.13            | 0.91 | 3.33 | 1.83 | 47 | BB6R/L-37110-TP55 | •          | •          | •          |
|                 | BHS6... | 5.10     | 15.0 | 20                      | 18.5                     | 26-20      | 1.30 | 0.16            | 1.09 | 4.60 | 2.05 | 47 | BB6R/L-51150-TP55 | •          | •          | •          |
|                 | BHY6... |          |      |                         |                          |            |      |                 |      |      |      |    |                   |            |            |            |
|                 | BHK6... | 5.50     | 16.0 | 20                      | 18.5                     | 22-16      | 1.48 | 0.19            | 1.24 | 5.15 | 2.60 | 47 | BB6R/L-55160-TP55 | •          | •          | •          |

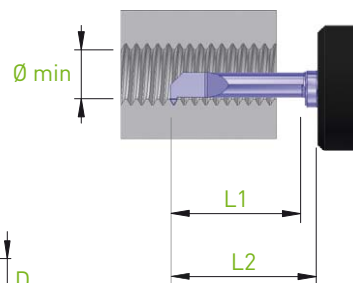
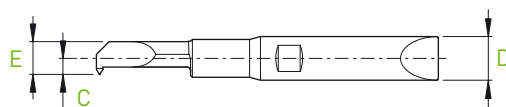
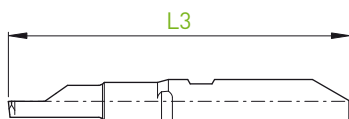
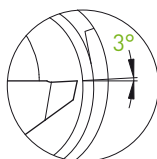
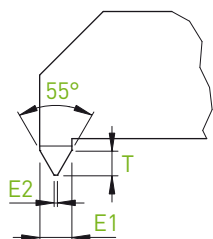


## Filetage

Gewindedrehen  
Threading

BF4... / BF6...

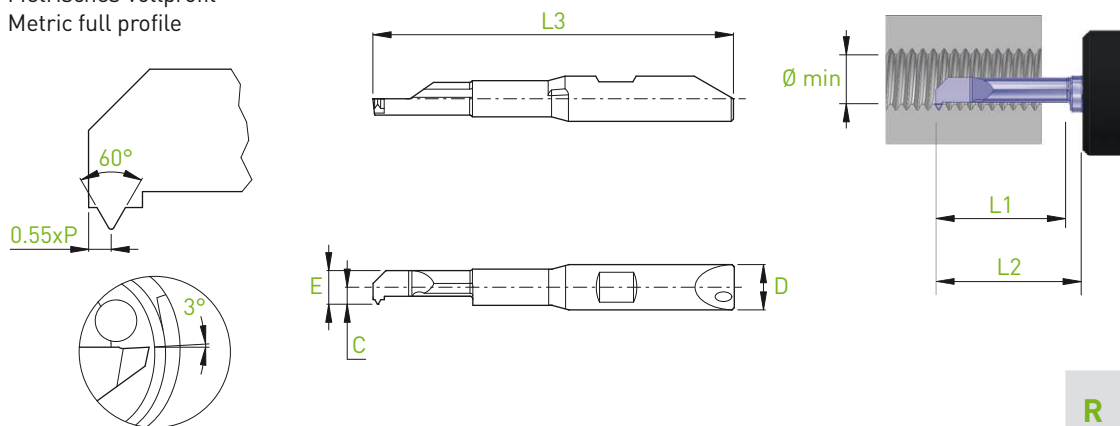
TP55



| D <sub>h5</sub> | Holder  | Ø <sub>min</sub> | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | P<br>(TPI) | E1   | E2<br>[0/-0.02] | T    | E    | C    | L3 | Art. N°           | R    |    | L    |    |
|-----------------|---------|------------------|------|-------------------------|--------------------------|------------|------|-----------------|------|------|------|----|-------------------|------|----|------|----|
|                 |         |                  |      |                         |                          |            |      |                 |      |      |      |    |                   | ZTAF | ZN | ZTAF | ZN |
| 4               | BH4...  | 1.85             | 4.5  | 10                      | 8.5                      | 48         | 0.54 | 0.09            | 0.44 | 1.67 | 0.97 | 32 | BF4R/L-1845-TP55  | ●    | ●  | ●    | ●  |
|                 | BHS4... |                  |      |                         |                          |            |      |                 |      |      |      |    |                   |      |    |      |    |
|                 | BHY4... | 2.55             | 6.0  | 10                      | 8.5                      | 40         | 0.64 | 0.10            | 0.52 | 2.25 | 1.35 | 32 | BF4R/L-2560-TP55  | ●    | ●  | ●    | ●  |
| 6               | BH6...  | 3.70             | 11.0 | 20                      | 18.5                     | 32-24      | 1.08 | 0.13            | 0.91 | 3.33 | 1.83 | 47 | BF6R/L-37110-TP55 | ●    | ●  | ●    | ●  |
|                 | BHS6... | 5.10             | 15.0 | 20                      | 18.5                     | 26-20      | 1.30 | 0.16            | 1.09 | 4.60 | 2.05 | 47 | BF6R/L-51150-TP55 | ●    | ●  | ●    | ●  |
|                 | BHY6... | 5.50             | 16.0 | 20                      | 18.5                     | 22-16      | 1.48 | 0.19            | 1.24 | 5.15 | 2.60 | 47 | BF6R/L-55160-TP55 | ●    | ●  | ●    | ●  |



Profil complet métrique  
 Metrisches Vollprofil  
 Metric full profile



| D h5 | Holder                                  | M (min) | Ø min | P (mm) | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | E    | C    | L3 | Art. N°            | R    |    |
|------|-----------------------------------------|---------|-------|--------|------|-------------------------|--------------------------|------|------|----|--------------------|------|----|
|      |                                         |         |       |        |      |                         |                          |      |      |    |                    | ZTAF | ZN |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | M3x0.5  | 2.50  | 0.50   | 6.0  | 10                      | 8.5                      | 2.25 | 1.35 | 32 | BB4R-2560-TM-0.50  | •    | •  |
|      |                                         | M4x0.7  | 3.30  | 0.70   | 8.0  | 15                      | 13.5                     | 2.97 | 1.50 | 37 | BB4R-3380-TM-0.70  | •    | •  |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | M (min) | Ø min | P (mm) | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | E    | C    | L3 | Art. N°            | ZTAF | ZN |
|      |                                         |         |       |        |      |                         |                          |      |      |    |                    |      |    |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | M5x0.8  | 4.20  | 0.80   | 10.0 | 20                      | 18.5                     | 3.78 | 2.10 | 47 | BB6R-42100-TM-0.80 | •    | •  |
|      |                                         | M6x1.0  | 5.00  | 1.00   | 12.0 | 20                      | 18.5                     | 4.50 | 2.20 | 47 | BB6R-50120-TM-1.00 | •    | •  |

## Filetage

Gewindedrehen  
Threading

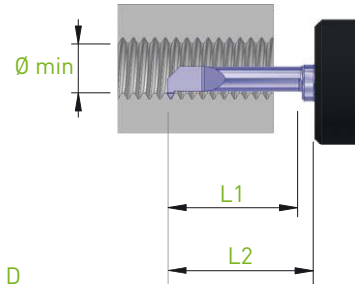
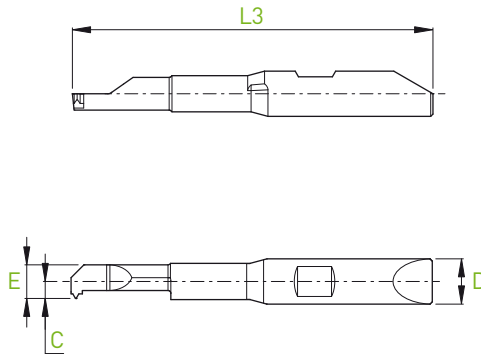
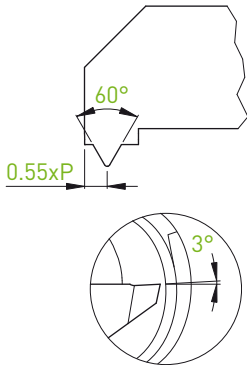
BF4... / BF6...

TM

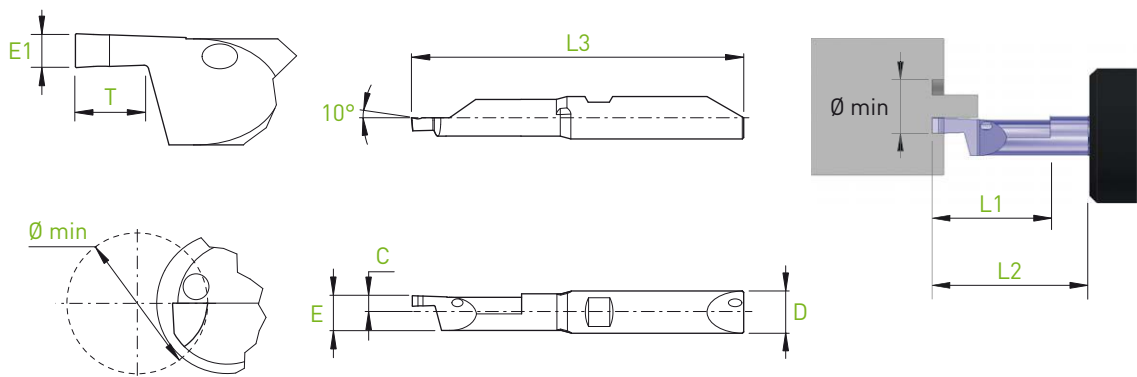
Profil complet métrique

Metrisches Vollprofil

Metric full profile



| D h5 | Holder                                  | M (min) | Ø min | P (mm) | L1   | L2<br>BH4...<br>BHY4... | L2<br>BHS4...<br>BHK4... | E    | C    | L3 | Art. N°            | R    |    |
|------|-----------------------------------------|---------|-------|--------|------|-------------------------|--------------------------|------|------|----|--------------------|------|----|
|      |                                         |         |       |        |      |                         |                          |      |      |    |                    | ZTAF | ZN |
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | M3x0.5  | 2.50  | 0.50   | 6.0  | 10                      | 8.5                      | 2.25 | 1.35 | 32 | BF4R-2560-TM-0.50  | •    | •  |
|      |                                         | M4x0.7  | 3.30  | 0.70   | 8.0  | 15                      | 13.5                     | 2.97 | 1.50 | 37 | BF4R-3380-TM-0.70  | •    | •  |
| D h5 | Holder                                  | M (min) | Ø min | P (mm) | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | E    | C    | L3 | Art. N°            | R    |    |
|      |                                         |         |       |        |      |                         |                          |      |      |    |                    | ZTAF | ZN |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | M5x0.8  | 4.20  | 0.80   | 10.0 | 20                      | 18.5                     | 3.78 | 2.10 | 47 | BF6R-42100-TM-0.80 | •    | •  |
|      |                                         | M6x1.0  | 5.00  | 1.00   | 12.0 | 20                      | 18.5                     | 4.50 | 2.20 | 47 | BF6R-50120-TM-1.00 | •    | •  |



|      |                                         |       |      |                         |                          |      |      |      |      |    | R                  |                                                                  |                                                               |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|--------------------|------------------------------------------------------------------|---------------------------------------------------------------|
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | T    | E    | C    | E1   | L3 | Art. N°            | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> ZTAF | <div><div>P</div><div></div><div>N</div><div>S</div></div> ZN |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 5.0   | 15.0 | 20                      | 18.5                     | 3.00 | 4.90 | 2.30 | 1.50 | 47 | BB6R-50150-FEG150X | ●                                                                | ●                                                             |

Gorge frontale intérieure

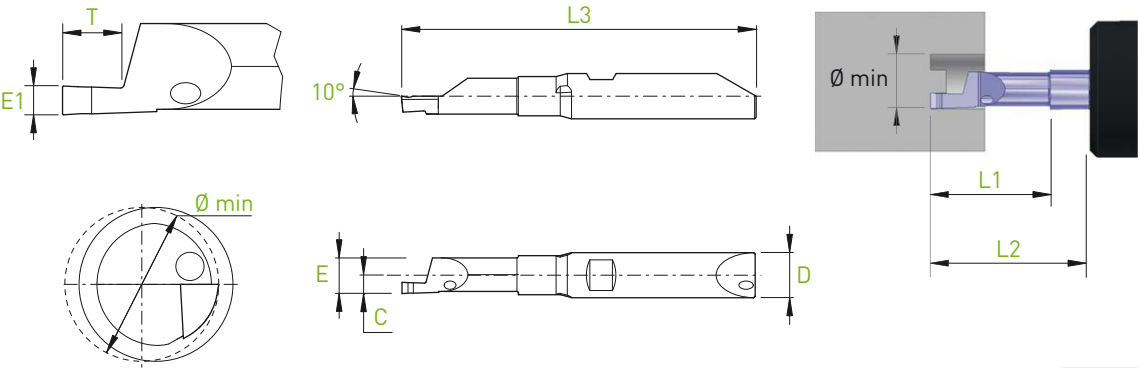
Innen axiales stechen

Internal axial grooving

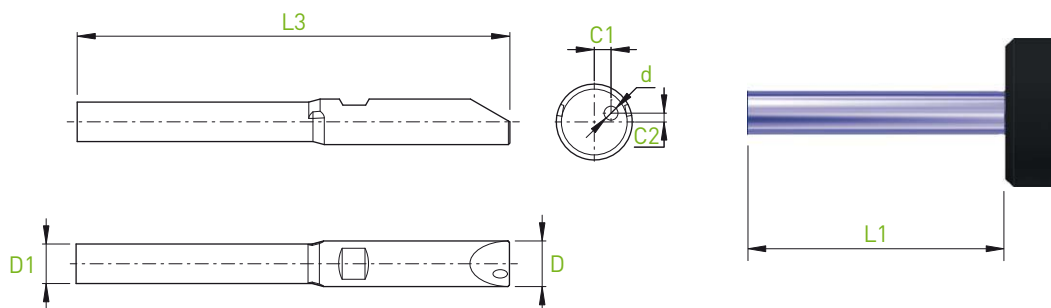


BB6...

FIG



|      |                                         |       |      |                         |                          |      |      |      |      |    | R                  |                                                                             |                                                                         |
|------|-----------------------------------------|-------|------|-------------------------|--------------------------|------|------|------|------|----|--------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| D h5 | Holder                                  | Ø min | L1   | L2<br>BH6...<br>BHY6... | L2<br>BHS6...<br>BHK6... | T    | E    | C    | E1   | L3 | Art. N°            | <div><div>P</div><div>M</div><div>N</div><div>S</div></div> <div>ZTAF</div> | <div><div>P</div><div></div><div>N</div><div>S</div></div> <div>Z</div> |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 5.0   | 15.0 | 20                      | 18.5                     | 3.00 | 4.75 | 2.45 | 1.50 | 47 | BB6R-50150-FIG150X | ●                                                                           | ●                                                                       |



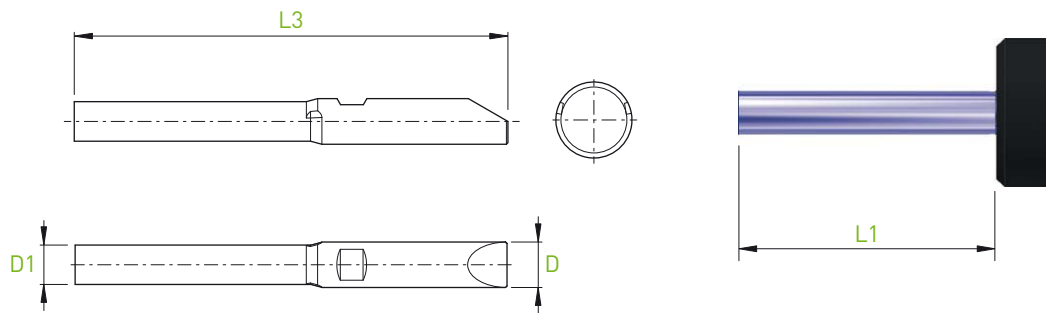
| D h5 | Holder                                  | L1<br>BH4...<br>BHY4... | L1<br>BHS4...<br>BHK4... | D1   | C1   | C2   | d    | L3 | Art. N°  | Z |
|------|-----------------------------------------|-------------------------|--------------------------|------|------|------|------|----|----------|---|
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 20.0                    | 18.5                     | 3.20 | 0.84 | 0.55 | 0.85 | 42 | BB4R-E42 | • |
| D h5 | Holder                                  | L1<br>BH6...<br>BHY6... | L1<br>BHS6...<br>BHK6... | D1   | C1   | C2   | d    | L3 | Art. N°  | Z |
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 30.0                    | 28.5                     | 5.20 | 1.33 | 0.70 | 1.10 | 57 | BB6R-E57 | • |

Ébauches  
Rohlinge  
Blanks



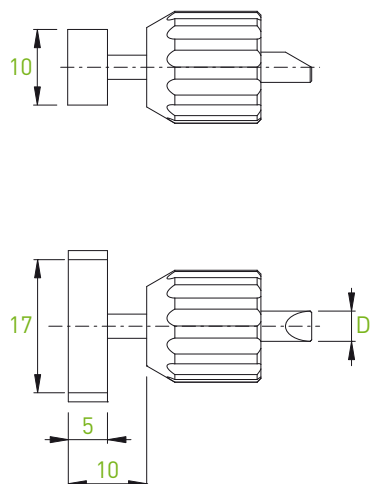
BF4... / BF6...

BF\_E

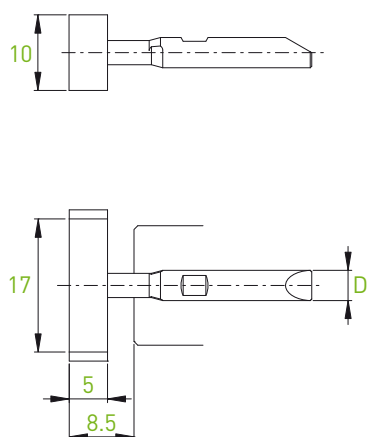


| D h5 | Holder                                  | L1<br>BH4...<br>BHY4... | L1<br>BHS4...<br>BHK4... | D1   | L3 | Art. N° | NZ |
|------|-----------------------------------------|-------------------------|--------------------------|------|----|---------|----|
| 4    | BH4...<br>BHS4...<br>BHY4...<br>BHK4... | 20.0                    | 18.5                     | 3.20 | 42 | BF4-E42 | ●  |

| D h5 | Holder                                  | L1<br>BH6...<br>BHY6... | L1<br>BHS6...<br>BHK6... | D1   | L3 | Art. N° | NZ |
|------|-----------------------------------------|-------------------------|--------------------------|------|----|---------|----|
| 6    | BH6...<br>BHS6...<br>BHY6...<br>BHK6... | 30.0                    | 28.5                     | 5.20 | 57 | BF6-E57 | ●  |



| D h5 | Art. N°    |   |
|------|------------|---|
| 4    | BH4-MASTER | • |
| 6    | BH6-MASTER | • |



| D h5 | Art. N°      |   |
|------|--------------|---|
| 4    | BHSY4-MASTER | • |
| 6    | BHSY6-MASTER | • |



**Porte-outils avec arrosage pour contre-opération - Machines STAR**  
 Halter mit Kühlungssystem für Gegenbearbeitung – STAR Maschinen  
 Backworking holders with through coolant – STAR Machines

**BH4 / BH6**  
**BHS4 / BHS6**

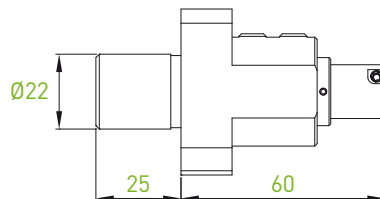


Art. N°

BWD1-2022-STAR-SRR

Art. N°

BHS4-D20-55-BWD1  
 BHS6-D20-55-BWD1



Types of STAR machines

SR10J (T22+T24)  
 SB16/20 Types C + D + E (T21-T24)  
 SB20R Types E + G + N (T21-T24)  
 SR20J / JN (T21-T24)  
 SR20R / II / III (T21-T24)  
 SR20R IV (T21-T24)  
 SR32J/JN (T21-T24)  
 SW12RII (T21-T24)  
 SV20R (T21-T24)  
 ECAS12/20 (T21-T24)  
 SW20 (T21-T23)



Art. N°

BWD1-2022-STAR-SW

Art. N°

BHS4-D20-55-BWD1  
 BHS6-D20-55-BWD1

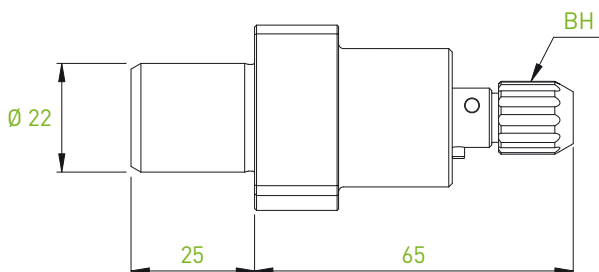
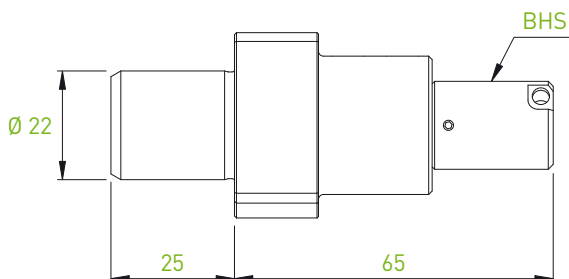
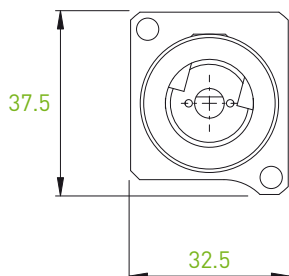


Types of STAR machines

SW12RII (T21-T28)  
 SW20 (T21-T23 + T25-T27)  
 SV20R (T21-T28)  
 SR-20R IV (T21-T28)  
 SB12/20R (T22-T24)  
 SR38 (T21-T28)

## BH4 / BH6 BHS4 / BHS6

Porte-outils avec arrosage pour contre-opération - Machines STAR  
Halter mit Kühlungssystem für Gegenbearbeitung – STAR Maschinen  
Backworking holders with through coolant – STAR Machines



Art. N°

BWD1-1222-STAR-SW-B

Art. N°

BHS4-D12-51-BWD1-B  
BHS6-D12-51-BWD1-B

Art. N°

BH4-D12-51-BWD1-B  
BH6-D12-51-BWD1-B

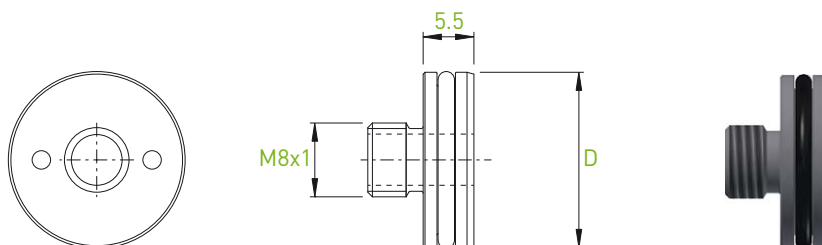
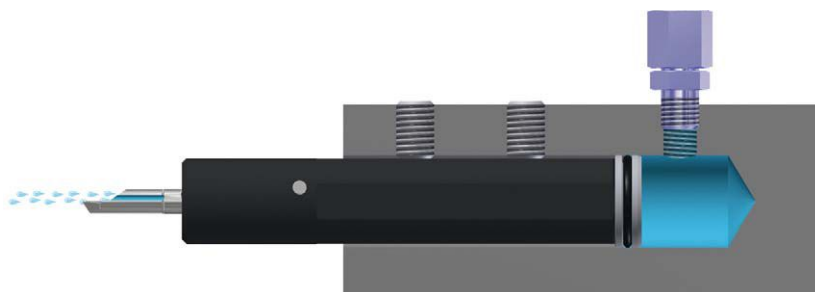
### Types of STAR machines

SW12R II (T21-T28)  
SW20 (T21-T23 + T25-T27)  
SV20R (T21-T28)  
SR-20R IV (T21-T28)  
SB12/20R (T22-T24)  
SR38 (T21-T28)

**Bagues d'étanchéité**

Dichtungsringe

Sealing rings

**JB**

| D     | Art. N°        |   |
|-------|----------------|---|
| 19.05 | JB-M8X1-D19.05 | ● |
| 20    | JB-M8X1-D20    | ● |
| 22    | JB-M8X1-D22    | ● |
| 25    | JB-M8X1-D25    | ● |
| 25.4  | JB-M8X1-D25.4  | ● |

# SYMBOL

## Légende des symboles

Symbollegende

Symbol Legend

| E   | L | Art. N°   | TiAlN | TiN | N (µK20) | HTA | HTiN | HN (µK10) |
|-----|---|-----------|-------|-----|----------|-----|------|-----------|
| 1.0 | 5 | 731RU-1.0 | •     | •   |          |     |      |           |
| 1.2 | 5 | 731RU-1.2 | •     | •   |          |     |      |           |
| 1.5 | 7 | 731RU-1.5 | •     | •   | •        | •   | •    | •         |
| 2.0 | 7 | 731RU-2.0 | •     | •   |          |     |      |           |

• Article standart  
Standardartikel  
Standard item

P

Acier  
Stahl  
Steel

M

Inox  
Rostfreistahl  
Stainless steel

N

Alliages d'aluminium et non ferreux  
Aluminium- und Nichtisenlegierungen  
Aluminium and non-ferrous alloys

S

Titane et superalliages  
Titan und Superlegierungen  
Titanium and superalloys

H

Acier trempé  
Gehärteter Stahl  
Hardened steel

K

Fonte  
Gusseisen  
Cast iron

O

Matière exotique  
Exotisches material  
Exotic material



Carbure  
Hartmetall  
Carbide



TiAlN

K20

µK20 + revêtement PVD  
µK20 + PVD Beschichtung  
µK20 + PVD coating

P ★★★★★  
M ★★★★★  
N ★★★★★  
S ★★★★★

TF F M E

Épaisseur du revêtement  
Dicken der Beschichtung  
Thickness of the coating

TF

Très fin  
Sehr dünn  
Very thin

F

Fin  
Dünn  
Thin

M

Moyen  
Mittel  
Medium

E

Épais  
Dick  
Thick